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2009 MAZDA 2 OEM Service and Repair Workshop Manual

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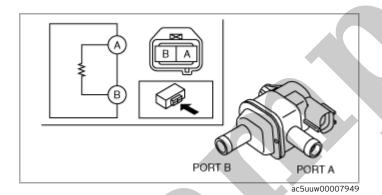
PURGE SOLENOID VALVE INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)]

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Airflow Inspection

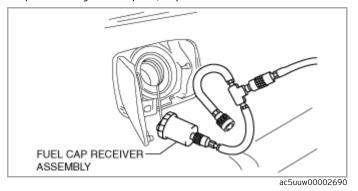
- 1.Disconnect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.)
- 2.Remove the purge solenoid valve. (See PURGE SOLENOID VALVE REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)
- 3.Inspect airflow between the ports under the following conditions.



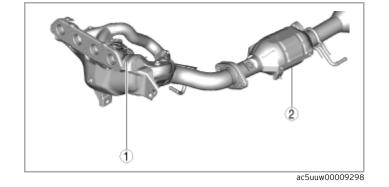
Measured condition	Continuity between ports A-B
When voltage is not applied between terminals A and B	No airflow
When voltage is applied between terminals A and B	Airflow detected

• If not as specified, replace the purge solenoid valve. (See PURGE SOLENOID VALVE REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)

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

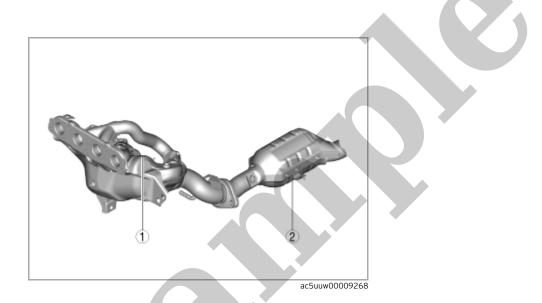


- 4.Turn the control valve to the FILL position.
- 5. Wait (maximum 20 s) until the left display reads 13.9 to 14.0 in of water.
 - If the reading is slightly below the specification, adjust it using the regulator knob.
 - If the reading is far below, the fuel-filler cap has a leak. Replace it.
- 6.Turn 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.



1	WU-TWC (See EXHAUST SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See WARM-UP THREE-WAY CATALYTIC CONVERTER (WU-TWC) INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)
2	TWC (See EXHAUST SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)

AWD

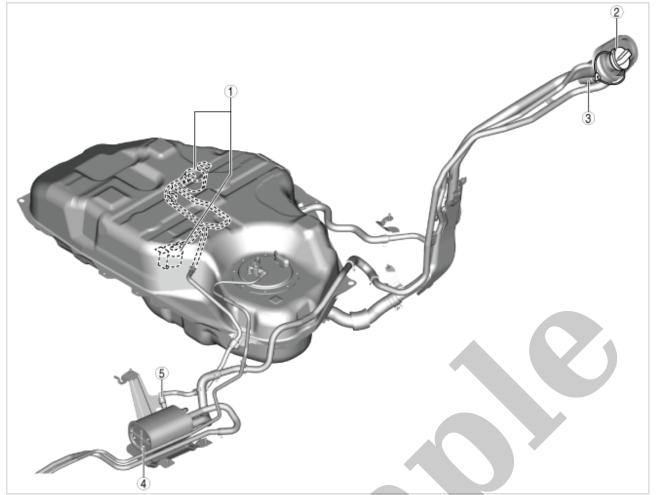


1	WU-TWC (See EXHAUST SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See WARM-UP THREE-WAY CATALYTIC CONVERTER (WU-TWC) INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)
2	TWC (See EXHAUST SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)

Fuel Tank Side

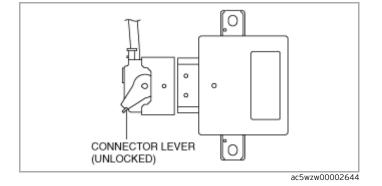
U.S.A., Canada and Israel

2WD



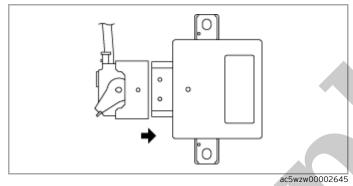
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1	Rollover valve (See ROLLOVER VALVE REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See ROLLOVER VALVE INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)
2	Fuel-filler cap (See FUEL-FILLER PIPE REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)
3	Plug (See FUEL-FILLER PIPE REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)
4	Charcoal canister (See CHARCOAL CANISTER REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See CHARCOAL CANISTER INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)
5	Check valve (See CHECK VALVE REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See CHECK VALVE INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)

