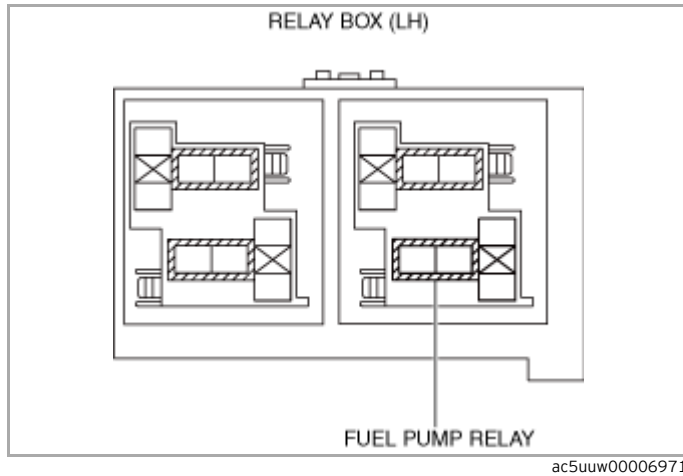


# Your Ultimate Source for OEM Repair Manuals

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 2 / Demio - sedan OEM Service and Repair Workshop Manual

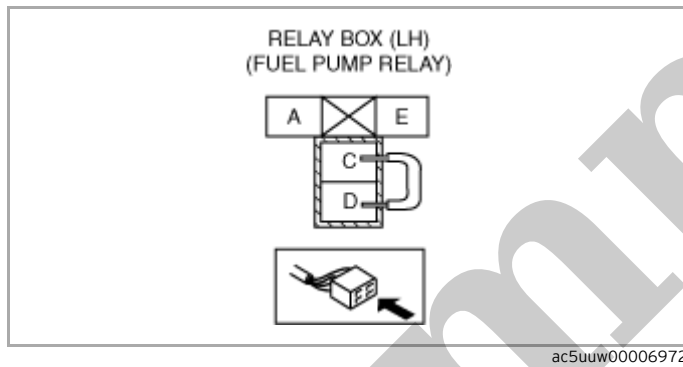
[Go to manual page](#)



### Caution

- Short the specified terminals because shorting the wrong terminal of the relay box (LH) may cause malfunctions.

11. Using a jumper wire, short fuel pump relay terminals C and D in the relay box (LH).



12. Connect the negative battery terminal and operate the fuel pump. (See **NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.**)

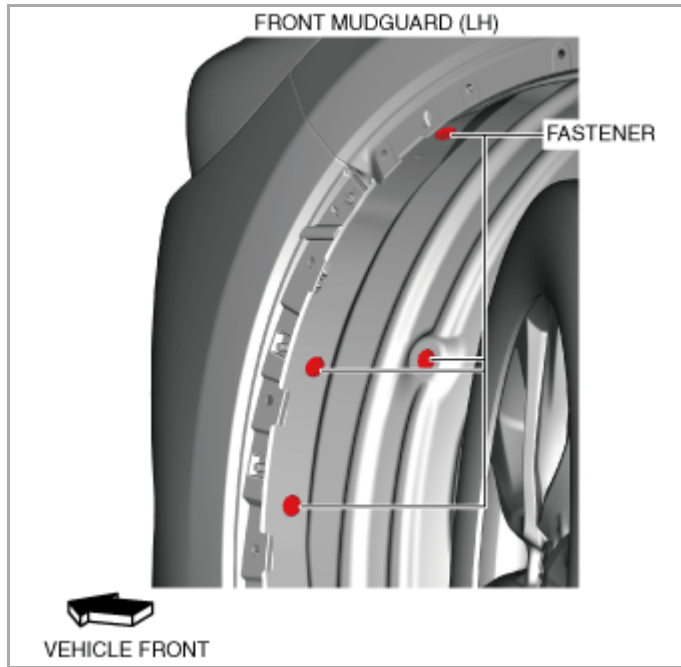
13. Verify that there is no fuel leakage from the serviced parts.

### Standard

There shall be no leakage after 5 min.

14. In the case of fuel leakage, replace the following components and then recheck using the fuel leakage checking procedure.

