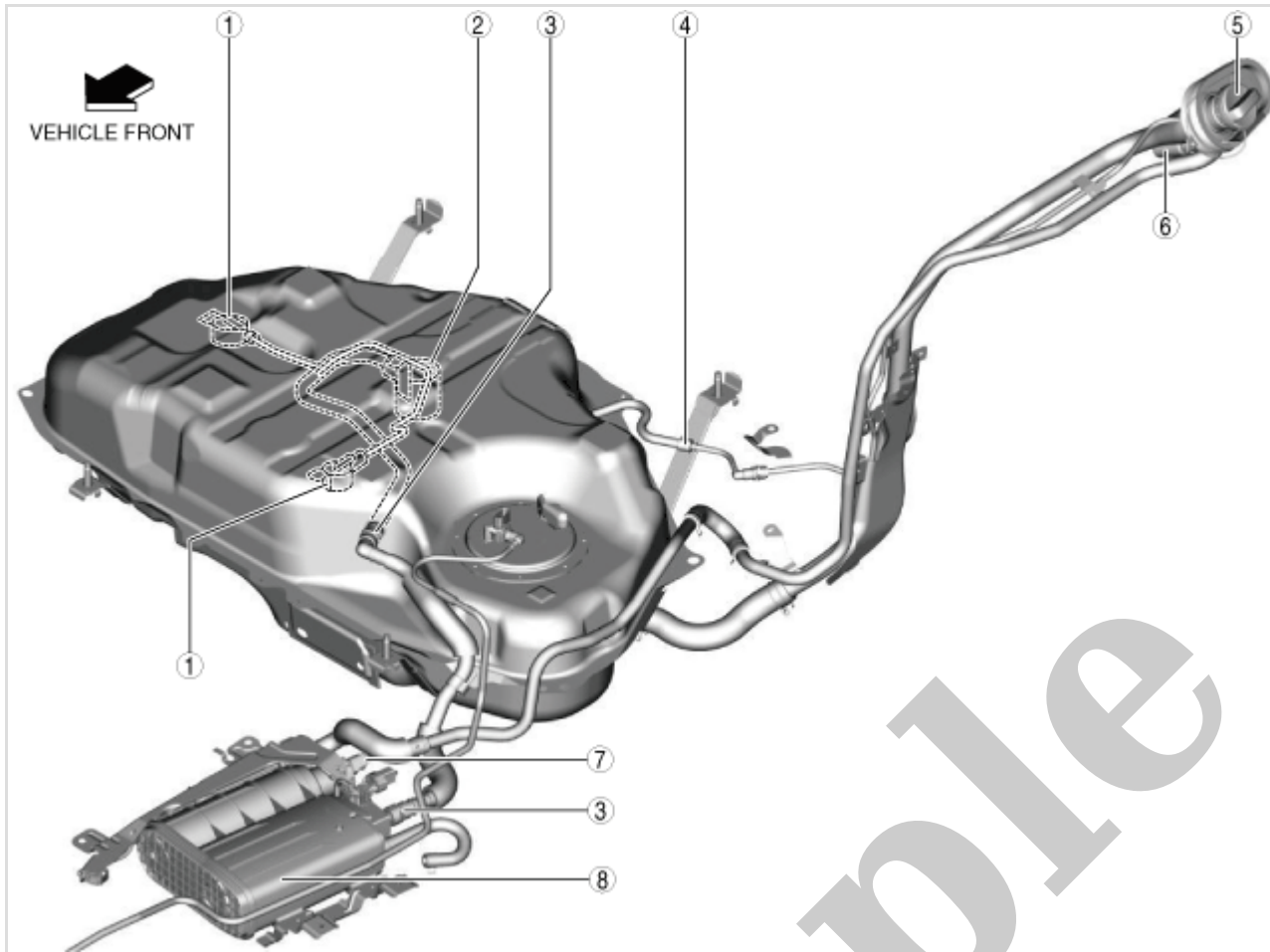


Your Ultimate Source for OEM Repair Manuals

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 MX-5 / Miata OEM Service and Repair Workshop Manual

