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2022 Ford F-350 Super Duty Service and Repair Manual

[Go to manual page](#)



Evaporative Emission System Leak Test

303-13E Evaporative Emissions - 5.0L 32V Ti-VCT	2022 F-150
General Procedures	Procedure revision date: 10/16/2014

Evaporative Emission System Leak Test

Activation

Phase 1 - Leak Verification

1. Run the EVAP (evaporative emission) Test with the scan tool.

2. NOTE

Some small leaks may not be detected using the EVAP (evaporative emission) Test. If the system has passed the test but a leak is still suspected, then proceed to Phase 2.

If the EVAP (evaporative emission) system failed the EVAP (evaporative emission) Test, then proceed to Phase 2.

Phase 2 - System Leak Check

3. Disconnect the fuel vapor tube-to- EVAP (evaporative emission) canister purge valve quick connect coupling.

Refer to: [Quick Release Coupling](#)(310-00E Fuel System - General Information - 5.0L 32V Ti-VCT, General Procedures).

4. Connect the VACUTEC Smoke Machine Fuel EVAP (evaporative emission) Emissions System Tester to the fuel vapor tube quick connect coupling. Refer to the manufacturer's instructions.

5. NOTE



Evaporative Emission Blocking Valve

303-13E Evaporative Emissions - 5.0L 32V Ti-VCT	2022 F-150
Removal and Installation	Procedure revision date: 11/22/2022

Evaporative Emission Blocking Valve

Removal

NOTE

Removal steps in this procedure may contain installation details.

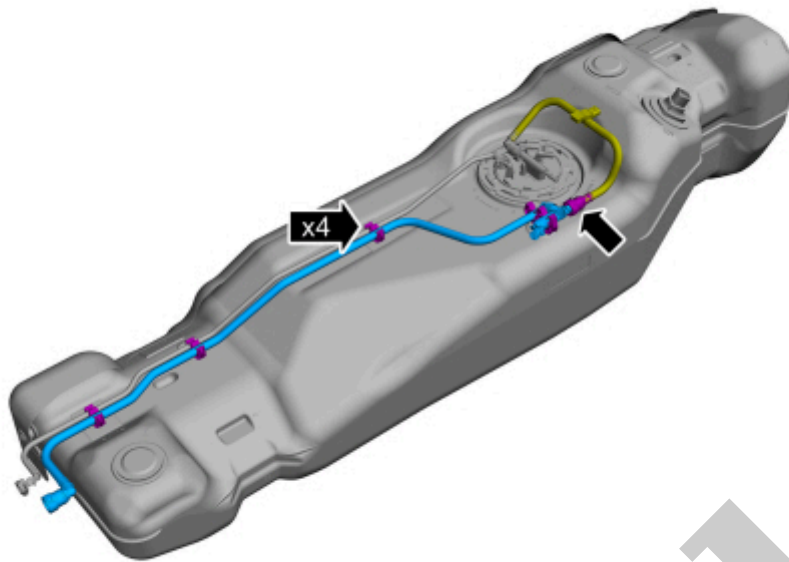
1. Remove the fuel tank.

Refer to: [Fuel Tank](#)(310-01E Fuel Tank and Lines - 5.0L 32V Ti-VCT, Removal and Installation).

Type - 1

2. Disconnect the quick release coupling and remove the evaporative emission blocking valve and retainers.

Refer to: [Quick Release Coupling](#)(310-00E Fuel System - General Information - 5.0L 32V Ti-VCT, General Procedures).



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Type - 3

4. Disconnect the quick release coupling and remove the evaporative emission blocking valve and retainers.

Refer to: [Quick Release Coupling](#)(310-00E Fuel System - General Information - 5.0L 32V Ti-VCT, General Procedures).



Evaporative Emission Canister Purge Valve

303-13E Evaporative Emissions - 5.0L 32V Ti-VCT	2022 F-150
Removal and Installation	Procedure revision date: 09/23/2020

Evaporative Emission Canister Purge Valve

Removal

WARNING

Do not smoke, carry lighted tobacco or have an open flame of any type when working on or near any fuel-related component. Highly flammable mixtures may be present and may be ignited. Failure to follow these instructions may result in serious 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 component. Highly flammable mixtures may be present and may be ignited. Failure to follow these instructions may result in serious personal injury.

