

EMISSION CONTROL SYSTEM

EC054-02

PURPOSE

The emission control systems are installed to reduce the amount of HC, CO and NOx exhausted from the engine ((3) and (4)), to prevent the atmospheric release of blow-by gas-containing HC (1) and evaporated fuel containing HC being released from the fuel tank (2).

The function of each system is shown in these table.

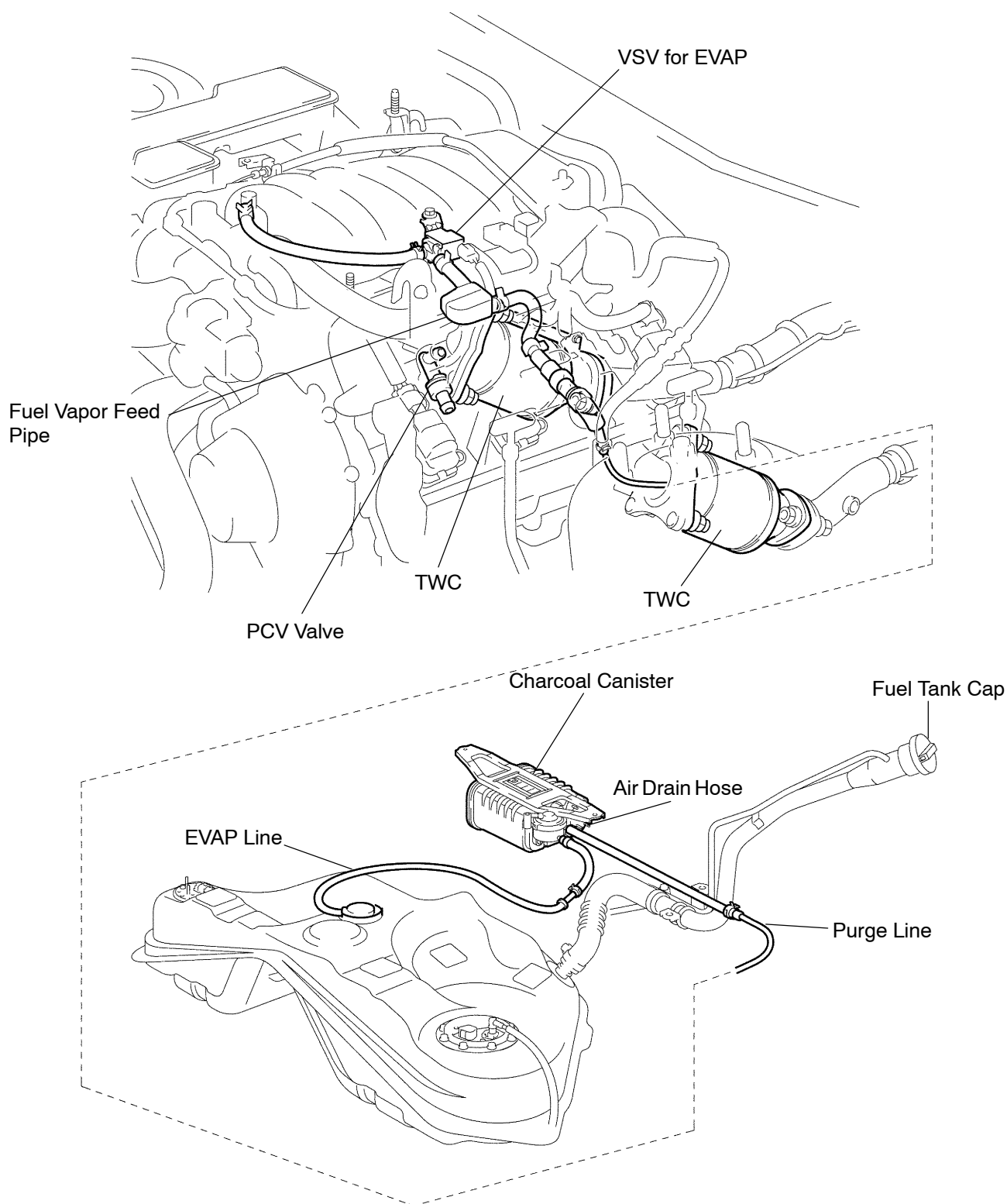
System	Abbreviation	Function
(1) Positive Crankcase Ventilation	PCV	Reduces HC
(2) Evaporative Emission Control	EVAP	Reduces evaporated HC
(3) Three-Way Catalytic Converter	TWC	Reduces HC, CO and NOx
(4) Sequential Multiport Fuel Injection*	EFI	Injects a precisely timed, optimum amount of fuel for reduced exhaust emissions

Remark: * For inspection and repair of the EFI system, refer to the FI section in this manual.