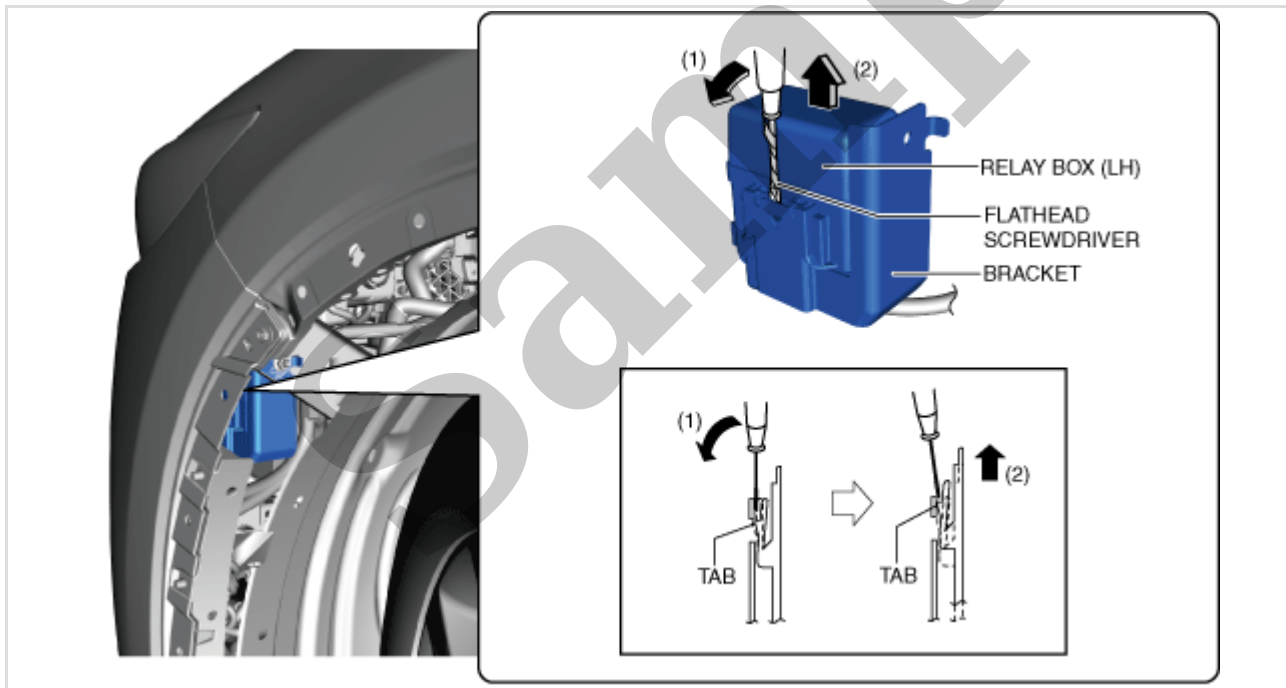
- If there is leakage, replace the fuel hoses and clips.
- If there is damage on the seal on the fuel pipe side, replace the fuel pipe.



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7. Partially peel back the front mud guard (LH) to a position allowing removal of the relay box (LH).

8. Insert a tape-wrapped flathead screwdriver into the position shown in the figure.



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9. Move the tape-wrapped flathead screwdriver in the direction of arrow (1) shown in the figure and lift the relay box (LH) in the direction of arrow (2) to detach the tab of the relay box (LH) from the bracket.

10. Remove the fuel pump relay.

# FUEL TANK INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)]

SM2897489

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## Warning

- Highly pressurized fuel may spray out if the fuel line is cut. Due to the following dangers occurring with a fuel spray, always complete the “Fuel Line Safety Procedure” to prevent the fuel from spraying.
  - Fuel may cause irritation if it comes in contact with skin and eyes.
  - If fuel ignites and causes a fire, it may lead to serious injury or death, and damage to property and facilities.
- A person charged with static electricity could cause a fire or explosion, resulting in death or serious injury. Before performing work on the fuel system, discharge static electricity by touching the vehicle body.

## Note

- The rollover valve and the fuel shut-off valve (built into the fuel tank) and also fuel tank leakage are inspected in this inspection.

