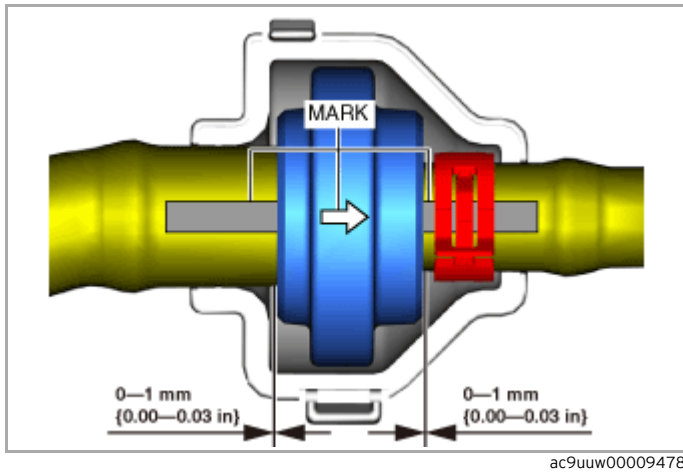


Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

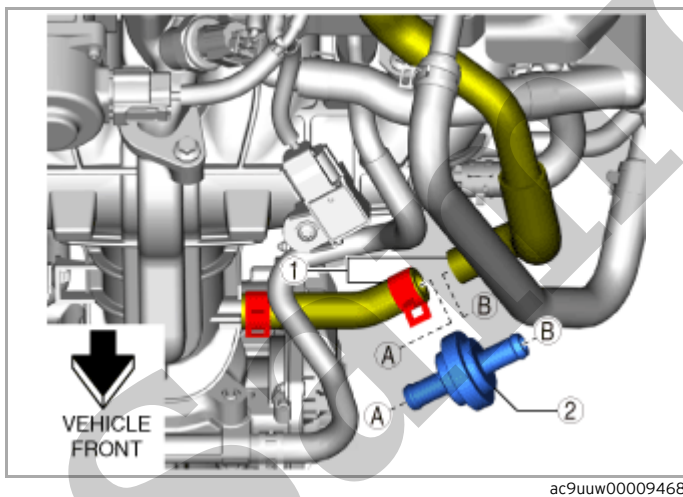
2008 MAZDA CX-9 OEM Service and Repair Workshop Manual

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Intake Manifold Side

- 1.Remove the plug hole plate. (See [PLUG HOLE PLATE REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\].](#))
- 2.Remove in the order indicated in the table.

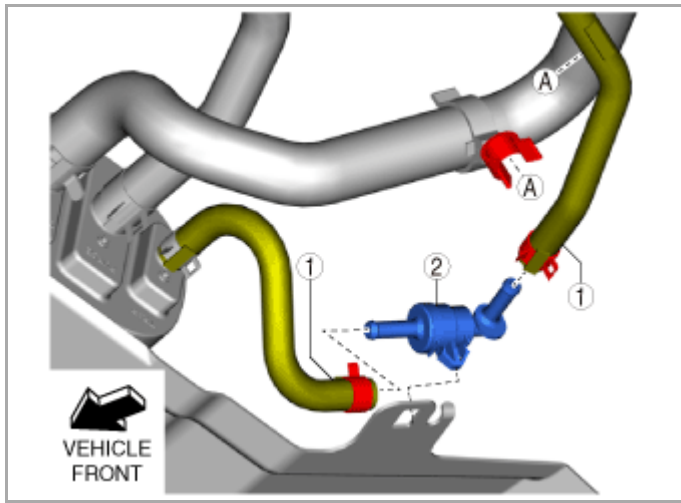


1	Vacuum hose
2	Check valve (intake manifold side) (See Check valve (intake manifold side) installation note.)

- 3.Install in the reverse order of removal.

Check valve (intake manifold side) installation note

- 1.Install the check valve (intake manifold side) as shown in the figure.



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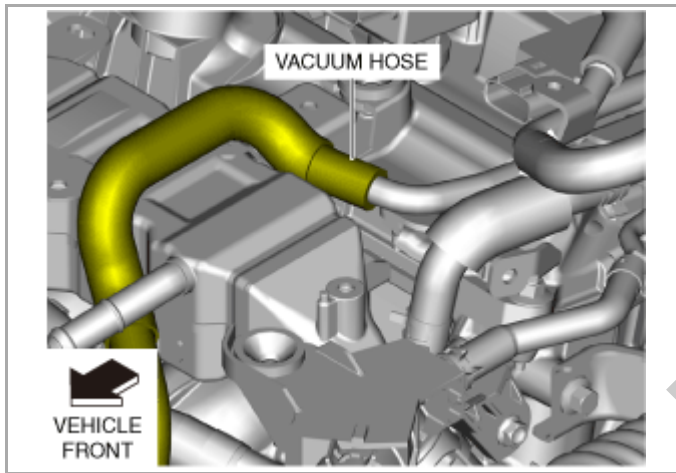
1	Evaporative hose
2	Check valve (fuel tank side)

4.Install in the reverse order of removal.