PARTS LAYOUT AND SCHEMATIC DRAWING

LOCATION

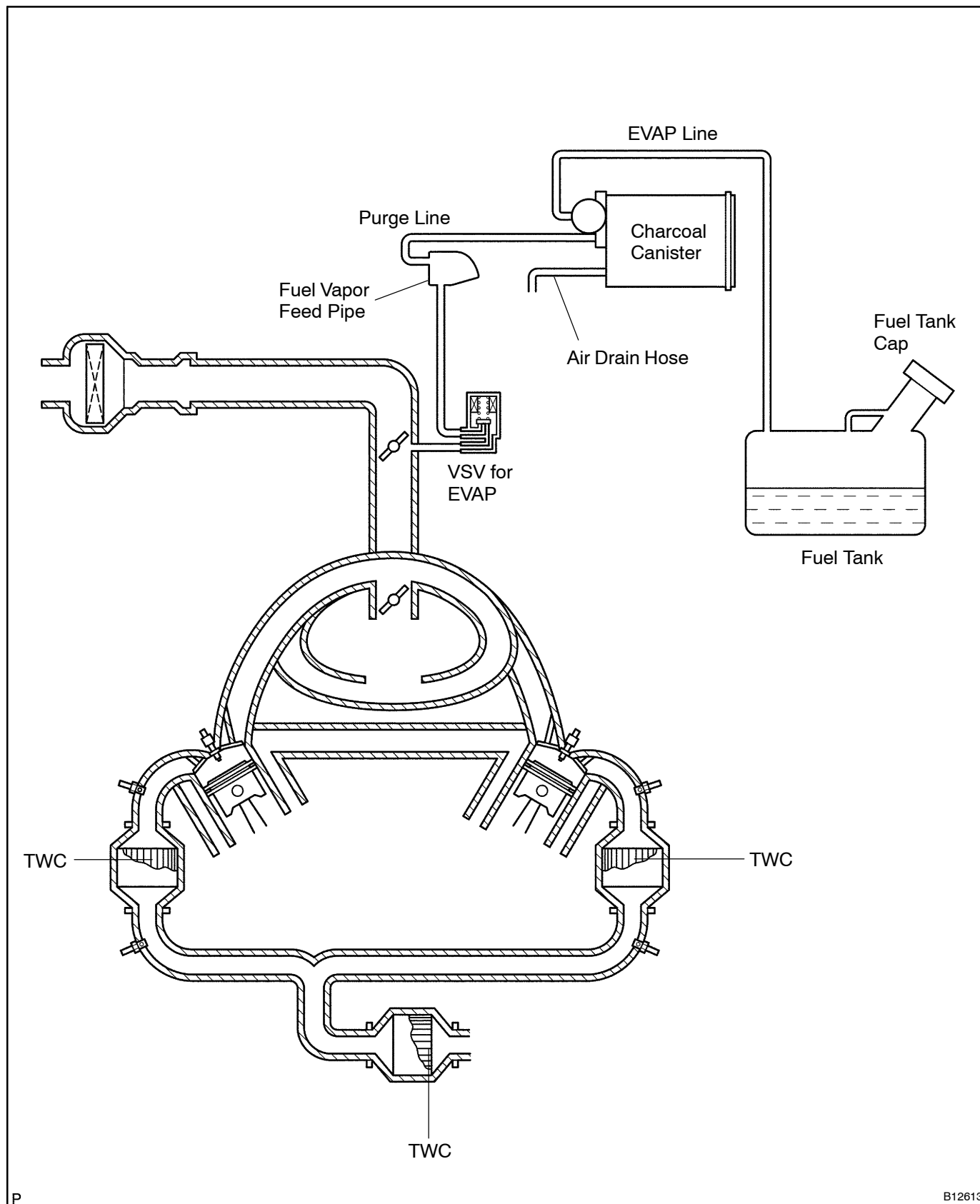
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DRAWING