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1	Rollover valve (See ROLLOVER VALVE REMOVAL/INSTALLATION [SKYACTIV-G 2.5T].) (See ROLLOVER VALVE INSPECTION [SKYACTIV-G 2.5T].)
2	Fuel shut-off valve (See FUEL SHUT-OFF VALVE REMOVAL/INSTALLATION [SKYACTIV-G 2.5T].) (See FUEL SHUT-OFF VALVE INSPECTION [SKYACTIV-G 2.5T].)
3	Quick release connector (See QUICK RELEASE CONNECTOR (EMISSION SYSTEM) REMOVAL/INSTALLATION [SKYACTIV-G 2.5T].)
4	Check valve (See CHECK VALVE (EMISSION SYSTEM) REMOVAL/INSTALLATION [SKYACTIV-G 2.5T].) (See CHECK VALVE (EMISSION SYSTEM) INSPECTION [SKYACTIV-G 2.5T].)
5	Fuel-filler cap (See FUEL-FILLER PIPE REMOVAL/INSTALLATION [SKYACTIV-G 2.5T].) (See FUEL-FILLER CAP INSPECTION [SKYACTIV-G 2.5T].)
6	Plug (See FUEL-FILLER PIPE REMOVAL/INSTALLATION [SKYACTIV-G 2.5T].)
7	CV solenoid valve (See CANISTER VENT (CV) SOLENOID VALVE REMOVAL/INSTALLATION [SKYACTIV-G 2.5T].) (See CANISTER VENT (CV) SOLENOID VALVE INSPECTION [SKYACTIV-G 2.5T].)
8	Charcoal canister (See CHARCOAL CANISTER REMOVAL/INSTALLATION [SKYACTIV-G 2.5T].) (See CHARCOAL CANISTER INSPECTION [SKYACTIV-G 2.5T].)

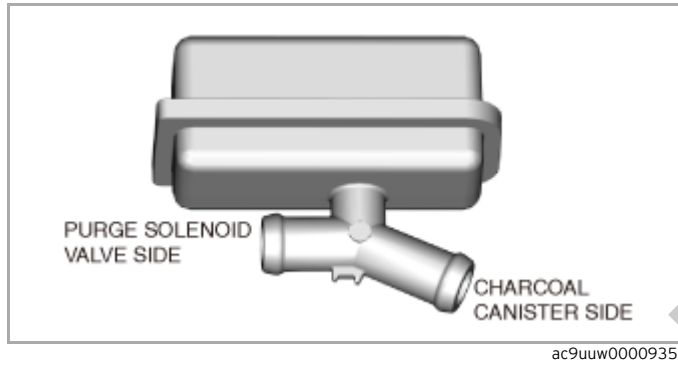
AWD

CATCH TANK INSPECTION [SKYACTIV-G 2.5T]

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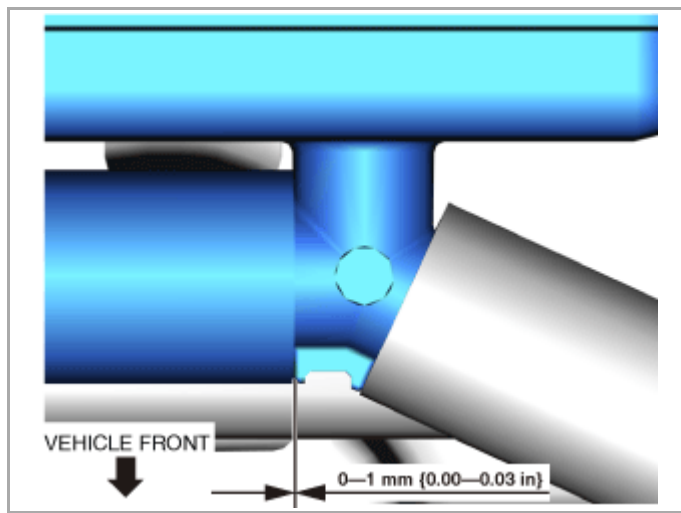
1.Plug the purge solenoid valve side into the catch tank.



2.Inspect for air leakage when blowing air using your mouth into the charcoal canister side.

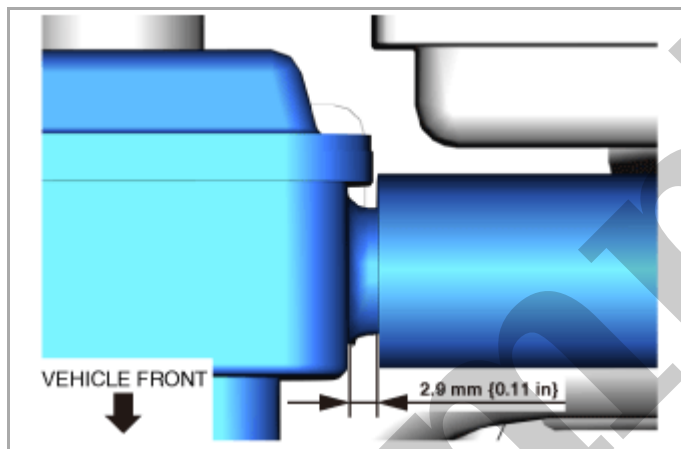
- If there is air leakage, replace the catch tank. (See [PURGE SOLENOID VALVE REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\]](#).)

