

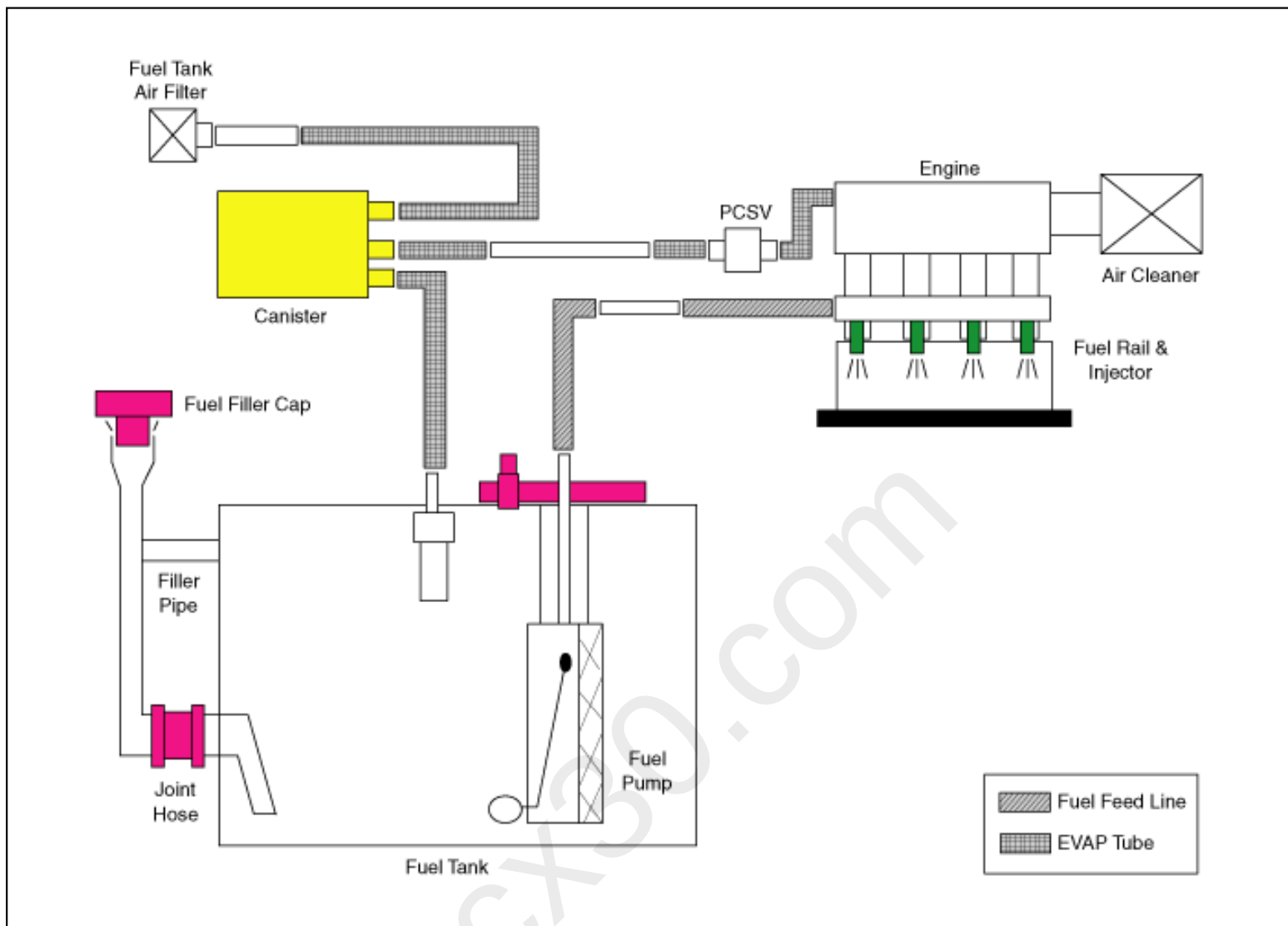
Description

The Evaporative Emission Control System prevents fuel vapor stored in fuel tank from vaporizing into the atmosphere. When the fuel evaporates in the fuel tank, the vapor passes through vent hoses or tubes to a canister filled with charcoal.

