

2022 CHEVROLET CORVETTE SERVICE MANUAL

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Evaporative Emission System Cleaning

Special Tools

GE 41413-A Evaporative Pressure and Purge Station

Equivalent regional tools: Special Tools

Inspection Procedure

Caution:

Use the Evaporative Emission (EVAP) System Tester *GE 41413-A* in order to provide a clean, dry, low pressure nitrogen gas source. Do not substitute any other pressurized source, gas or otherwise. Damage may result to the EVAP system, test equipment or cause a safety risk.

1. Note:

Proceed with the following procedure only if referenced by an evaporative emission (EVAP) diagnostic or repair procedure.

2. Turn OFF the ignition.
3. Remove the EVAP canister purge valve. *Evaporative Emission Canister Purge Solenoid Valve Replacement*
4. Lightly tap the EVAP canister purge valve on a hard surface.
5. Inspect for carbon particles exiting either of the vacuum ports.
6.
 - If no carbon particles were detected, but a blockage was detected during a diagnostic procedure, install the original EVAP canister purge valve. Continue with the cleaning procedure.
 - If carbon particles are found during the inspection procedure, continue with the cleaning procedure.
 - If a diagnostic procedure directed you to replace the EVAP canister purge valve and no carbon particles were detected, replace the EVAP canister purge valve. Return to the published service procedure.

Cleaning Procedure

1. Raise and support the vehicle. *Lifting and Jacking the Vehicle*
2. Remove the EVAP canister. *Evaporative Emission Canister Replacement*
3. Turn OFF the main valve on the *GE 41413-A* station.
4. Disconnect the hose from the diagnostic station pressure regulator.
5. Using a section of vacuum hose, connect one end onto the EVAP pressure/purge diagnostic station pressure regulator.
6. Connect the other end of the vacuum hose to the canister side of the purge pipe.
7. Turn ON the main nitrogen cylinder valve and continue to discharge nitrogen for 15 seconds.
8. If the nitrogen does not clear the blockage, replace the purge pipe.
9. Return the EVAP pressure/purge diagnostic station to the stations original condition.
10. Install a new EVAP canister. *Evaporative Emission Canister Replacement*
11. Lower the vehicle.

12. Install a new EVAP canister purge valve. Evaporative Emission Canister Purge Solenoid Valve Replacement
13. Return to the diagnostic table that sent you here.

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