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SECTION

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FUEL SYSTEM

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PRECAUTIONS

PRECAUTIONS

Precautions for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PREPARATION

PREPARATION

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Special Service Tools

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The actual shapes of the Kent-Moore tools may differ from those of the special tools illustrated here.

Tool number (Kent-Moore No.) Tool name		Description	FL
— (J-46536) Fuel tank lock ring tool		Removing and installing fuel tank lock ring	C
	LBIA0398E		Е
Commercial Service Tool		EBS00L3F	
Tool name		Description	F
Power tool		Loosening bolts and nuts	Г
			G
	PBIC0190E		Н

FUEL SYSTEM

Checking Fuel Lines

Inspect fuel lines, fuel filler cap and fuel tank for improper attachment, leaks, cracks, damage, loose connections, chafing or deterioration.

If necessary, repair or replace damaged parts.

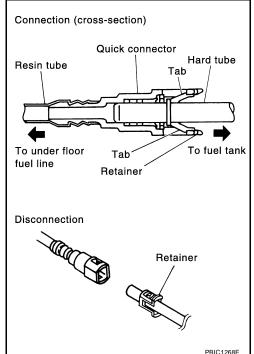
Engine Fuel line Fuel tank SMA803A

General Precautions

WARNING:

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

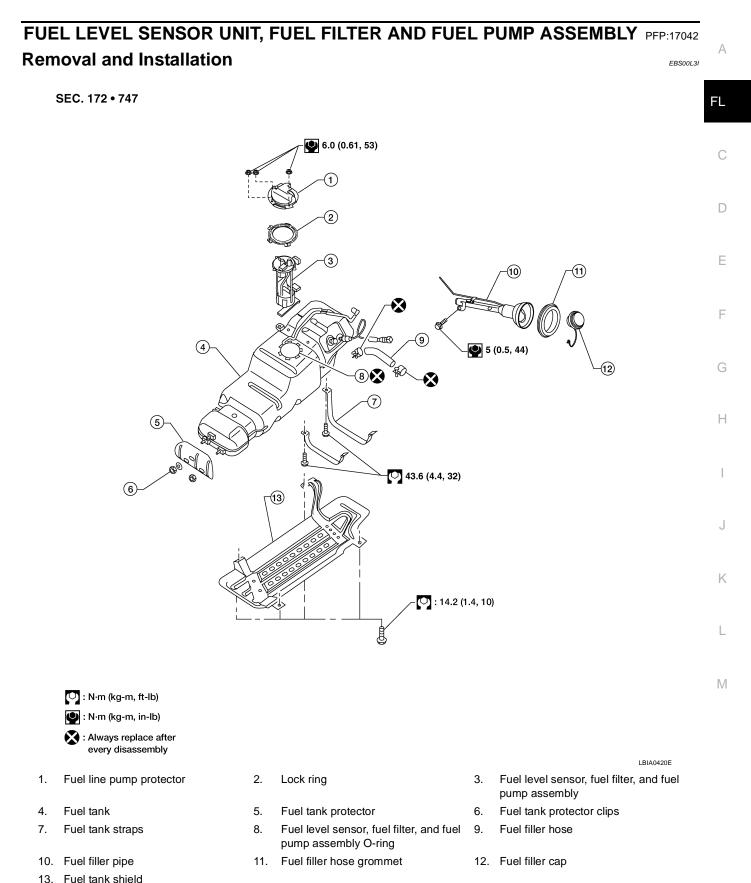
- Put a "CAUTION: FLAMMABLE" sign in the workshop.
- Be sure to work in a well ventilated area and furnish workshop with a CO2 fire extinguisher.
- Do not smoke while servicing fuel system. Keep open flames and sparks away from the work area. **CAUTION:**
- Before removing fuel line parts, carry out 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-81, "FUEL PRESSURE RELEASE" .
- Disconnect the battery negative terminal.
- Always replace O-rings and clamps with new ones.
- Do not kink or twist hoses when they are being installed.
- 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, make sure there is no fuel leakage at connections in the following steps.
- Apply fuel pressure to fuel lines with turning ignition switch ON (with engine stopped). Then check for fuel leaks at connections.
- Start the engine and rev it up 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 EC-25, "EVAPORATIVE EMISSION SYSTEM" .
- For servicing "On Board Refueling Vapor Recovery (ORVR)" parts, refer to EC-32, "ON BOARD REFUELING VAPOR RECOVERY (ORVR)"