## 2WD

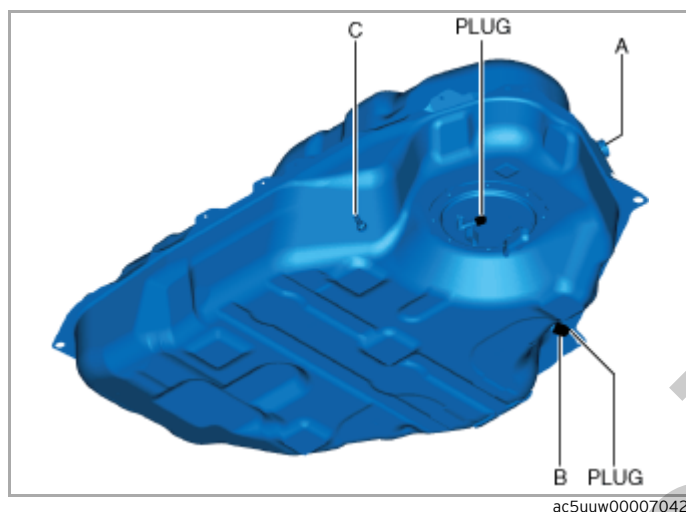
1. Level the vehicle.
2. Complete the “BEFORE SERVICE PRECAUTION”. (See [BEFORE SERVICE PRECAUTION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#).)
3. Drain the fuel. (See [FUEL DRAINING PROCEDURE \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#).)
4. Remove the rear seat cushion. (See [REAR SEAT CUSHION REMOVAL/INSTALLATION](#).)
5. Remove the service hole cover.



- If it cannot be verified, replace the fuel tank. (See [FUEL TANK REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#))

18. Turn the fuel tank upside down.

19. Apply pressure of 5.9 kPa {44 mmHg, 1.7 inHg} to port A and wait for a while.



20. Verify that there is no change in the pressure and no air leakage from the port C.

- If there is air leakage, replace the fuel tank. (See [FUEL TANK REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#))

## AWD

1. Level the vehicle.

2. Complete the "BEFORE SERVICE PRECAUTION". (See [BEFORE SERVICE PRECAUTION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#).)

3. Drain the fuel. (See [FUEL DRAINING PROCEDURE \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#).)

4. Remove the rear seat cushion. (See [REAR SEAT CUSHION REMOVAL/INSTALLATION](#).)

5. Remove the service hole cover.

## Main side

14. Place the fuel tank in a level position.

15. Close port A and apply 5.9 kPa {44 mmHg, 1.7 inHg} of pressure to port C, and leave it in this condition momentarily.

16. Open port A and verify that the pressure decreases from 5.9 kPa {44 mmHg, 1.7 inHg}.

- If it cannot be verified, replace the fuel tank. (See [FUEL TANK REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#))

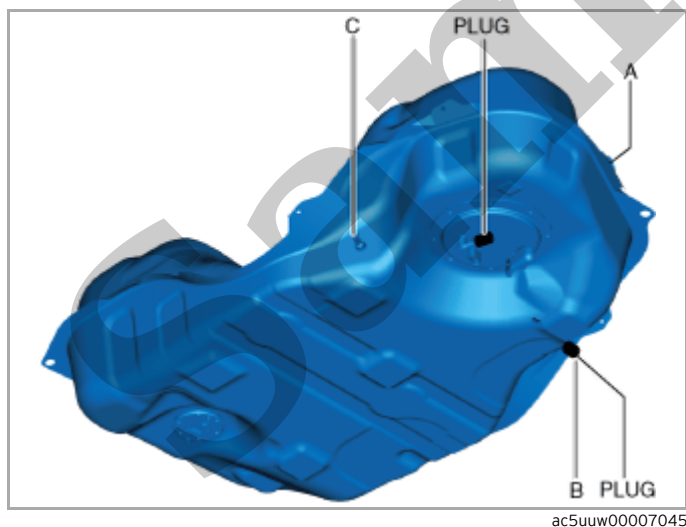
17. Close port A and apply -2.0 kPa {-15 mmHg, -0.59 inHg} vacuum to port C, and leave it in this condition momentarily.

18. Open port A and verify that the -2.0 kPa {-15 mmHg, -0.59 inHg} negative pressure condition restores to near positive pressure.

