2012 - Mazda6 - Engine

FUEL-FILLER CAP INSPECTION [MZR 2.5]

Leakage Inspection

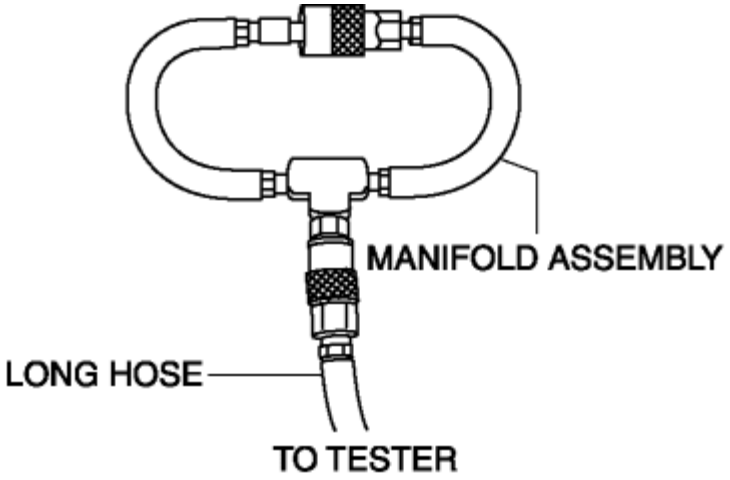
1. Perform the following **SST** (Evaporative Emission System Tester 134-01049A) self-test:

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/ cm^2, 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.

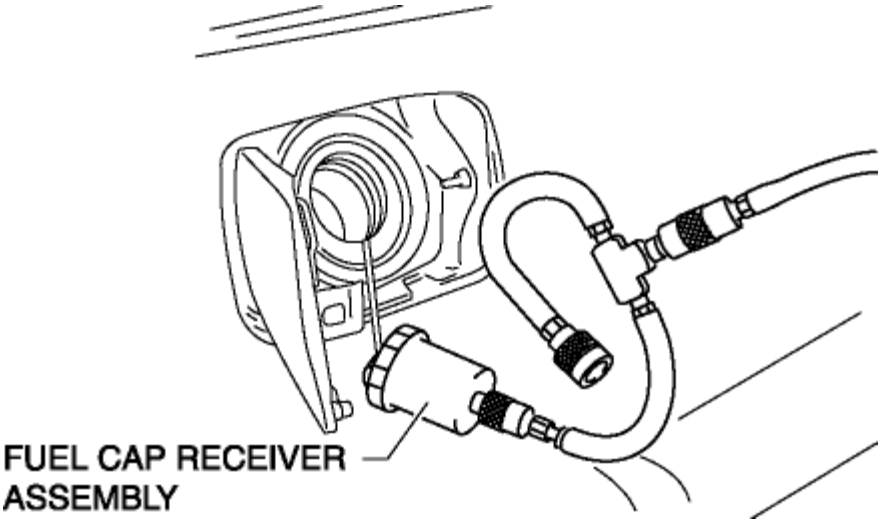
i. After the **2-min** countdown (left display) is completed, the right display shows the total pressure loss for that period. A **0.5** in of water loss is acceptable on the self-test.

- 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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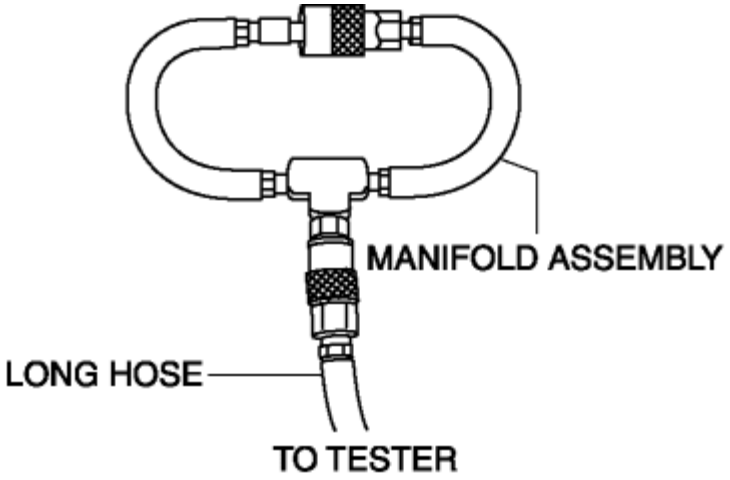

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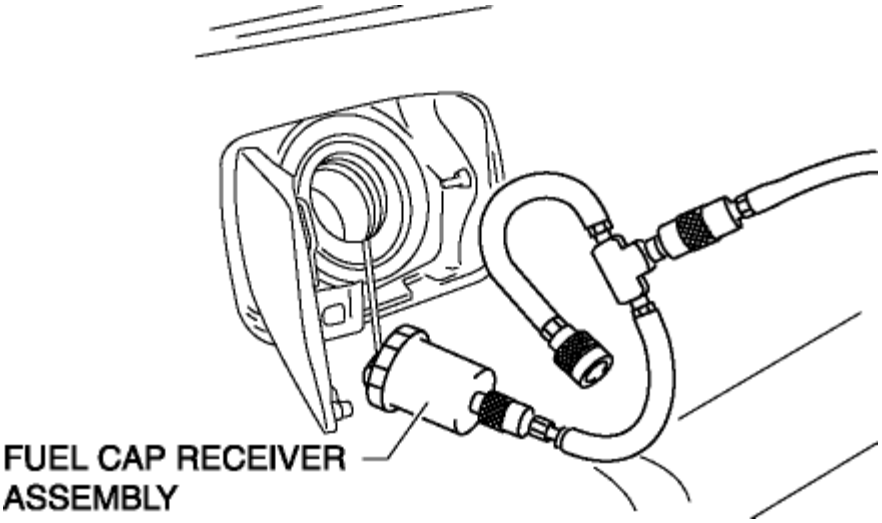

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