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FBS001.3G

EBS00L3H



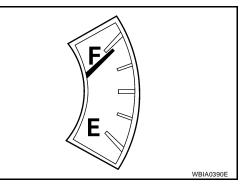
REMOVAL

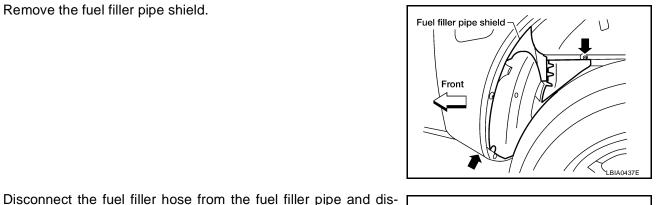
WARNING:

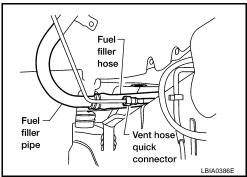
d.

Follow the "General Precautions" before working on the fuel system. Refer to FL-4, "General Precautions" .

- Remove the fuel filler cap to release the pressure from inside the fuel tank. 1.
- 2. Check the fuel level on level gauge. If the fuel gauge indicates more than the level as shown (full or almost full), drain the fuel from the fuel tank until the fuel gauge indicates the level as shown, or less.
 - If the fuel pump does not operate, use the following procedure to drain the fuel to the specified level.
- Insert a suitable hose of less than 15 mm (0.59 in) diameter into a. the fuel filler pipe through the fuel filler opening to drain the fuel from fuel filler pipe.
- Remove the LH rear wheel and tire. Refer to WT-7, "Rotation" b.
- Remove the fuel filler pipe shield. c.





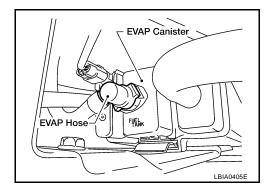


e. Insert a suitable hose into the fuel tank through the fuel filler hose to drain the fuel from the fuel tank.

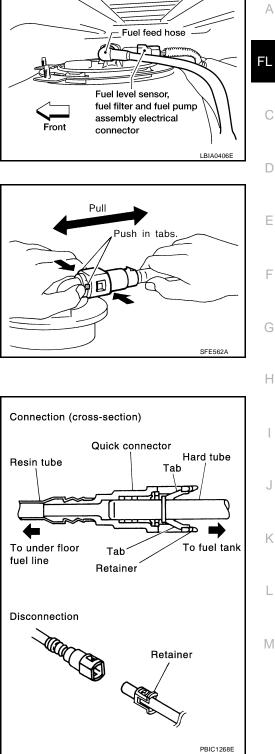
- 3. Release the fuel pressure from the fuel lines. Refer to EC-81, "FUEL PRESSURE RELEASE" .
- 4. Disconnect the battery negative terminal.

connect the vent hose quick connector.

- 5. Remove the three nuts and remove fuel line pump protector.
- Disconnect the EVAP hose at the EVAP canister. 6.



7. Disconnect the fuel level sensor, fuel filter, and fuel pump assembly electrical connector and the fuel feed hose.



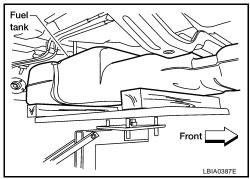
Disconnect the quick connector as follows:

- Hold the sides of the connector, push in tabs 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.