- If it cannot be verified, replace the fuel tank. (See [FUEL TANK REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#))

19. Turn the fuel tank upside down.

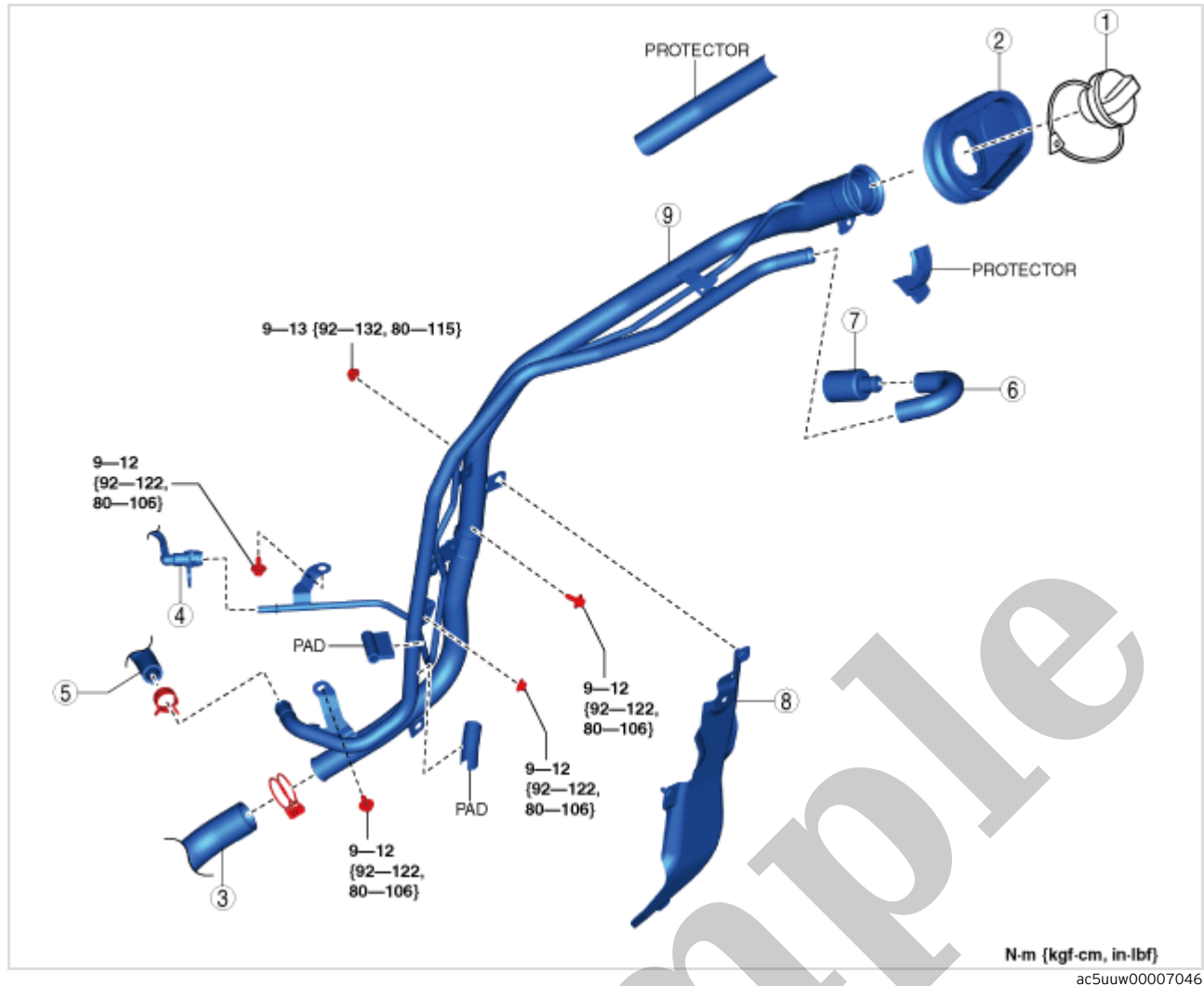
20. Apply pressure of 5.9 kPa {44 mmHg, 1.7 inHg} to port A and wait for a while.



