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## **PREPARATION**

## PREPARATION PFP:00002

## **Commercial Service Tools**

EBS008QK

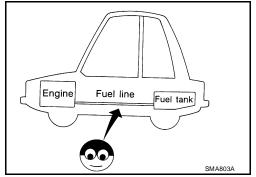
Tool name	Description
Power tool  PBIC0190E	Loosening bolts and nuts

**FUEL SYSTEM** PFP:17503

## **Checking Fuel Lines**

FBS008QL

Inspect fuel lines, filler cap and tank for improper attachment, leaks, cracks, damage, loose connections, chafing or deterioration. If necessary, repair or replace faulty parts.



### **General Precautions**

FRS008QM

#### **WARNING:**

When replacing fuel line parts, be sure to observe the following.

- Put a "CAUTION: FLAMMABLE" sign in the work area.
- Be sure to work in a well ventilated area and have a CO<sup>2</sup> fire extinguisher.
- Do not smoke while working on the fuel system. Keep open flames and sparks away from the work area.

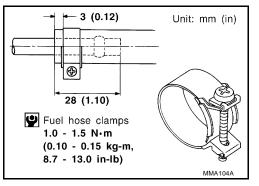
#### **CAUTION:**

- Before removing fuel line parts, carry out the following procedures:
- Put drained fuel in an explosion-proof container and put the lid on securely. Keep the container in safe area.
- Release fuel pressure from the fuel lines. Refer to EC-671, "FUEL PRESSURE RELEASE".
- Disconnect the battery ground cable.
- Always replace O-rings and clamps with new ones.
- Do not kink or twist tubes when they are being installed.
- Do not tighten hose clamps excessively to avoid damaging hoses.

Tighten high-pressure rubber hose clamp so that clamp end is 3 mm (0.12 in) from hose end.

Tightening torque specifications are the same for all rubber hose clamps.

Ensure that screw does not contact adjacent parts.



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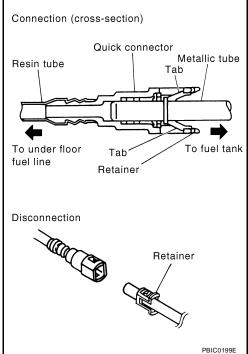
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## **FUEL SYSTEM**

- After connecting the fuel tube quick connectors, make sure the quick connectors are secure.
   Ensure that the connector and resin tube do not contact any adjacent parts.
  - After installing tubes, run engine and check for fuel leaks at connections.
- Use only a genuine NISSAN fuel filler cap as a replacement.
   If an incorrect fuel filler cap is used, the MIL may come on.
- For servicing "Evaporative Emission System" parts, refer to <u>EC-1272, "EVAPORATIVE EMISSION SYSTEM"</u>.
- For servicing "On Board Refueling Vapor Recovery (ORVR)" parts, refer to <u>EC-1278, "ON BOARD REFUELING</u> VAPOR RECOVERY (ORVR)".

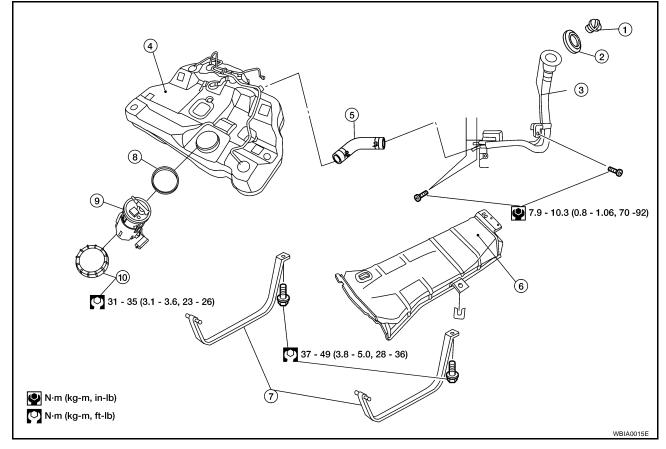


## FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY

## FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY PFP:17042

## **Removal and Installation**

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- 1. Fuel filler cap
- 4. Fuel tank
- 7. Fuel tank mounting straps
- 10 Fuel pump locking ring
- 2. Grommet
- 5. Fuel filler hose
- 3. Ring seal