The canister temporarily holds the vapor in the charcoal. The ECM will control the system in order to draw the gathered vapor into the combustion chambers during certain operating conditions. Engine manifold vacuum is used to draw the vapor into intake manifold.

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Schematic Diagram



Canister

The Canister is filled with charcoal and absorbs evaporated fuel vapor from the fuel tank. The gathered fuel vapor in canister is drawn into the intake manifold by the ECM/PCM when appropriate conditions are set.

Purge Control Solenoid Valve (PCSV)

The Purge control solenoid valve (PCSV) is installed in the passage connecting the canister to the intake manifold. It is a duty type solenoid valve and is operated by ECM/PCM signal.

To draw the absorbed vapor into the intake manifold, the ECM/PCM will open the PCSV, otherwise the passage remains closed.

Fuel Filler Cap

A ratchet tightening device in the threaded fuel filler cap reduces the chances of incorrect installation, when sealing the fuel filler. After the gasket on the fuel filler cap and the fill neck flange make contact, the ratchet produces a loud clicking noise indicating the seal has been set.

Removal



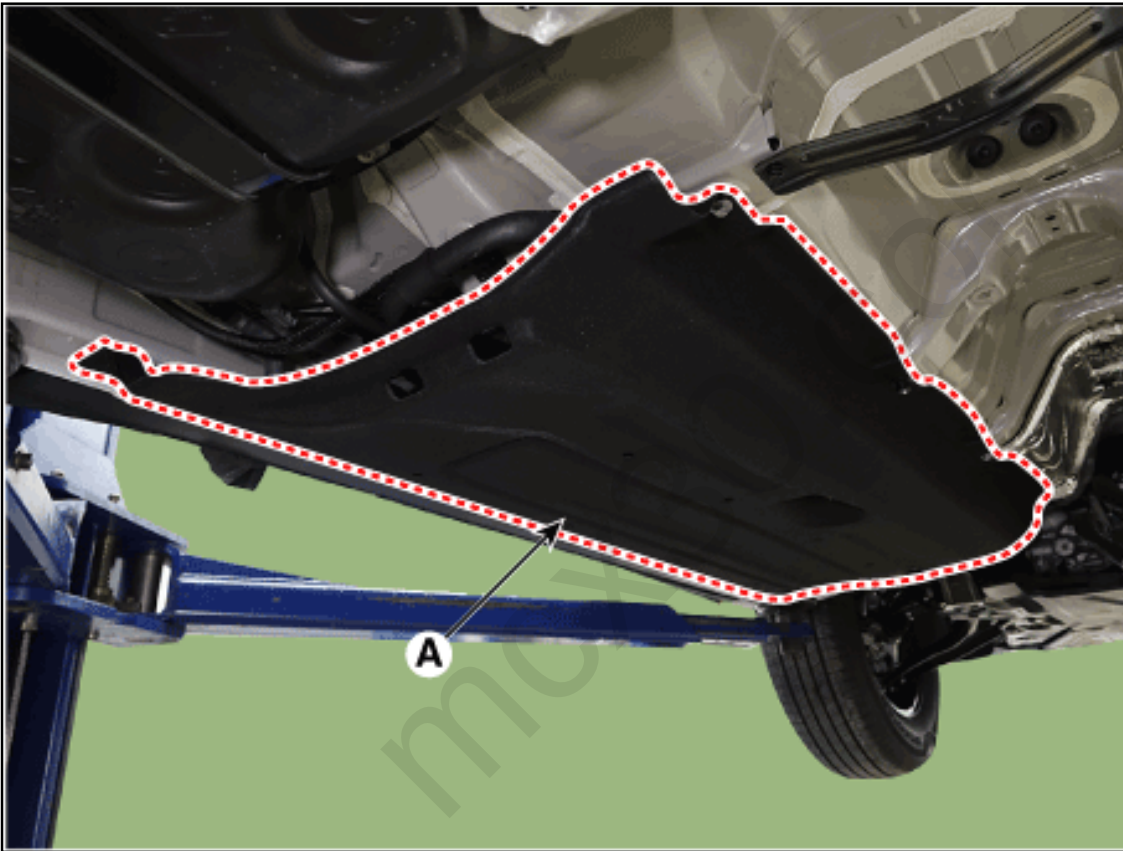
- Be careful not to damage the parts located under the vehicle (floor under cover, canister, fuel tank) when raising the vehicle using the lift.

