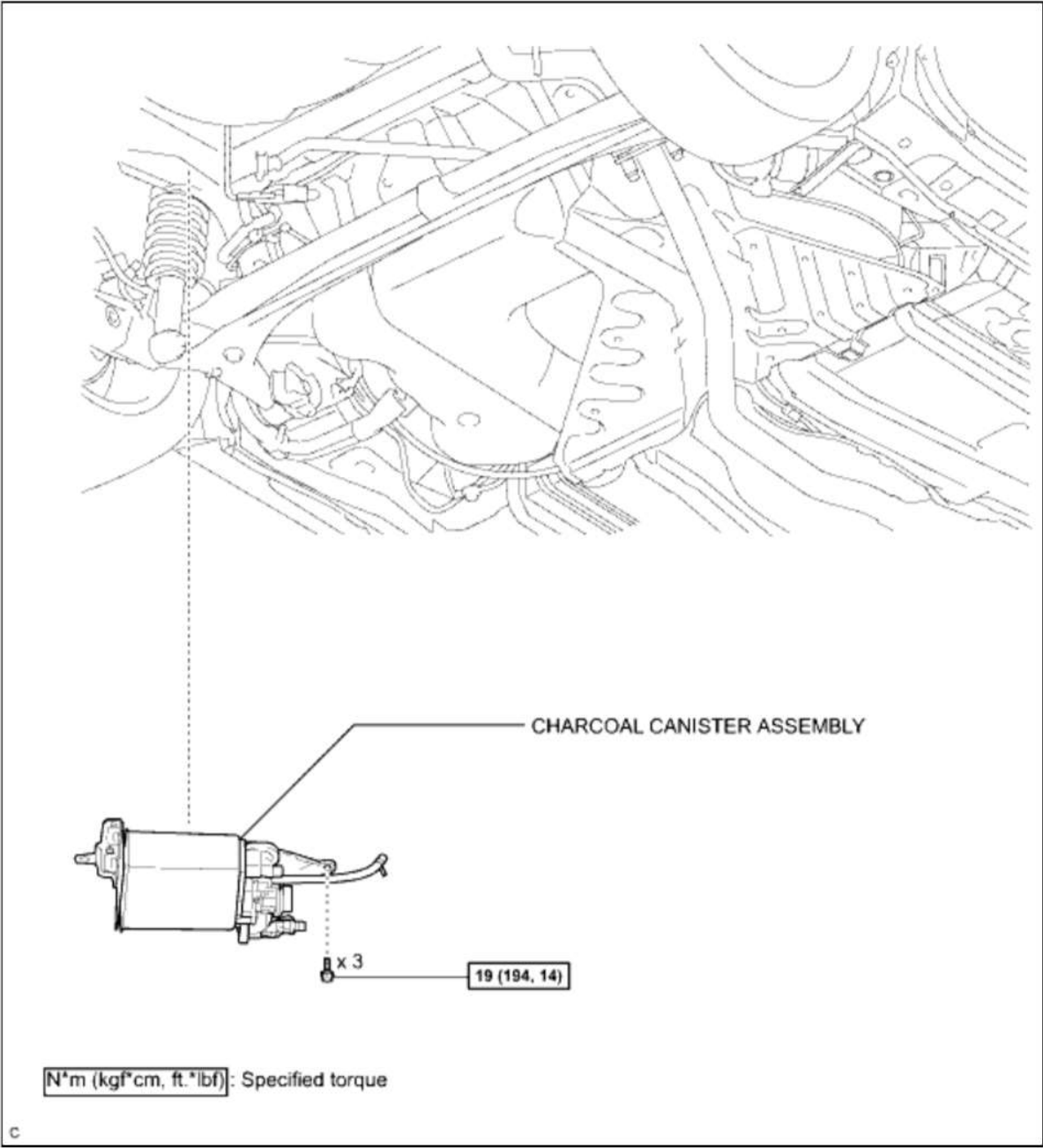


Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM00000120C01AX
Title: 2AZ-FE EMISSION CONTROL: CANISTER: COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION

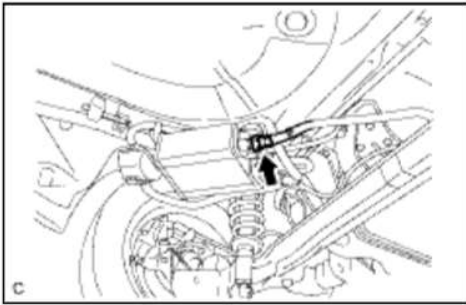


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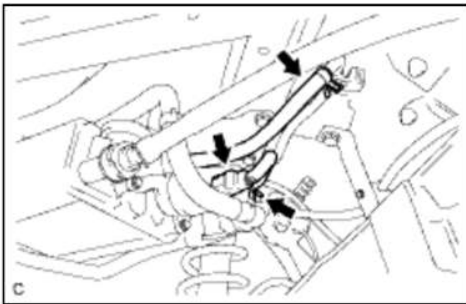
Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001OOG01GX
Title: 2AZ-FE EMISSION CONTROL: CANISTER: REMOVAL (2010 Corolla)		

REMOVAL

1. REMOVE CHARCOAL CANISTER ASSEMBLY



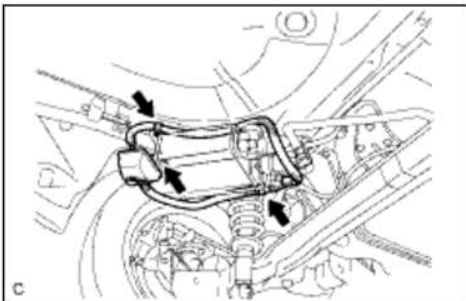
- (a) Disconnect the fuel tank vent hose from the charcoal canister assembly.



- (b) Disconnect the vapor pressure sensor connector.

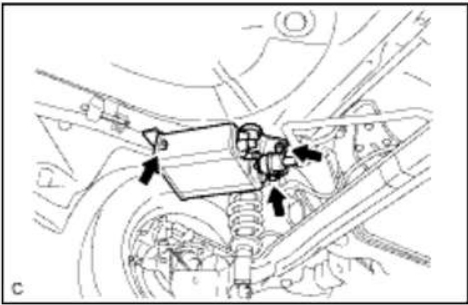
- (c) Disconnect the wire harness clamp.

- (d) Disconnect the purge line hose.



- (e) Disconnect the charcoal canister filter sub-assembly from the charcoal canister assembly.

- (f) Remove the 3 bolts and charcoal canister assembly.

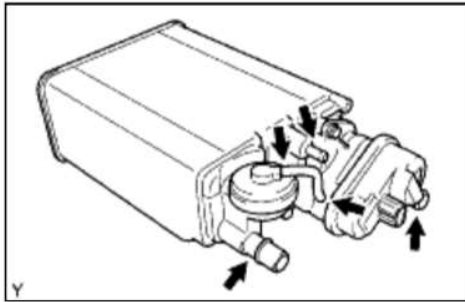


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Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM00000120B01CX
Title: 2AZ-FE EMISSION CONTROL: CANISTER: INSPECTION (2010 Corolla)		

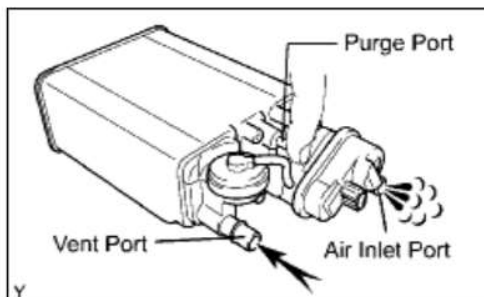
INSPECTION

1. INSPECT CHARCOAL CANISTER ASSEMBLY



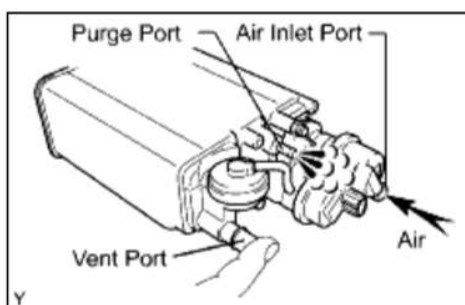
- (a) Visually check the charcoal canister for cracks or damage.
If cracks or damage are found, replace the charcoal canister assembly.

- (b) Check charcoal canister operation.



- (1) With the purge port closed, blow 1.10 kPa (11.2 gf/cm², 0.16 psi) of air into the vent port, and check that air flows from the air inlet port.

If the result is not as specified, replace the charcoal canister assembly.

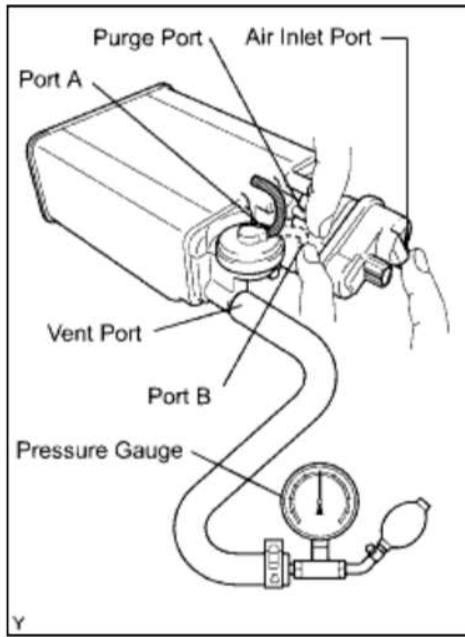


- (2) With the vent port closed, blow 1.10 kPa (11.2 gf/cm², 0.16 psi) of air into the air inlet port, and check that air flows from the purge port.

If the result is not as specified, replace the charcoal canister assembly.

- (c) Check for air leakage.

- (1) With the purge port and air inlet port closed, apply 19.6 kPa (0.2 kgf/cm², 2.81 psi) of pressurized air into the



vent port, then confirm that pressure is retained for 1 minute.

If the result is not as specified, replace the charcoal canister assembly.

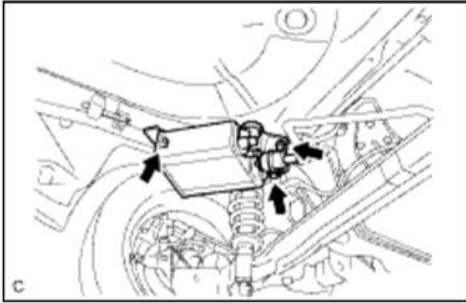


TOYOTA

Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001OOD01RX
Title: 2AZ-FE EMISSION CONTROL: CANISTER: INSTALLATION (2010 Corolla)		

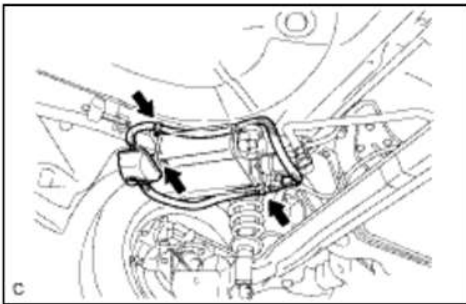
INSTALLATION

1. INSTALL CHARCOAL CANISTER ASSEMBLY

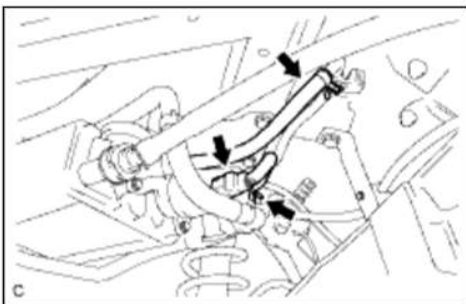


(a) Install the charcoal canister assembly with the 3 bolts.

Torque: 19 N·m (194 kgf·cm, 14ft·lbf)



(b) Connect the the charcoal canister filter sub-assembly to the charcoal canister assembly.

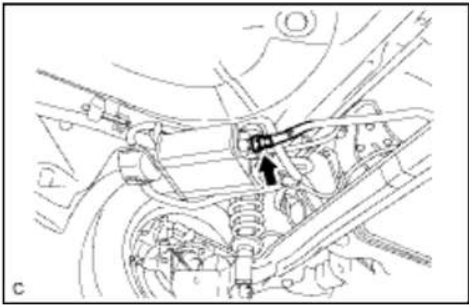


(c) Connect the purge line hose.