- The quick connector can be disconnected when the tabs are completely depressed. Do not twist the quick connector more than necessary.
- Do not use any tools to disconnect the quick connector.
- Keep the resin tube away from heat. Be especially careful when welding near the tube.
- Prevent any acid liquids such as battery electrolyte, from getting on the resin tube.
- Do not bend or twist the resin tube during connection.
- Do not remove the remaining retainer on the hard tube (or the equivalent) except when the resin tube or the retainer is replaced.
- When the resin tube or hard tube, or the equivalent, is replaced, also replace the retainer with a new one (white colored retainer).

- To keep the quick connector clean and to avoid damage and contamination from foreign materials, cover the quick connector with plastic bags or suitable material as shown.
- Plastic bags, etc.
- 8. Remove the four bolts and remove the fuel tank shield using power tool.
- Remove the fuel tank strap bolts while supporting the fuel tank with a suitable lift jack.
- 10. Lower the fuel tank using a suitable lift jack and remove it from the vehicle to access the fuel level sensor, fuel filter, and fuel pump assembly.



11. Remove the lock ring using Tool as shown.

12. Remove the fuel level sensor, fuel filter, and fuel pump assembly. Remove and discard the fuel level sensor, fuel filter, and fuel pump assembly O-ring.

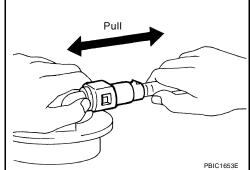
CAUTION:

- Do not bend the float arm during removal.
- Avoid impacts such as dropping when handling the components.

INSTALLATION

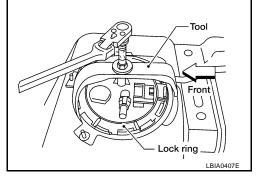
Installation is in the reverse order of removal.

- For installation, use a new fuel level sensor, fuel filter, and fuel pump assembly O-ring.
- Connect the quick connector as follows:
- Check the connection for any damage or foreign materials.
- Align the connector with the pipe, then insert the connector straight into the pipe until a click is heard.
- After connecting the quick connector, make sure that the connection is secure by checking as follows:
- Pull the tube and the connector to make sure they are securely connected.
- Visually inspect the connector to make sure the two retainer tabs are securely connected.



INSPECTION AFTER INSTALLATION

1. Turn the ignition switch ON but do not start engine, then check the fuel pipes and hose connections for leaks while applying fuel pressure to the system.



2. Start the engine and rev it above idle speed, then check that there are no fuel leaks at any of the fuel pipe and hose connections.

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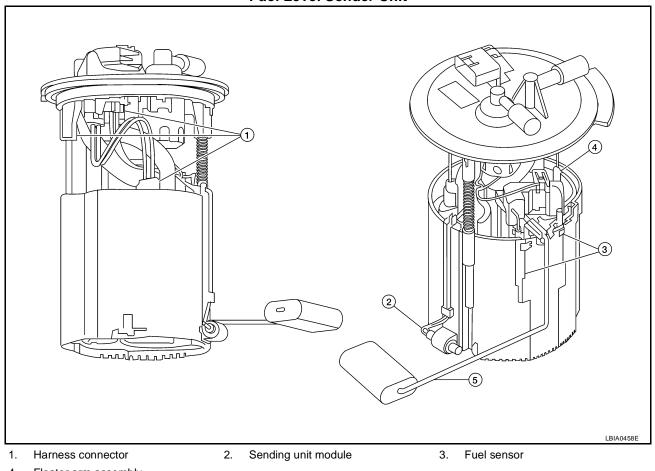
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Disassembly and Assembly