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21. Verify that there is no change in the pressure and no air leakage from the port C.

- If there is air leakage, replace the fuel tank. (See [FUEL TANK REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#))



1	Fuel-filler cap
2	Dust cover (See <a href="#">Dust Cover Removal Note.</a> )
3	Joint hose (See <a href="#">Joint Hose Installation Note.</a> )
4	Quick release connector (See <a href="#">QUICK RELEASE CONNECTOR (FUEL SYSTEM) REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].</a> )
5	Evaporative hose No.1 (See <a href="#">Evaporative Hose No.1 Installation Note.</a> )
6	Evaporative hose No.2
7	Plug
8	Fuel-filler pipe protector
9	Fuel-filler pipe (See <a href="#">Fuel-filler Pipe Removal Note.</a> ) (See <a href="#">Fuel-filler Pipe Installation Note.</a> )

Except U.S.A., Canada and Israel

2.Temporarily tighten bolt A.

3.Completely tighten bolt B.

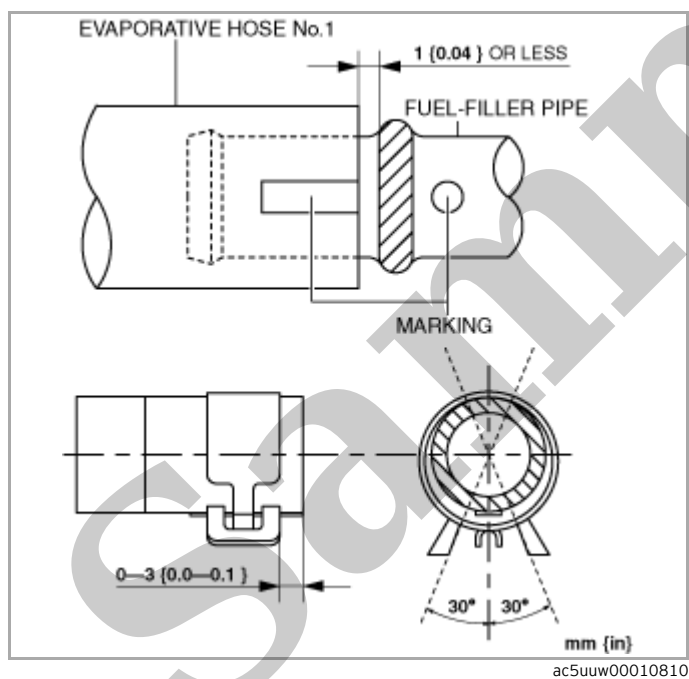
4.Completely tighten bolt C.

5.Completely tighten bolt A.

6.Completely tighten the nut.

## Evaporative Hose No.1 Installation Note

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

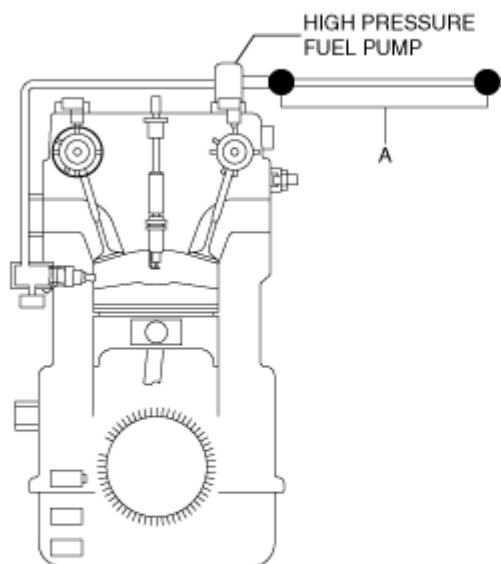


## Breather Hose Installation Note (Except U.S.A., Canada and Israel)

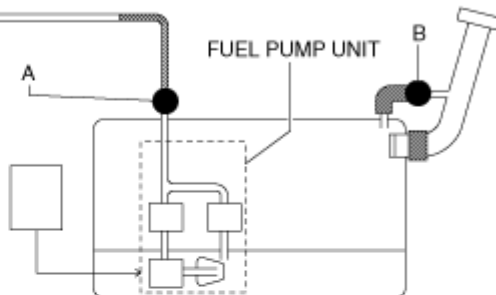
1.Install the breather hose as shown in the figure.