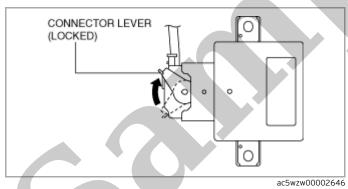


2.Connect the DC-DC converter connector using the following procedure:

(1)Insert the DC-DC converter connector straight until it stops.



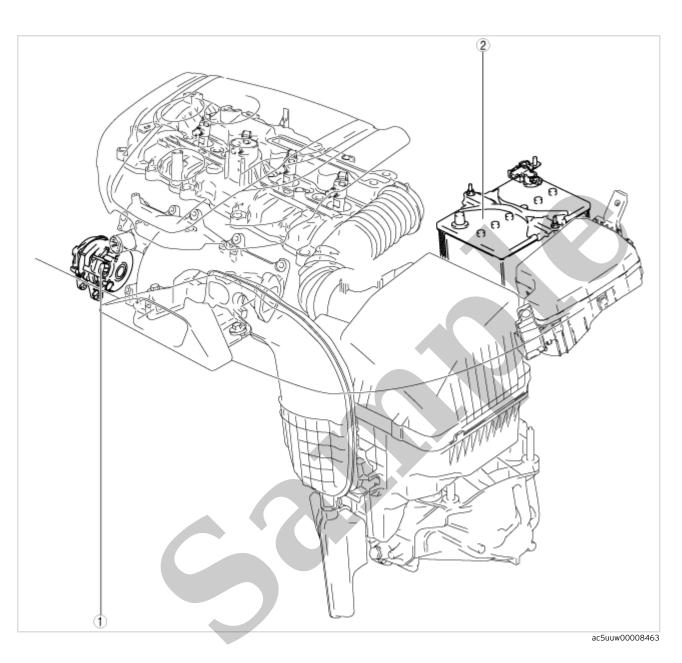
(2) Move the connector lever until a click sound is heard.



CHARGING SYSTEM LOCATION INDEX [SKYACTIV-D 2.2]

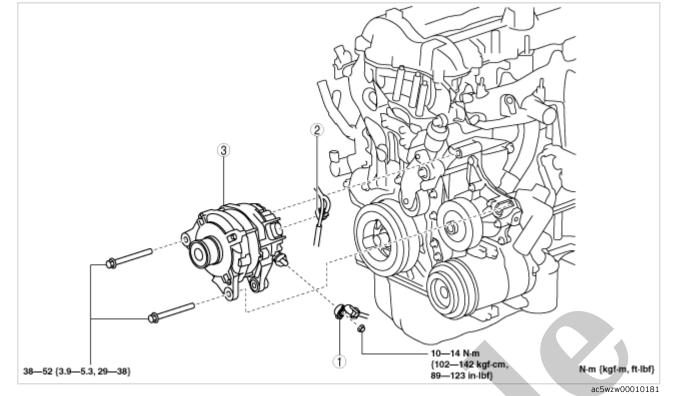
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1	Generator (See GENERATOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) (See GENERATOR INSPECTION [SKYACTIV-D 2.2].) (See GENERATOR DISASSEMBLY/ASSEMBLY [SKYACTIV-D 2.2].)
2	Battery (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) (See BATTERY INSPECTION.) (See BATTERY RECHARGING.)

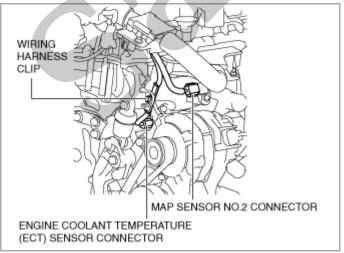




1	Terminal B cable
2	Generator connector
3	Generator (See Generator Removal Note.) (See Generator Installation Note.)

Generator Removal Note

1.Disconnect the connectors and wiring harness clip shown in the figure.



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2. Remove the adapter shown in the figure.

