

2012 - Mazda6 - Engine

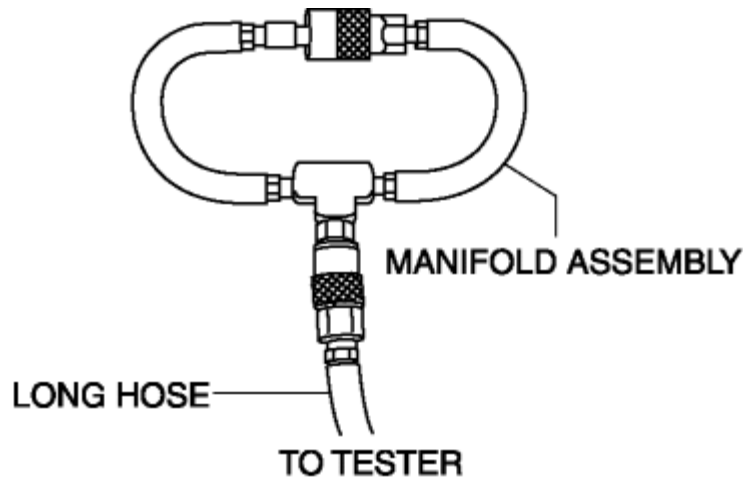
FUEL-FILLER CAP INSPECTION [MZI 3.7 V6]

Leakage Inspection

1. Perform the following **SST** (Evaporative Emission System Tester 134-01049A) self-test:

NOTE:

- If the tester does not work correctly during self-test, refer to the tester operators manual for more detailed procedures.
- a. Verify that the gas cylinder valve is closed and the control valve located on the tester is in the TEST position. All tester displays should be off at this time.
 - b. Connect the long hose (part of **SST**) to the tester.



- c. Connect the manifold assembly (part of **SST**) to the long hose as shown.
- d. Open the gas cylinder valve and verify the gas cylinder regulator left gauge reads **69—82 kPa { 0.71—0.83 kgf/ cm², 10—12 psi}** (preset at factory).
 - If not, refer to the tester operators manual to contact tester manufacturer.
- e. Press the ON/OFF switch to turn on the **SST** and make sure the left display reads **0.0**.
- f. Turn the control valve on the tester to the FILL position.
- g. Verify the left display reading is **within 13.9 to 14.0** in of water.
 - If not, adjust the pressure using the regulator knob located on the right side of the tester.
- h. Turn the control valve to TEST position and press the START switch.

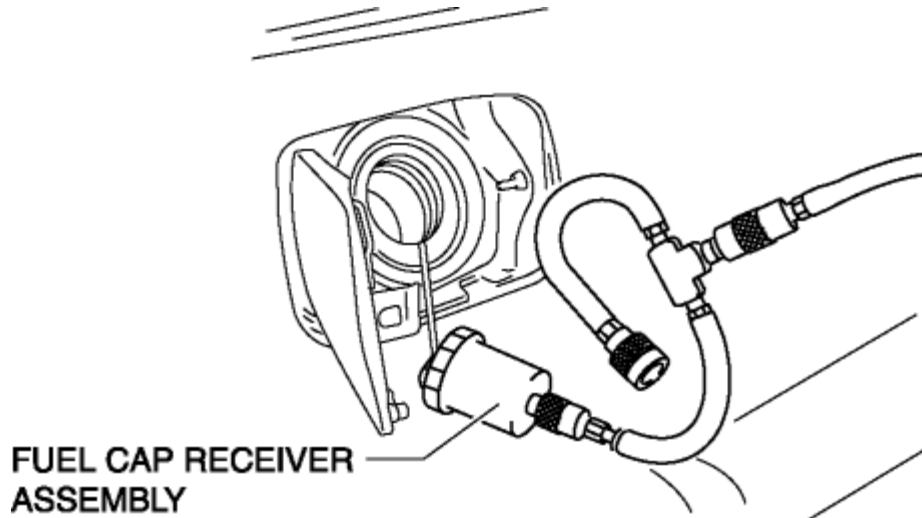
i. After the **2-min** countdown (left display) is completed, the right display shows the total pressure loss for that period. A **0.5** in of water loss is acceptable on the self-test.

- If the loss is **more than 0.5** in of water, do one or more self-test. If the failed test repeats, check for leak using the ultrasonic leak detector (part of **SST**).

2. Press the RESET switch to set the left display reading to **0.0**.

3. Connect the fuel cap receiver assembly (part of **SST**) to the manifold assembly and fuel-filler cap from the vehicle.

- 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 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 leakage. 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.

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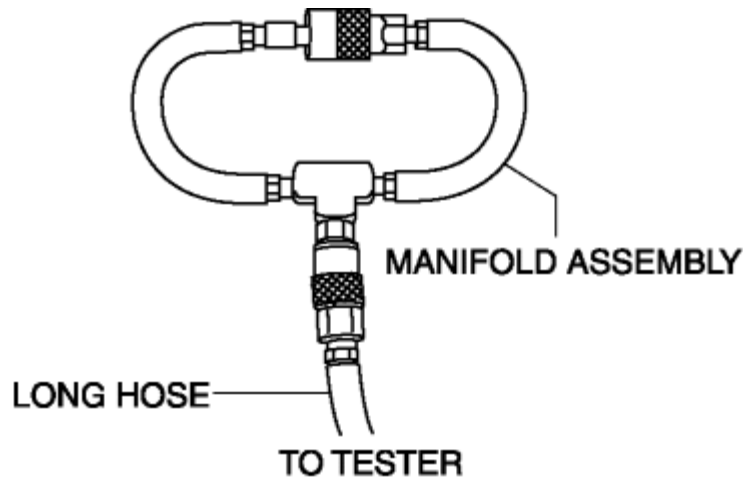
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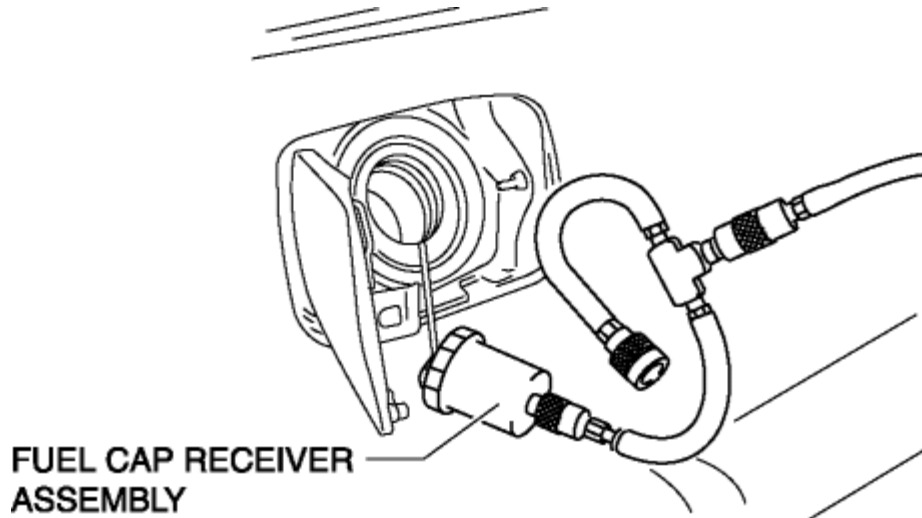
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