

EMISSION CONTROL SYSTEM

EC00B-11

PURPOSE

The emission control systems are installed to reduce the amount of CO, HC 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.

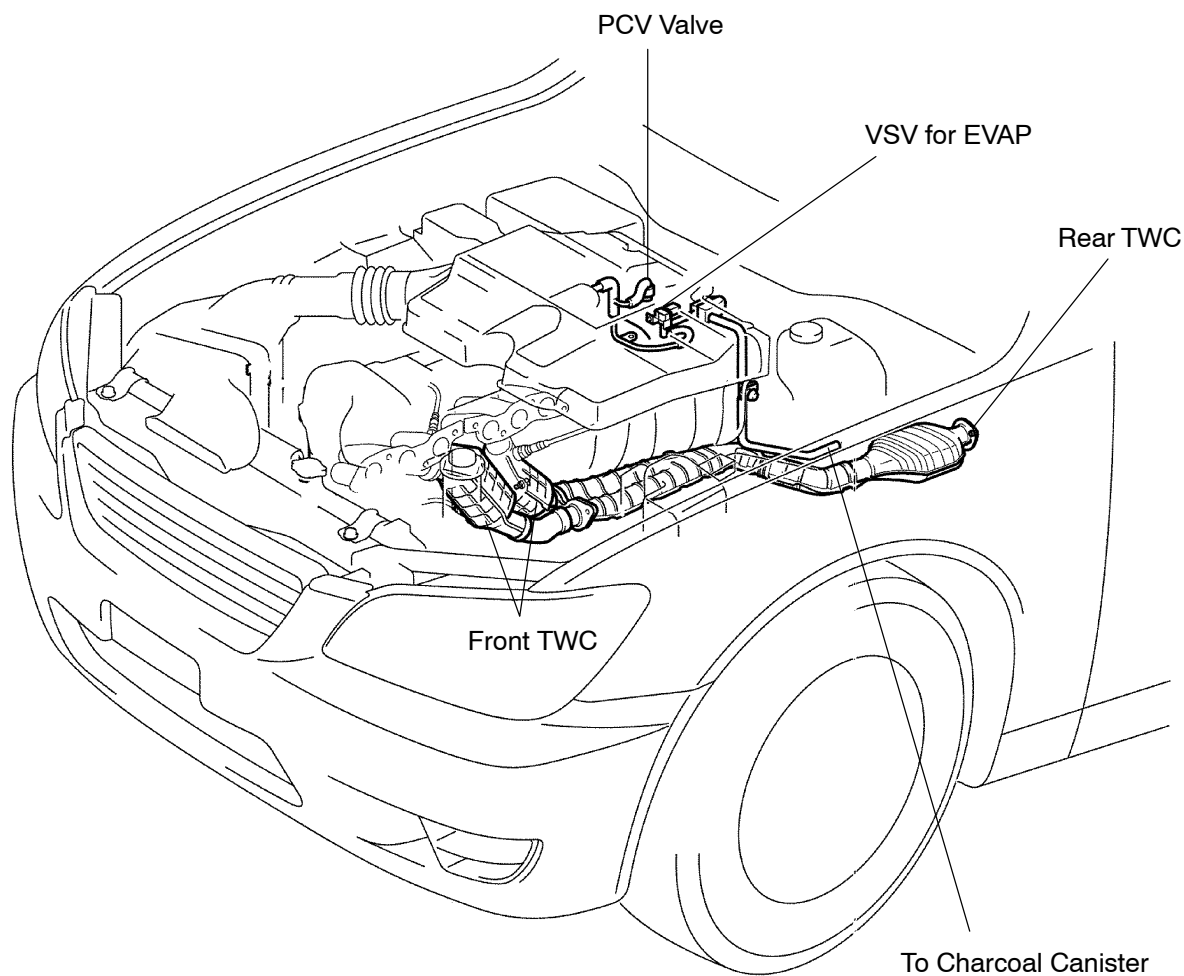
System	Abbreviation	Function
1. Positive Crankcase Ventilation	PCV	Reduces blow-by gas (HC)
2. Evaporative Emission Control	EVAP	Reduces evaporated HC
3. Three-Way Catalytic Converter	TWC	Reduces CO, HC and NOx
4. Electronic Fuel Injection *	EFI	Injects a precisely timed, optimum amount of fuel for reduced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