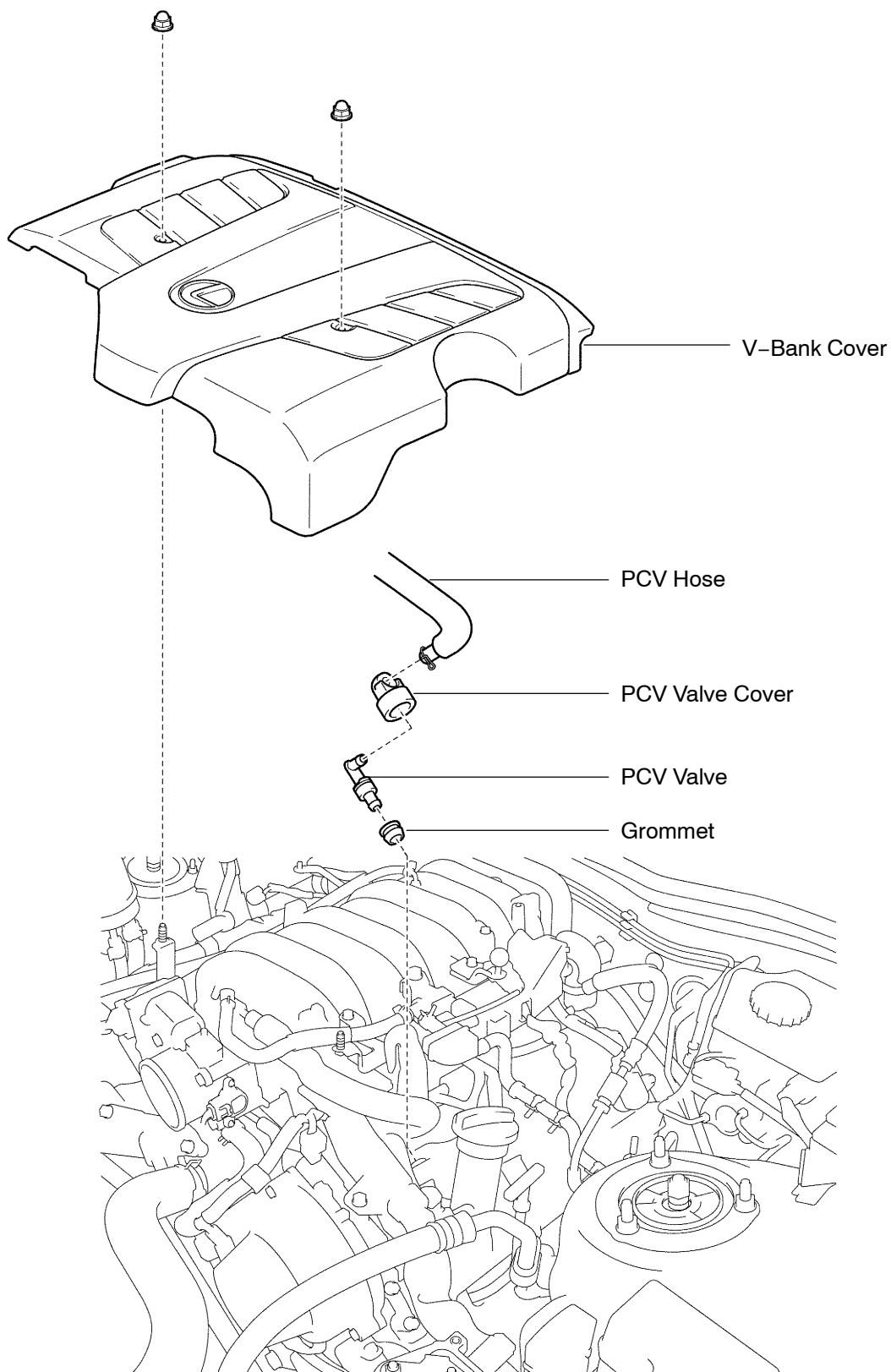


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POSITIVE CRANKCASE VENTILATION (PCV) SYSTEM COMPONENTS

EC057-03



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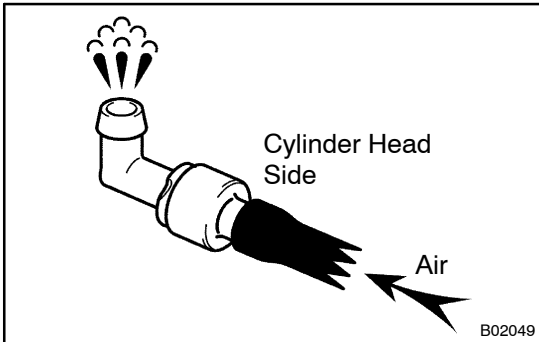
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INSPECTION

1. REMOVE V-BANK COVER

2. INSPECT PCV VALVE

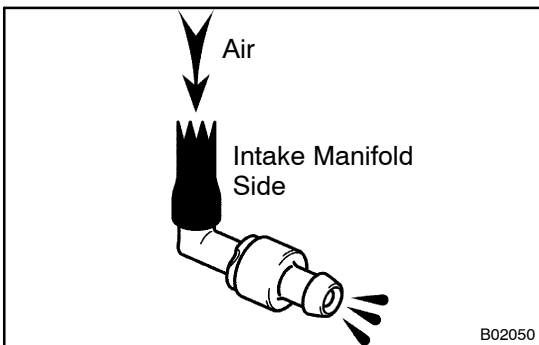
- (a) Remove the PCV valve.
 - (1) Disconnect the PCV hose from the PCV valve.
 - (2) Remove the PCV valve cover and valve.



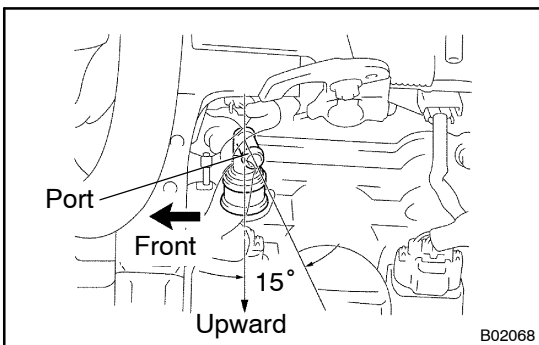
- (b) Install a clean hose to the PCV valve.
- (c) Inspect the PCV valve operation.
 - (1) Blow air into the cylinder head side, and check that air passes through easily.

CAUTION:

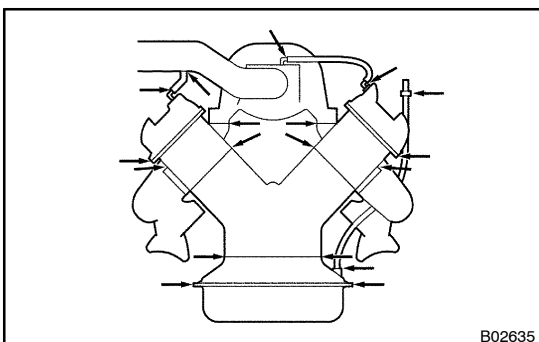
Do not suck air through the valve. Petroleum substances inside the valve are harmful.



- (2) Blow air into the intake manifold side, and check that air passes through with difficulty.
- If operation is not as specified, replace the PCV valve.
- (d) Remove the clean hose from the PCV valve.



- (e) Reinstall the PCV valve.
 - (1) Install the PCV with the port faces in the direction indicated in the illustration.
 - (2) Install the PCV valve cover to the PCV valve.
 - (3) Connect the PCV hose to the PCV hose.