(d) Connect the wire harness clamp.

(e) Connect the vapor pressure sensor connector.

(f) Connect the fuel tank vent hose to the charcoal canister.

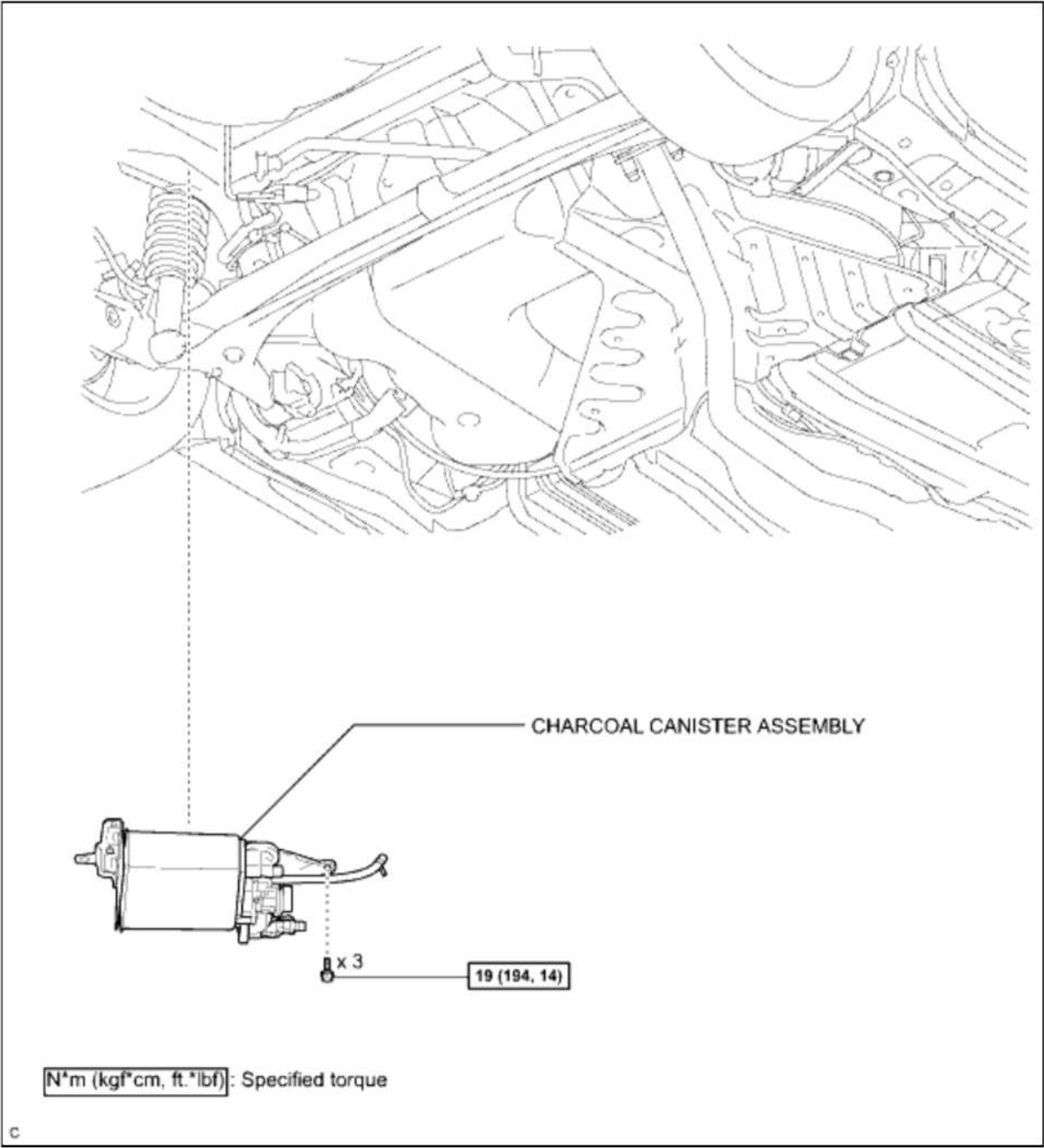


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Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM00000120C019X
Title: 2ZR-FE EMISSION CONTROL: CANISTER: COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION

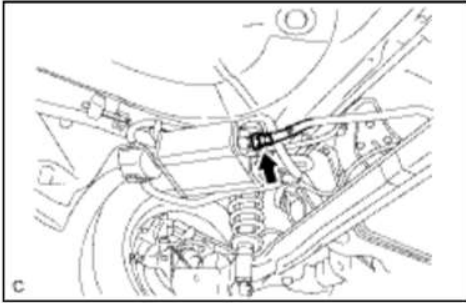


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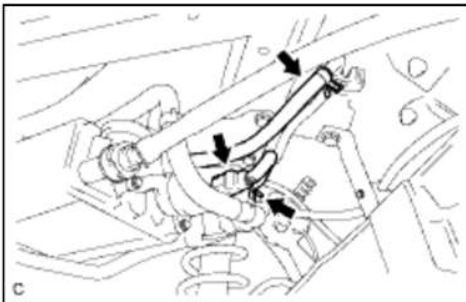
Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001OOG01FX
Title: 2ZR-FE EMISSION CONTROL: CANISTER: REMOVAL (2010 Corolla)		

REMOVAL

1. REMOVE CHARCOAL CANISTER ASSEMBLY



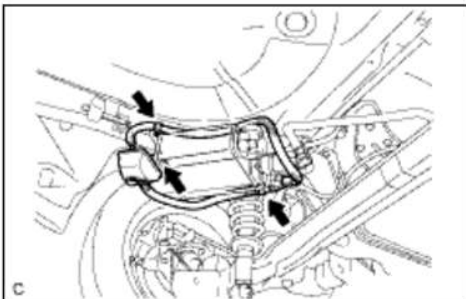
- (a) Disconnect the fuel tank vent hose from the charcoal canister assembly.



- (b) Disconnect the vapor pressure sensor connector.

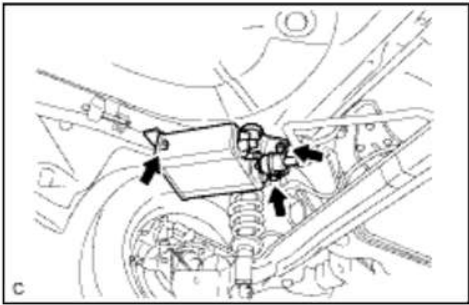
- (c) Disconnect the wire harness clamp.

- (d) Disconnect the purge line hose from the charcoal canister assembly.



- (e) Disconnect the charcoal canister filter sub-assembly from the charcoal canister assembly.

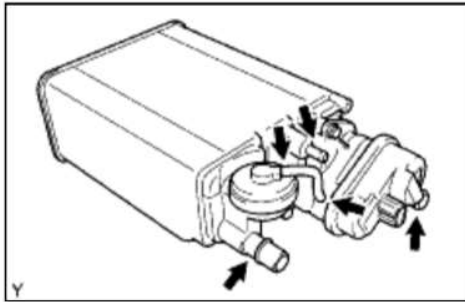
- (f) Remove the 3 bolts and charcoal canister.



Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM00000120B01BX
Title: 2ZR-FE EMISSION CONTROL: CANISTER: INSPECTION (2010 Corolla)		

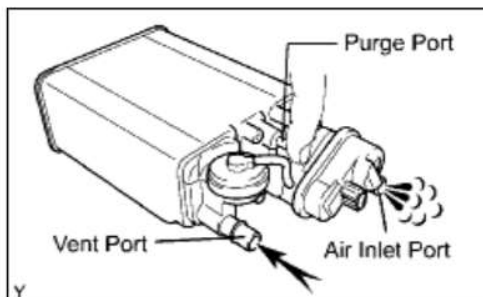
INSPECTION

1. INSPECT CHARCOAL CANISTER ASSEMBLY

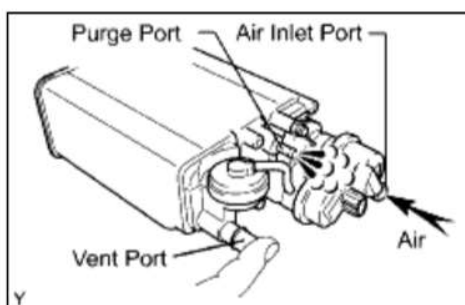


- (a) Visually check the charcoal canister for cracks or damage.
If cracks or damage are found, replace the charcoal canister assembly.

- (b) Check charcoal canister operation.



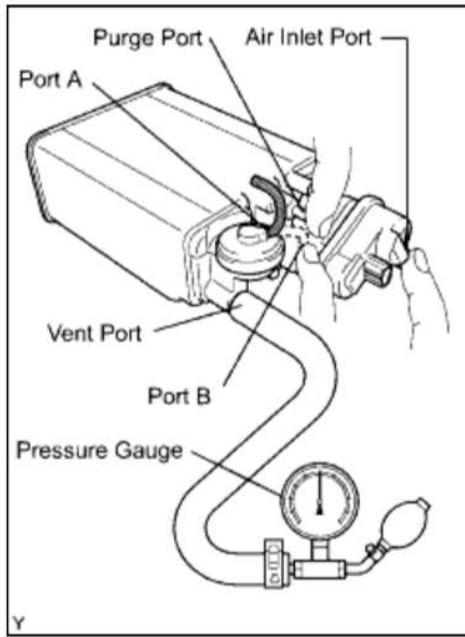
- (1) With the purge port closed, blow 1.10 kPa (11.2 gf/cm², 0.16 psi) of air into the vent port, and check that air flows from the air inlet port.
If the result is not as specified, replace the charcoal canister assembly.



- (2) With the vent port closed, blow 1.10 kPa (11.2 gf/cm², 0.16 psi) of air into the air inlet port, and check that air flows from the purge port.
If the result is not as specified, replace the charcoal canister assembly.

- (c) Check for air leakage.

- (1) With the purge port and air inlet port closed, apply 19.6 kPa (0.2 kgf/cm², 2.81 psi) of pressurized air into the



vent port, then confirm that pressure is retained for 1 minute.

If the result is not as specified, replace the charcoal canister assembly.

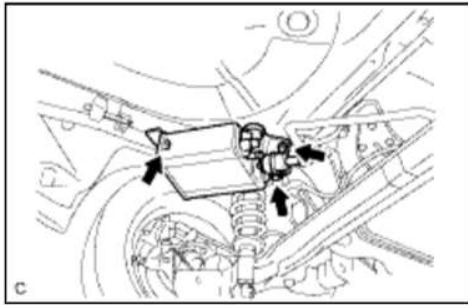


TOYOTA

Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001OOD01QX
Title: 2ZR-FE EMISSION CONTROL: CANISTER: INSTALLATION (2010 Corolla)		

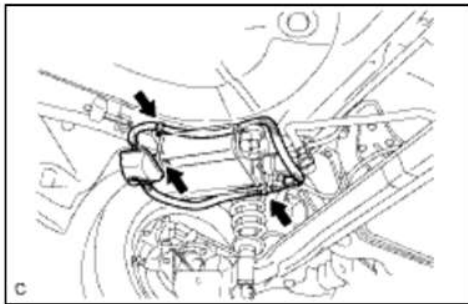
INSTALLATION

1. INSTALL CHARCOAL CANISTER ASSEMBLY

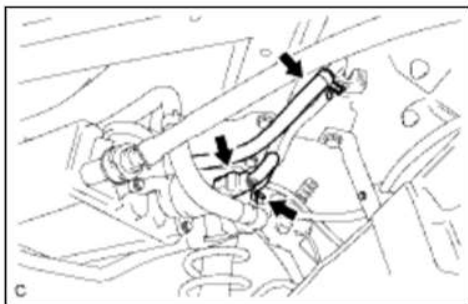


(a) Install the charcoal canister assembly with the 3 bolts.

Torque: 19 N·m (194 kgf·cm, 14ft·lbf)



(b) Connect the charcoal canister filter sub-assembly to the charcoal canister assembly.