Catch tank side



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Purge solenoid valve side



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Evaporative Hose No.3 Installation Note

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


Purge solenoid valve side

QUICK RELEASE CONNECTOR (EMISSION SYSTEM) REMOVAL/INSTALLATION [SKYACTIV-G 2.5T]

SM2897582

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Special Service Tool (SST)

49 N013 103A	
Remover	
(Part of 49 N013 1A0D) [U.S.A., Canada and Israel]	

Oil and Chemical Type

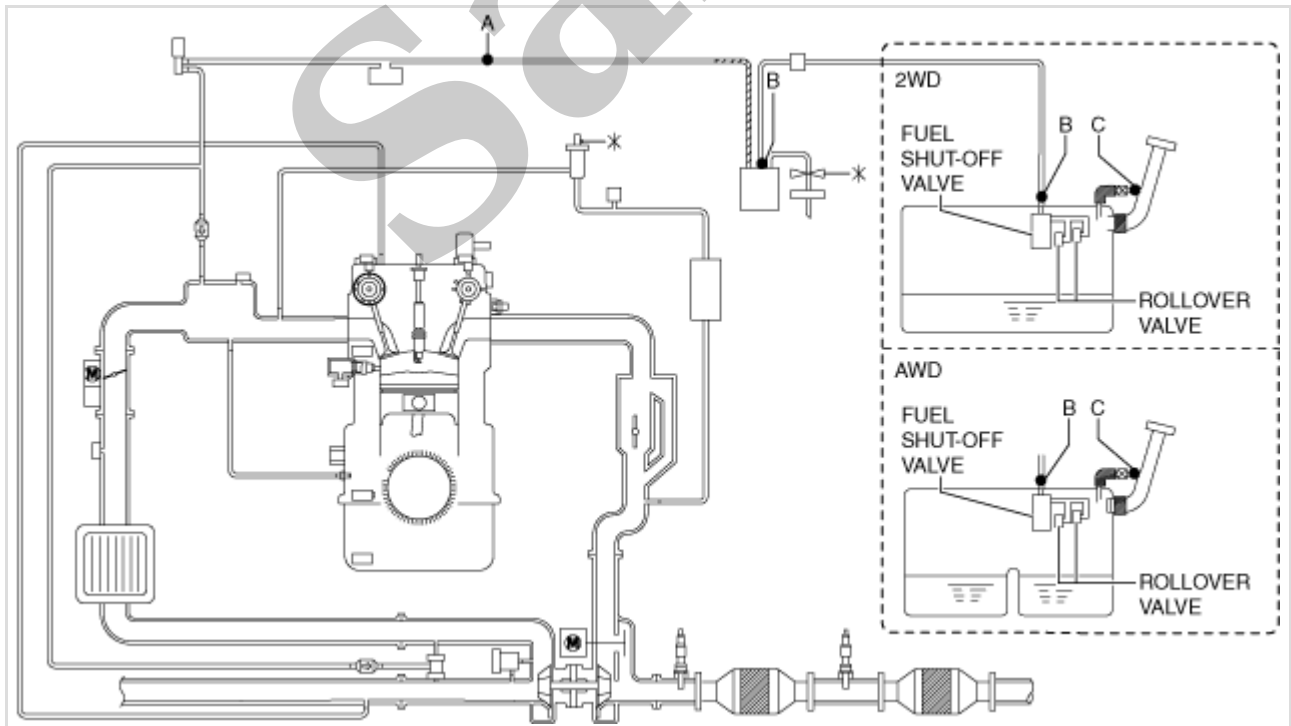
Engine oil
Type: Recommended oil

Quick Release Connector Type and Position

Caution

- Verify the type and location, and install/remove properly.

U.S.A., Canada and Israel



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Except U.S.A., Canada and Israel

3. Cover the disconnected quick release connector and fuel pipe with vinyl sheeting or a similar material to prevent it from getting scratched or dirty.