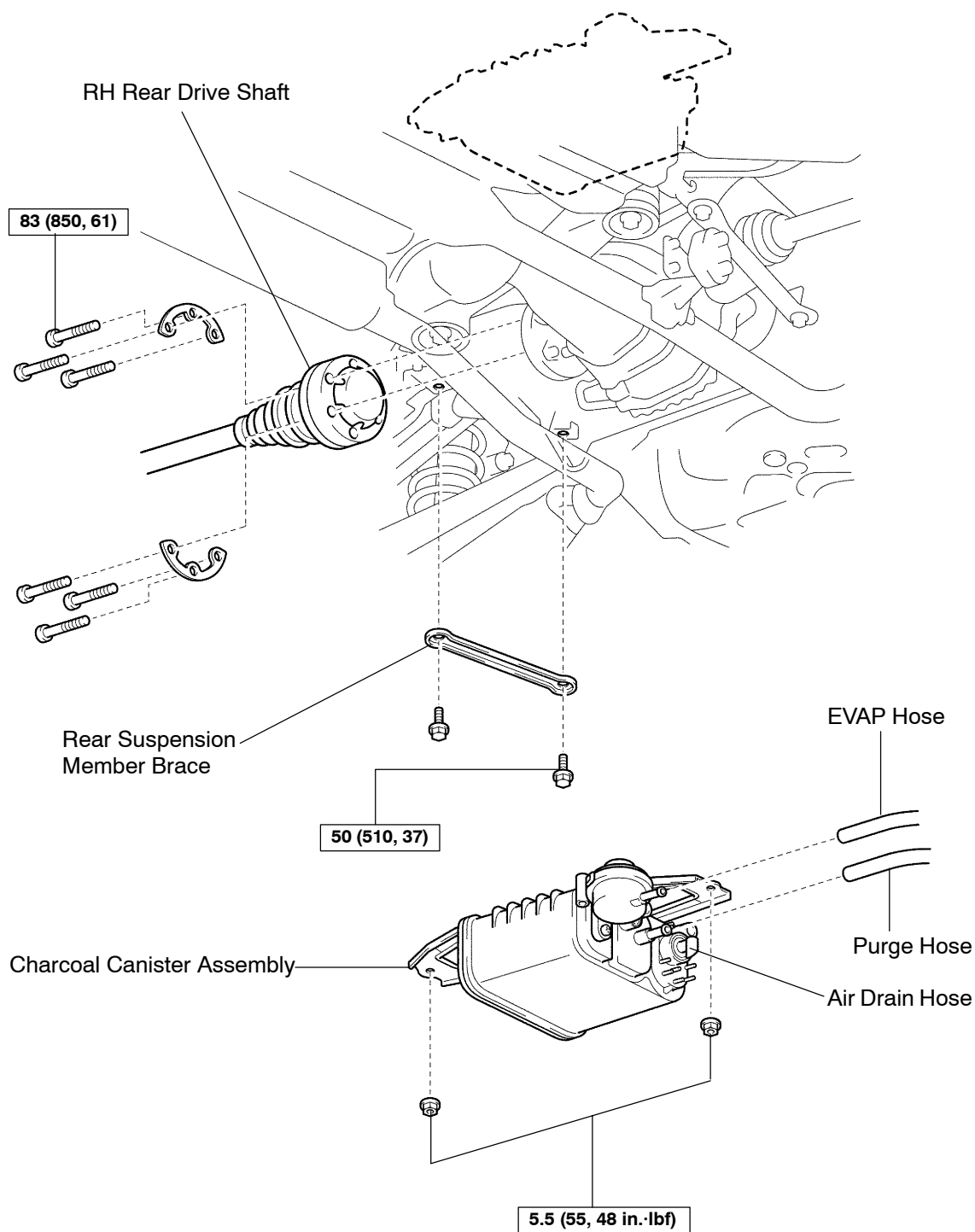
3. INSPECT HOSES, CONNECTIONS AND GASKETS

Visually check for cracks, leaks or damage.

4. REINSTALL V-BANK COVER

EVAPORATIVE EMISSION (EVAP) CONTROL SYSTEM COMPONENTS

EC059-03



N·m (kgf·cm, ft·lbf) : Specified torque

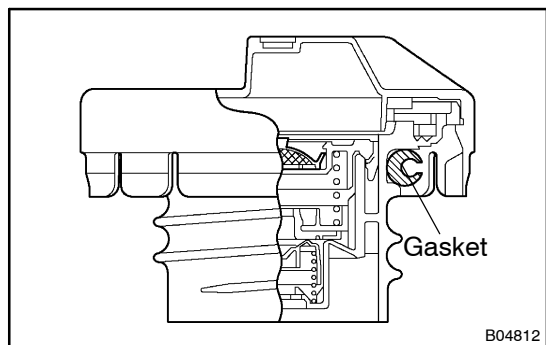
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INSPECTION

1. REMOVE EXHAUST TAIL PIPE AND HEATED INSULATOR

2. INSPECT FUEL TANK FILLER PIPE

Visually check for deformation, cracks or fuel leakage.