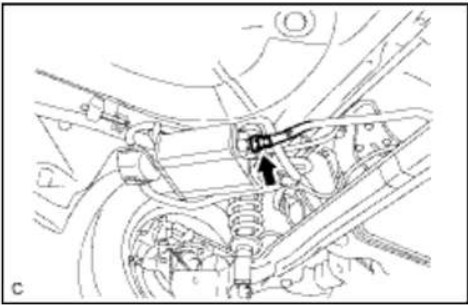


(c) Connect the purge line hose.

(d) Connect the wire harness clamp.

(e) Connect the vapor pressure sensor connector.

(f) Connect the fuel tank vent hose to the charcoal canister assembly.

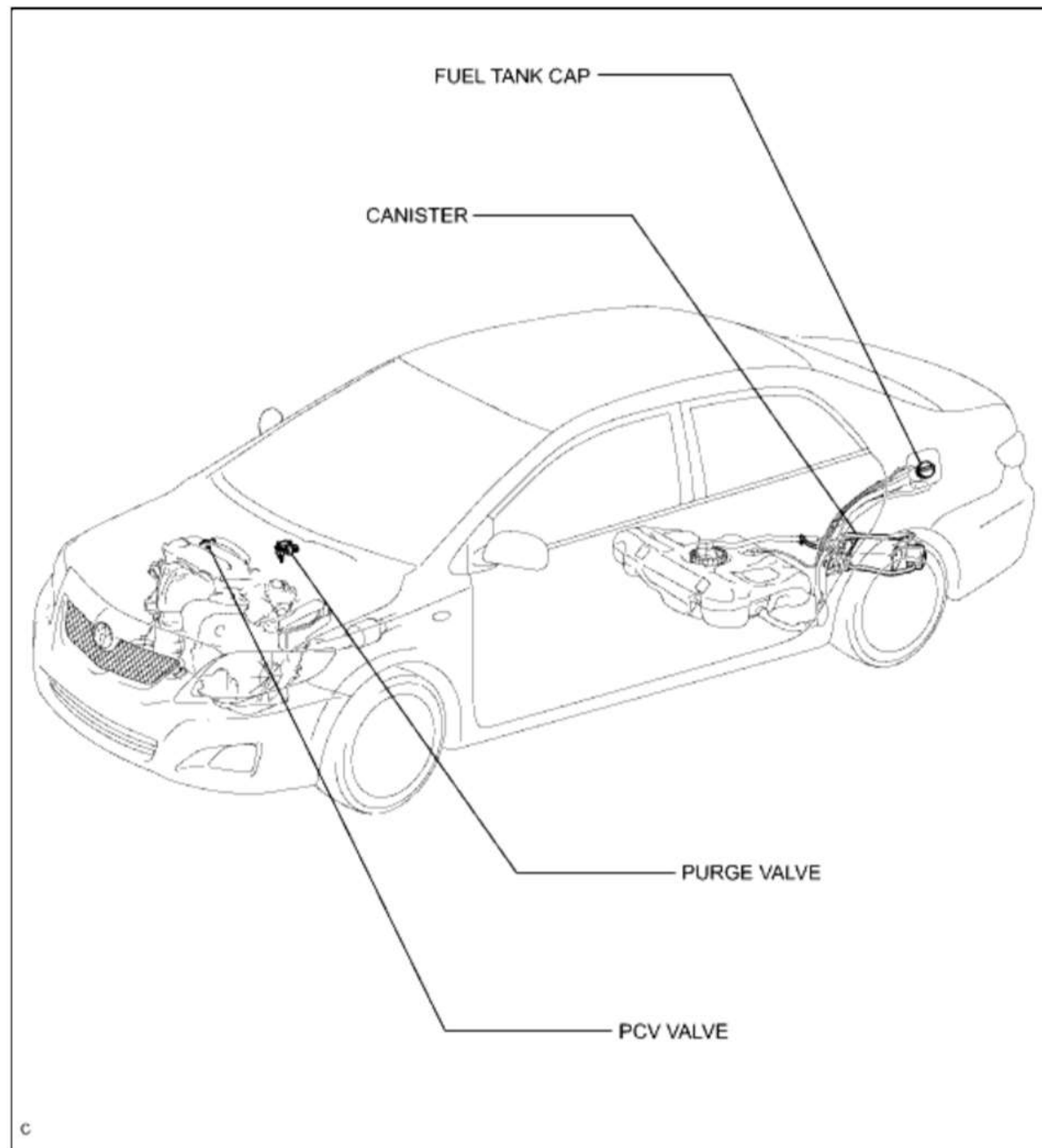


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Last Modified: 3-10-2010	6.4 R	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM0000012NW00XX
Title: 2AZ-FE EMISSION CONTROL: EMISSION CONTROL SYSTEM: PARTS LOCATION (2010 Corolla)		

PARTS LOCATION

ILLUSTRATION



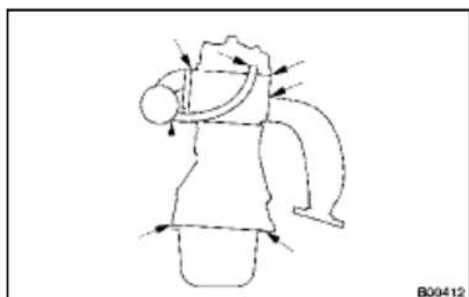
Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM00000120002VX
Title: 2AZ-FE EMISSION CONTROL: EMISSION CONTROL SYSTEM: ON-VEHICLE INSPECTION (2010 Corolla)		

ON-VEHICLE INSPECTION

1. VISUALLY INSPECT HOSE, CONNECTIONS AND GASKETS

(a) Check that there are no cracks, leaks or damage.

HINT:



- Detachment or other problems with the engine oil dipstick, oil filler cap, PCV hose or other components may cause the engine to run improperly.
- Disconnection, looseness or cracks in any part of the air induction system between the throttle body and cylinder head will allow air suction and cause an engine failure or engine malfunctions.

If the result is not as specified, replace the parts as necessary.

2. INSPECT FUEL CUT RPM

- Start and warm up the engine.
- Increase the engine speed to at least 3000 rpm.
- Use a sound scope to check for injector operating sounds.
- Check that when the accelerator pedal is released, injector operating sounds stop momentarily (at 2500 rpm) and then resume (at 1400 rpm).

Standard

ITEM	SPECIFIED CONDITION
Fuel cut off rpm	2500 rpm
Fuel injection restart rpm	1400 rpm

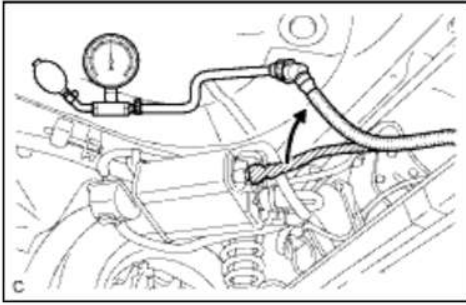
If the result is not specified, check the injectors, wiring and ECM.

3. INSPECT LINE AND CONNECTORS

- Visually check for loose connections, sharp bends or damage.

4. INSPECT AIR TIGHTNESS IN FUEL TANK AND FILLER PIPE

- Disconnect the vent line hose from the canister.

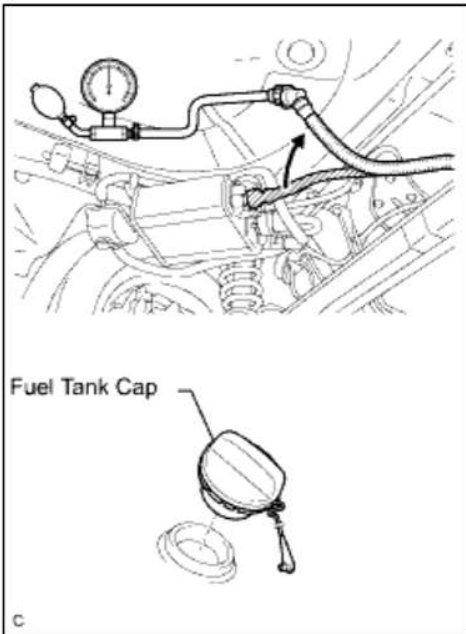


- (b) Connect the pressure gauge to the vent line hose.
- (c) Apply pressure to the fuel tank to create an internal pressure of 4 kPa (41 gf/cm², 0.58 psi).
- (d) Check that the internal pressure of the fuel tank is maintained for 1 minute.
- (e) Check the connecting portions of each hose and pipe.
- (f) Check the installed parts on the fuel tank.

If any malfunctions, damage or other problems are found, replace the fuel tank and filler pipe.

- (g) Reconnect the vent line hose to the fuel tank.

5. INSPECT FUEL TANK ASSEMBLY



- (a) Disconnect the vent line hose from the canister.

- (b) Connect the pressure gauge to the fuel tank.
- (c) Fill the fuel tank with fuel.
- (d) Apply pressure of 4 kPa (41 gf/cm², 0.58 psi) to the vent port of the fuel tank.

HINT:

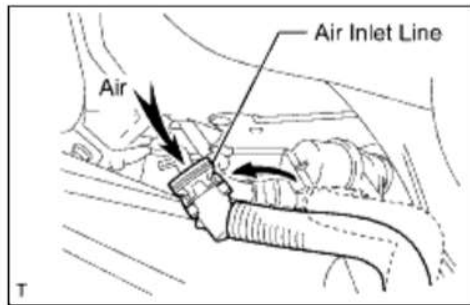
Check the amount of fuel in the fuel tank. When the fuel tank is full, the float valve of the fill check valve is closed and no air can pass through.

(e) Remove the fuel tank cap, and check that the pressure drops.

If the pressure does not drop, replace the fuel tank assembly.

(f) Reconnect the vent line hose to the fuel tank.

6. INSPECT AIR INLET LINE



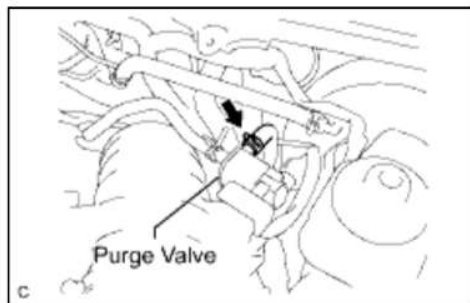
(a) Disconnect the air inlet line hose from the charcoal canister.

(b) Check that air can flow freely into the air inlet line.

If air cannot flow freely into the air inlet line, repair or replace it.

(c) Reconnect the air inlet line hose to the charcoal canister.

7. INSPECT EVAPORATIVE EMISSION CONTROL SYSTEM



(a) Start the engine.

(b) Disconnect the vacuum hose from the purge valve as shown in the illustration.

(c) Connect the Techstream to the DLC3.

(d) Enter the following menus: Powertrain / Engine and ECT / Active Test / Activate the VSV for EVAP Control.

(e) Check that a vacuum occurs at the purge valve port.