- 3. Fuel filler tube
- 6. Fuel tank protector
- 9. Fuel pump assembly

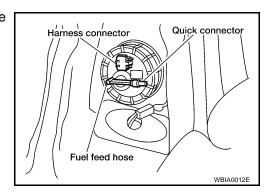
## **REMOVAL**

#### **WARNING:**

Read "General Precautions" before working on the fuel system.

Refer to  $\underline{\text{FL-3, "General Precautions"}}$ .

- 1. Unscrew the fuel filler cap to release the pressure inside the fuel tank.
- Release the fuel pressure from the fuel lines. Refer to <u>EC-671, "FUEL PRESSURE RELEASE"</u>.
- 3. Remove the rear seat bottom. Refer to <u>SE-19, "Removal and Installation"</u>.
- 4. Remove the fuel pump inspection hole cover.
- 5. Disconnect the harness connector, and fuel feed hose from the fuel pump assembly.



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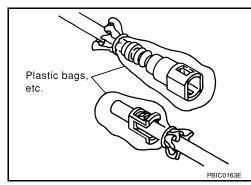
## FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY

Remove the quick connector as follows:

- Hold the sides of the connector, push in tubs and pull out the tube.
- If the connector and the tube are stuck together, push and pull several times until they start to move. Then disconnect them by pulling.

#### **CAUTION:**

- The tube can be removed when the tabs are completely depressed. Do not twist it more than necessary.
- Do not use any tools to remove the quick connector.
- Keep the resin tube away from heat. Be especially careful when welding near the tube.
- Prevent acid liquid such as battery electrolyte, etc. from getting on the resin tube.
- Do not bend or twist the tube during installation and removal.
- Only when the tube is replaced, remove the remaining retainer on the tube or fuel pump assembly.
- When the tube or fuel pump assembly is replaced, also replace the retainer with a new one (green colored retainer).
- To keep the connecting portion clean and to avoid damage and foreign materials, cover them completely with plastic bags or something similar.

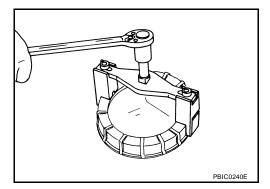


Pull

Push in tabs

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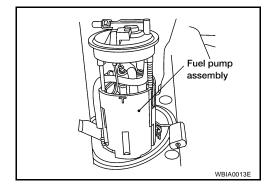
6. Using a lock ring wrench, remove the lock ring.



7. Remove the fuel pump assembly.

#### **CAUTION:**

• Do not bend the float arm during removal.



#### INSPECTION AFTER REMOVAL

Make sure the fuel pump is free from defects and foreign materials.

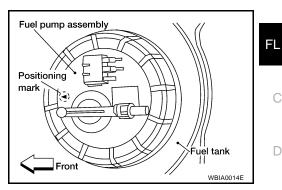


## FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY

#### **INSTALLATION**

Installation is in the reverse order of removal.

Install the fuel pump assembly with the front mark (arrow) facing the front of the vehicle.



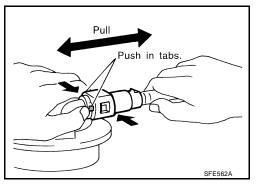
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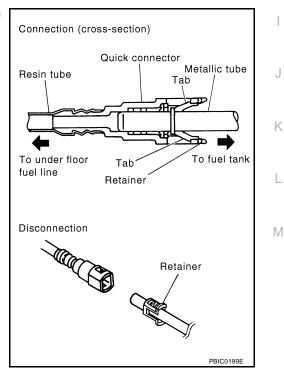
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- Connect the quick connector as follows:
- 1. Check the connection for damage or any foreign materials.
- 2. Align the connector with the tube, then insert the connector straight into the tube until a click is heard.
- 3. Pull the tube and the connector to make sure they are securely connected.