Type A Installation

Note

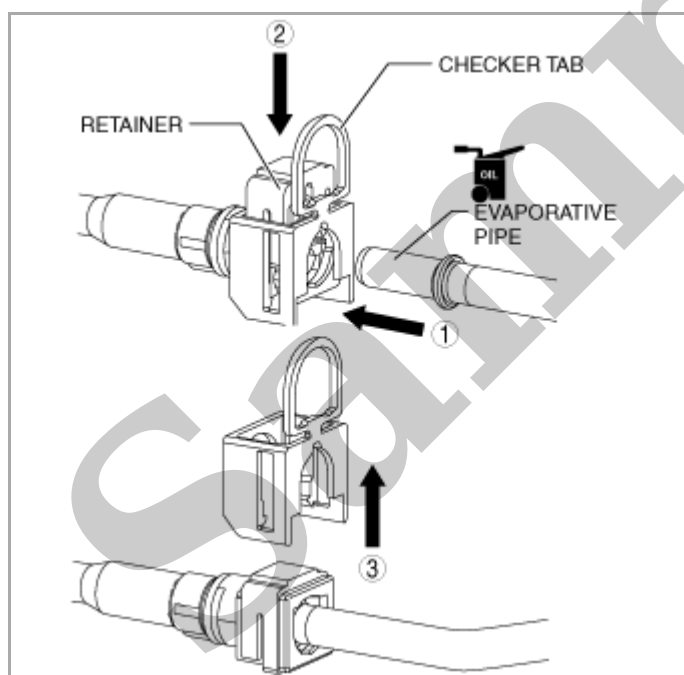
- If the quick release connector O-ring is damaged or has slipped, replace the evaporative hose.
- A checker tab is integrated with the quick release connector for new evaporative hoses. Remove the checker tab from the quick release connector after the connector is completely engaged with the evaporative pipe.

1. Inspect the evaporative hose and evaporative pipe sealing surface for damage and deformation.

- If there is any malfunction, replace it with a new one.

2. Apply a small amount of clean engine oil to the sealing surface of the evaporative pipe.

3. Install the quick release connector.



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- Insert the evaporative pipe straight to the end of the quick release connector.
- Push down the retainer using a finger.
 - If the retainer cannot be pushed down, push the evaporative pipe further to the quick release connector.

4. Lightly pull and push the quick release connector a few times by hand, and then verify that it is connected securely.

Type B and Type C Installation

Note

- If the quick release connector O-ring is damaged or has slipped, replace the piping component.

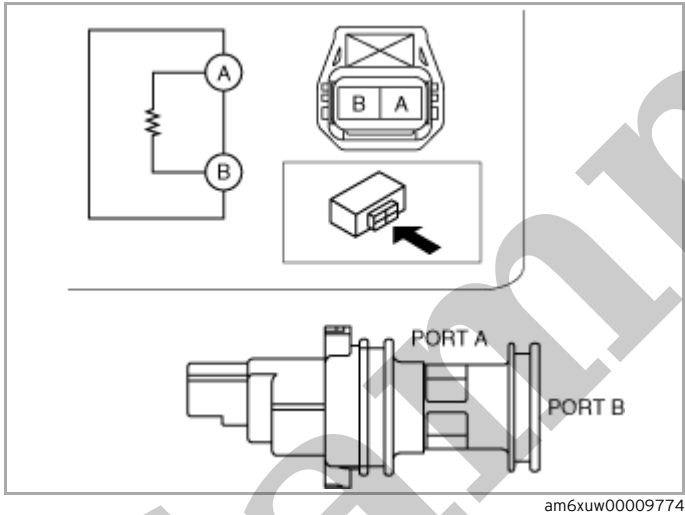
CANISTER VENT (CV) SOLENOID VALVE INSPECTION [SKYACTIV-G 2.5T]

SM2897586

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Airflow Inspection

- 1.Disconnect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))
- 2.Remove the CV solenoid valve. (See [CANISTER VENT \(CV\) SOLENOID VALVE REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\].](#))
- 3.Inspect airflow between the ports under the following conditions.



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

- If not as specified, replace the CV solenoid valve. (See [CANISTER VENT \(CV\) SOLENOID VALVE REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\].](#))
- Should assume the voltage 12V (D.C.).
- Terminals A and B is nonpolar.