## ENGINE COMPARTMENT SIDE

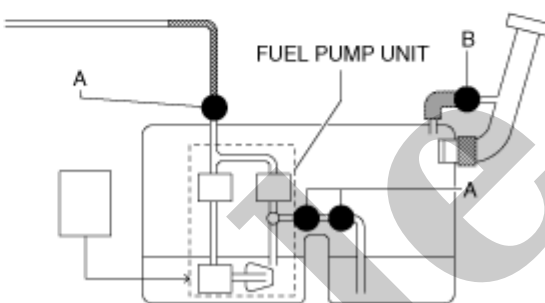
## FUEL TANK SIDE



2WD



AWD

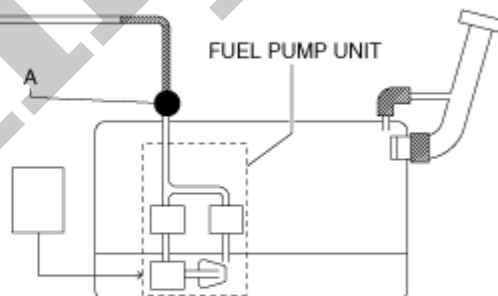
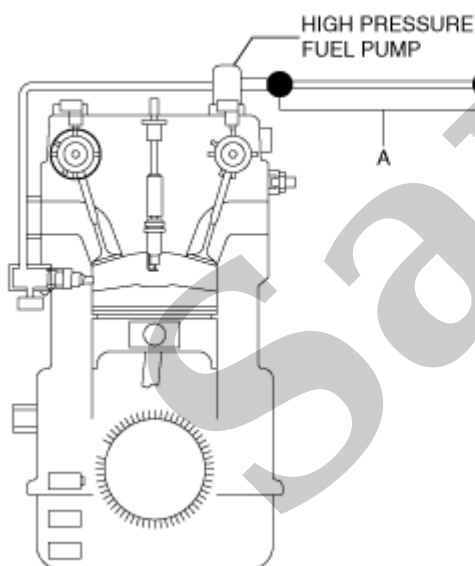


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Except U.S.A., Canada and Israel

## ENGINE COMPARTMENT SIDE

## FUEL TANK SIDE

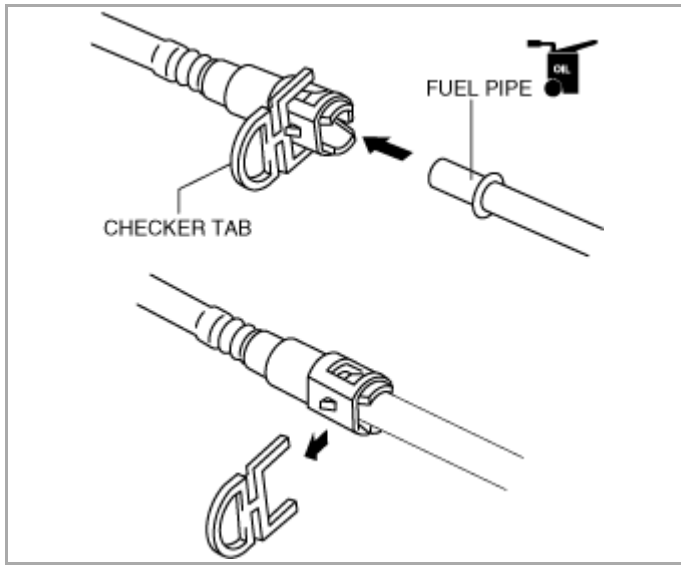


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## Type A Removal

1. Complete the "BEFORE SERVICE PRECAUTION". (See **BEFORE SERVICE PRECAUTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)]**.)

2. Move the retainer upward using a small flathead screwdriver or a similar tool.



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1. Inspect the fuel hose and fuel 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 fuel pipe.

3. Install a new retainer to the quick release connector.

4. Reconnect the fuel hose straight to the fuel pipe until a click is heard.

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

6. Complete the "AFTER SERVICE PRECAUTION". (See **AFTER SERVICE PRECAUTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)]**.)