9.Install in the reverse order of removal.

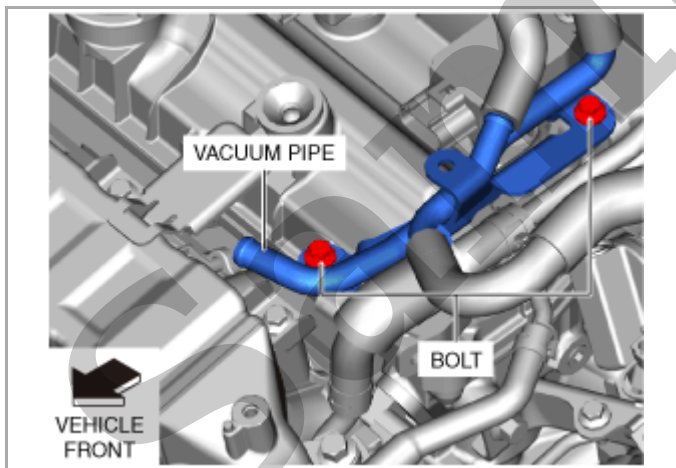
EGR Cooler Installation Bolt Removal Note

1.Disconnect the vacuum hose from the vacuum pipe.



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2.Remove the bolts shown in the figure and set the vacuum pipe aside.

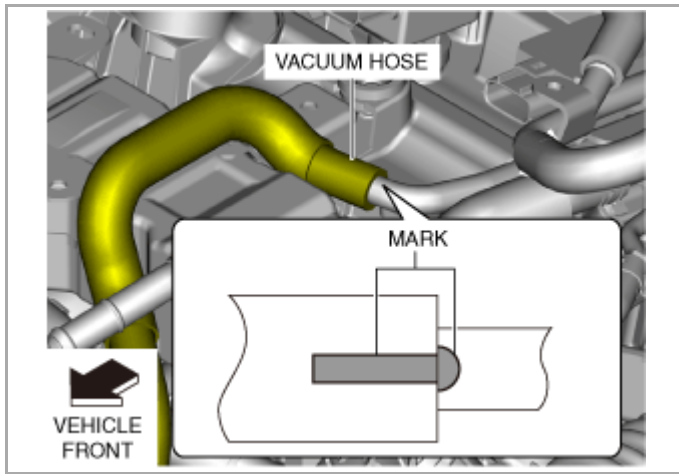


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3.Remove the EGR cooler installation bolts.

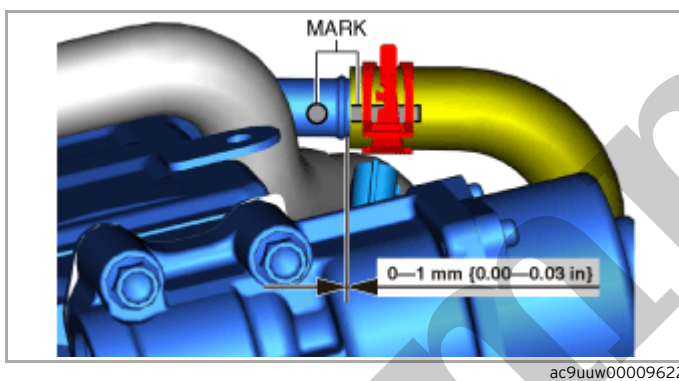
Water Hose No.3 Installation Note

1.Install the water hose No.3 as shown in the figure.