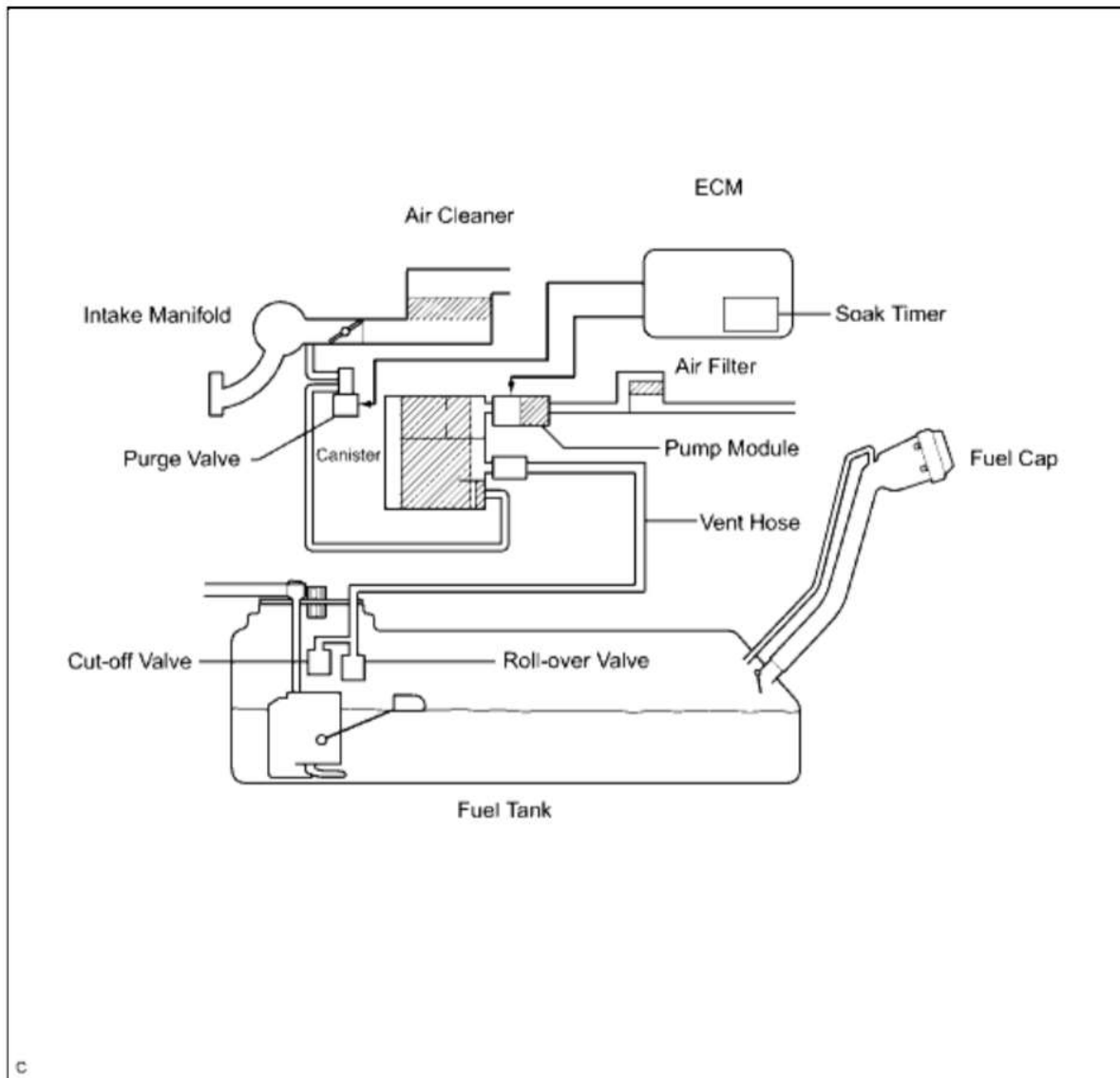
(f) Exit Active Test mode and reconnect the vacuum hose.

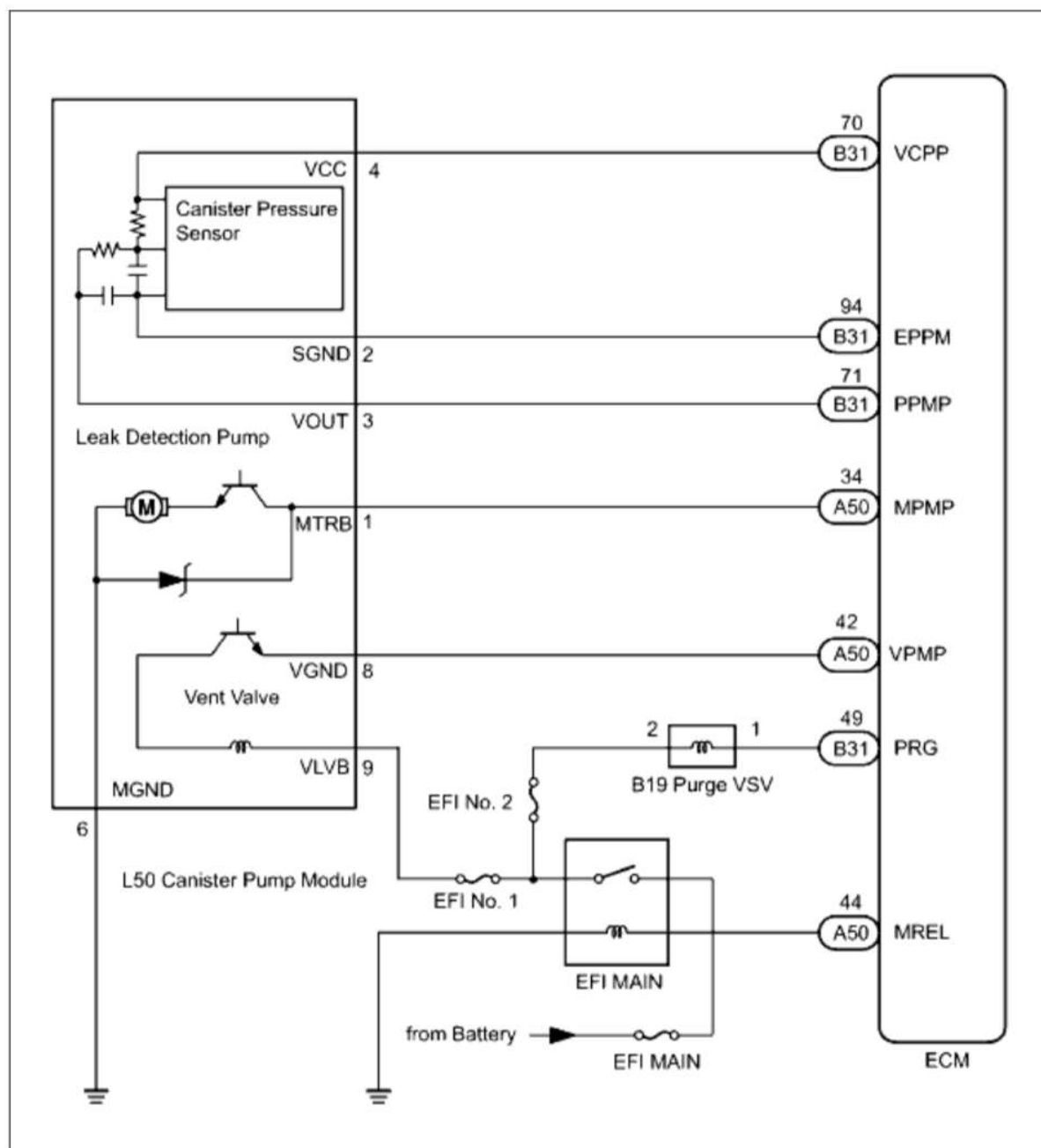
If the result is not as specified, replace the purge valve, wire harness or ECM.



Last Modified: 3-10-2010	6.4 U	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM0000012NV02DX
Title: 2AZ-FE EMISSION CONTROL: EMISSION CONTROL SYSTEM: SYSTEM DIAGRAM (2010 Corolla)		

SYSTEM DIAGRAM

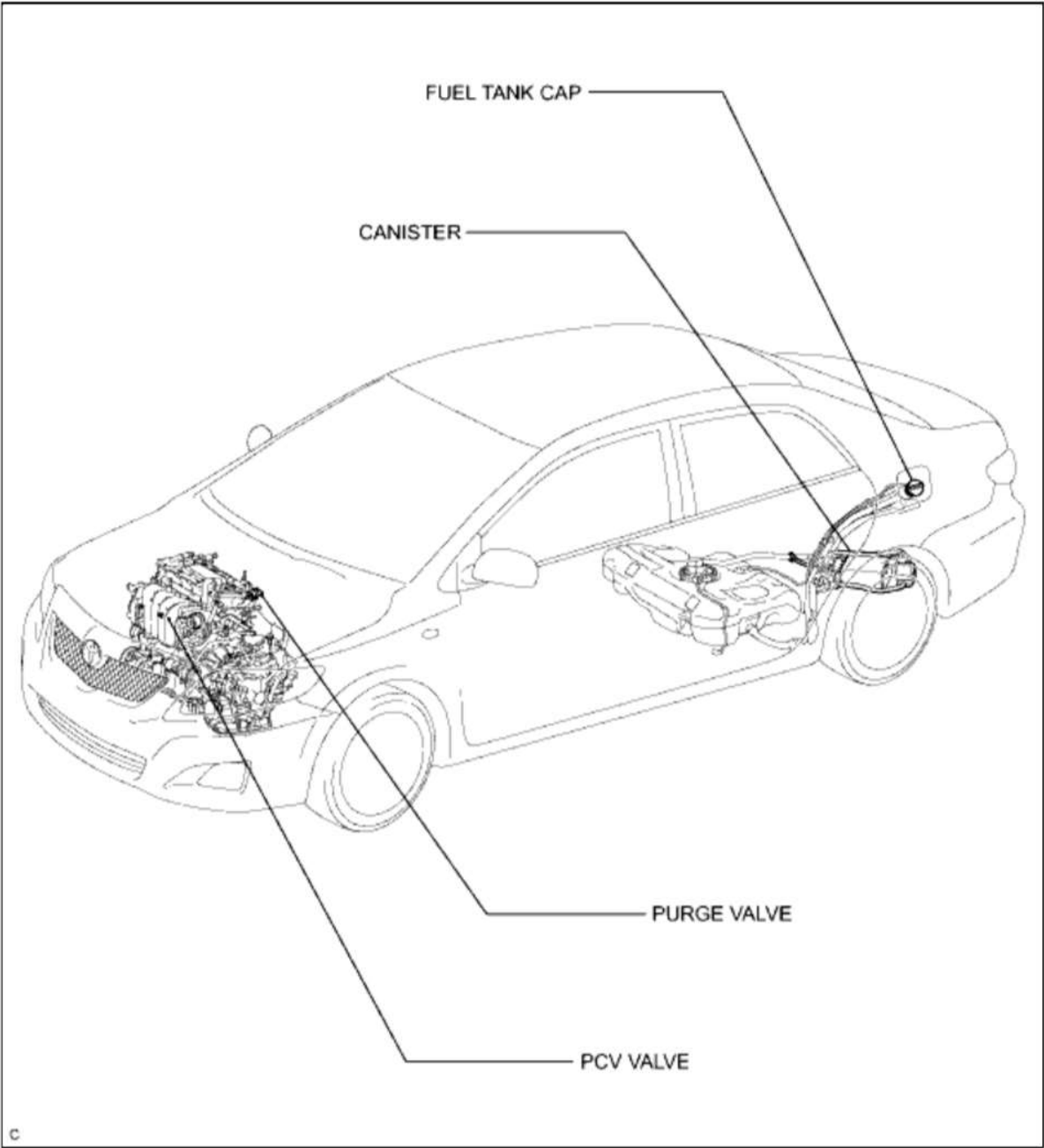




Last Modified: 3-10-2010	6.4 R	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002EDA01CX
Title: 2ZR-FE EMISSION CONTROL: EMISSION CONTROL SYSTEM: PARTS LOCATION (2010 Corolla)		