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

PARTS LAYOUT AND SCHEMATIC DRAWING

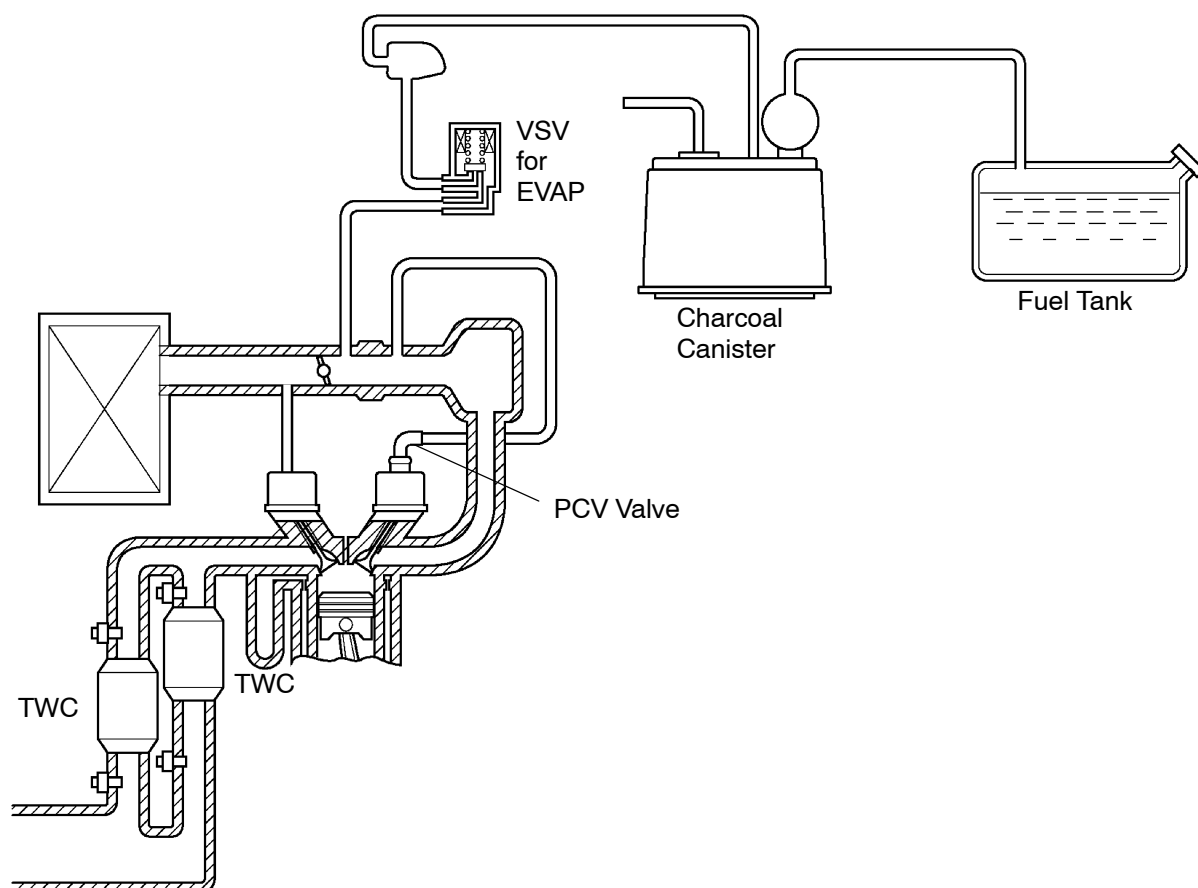
LOCATION

EC04V-13

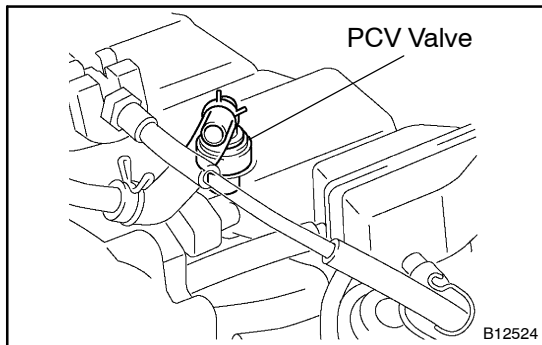


B14791

DRAWING



B14792

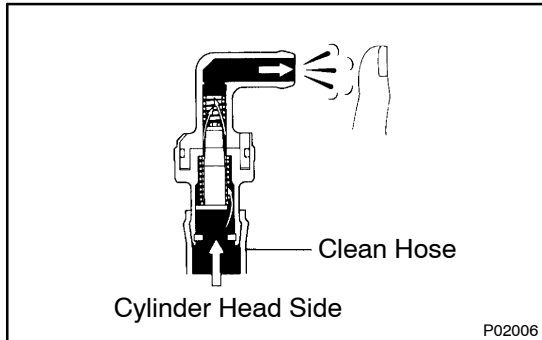


POSITIVE CRANKCASE VENTILATION (PCV) SYSTEM INSPECTION

EC04X-08

1. REMOVE PCV VALVE

- (a) Remove 4 nuts and engine cover.
- (b) Disconnect the PCV hose from the PCV valve.
- (c) Remove the PCV valve.



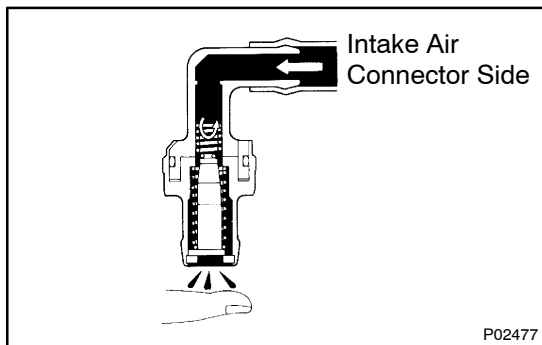
2. INSTALL CLEAN HOSE TO PCV VALVE

3. INSPECT PCV VALVE OPERATION

- (a) Blow air into the cylinder head side, and check that air passes through easily.

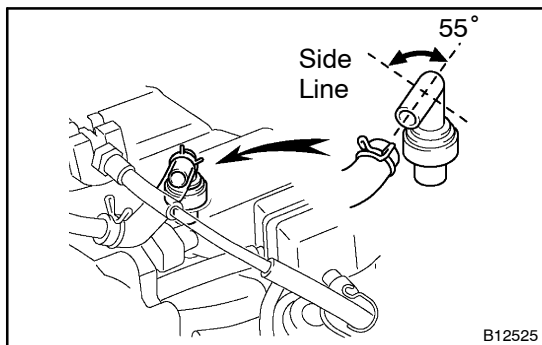
CAUTION:

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