Fuel Level Sender Unit

EBS00U75



4. Floater arm assembly

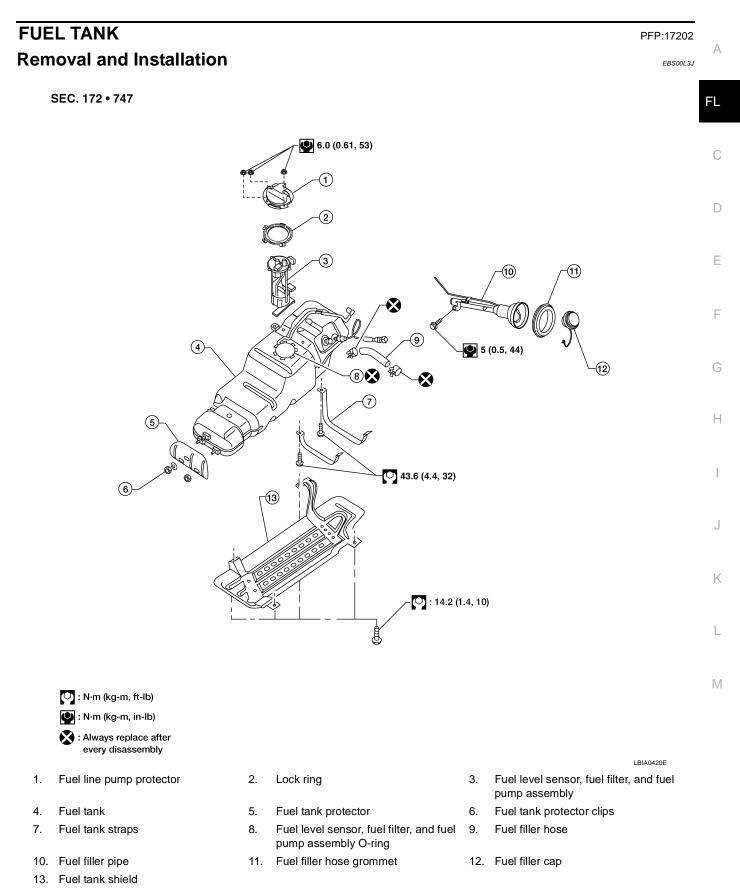
DISASSEMBLY

- 1. Disconnect the harness connectors (1) and the wire connector (4).
- 2. Remove the fuel sensor (2) from the pump assembly.
- 3. Depress the tabs (3) and remove the floater arm assembly (5).

ASSEMBLY

Assembly is the reverse order of disassembly.

FUEL TANK



Revision: August 2006

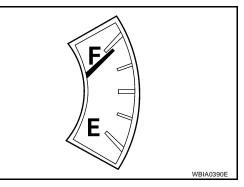
FUEL TANK

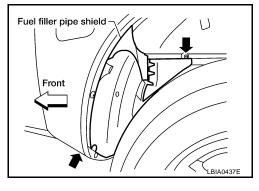
REMOVAL

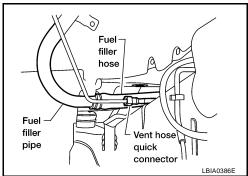
WARNING:

Follow the "General Precautions" before working on the fuel system. Refer to <u>FL-4, "General Precau-</u><u>tions"</u>.

- 1. Remove the fuel filler cap to release the pressure from inside the fuel tank.
- 2. Check the fuel level on level gauge. If the fuel gauge indicates more than the level as shown (full or almost full), drain the fuel from the fuel tank until the fuel gauge indicates the level as shown, or less.
 - If the fuel pump does not operate, use the following procedure to drain the fuel to the specified level.
- a. Insert a suitable hose of less than 15 mm (0.59 in) diameter into the fuel filler pipe through the fuel filler opening to drain the fuel from fuel filler pipe.
- b. Remove the LH rear wheel and tire. Refer to <u>WT-7, "Rotation"</u>
- c. Remove the fuel filler pipe shield.

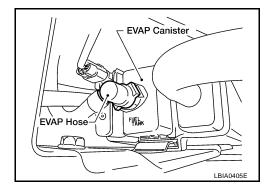






- d. Disconnect the fuel filler hose from the fuel filler pipe and disconnect the vent hose quick connector.
- e. Insert a suitable hose into the fuel tank through the fuel filler hose to drain the fuel from the fuel tank.