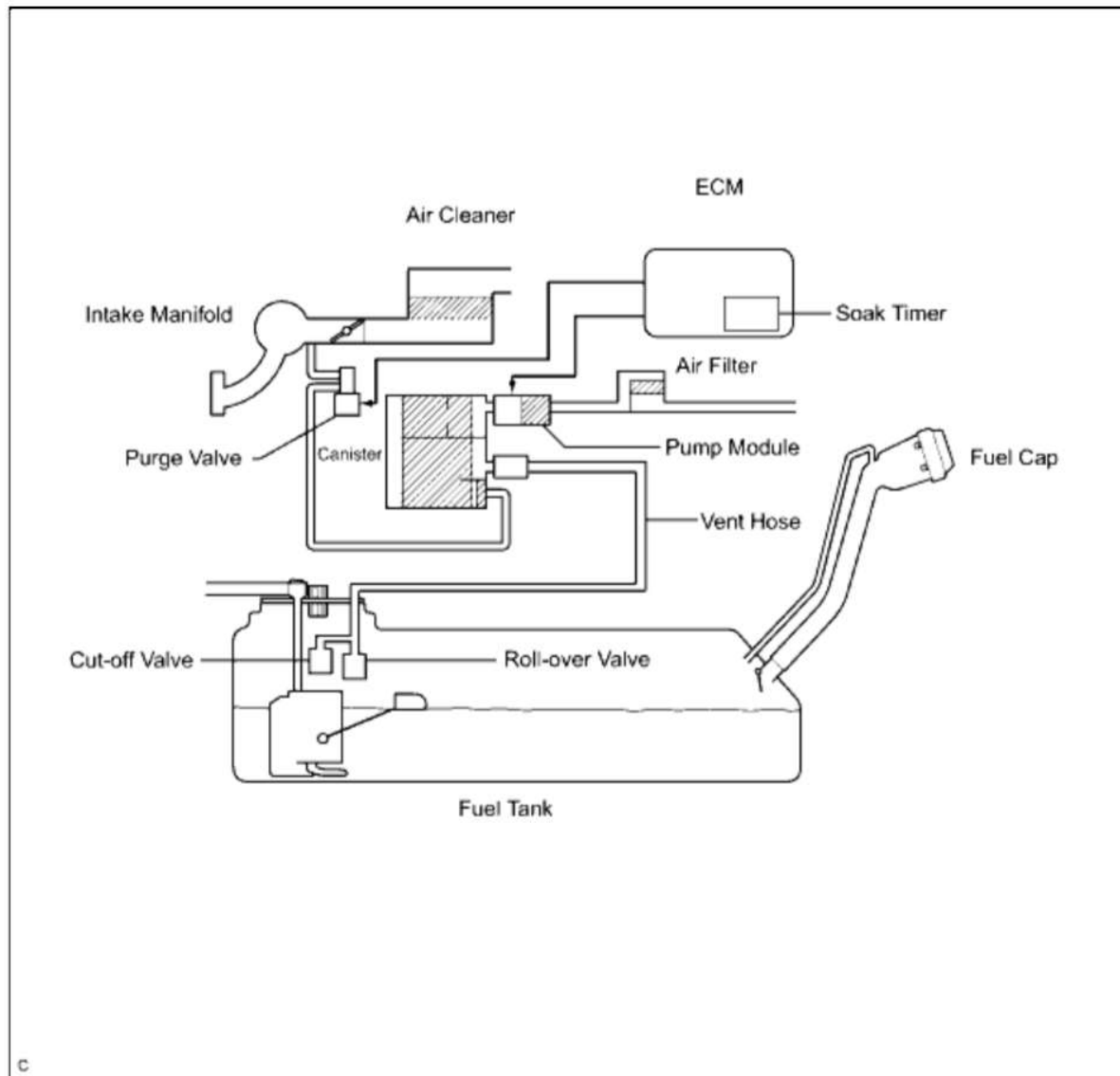
PARTS LOCATION

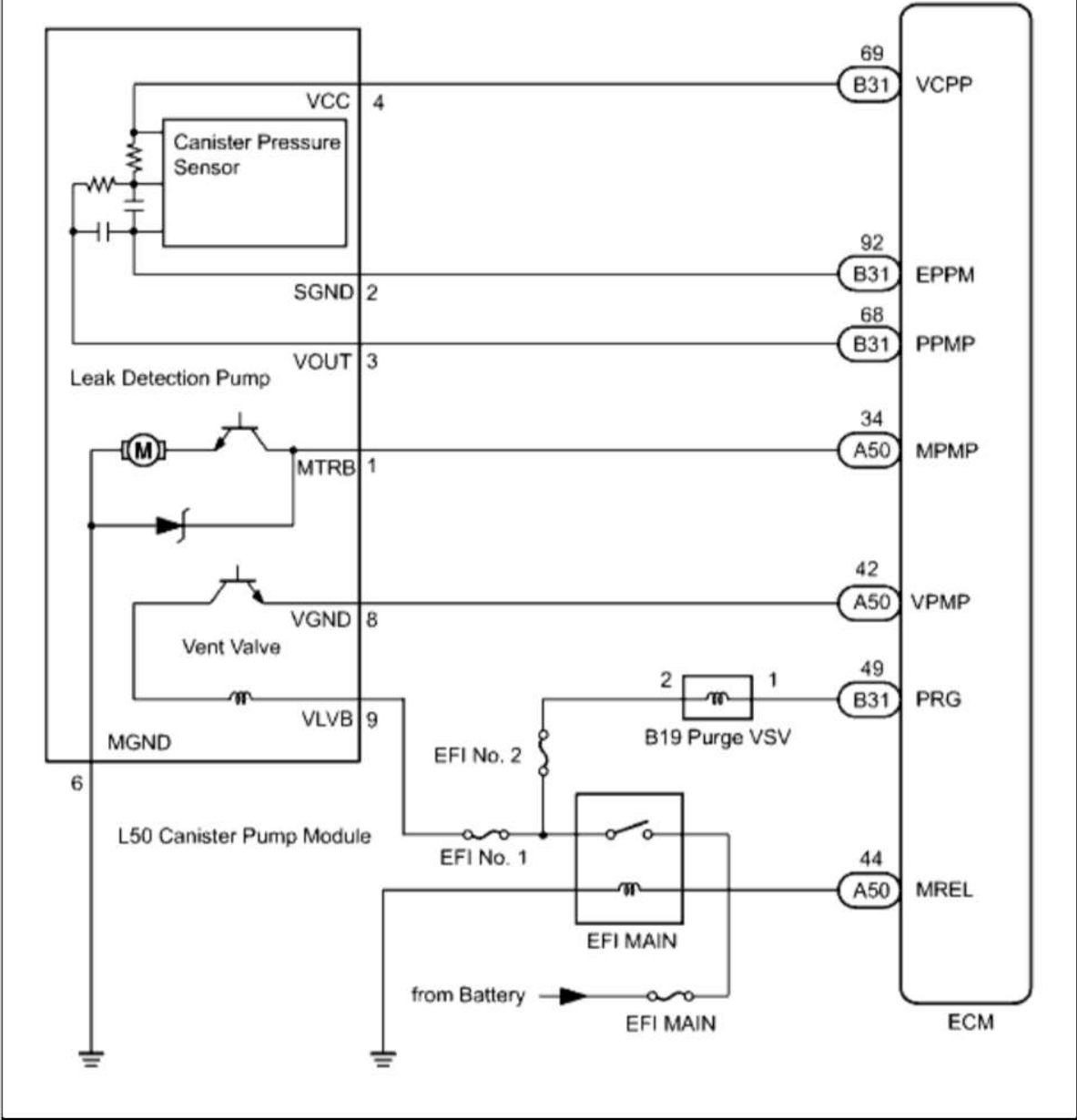
ILLUSTRATION



Last Modified: 3-10-2010	6.4 U	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM0000012NV02CX
Title: 2ZR-FE EMISSION CONTROL: EMISSION CONTROL SYSTEM: SYSTEM DIAGRAM (2010 Corolla)		

SYSTEM DIAGRAM



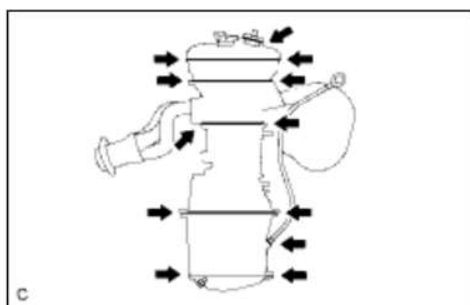


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Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM00000120002UX
Title: 2ZR-FE EMISSION CONTROL: EMISSION CONTROL SYSTEM: ON-VEHICLE INSPECTION (2010 Corolla)		

ON-VEHICLE INSPECTION

1. VISUALLY INSPECT HOSE, CONNECTIONS AND GASKETS



(a) Check for cracks, leaks or damage.

HINT:

Separation of the engine oil dipstick, oil filler cap, PCV hose, etc. may cause the engine to run improperly. Disconnection, looseness or cracks in any part of the air induction system between the throttle body and cylinder head will allow air suction and cause the engine to run improperly.

2. INSPECT FUEL CUT OFF/RESTART RPM

- (a) Increase the engine speed to at least 3500 rpm.
- (b) Use a sound scope to check for injector operating sounds.
- (c) Check that when the accelerator pedal is released, injector operating sounds stop momentarily and then resume.

Standard engine speed (Manual Transmission):

ITEM	SPECIFIED CONDITION
Fuel cut off rpm	2500 rpm
Fuel injection restart rpm	1500 rpm

Standard engine speed (Automatic Transmission):

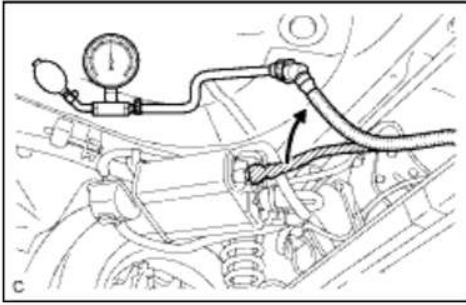
ITEM	SPECIFIED CONDITION
Fuel cut off rpm	2500 rpm
Fuel injection restart rpm	1200 rpm

3. INSPECT LINE AND CONNECTORS

- (a) Visually check for loose connections, sharp bends or damage.

4. INSPECT AIR TIGHTNESS IN FUEL TANK AND FILLER PIPE

- (a) Disconnect the vent line hose from the canister.

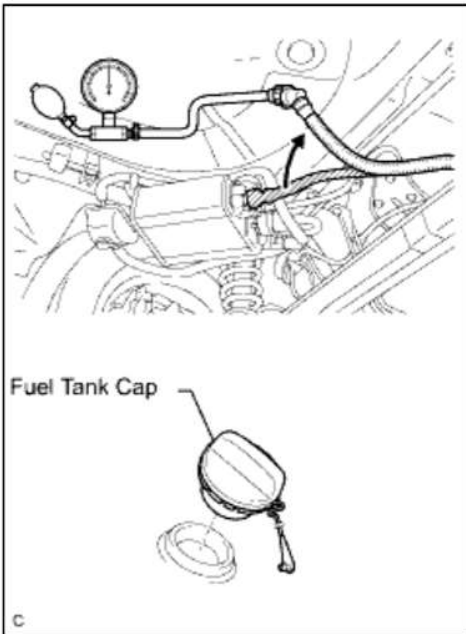


- (b) Connect the pressure gauge to the vent line hose.
- (c) Apply pressure to the fuel tank to create an internal pressure of 4 kPa (41 gf/cm², 0.58 psi).
- (d) Check that the internal pressure of the fuel tank is maintained for 1 minute.
- (e) Check the connected portions of each hose and pipe.
- (f) Check the installed parts on the fuel tank.

If any malfunctions, damage or other problems are found, replace the fuel tank and filler pipe.

- (g) Reconnect the vent line hose to the fuel tank.

5. INSPECT FUEL TANK ASSEMBLY



- (a) Disconnect the vent line hose from the canister.

- (b) Connect the pressure gauge to the vent line hose.
- (c) Fill the fuel tank with fuel.
- (d) Apply pressure of 4 kPa (41 gf/cm², 0.58 psi) to the vent port of the fuel tank.

HINT:

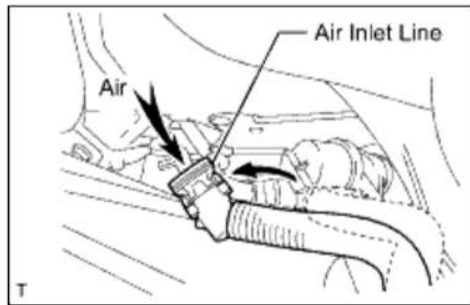
Check the amount of fuel in the fuel tank. When the fuel tank is full, the float valve of the fill check valve is closed and no air can pass through.

(e) Remove the fuel tank cap, and check that the pressure drops.

If the pressure does not drop, replace the fuel tank assembly.

(f) Reconnect the vent line hose to the fuel tank.

6. INSPECT AIR INLET LINE



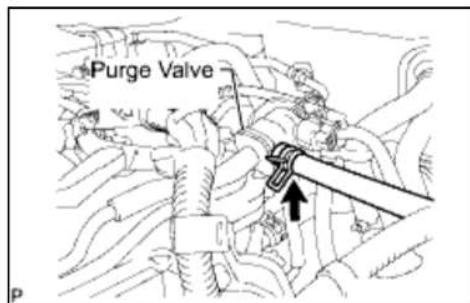
(a) Disconnect the air inlet line from the charcoal canister.

(b) Check that air can flow freely into the air inlet line.

If air cannot flow freely into the air inlet line, repair or replace it.

(c) Reconnect the air inlet line to the charcoal canister.