Water Hose No.1 Installation Note

1. Install the water hose No.1 as shown in the figure.



Sample

CHARCOAL CANISTER INSPECTION [SKYACTIV-G 2.5T]

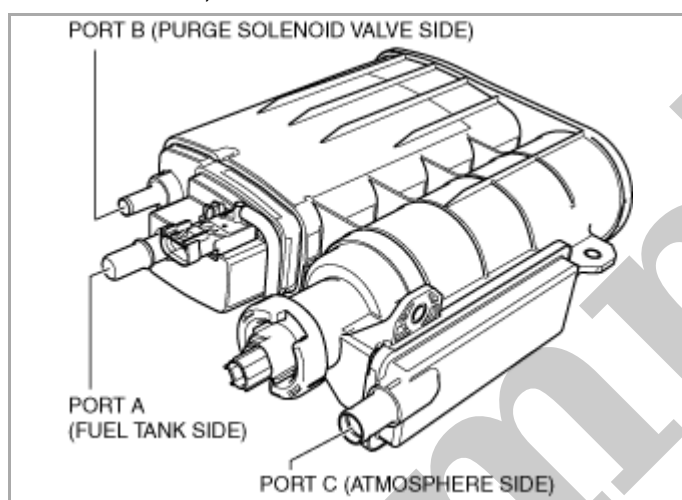
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Leakage Inspection

1. Perform the following procedures:

- Do not operate CV solenoid valve.
- Assemble the hose used for inspection to port A.
- Cover ports B and C with the caps.

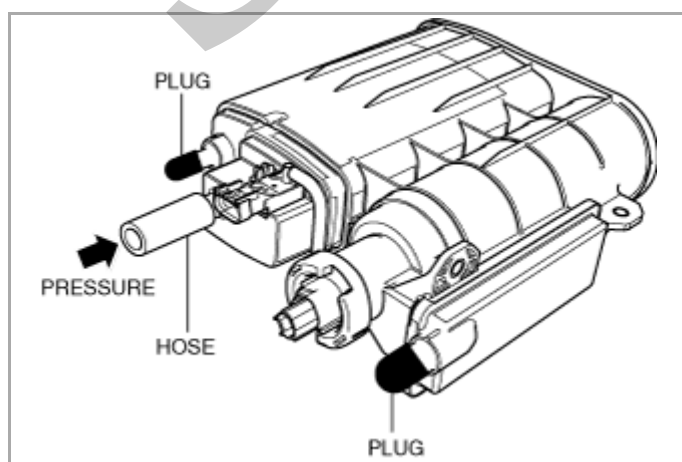


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Caution

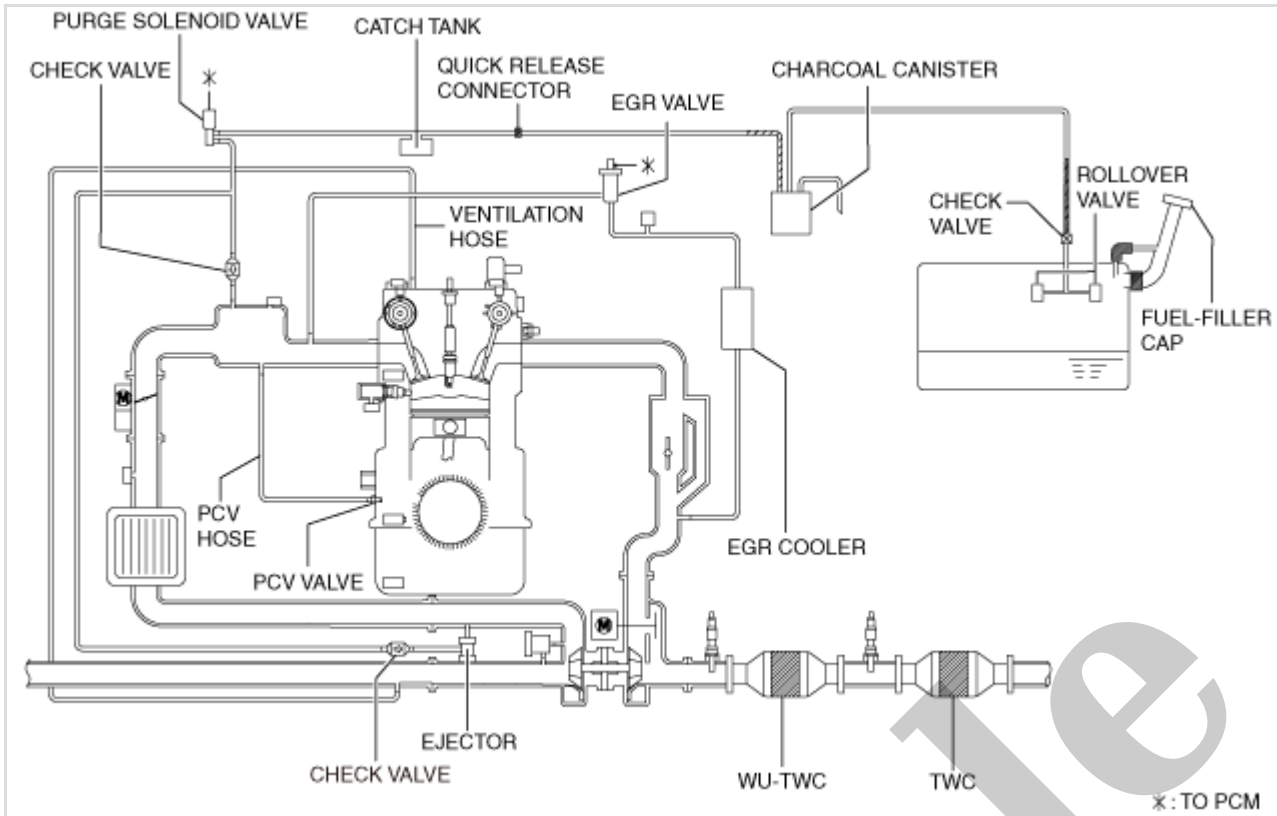
- Do not apply a pressure 20 kPa {150 mmHg, 5.91 inHg} or more to the charcoal canister for 1 min. or more. Doing so will damage the charcoal canister.