(Refer to General Information - "Lift and Support Points")

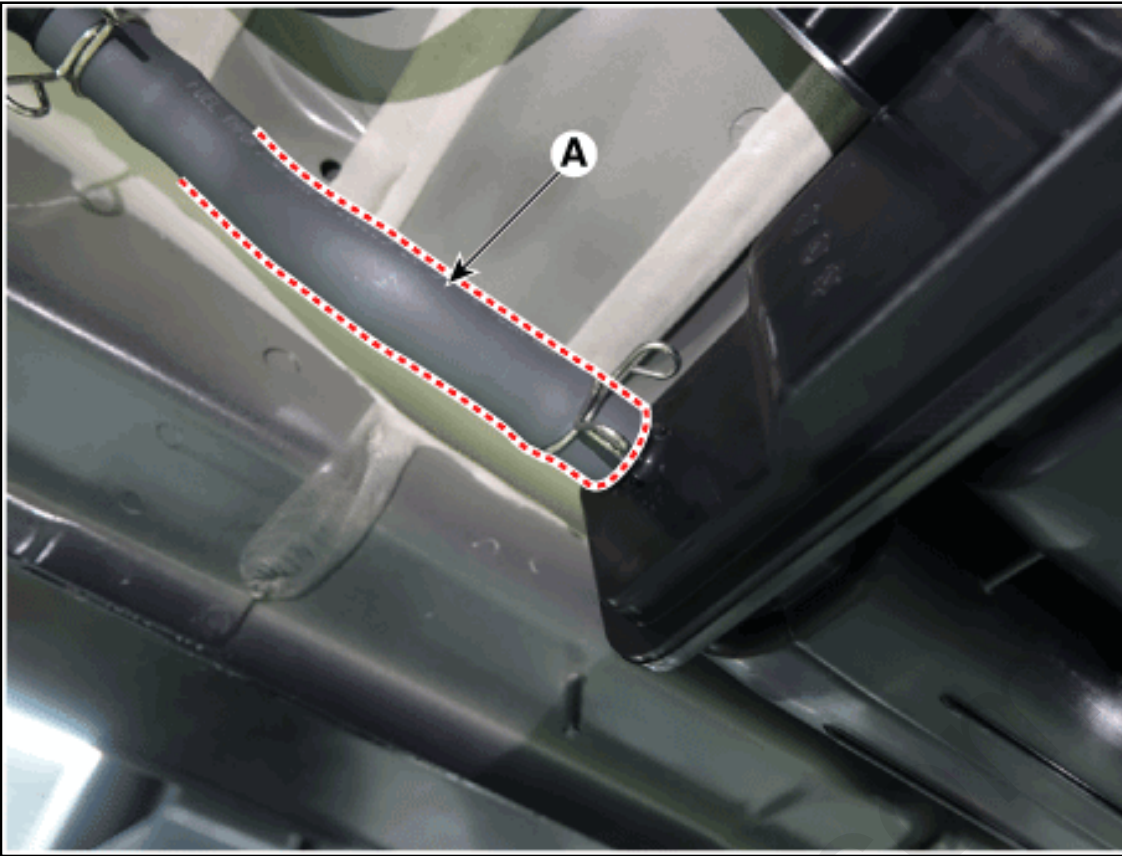
1. Turn the ignition switch OFF and disconnect the battery (-) terminal.
2. Remove the floor under cover (A).

Tightening Torque :