7. INSPECT EVAPORATIVE EMISSION CONTROL SYSTEM



(a) Start the engine.

(b) Disconnect the vacuum hose from the purge valve as shown in the illustration.

(c) Connect the Techstream to the DLC3.

(d) Enter the following menus: Powertrain / Active Test / Activate the VSV for EVAP Control.

(e) Check that a vacuum occurs at the purge valve port.

(f) Exit Active Test mode and reconnect the vacuum hose.

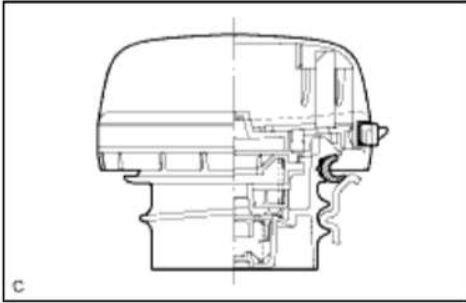
If the result is not as specified, replace the purge valve, wire harness or ECM.



Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002BN8017X
Title: 2AZ-FE EMISSION CONTROL: FUEL TANK CAP: INSPECTION (2010 Corolla)		

INSPECTION

1. INSPECT FUEL TANK CAP ASSEMBLY



(a) Visually check if the cap or gasket is deformed or damaged.

If necessary, replace the cap.

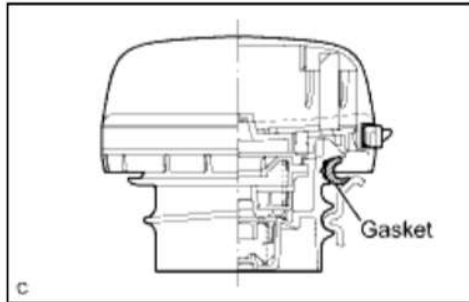


TOYOTA

Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000SGV01AX
Title: 2ZR-FE EMISSION CONTROL: FUEL TANK CAP: INSPECTION (2010 Corolla)		

INSPECTION

1. INSPECT FUEL TANK CAP ASSEMBLY



(a) Visually check if the cap or gasket is deformed or damaged.

If necessary, replace the cap.

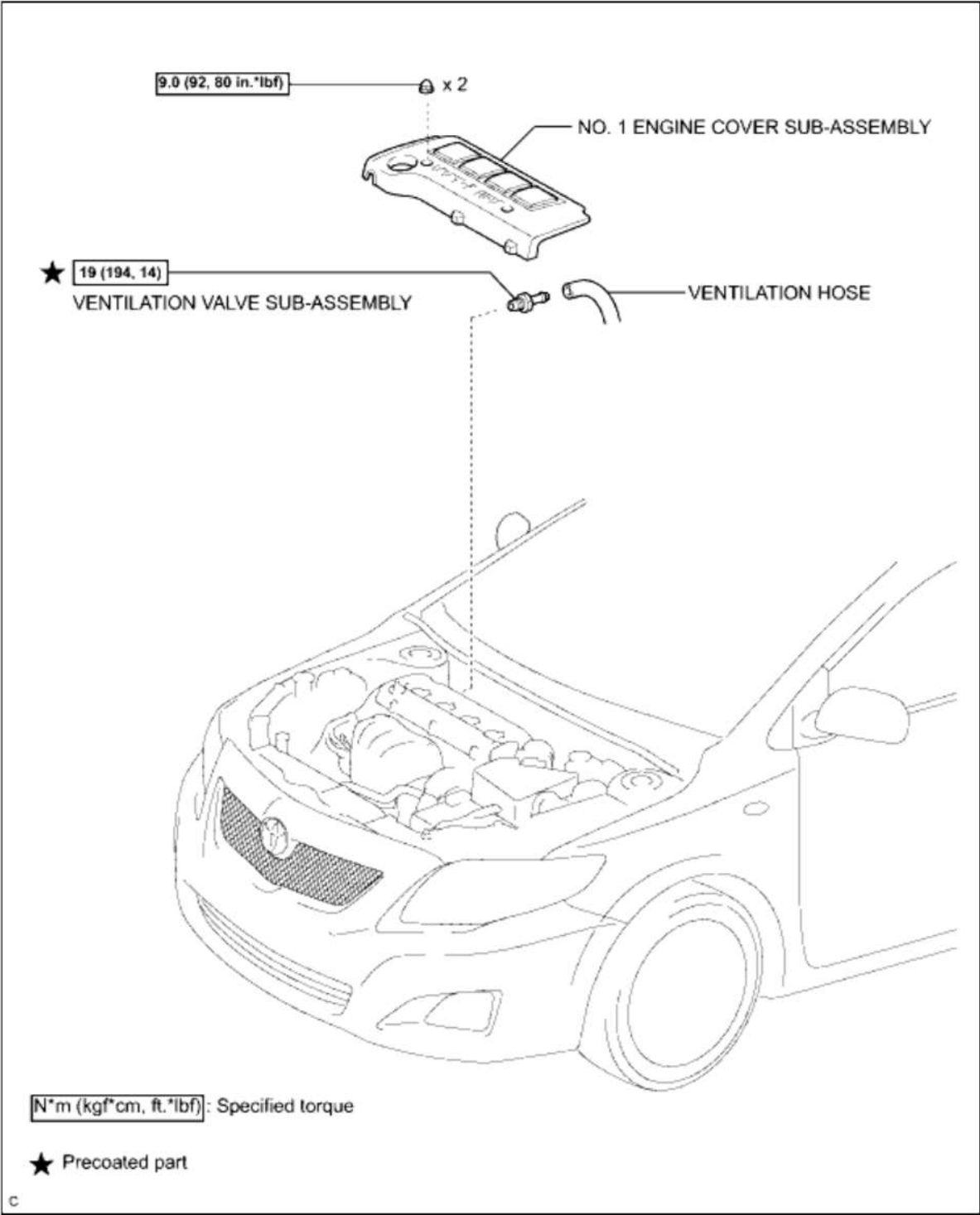


TOYOTA

Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002A47015X
Title: 2AZ-FE EMISSION CONTROL: PCV VALVE: COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION





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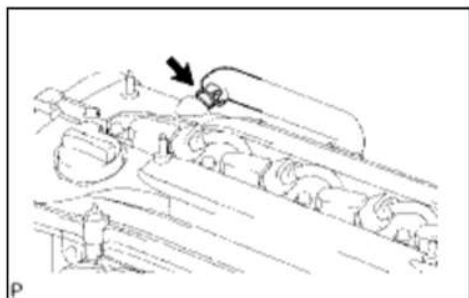
Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002A4801JX
Title: 2AZ-FE EMISSION CONTROL: PCV VALVE: REMOVAL (2010 Corolla)		

REMOVAL

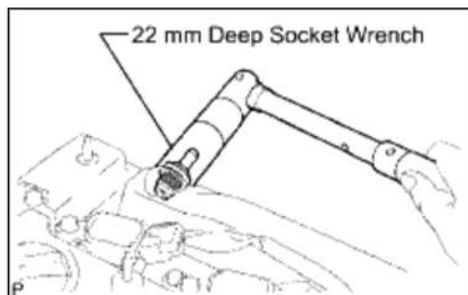
1. REMOVE NO. 1 ENGINE COVER SUB-ASSEMBLY



2. REMOVE VENTILATION VALVE SUB-ASSEMBLY



(a) Disconnect the ventilation hose from the ventilation valve sub-assembly.



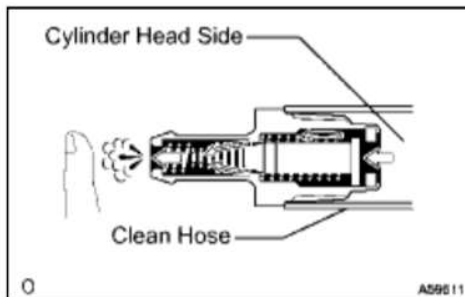
(b) Using a 22 mm deep socket wrench, remove the ventilation valve sub-assembly.



Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001207023X
Title: 2AZ-FE EMISSION CONTROL: PCV VALVE: INSPECTION (2010 Corolla)		

INSPECTION

1. INSPECT VENTILATION VALVE SUB-ASSEMBLY



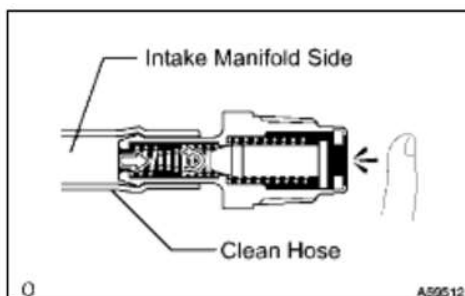
(a) Install a clean hose to the ventilation valve sub-assembly.

(b) Inspect ventilation 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 hazardous to your health.



(2) Blow air into the intake manifold side, and check that air passes through with difficulty.

If the result is not as specified, replace the ventilation valve sub-assembly.

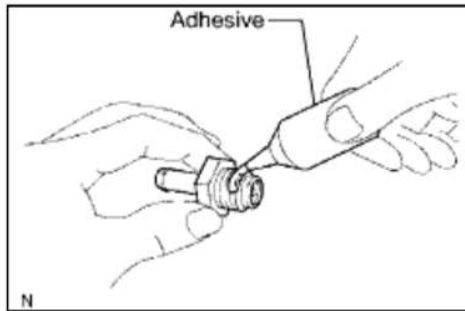
(c) Remove the clean hose from the ventilation valve sub-assembly.



Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002A4601JX
Title: 2AZ-FE EMISSION CONTROL: PCV VALVE: INSTALLATION (2010 Corolla)		

INSTALLATION

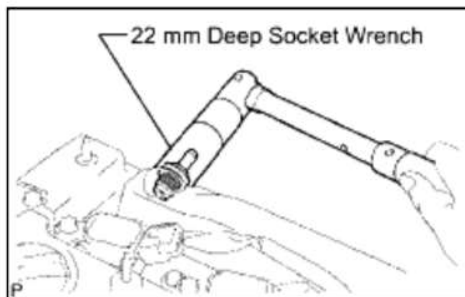
1. INSTALL VENTILATION VALVE SUB-ASSEMBLY



(a) Apply adhesive to 2 or 3 threads of the ventilation valve.

Adhesive:

Toyota genuine adhesive 1324, three bond 1324 or equivalent



(b) Using a 22 mm deep socket wrench, install the ventilation valve.

Torque: 19 N·m (194 kgf·cm, 14ft·lbf)

(c) Connect the ventilation hose.