2. Apply pressure (19.6 kPa {147 mmHg, 5.79 inHg}) through the hose, and verify that air does not leak from the charcoal canister.



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- If there is airflow, replace the charcoal canister. (See [CHARCOAL CANISTER REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\].](#))
- If there is no airflow, perform the following "Airflow Inspection". (See [Airflow Inspection.](#))



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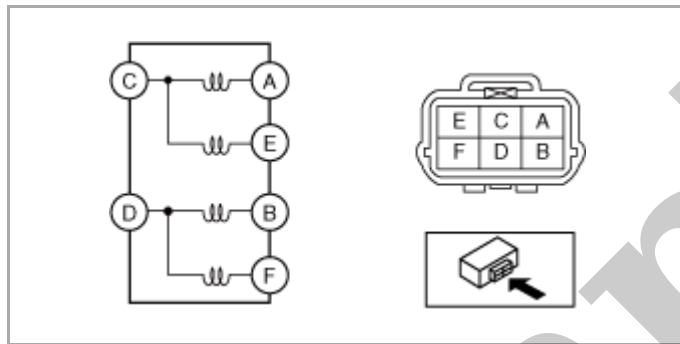
EGR VALVE INSPECTION [SKYACTIV-G 2.5T]

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Resistance inspection

1. Disconnect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))
2. Disconnect the EGR valve connector. (See [EGR VALVE REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\].](#))



3. Measure the resistance at the following terminals:

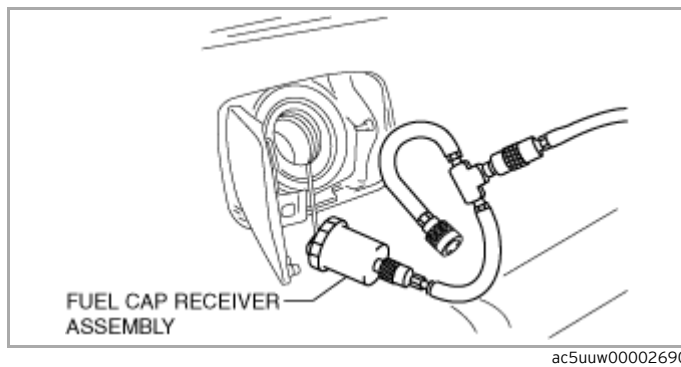
- EGR valve terminal A–EGR valve terminal C.
- EGR valve terminal E–EGR valve terminal C.
- EGR valve terminal B–EGR valve terminal D.
- EGR valve terminal F–EGR valve terminal D.

EGR valve resistance (specification)

8.0–9.0 ohms [20 °C {68 °F}]

- If not within the specification, replace the EGR valve. (See [EGR VALVE REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\].](#))

- If the fuel-filler cap is not a genuine part, replace it.



4. Turn the control valve to the FILL position.

5. Wait (maximum 20 s) until the left display reads 13.9 to 14.0 in of water.

- If the reading is slightly below the specification, adjust it using the regulator knob.
- If the reading is far below, the fuel-filler cap has a leak. Replace it.

6. Turn the control valve to the TEST position and press the START switch.

7. After the 2-min countdown (left display) is completed, check the test result (the failed/passed light on the tester).

- If the green light turns on, the fuel-filler cap is normal.
- If the red light turns on, the fuel-filler cap has a leak. Replace it.

8. Close the gas cylinder valve.

9. Turn the control valve to the FILL position.

10. Press the ON/OFF switch to turn off the tester.