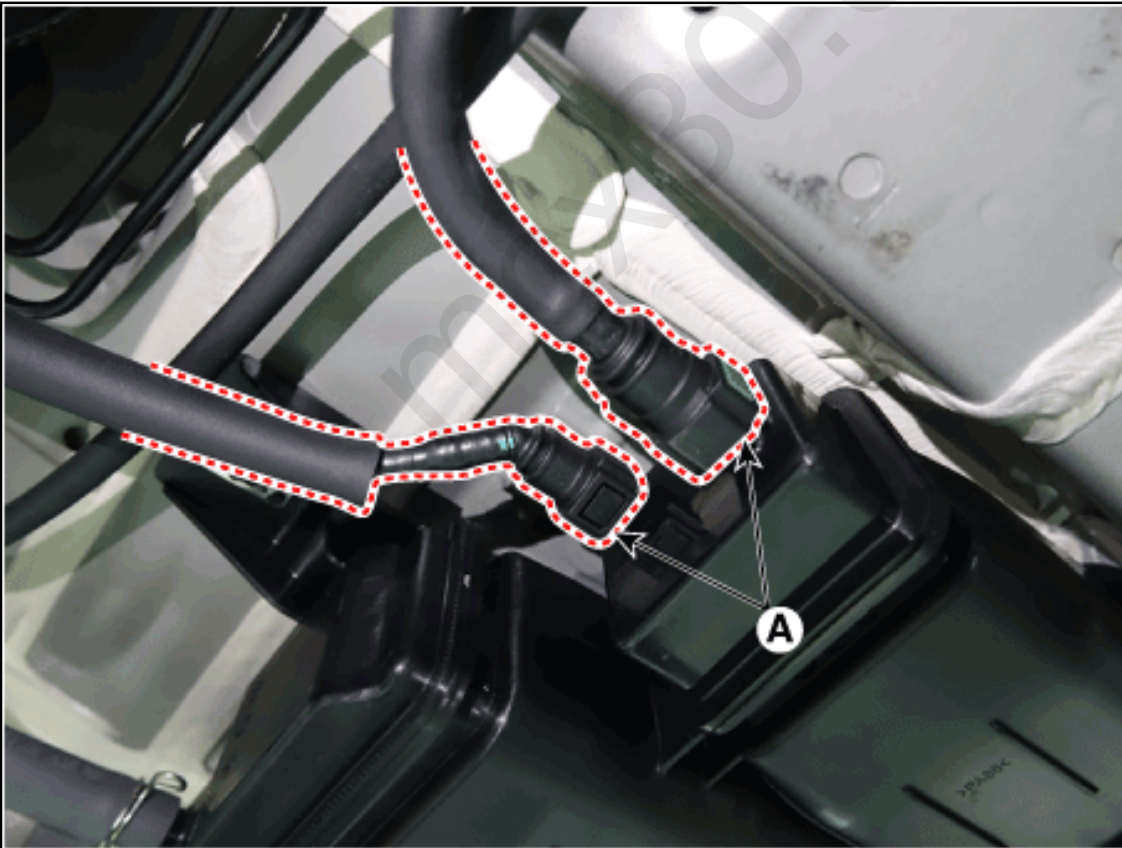
7.9 - 11.8 N·m (0.8 - 1.2 kgf·m, 5.8 - 8.7 lb·ft)



3. Separate the ventilation hose (A).



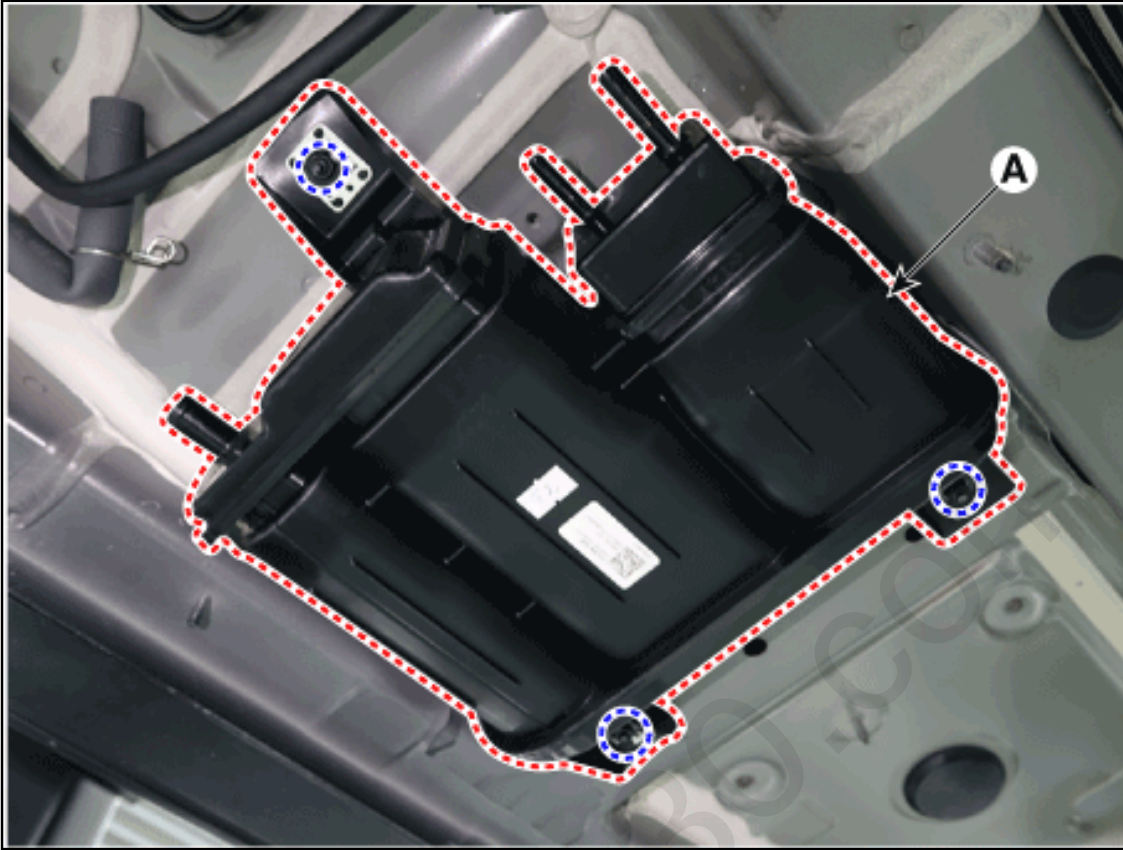
4. Disconnect the vapor hose quick-connector (A).