2. INSTALL NO. 1 ENGINE COVER SUB-ASSEMBLY

INFO

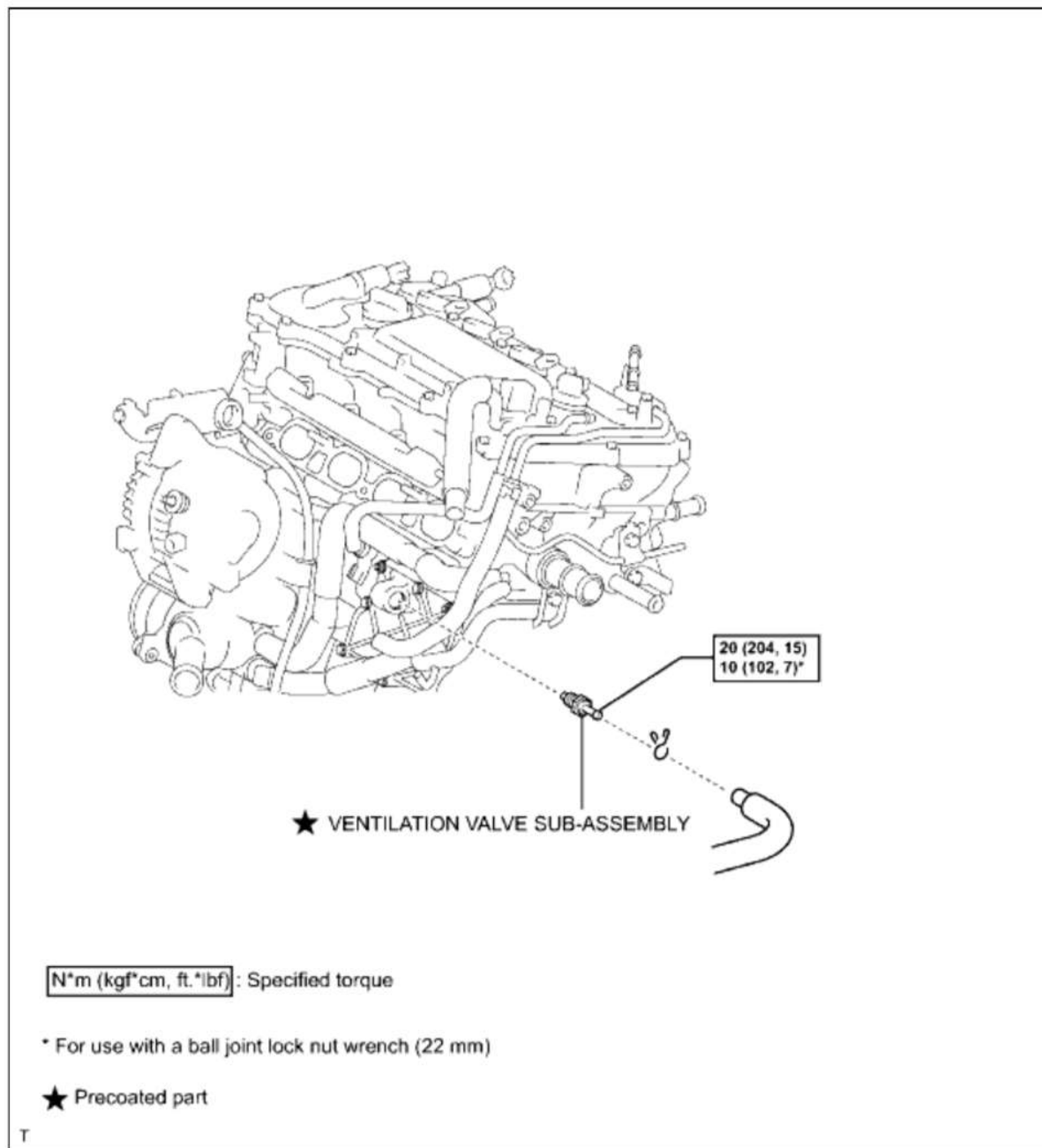
3. INSPECT FOR OIL LEAK



Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002WZK00VX
Title: 2ZR-FE EMISSION CONTROL: PCV VALVE: COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION



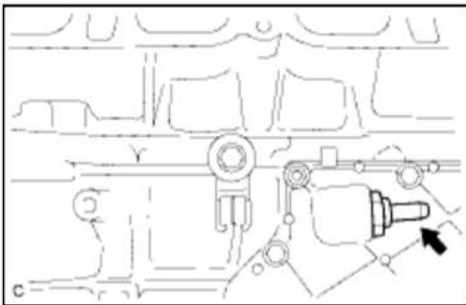
Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002WZL00XX
Title: 2ZR-FE EMISSION CONTROL: PCV VALVE: REMOVAL (2010 Corolla)		

REMOVAL

1. REMOVE INTAKE MANIFOLD



2. REMOVE VENTILATION VALVE SUB-ASSEMBLY



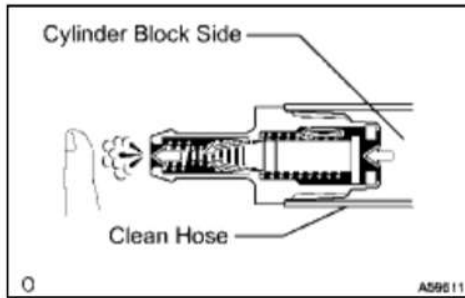
(a) Using a ball joint lock nut wrench (22 mm), remove the ventilation valve sub-assembly.



Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001207022X
Title: 2ZR-FE EMISSION CONTROL: PCV VALVE: INSPECTION (2010 Corolla)		

INSPECTION

1. INSPECT VENTILATION VALVE SUB-ASSEMBLY



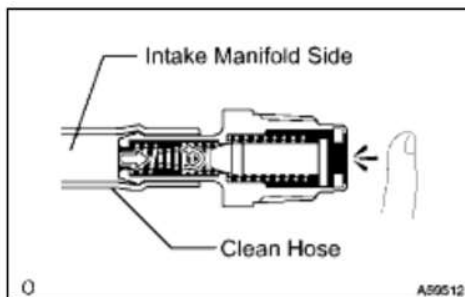
(a) Install a clean hose to the ventilation valve sub-assembly.

(b) Inspect ventilation valve operation.

(1) Blow air into the cylinder block side, and check that air passes through easily.

CAUTION:

Do not suck air through the valve. Petroleum substances inside the valve are hazardous to your health.



(2) Blow air into the intake manifold side, and check that air passes through with difficulty.

If the result is not as specified, replace the ventilation valve sub-assembly.

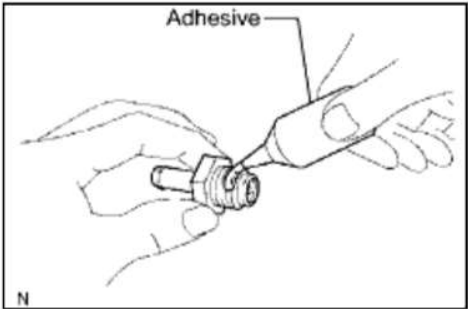
(c) Remove the clean hose from the ventilation valve sub-assembly.



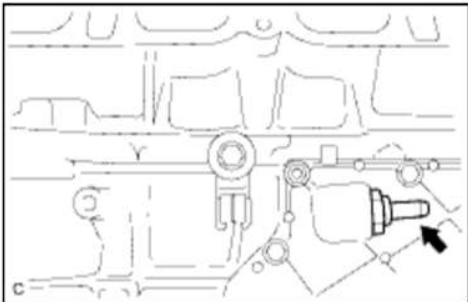
Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002WZI00XX
Title: 2ZR-FE EMISSION CONTROL: PCV VALVE: INSTALLATION (2010 Corolla)		

INSTALLATION

1. INSTALL VENTILATION VALVE SUB-ASSEMBLY



(a) Apply adhesive to 2 or 3 threads of the ventilation valve sub-assembly.



(b) Using a ball joint lock nut wrench (22 mm), install the ventilation valve sub-assembly.

without a ball joint lock nut wrench (22 mm) - Torque: 20 N·m (204 kgf·cm, 15ft·lbf)
with a ball joint lock nut wrench (22 mm) - Torque: 10 N·m (102 kgf·cm, 7ft·lbf)

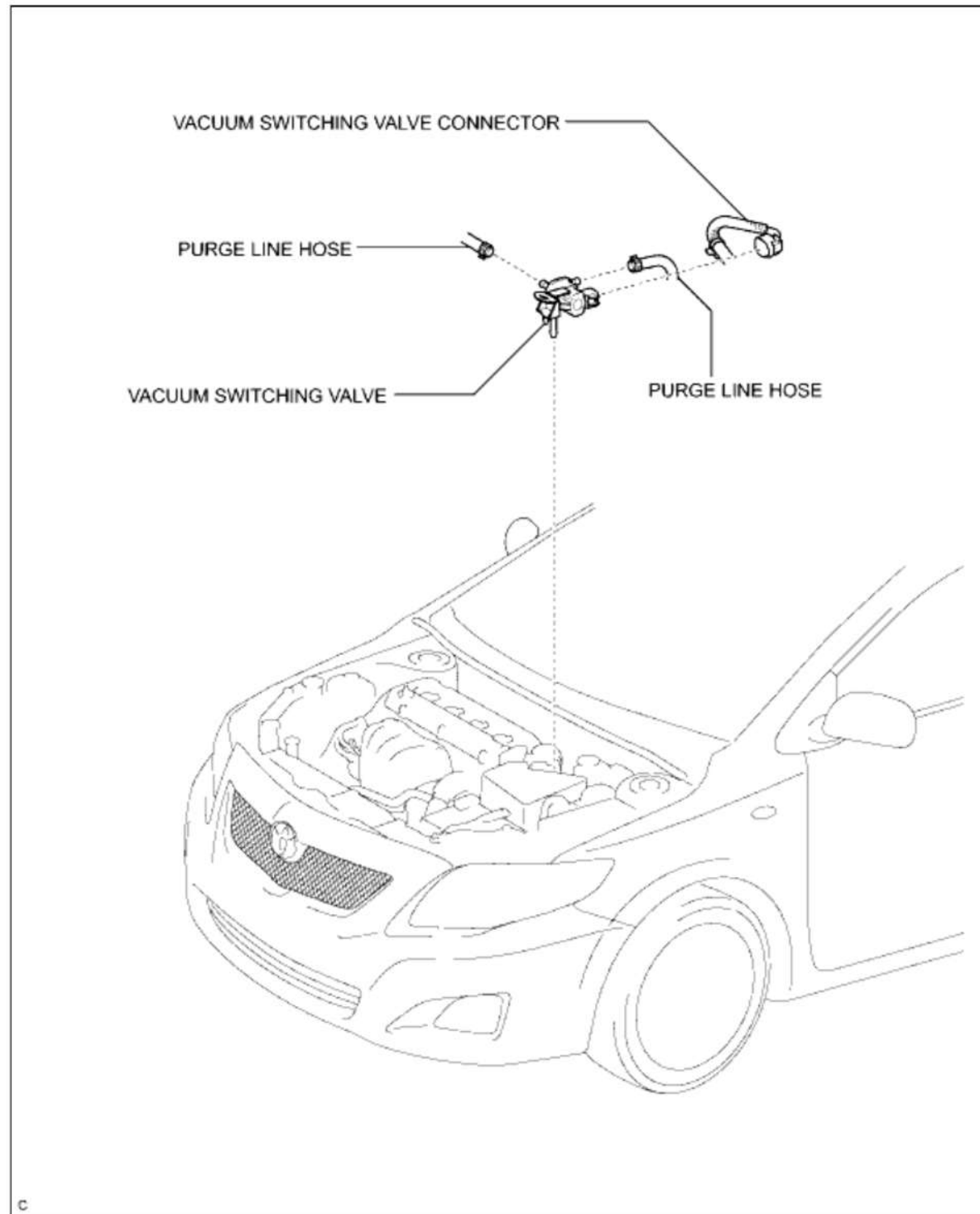
2. INSTALL INTAKE MANIFOLD



Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002A4A017X
Title: 2AZ-FE EMISSION CONTROL: PURGE VALVE: COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION



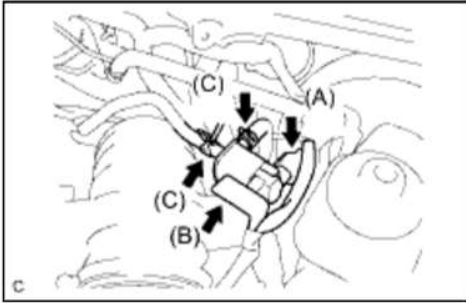


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Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002A4B017X
Title: 2AZ-FE EMISSION CONTROL: PURGE VALVE: REMOVAL (2010 Corolla)		

REMOVAL

1. REMOVE VACUUM SWITCHING VALVE



(a) Disconnect the vacuum switching valve connector.(A)

(b) Disconnect the wire harness clamp.(B)

(c) Disconnect the 2 purge line hoses from the vacuum switching valve.(C)

(d) Remove the vacuum switching valve.