WARNING

Always disconnect the battery ground cable at the battery when working on an evaporative emission (EVAP) system or fuel-related component. Highly flammable mixtures may be present and may be ignited. Failure to follow these instructions may result in serious personal injury.

NOTE



Evaporative Emission Canister Vent Solenoid

303-13E Evaporative Emissions - 5.0L 32V Ti-VCT	2022 F-150
Removal and Installation	Procedure revision date: 09/23/2020

Evaporative Emission Canister Vent Solenoid

Removal

NOTE

Removal steps in this procedure may contain installation details.

1. Remove the EVAP (evaporative emission) canister.

Refer to: [Evaporative Emission Canister](#)(303-13E Evaporative Emissions - 5.0L 32V Ti-VCT, Removal and Installation).

2. Remove the EVAP (evaporative emission) canister vent solenoid.



Evaporative Emission Canister Ventilation Filter

<i>303-13E Evaporative Emissions - 5.0L 32V Ti-VCT</i>	<i>2022 F-150</i>
<i>Removal and Installation</i>	<i>Procedure revision date: 09/23/2020</i>

Evaporative Emission Canister Ventilation Filter

Removal

NOTE

Removal steps in this procedure may contain installation details.

1. Remove the EVAP (evaporative emission) canister.

Refer to: [Evaporative Emission Canister](#)(303-13E Evaporative Emissions - 5.0L 32V Ti-VCT, Removal and Installation).
2. If necessary, remove the EVAP (evaporative emission) canister solenoid.

1. To install, reverse the removal procedure.

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Sample

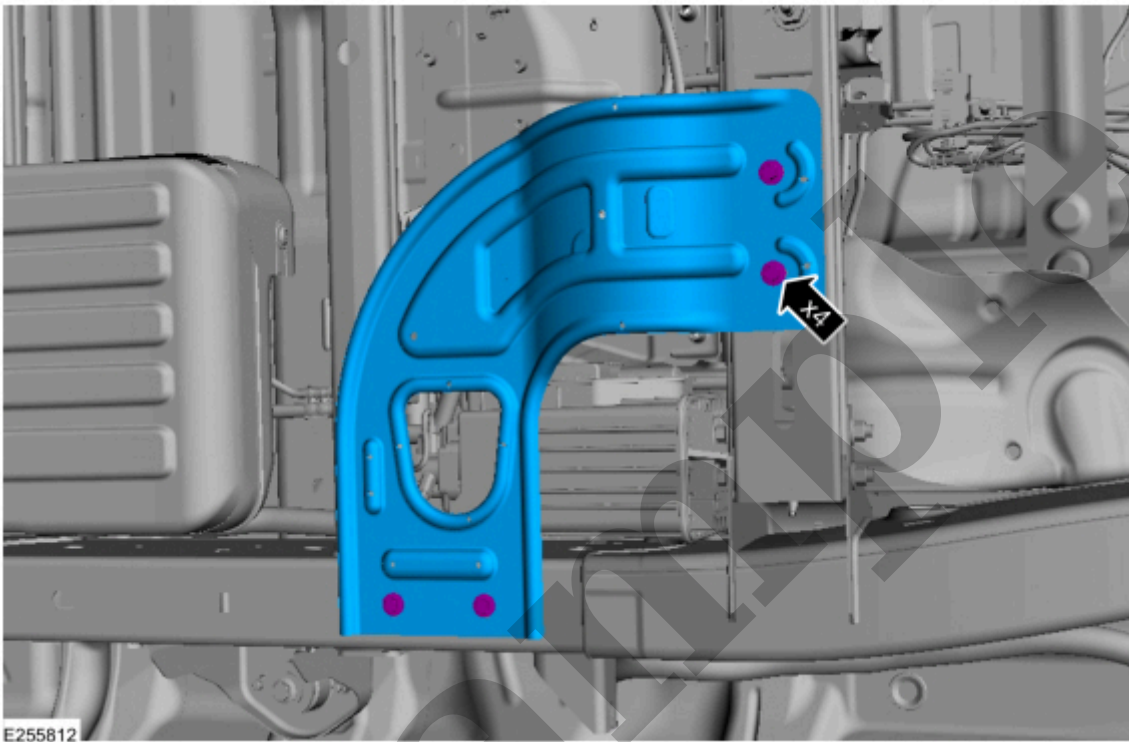
Removal steps in this procedure may contain installation details.