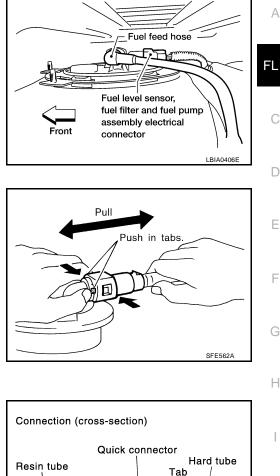
- 3. Release the fuel pressure from the fuel lines. Refer to EC-81, "FUEL PRESSURE RELEASE" .
- 4. Disconnect the battery negative terminal.
- 5. Remove the three nuts and remove fuel line pump protector.
- 6. Disconnect the EVAP hose at the EVAP canister.



7. Disconnect the fuel level sensor, fuel filter, and fuel pump assembly electrical connector, and the fuel feed hose.

Disconnect the quick connector as follows:

- Hold the sides of the connector, push in tabs 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.



fuel line

To under floor

Disconnection

Tab

Retainer

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Retainer

To fuel tank

CAUTION:

- The quick connector can be disconnected when the tabs are completely depressed. Do not twist the quick connector more than necessary.
- Do not use any tools to disconnect the quick connector.
- Keep the resin tube away from heat. Be especially careful when welding near the tube.
- Prevent any acid liquids such as battery electrolyte, from getting on the resin tube.
- Do not bend or twist the resin tube during connection.
- Do not remove the remaining retainer on the hard tube (or the equivalent) except when the resin tube or the retainer is replaced.
- When the resin tube or hard tube, or the equivalent, is replaced, also replace the retainer with a new one (white colored retainer).

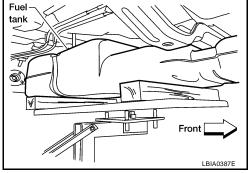


Revision: August 2006

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Revision: August 2006

- To keep the quick connector clean and to avoid damage and contamination from foreign materials, cover the quick connector with plastic bags or suitable material as shown.
 - Plastic bags, etc.
- 8. Remove the four bolts and remove the fuel tank shield using power tool.
- 9. Disconnect fuel filler hose at the fuel tank side.
- 10. Remove the fuel tank strap bolts while supporting the fuel tank with a suitable lift jack.
- 11. Lower the fuel tank using a suitable lift jack and remove it from the vehicle.



Tool

Front

C

LBIA0407

Lock ring

12. If necessary, remove the lock ring using Tool as shown.

Tool number : — (J-46536)

13. If necessary, remove the fuel level sensor, fuel filter, and fuel pump assembly. Discard the fuel level sensor, fuel filter, and fuel pump assembly O-ring.

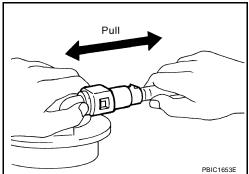
CAUTION:

- Do not bend the float arm during removal.
- Avoid impacts such as dropping when handling the components.

INSTALLATION

Installation is in the reverse order of removal.

- For installation, use a new fuel level sensor, fuel filter, and fuel pump assembly O-ring.
- Connect the quick connector as follows:
- Check the connection for any damage or foreign materials.
- Align the connector with the pipe, then insert the connector straight into the pipe until a click is heard.
- After connecting the quick connector, make sure that the connection is secure by checking as follows:
- Pull the tube and the connector to make sure they are securely connected.
- Visually inspect the connector to make sure the two retainer tabs are securely connected.



INSPECTION AFTER INSTALLATION

- 1. Turn the ignition switch ON but do not start engine, then check the fuel pipe and hose connections for A leaks while applying fuel pressure to the system.
- 2. Start the engine and rev it above idle speed, then check that there are no fuel leaks at any of the fuel pipe and hose connections.

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SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS) Standard and Limit

PFP:00030

EBS00L3K

Fuel tank capacity

105.8 ℓ (28 US gal, 23 1/4 Imp gal)