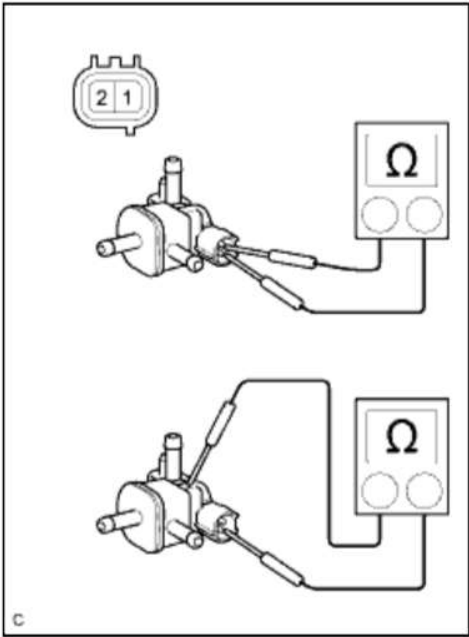


TOYOTA

Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM00000120E01LX
Title: 2AZ-FE EMISSION CONTROL: PURGE VALVE: INSPECTION (2010 Corolla)		

INSPECTION

1. INSPECT VACUUM SWITCHING VALVE



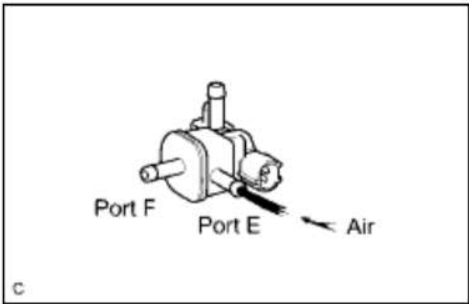
(a) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	SPECIFIED CONDITION
1 - 2	23 to 26 Ω at 20°C (68°F)
1 - Body ground 2 - Body ground	10 MΩ or higher

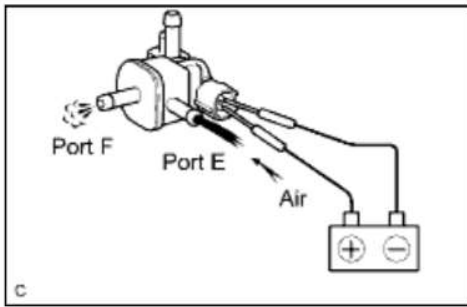
If the result is not as specified, replace the vacuum switching valve.

(b) Check the operation of the vacuum switching valve.



(1) Check that air does not flow from port E to port F.

(2) Apply battery voltage across the terminals.



(3) Check that air flows from port E to port F.

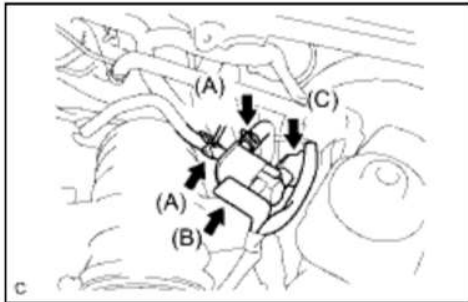
If the result is not as specified, replace the vacuum switching valve.



Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002A49017X
Title: 2AZ-FE EMISSION CONTROL: PURGE VALVE: INSTALLATION (2010 Corolla)		

INSTALLATION

1. INSTALL VACUUM SWITCHING VALVE



(a) Install the vacuum switching valve onto the air cleaner hose.

(b) Connect the 2 purge line hoses to the vacuum switching valve.(A)

(c) Connect the wire harness clamp.(B)

(d) Connect the vacuum switching valve connector.(C)

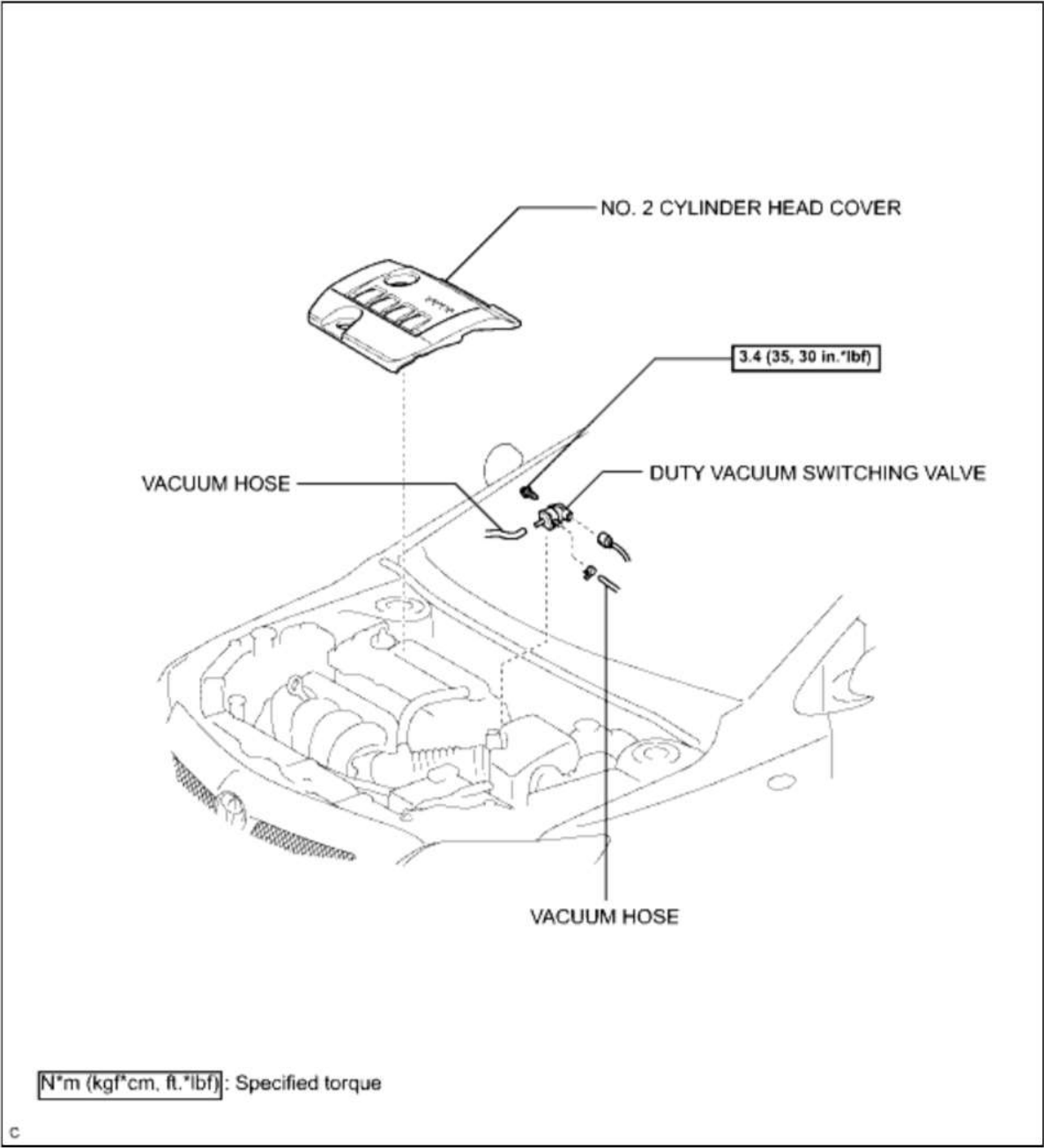


TOYOTA

Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002WUE00UX
Title: 2ZR-FE EMISSION CONTROL: PURGE VALVE: COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION

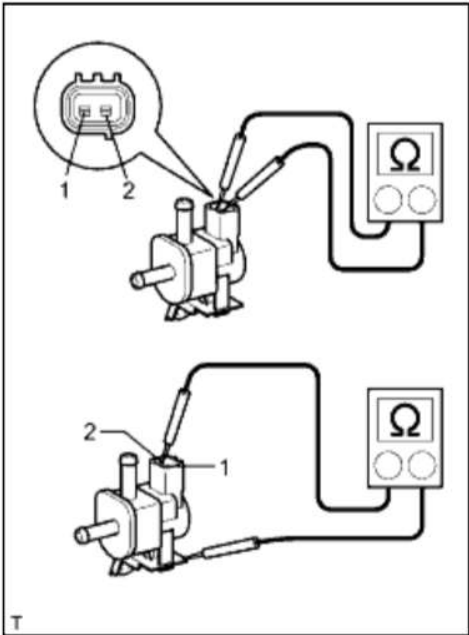


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Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000R3500ZX
Title: 2ZR-FE EMISSION CONTROL: PURGE VALVE: INSPECTION (2010 Corolla)		

INSPECTION

1. INSPECT DUTY VACUUM SWITCHING VALVE



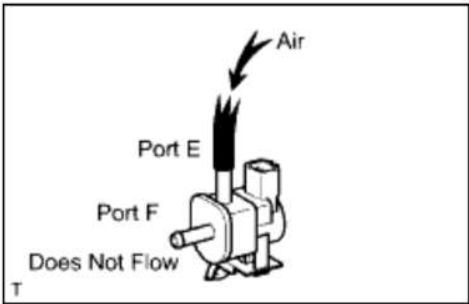
(a) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1 - 2	20°C (68°F)	23 to 26 Ω
1 - Body ground	Always	10 MΩ or higher
2 - Body ground	Always	10 MΩ or higher

If the result is not as specified, replace the duty vacuum switching valve.

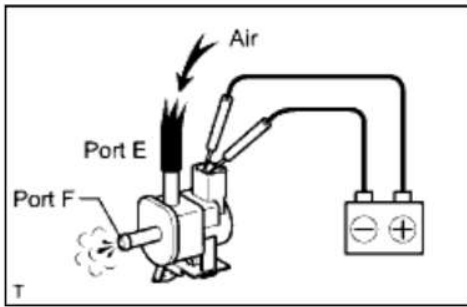
(b) Check operation of the purge VSV .



(1) Check that air does not flow from port E to port F.

If the result is not as specified, replace the duty vacuum switching valve.

(2) Apply battery voltage across terminals 1 and 2.



(3) Check that air flows from port E to port F.

If the result is not as specified, replace the duty vacuum switching valve.



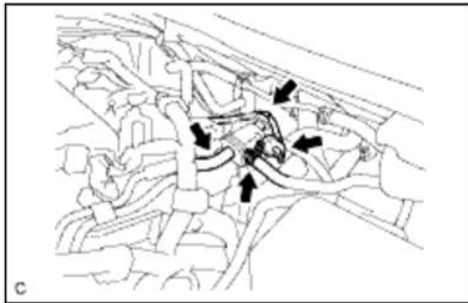
Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002WUF00WX
Title: 2ZR-FE EMISSION CONTROL: PURGE VALVE: REMOVAL (2010 Corolla)		

REMOVAL

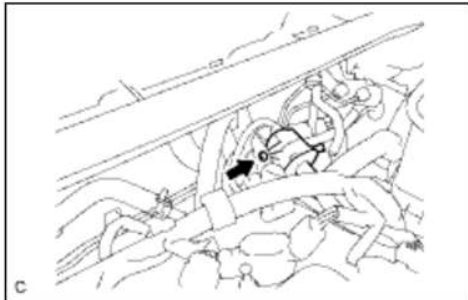
1. REMOVE NO. 2 CYLINDER HEAD COVER



2. REMOVE DUTY VACUUM SWITCHING VALVE



(a) Disconnect the duty vacuum switching valve connector, 2 vacuum hoses and wire harness clamp.



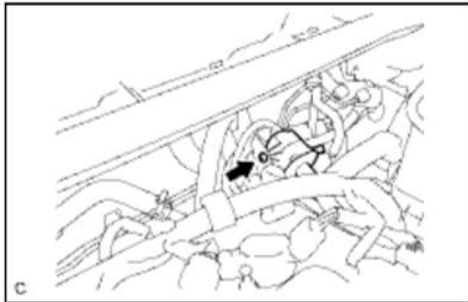
(b) Remove the screw and duty vacuum switching valve.



Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002WUD00WX
Title: 2ZR-FE EMISSION CONTROL: PURGE VALVE: INSTALLATION (2010 Corolla)		

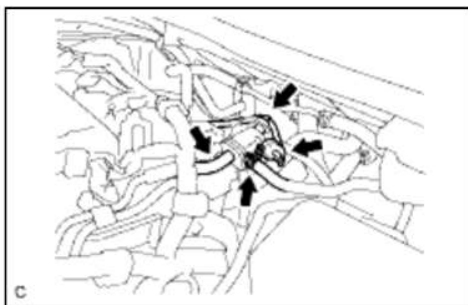
INSTALLATION

1. INSTALL DUTY VACUUM SWITCHING VALVE



(a) Install the duty vacuum switching valve with the screw.

Torque: 3.4 N·m (35 kgf·cm, 30in·lbf)



(b) Connect the duty vacuum switching valve connector, 2 vacuum hoses and wire harness clamp.

2. INSTALL NO. 2 CYLINDER HEAD COVER

INFO