5. Remove the canister (A) after loosening the mounting nuts.

Tightening Torque :

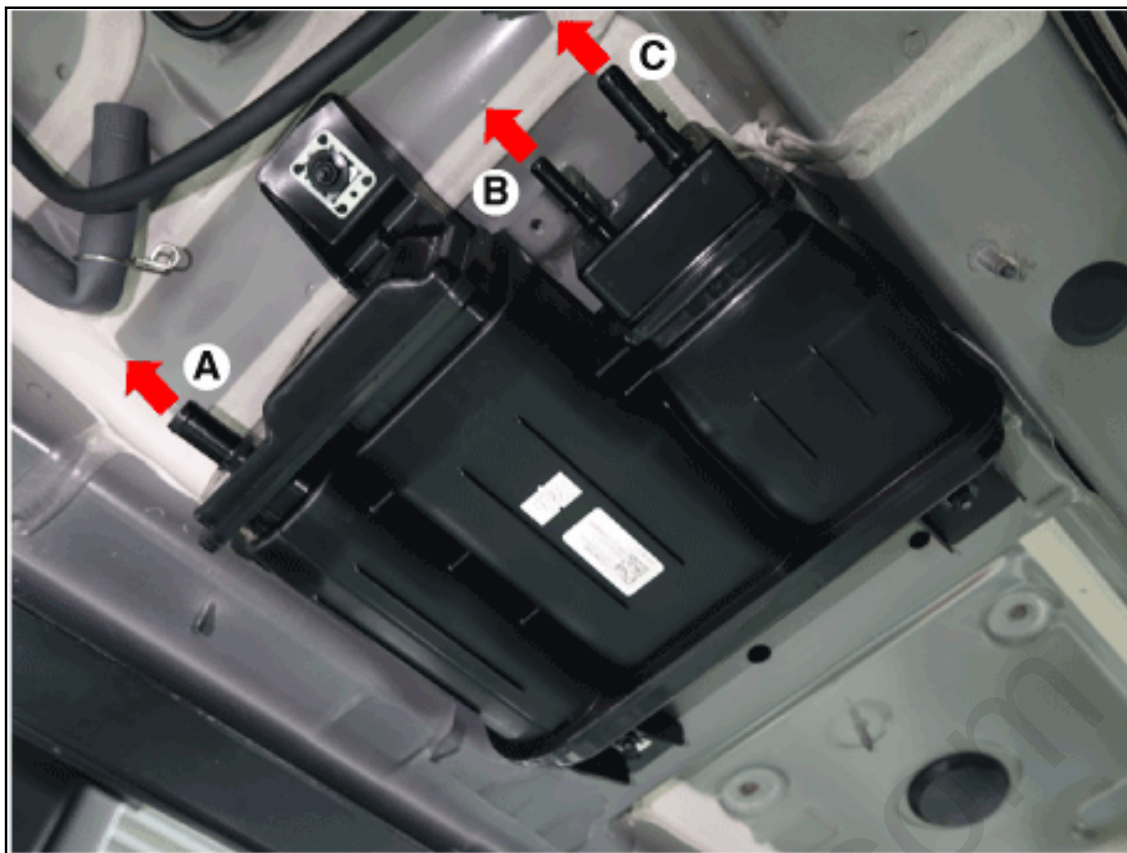
7.8 - 11.8 N.m (0.8 - 1.2 kgf.m, 5.7 - 8.7 lb-ft)