- (b) Blow air into the intake air connector side, and check that air passes through with difficulty.

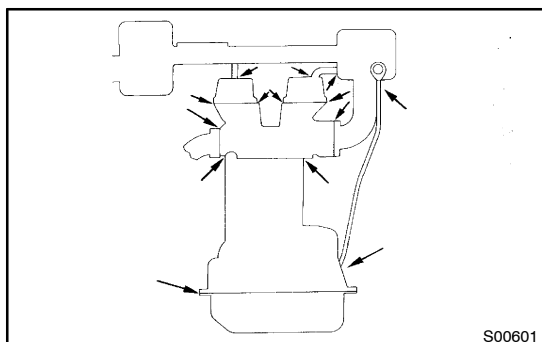
If operation is not as specified, replace the PCV valve.



4. REMOVE CLEAN HOSE FROM PCV VALVE

5. REINSTALL PCV VALVE

The port faces in the direction indicated in the illustration.



6. INSPECT HOSES, CONNECTIONS AND GASKETS

Check for cracks, leaks or damage.

7. REINSTALL ENGINE COVER

Install the engine cover with the 4 nuts.

EVAPORATIVE EMISSION (EVAP) CONTROL SYSTEM INSPECTION

ECOKU-01

1. INSPECT LINES AND CONNECTORS

Visually check for loose connections, sharp bends or damage.

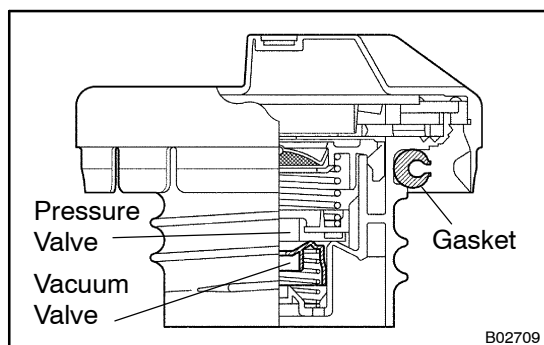
2. INSPECT FUEL TANK

Visually check for deformation, cracks or fuel leakage.