1. With the vehicle in N (Neutral) , position it on a hoist.

Refer to: [Jacking and Lifting - Overview](#)(100-02 Jacking and Lifting, Description and Operation).

2. If equipped, Remove the transfer case skid plate.

Torque : 177 lb.in (20 Nm)



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Type - 1

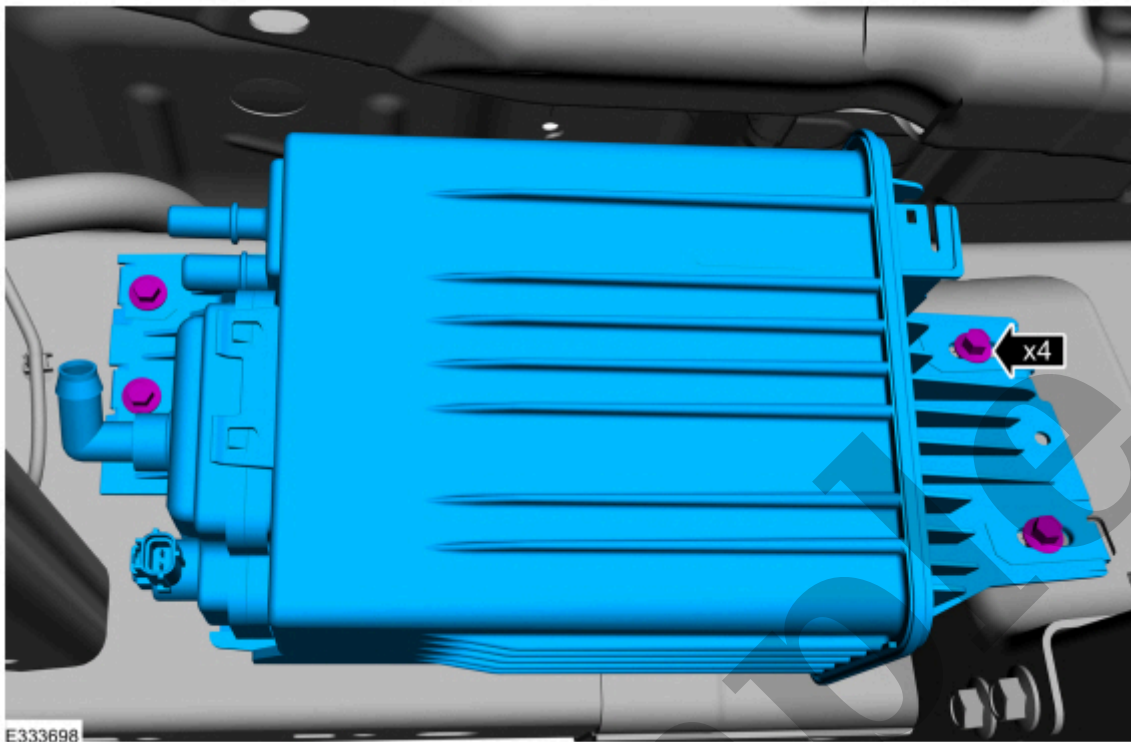
3.
 - Disconnect the quick release couplings.

Refer to: [Quick Release Coupling](#)(310-00E Fuel System - General Information - 5.0L 32V Ti-VCT, General Procedures).

- Disconnect the fresh air hose.
- Detach the fuel line routing clip from the EVAP (evaporative emission) canister and position the line aside.

5. Remove the bolts and the EVAP (evaporative emission) canister.

Torque : 124 lb.in (14 Nm)



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Type - 2

6. • Disconnect the quick release couplings.

Refer to: [Quick Release Coupling](#) (310-00E Fuel System - General Information - 5.0L 32V Ti-VCT, General Procedures).

- Disconnect the fresh air hose.
- Detach the fuel line routing clip from the EVAP (evaporative emission) canister and position the line aside.