**Installation**

1. Install in the reverse order of removal.

Inspection

1. Check for the following items visually.
 - Cracks or leakage of the canister
 - Loose connection, distortion, or damage of the vapor hose/tube



A : Canister ↔ Atmosphere

B : Canister ↔ Fuel Tank

C : Canister ↔ Intake Manifold

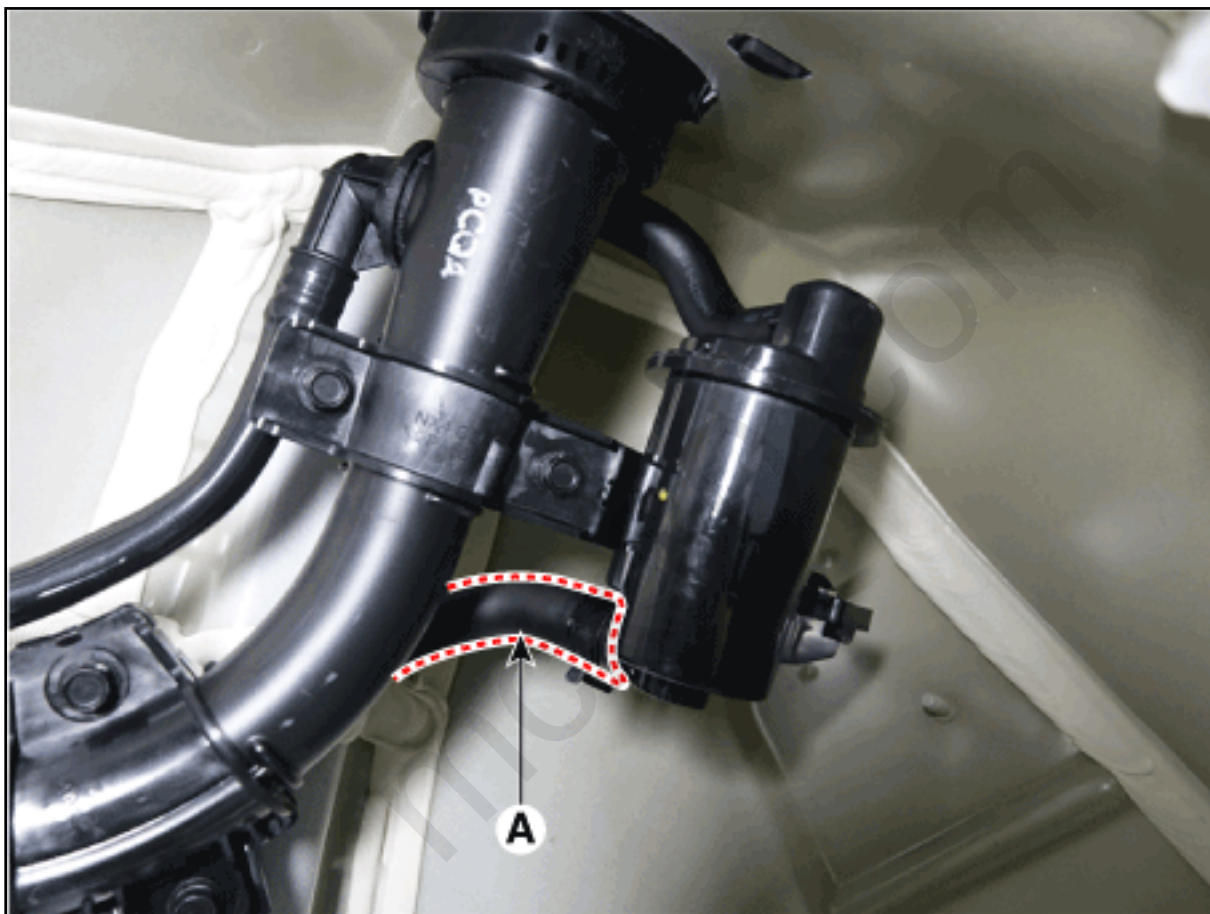
Removal



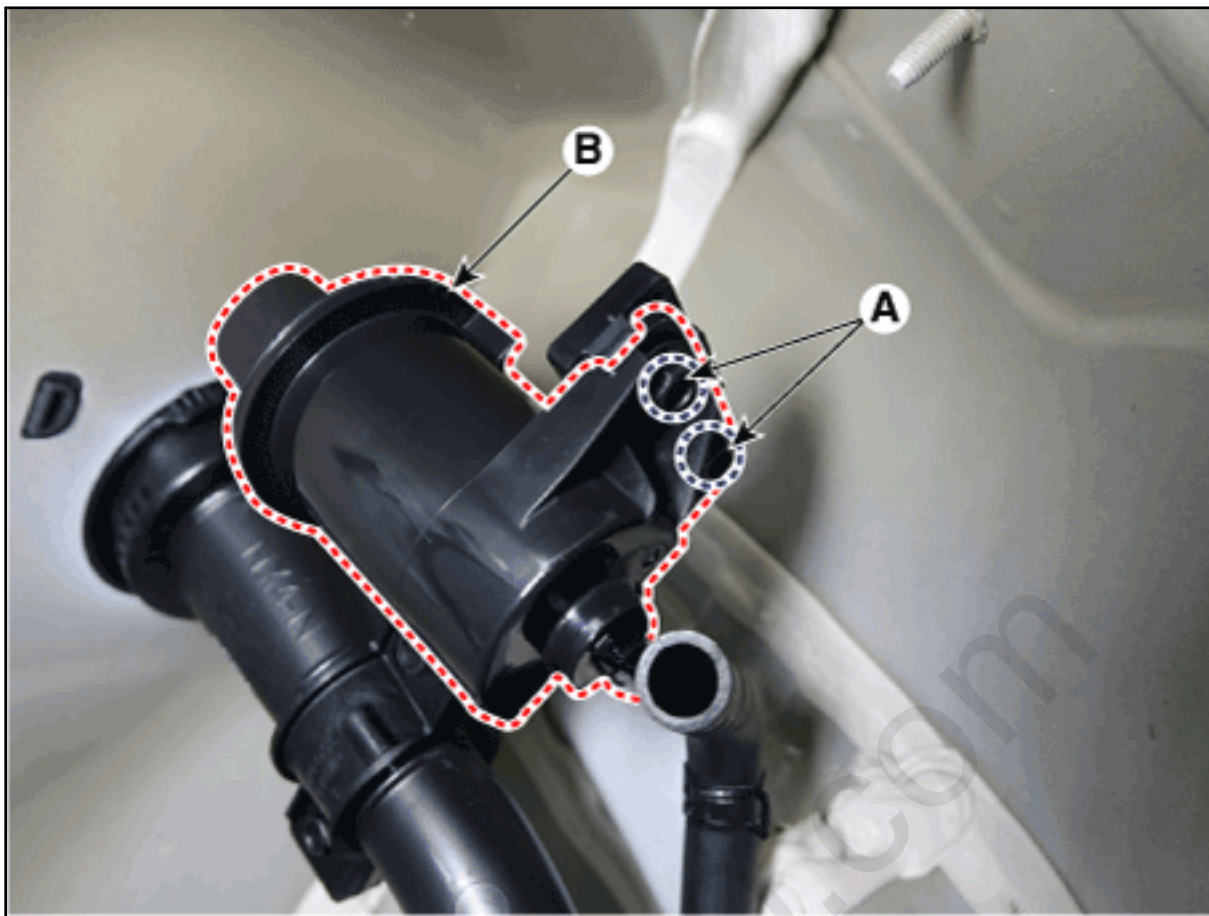