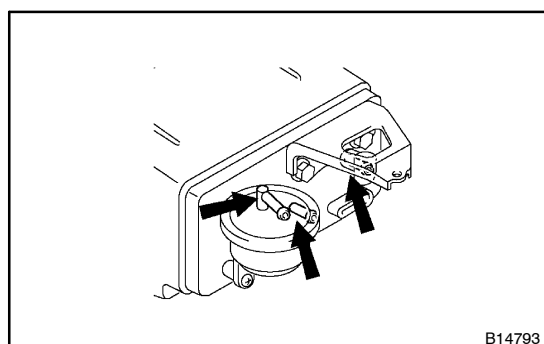
3. INSPECT FUEL TANK CAP

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

If necessary, repair or replace the cap.



B02709



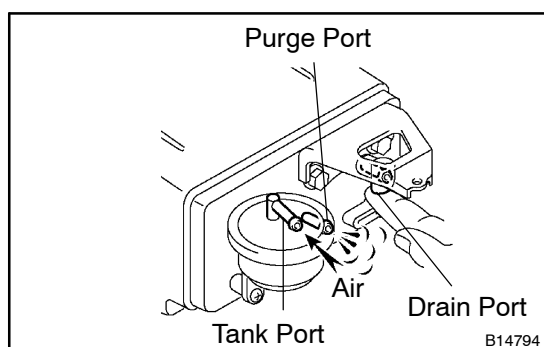
B14793

4. REMOVE CHARCOAL CANISTER

Disconnect the 2 hoses and pull up the canister.

5. INSPECT CHARCOAL CANISTER

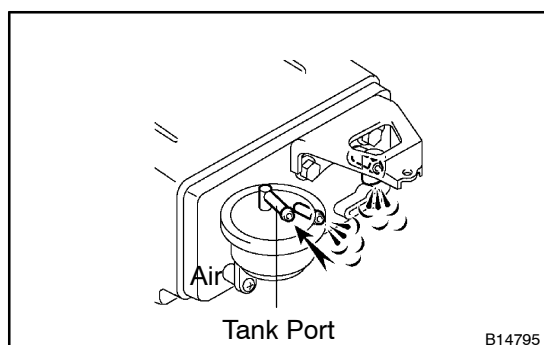
(a) Visually check the charcoal canister for cracks or damage.



B14794

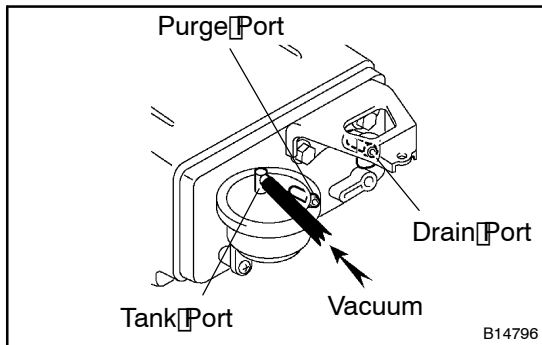
(b) Inspect the charcoal canister operation.

(1) While holding the drain port(s) closed, blow air (19.6 kPa, 0.2 kgf/cm², 2.8 psi) into the tank port and check that air flows from the purge port.



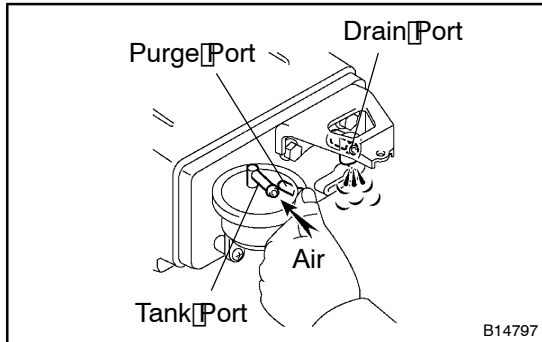
B14795

(2) Blow air (19.6 kPa, 0.2 kgf/cm², 2.8 psi) into tank port and check that air flows without resistance from the other port.



- (3) Apply vacuum (9.8 kPa, 73.5 mmHg, 2.9 in. Hg) to tank port and check that the vacuum gauge indicator with settle at about 2.0 kPa (15.0 mmHg, 0.6 in. Hg).

If operation is not as specified, replace the charcoal canister.



- (c) Clean the filter in the canister.

Clean the filter by blowing 294 kPa (3 kgf/cm², 43 psi) of compressed air into tank port while holding purge port closed.