Visually confirm that the two retainer tabs are connected to the connector.



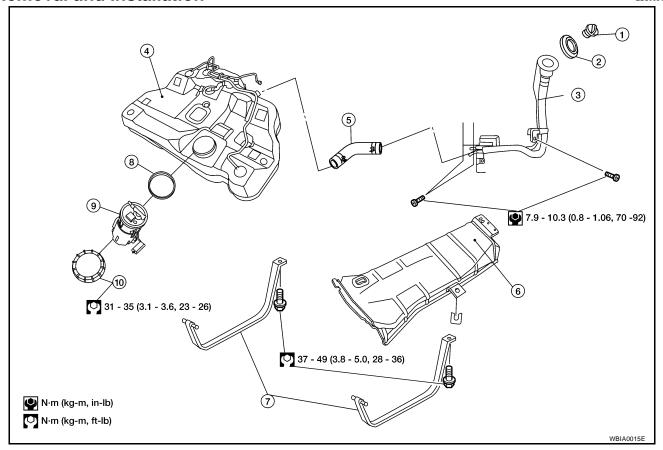
## INSPECTION AFTER INSTALLATION

Start the engine and let it idle and make sure there are no fuel leaks at the fuel system connections.

FUEL TANK
PFP:17202

## **Removal and Installation**

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- 1. Fuel filler cap
- 4. Fuel tank
- 7. Fuel tank mounting straps
- Fuel pump locking ring
- 2. Grommet
- 5. Fuel filler hose
- 8. Ring seal

- 3. Fuel filler tube
- 6. Fuel tank protector
- 9. Fuel pump assembly

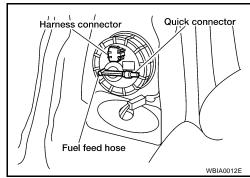
## **REMOVAL**

#### WARNING:

Read "General Precautions" before working on the fuel system.

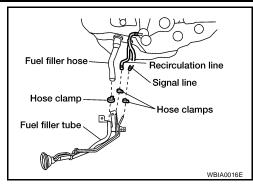
Refer to FL-3, "General Precautions".

- 1. Release fuel pressure from fuel line, Refer to <u>EC-51, "FUEL PRESSURE RELEASE"</u> (QR25DE), <u>EC-671, "FUEL PRESSURE RELEASE"</u> (VQ35DE).
- 2. Open the fuel filler cap to release the pressure inside the fuel tank.
- 3. Remove rear seat bottom. Refer to <u>SE-19</u>, "Removal and Installation".
- Remove the inspection hole cover, harness connector and fuel feed hose quick connector. Refer to <u>FL-5</u>, "Removal and Installation".
- 5. Remove the center exhaust tube, with muffler(s). Refer to <u>EX-6</u>, "Removal and Installation".



### **FUEL TANK**

- 6. Disconnect the fuel filler hose, recirculation hose and signal hose at the fuel tank side.
- 7. Disconnect the three parking brake cable mounting brackets on each cable and position the cables out of the way. Refer to PB-2, "Components".
- 8. Remove the fuel tank protector.
- 9. Disconnect the fuel tank mounting straps while supporting the fuel tank.
- 10. Remove the fuel tank.



#### **INSTALLATION**

- 1. Installation is in the reverse order of removal.
  - Before tightening the fuel tank mounting straps, temporarily install the filler hose, recirculation hose, and signal hose. Tighten all fasteners to specification.
  - To connect the quick connector, refer to FL-5, "Removal and Installation".

## **Inspection After Installation**

Run the engine and check for fuel leaks at the fuel system tube and hose connections.

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# **SERVICE DATA AND SPECIFICATIONS (SDS)**

SERVICE DATA AND SPECIFICATIONS (SDS)  Standard and Limit QR25DE  PFP:00030		
VQ35DE		
Fuel tank capacity	75.5 $\ell$ (20 gal)	