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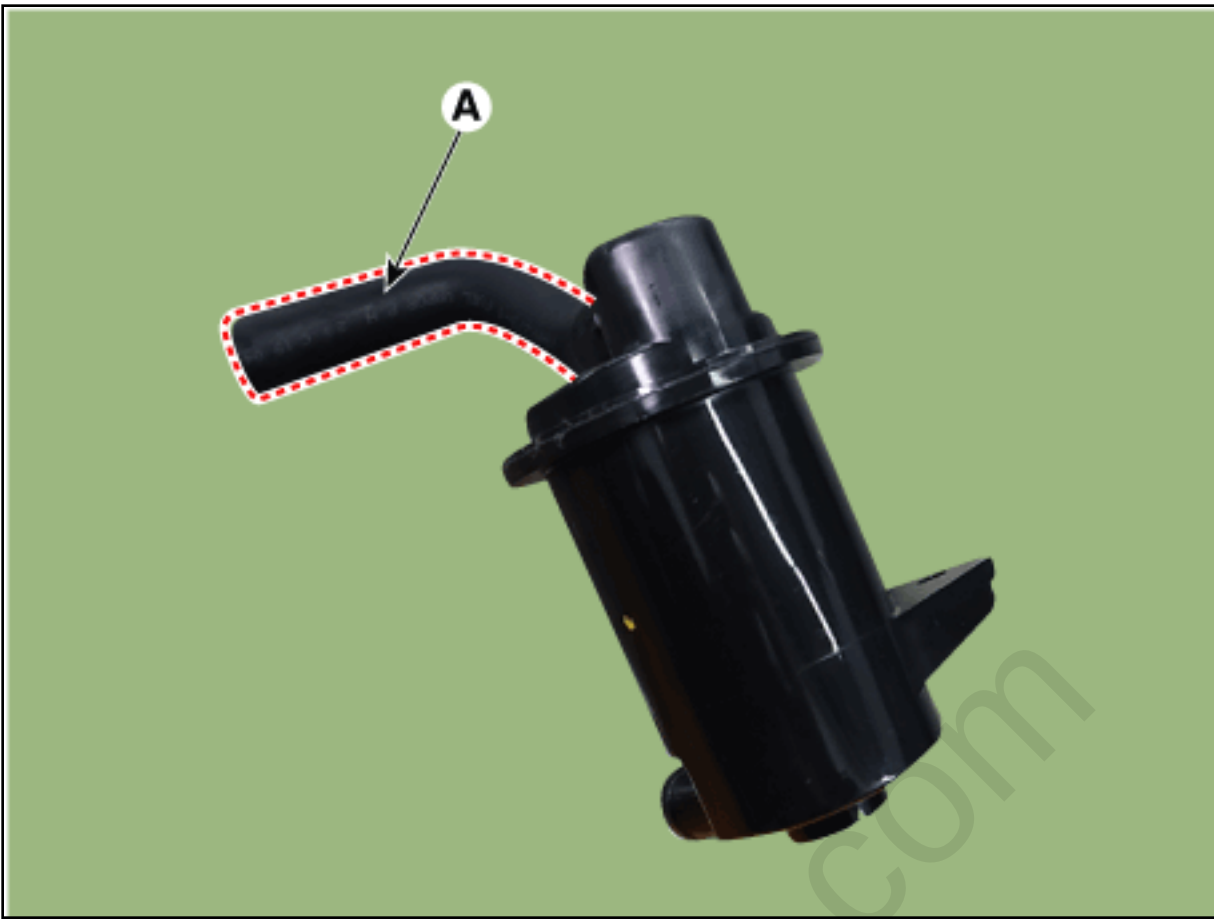
1. Turn the ignition switch OFF and disconnect the battery (-) terminal.
2. Lift the vehicle.
3. Remove the rear-left wheel & tire and wheel house cover.
4. Separate the ventilation hoses (A).



5. Remove the fuel tank air filter (B) after loosening the mounting bolts (A).



6. Remove the ventilation hose (A) from the fuel tank air filter.



Installation

1. Install in the reverse order of removal.

Description

A ratchet tightening device on the threaded fuel filler cap reduces the chances of incorrect installation, which would seal the fuel filler. After the gasket on the fuel filler cap and the filler neck flange contact each other, the ratchet produces a loud clicking noise indicating the seal has been set.