NOTICE:

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

6. REINSTALL CHARCOAL CANISTER

7. REMOVE VSV FOR EVAP

8. INSPECT VSV FOR EVAP (See page FI-56)

9. REINSTALL VSV FOR EVAP

THREE-WAY CATALYTIC CONVERTER (TWC) SYSTEM

EC0KV-01

ON-VEHICLE INSPECTION

1. INSPECT EXHAUST PIPE ASSEMBLY

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

2. INSPECT TWC

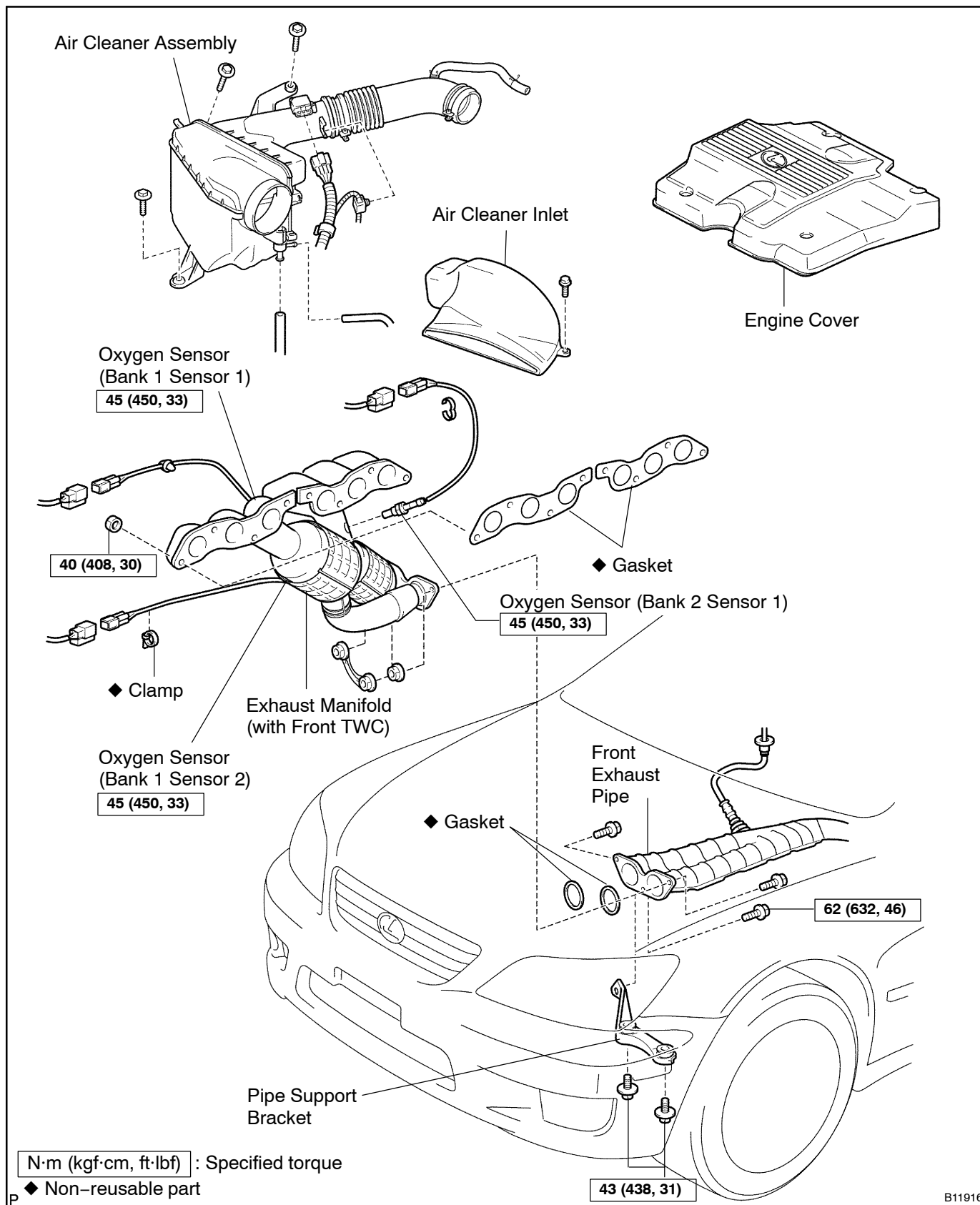
Check for dents or damage.

If any part of the protector is damaged or dented to the extent that it contacts the TWC, repair or replace it.

3. INSPECT TWC HEAT INSULATOR

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

COMPONENTS



B11916