1	PCV hose (See PCV Hose Installation Note.)
2	Intake manifold stay
3	Oil separator
4	Retainer (See Retainer Removal Note.) (See Retainer Installation Note.)
5	PCV valve

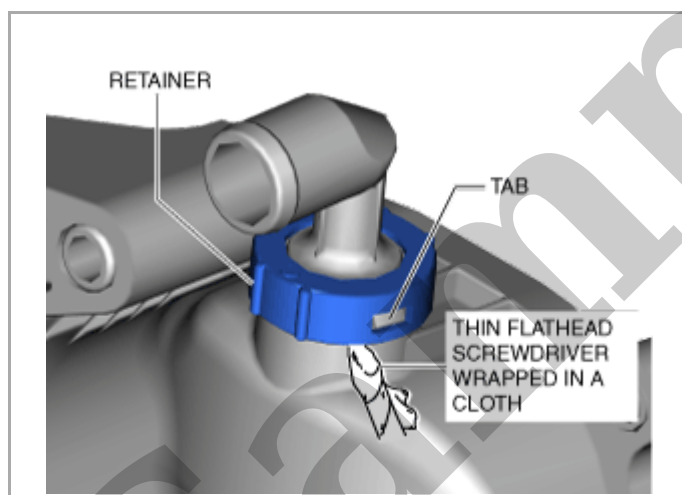
5.Install in the reverse order of removal.

Retainer Removal Note

Caution

- If the oil separator or its tab is damaged, blowby gas leakage may occur. Always perform the service according to the following procedures.

1.Insert a thin flathead screwdriver wrapped in a cloth into the gaps between the retainer and the oil separator.



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2.Remove the retainer while spreading the side surface of the retainer so that the tab is not damaged.

Retainer Installation Note

Caution

- If the removed retainer is reused, airtightness may be decreased and blowby gas leakage may occur. Always install a new retainer to prevent a leakage.

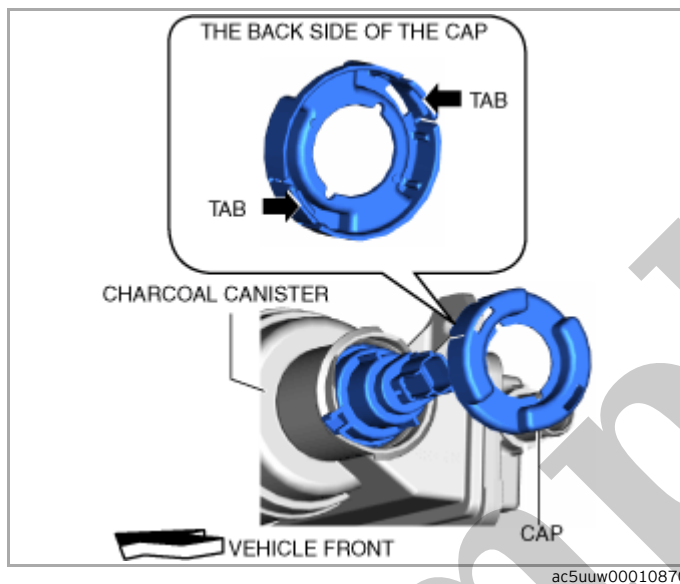
1.Install the retainer with the alignment mark positioned as shown in the figure.

3	CV solenoid valve (See CV solenoid valve removal note.) (See CV solenoid valve installation note.)
4	O-ring

Cap removal note

Note

- The cap has two tabs that clip onto the canister.



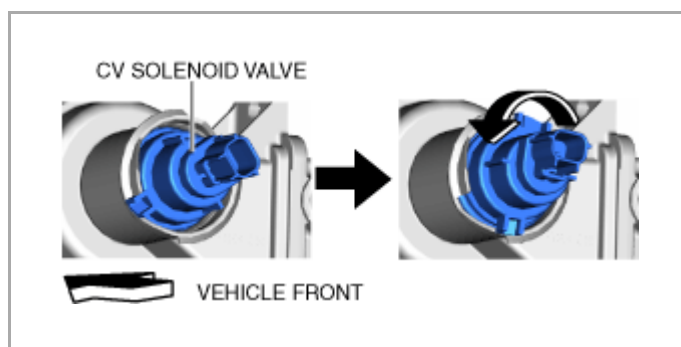
1. Unclip tabs then pull out the cap.

CV solenoid valve removal note

Caution

- Seal will be tight. Be careful not to damage the CV solenoid valve when removing the CV solenoid valve.

1. Turn the CV solenoid valve counter-clockwise.



2. Pull the CV solenoid valve straight out to remove.