3. INSPECT FUEL TANK CAP

Visually check if the cap and/or gasket are deformed or damaged.

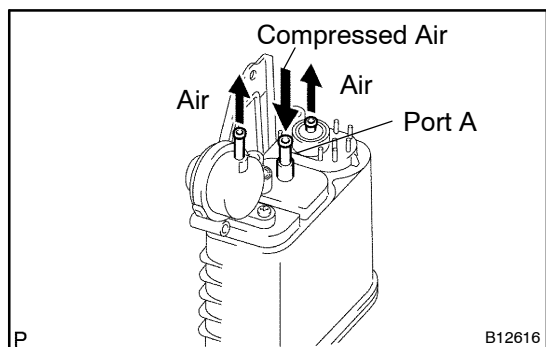
If necessary, repair or replace the cap.

4. REMOVE CHARCOAL CANISTER ASSEMBLY

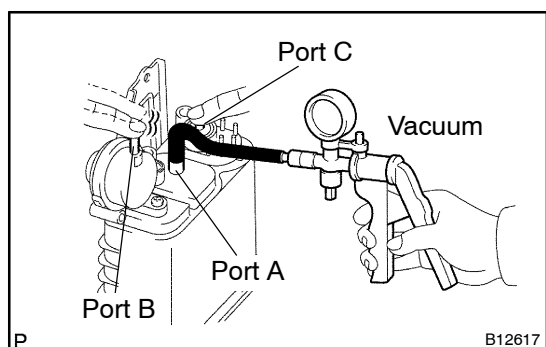
- (a) Disconnect the 3 hoses.
- (b) Remove the 2 bolts and charcoal canister assembly.

5. INSPECT CHARCOAL CANISTER

- (a) Visually check the charcoal canister for cracks or damage.
- (b) Remove the drain hose.

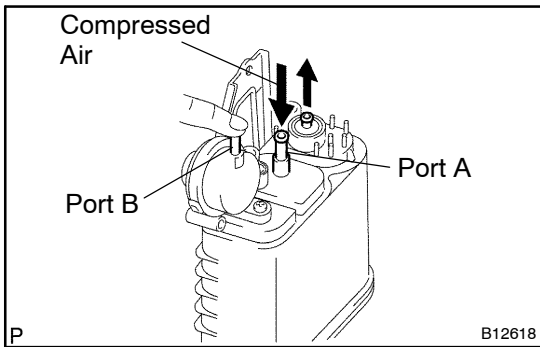


- (c) Using low pressure compressed air (4.71 kPa (48 gf/cm², 0.68 psi)), blow into port A and check that air flows without resistance from the other parts.



- (d) Apply vacuum (1.96 kPa (20 gf/cm², 0.28 psi)) to port A, check that the vacuum does not decrease when port B and C are closed, and check that the vacuum does not decrease when port B is released.

If a problem is found, replace the charcoal canister.

**6. CLEAN FILTER IN CANISTER**

Clean the filter by blowing 19.6 kPa (0.2 kgf/cm², 2.8 psi) of compressed air into port A while holding port B closed.

NOTICE:

- **Do not attempt to wash the canister.**
- **No activated carbon should come out.**

7. REINSTALL CHARCOAL CANISTER

THREE-WAY CATALYTIC CONVERTER (TWC) SYSTEM

ON-VEHICLE INSPECTION

EC05B-02

1. INSPECT EXHAUST PIPE ASSEMBLY

- (a) Check the connections for looseness or damage.
- (b) Check the clamps for weakness, cracks or damage.

2. INSPECT TWC

Check for dents or damage.

3. INSPECT TWC HEAT INSULATOR

- (a) Check the heat insulator for damage.
- (b) Check for adequate clearance between the TWC and heat insulator.

COMPONENTS

