

ACCELERATOR CONTROL, FUEL & EXHAUST SYSTEMS

SECTION FE

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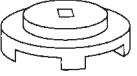
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PREPARATION

Special Service Tool

Special Service Tool

NMFE0006

Tool number Tool name	Description
KV999G0010 Fuel tank lock ring socket	 NT057

ACCELERATOR CONTROL SYSTEM

Removal and Installation

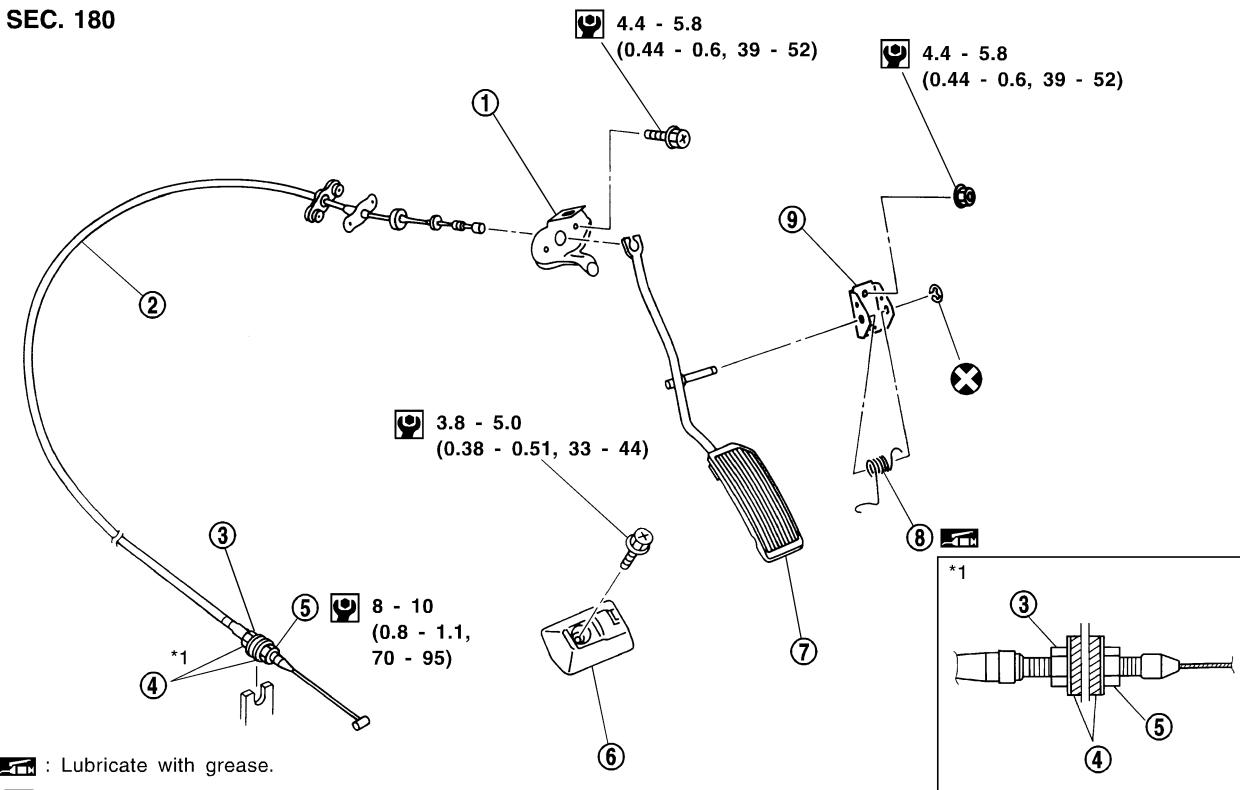
Removal and Installation

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CAUTION:

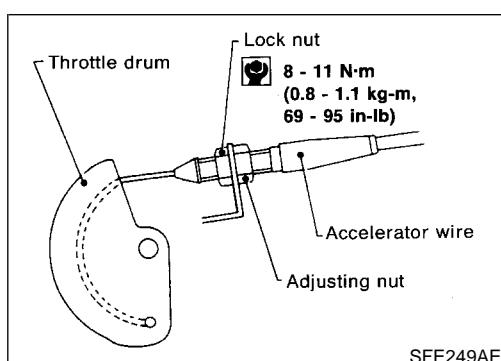
- When removing accelerator wire, make a mark to indicate lock nut's initial position.
- Check that throttle valve opens fully when accelerator pedal is fully depressed. Also check that it returns to idle position when pedal is released.
- Check accelerator control parts for improper contact with any adjacent parts.
- When connecting accelerator wire, be careful not to twist or scratch its inner wire.

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|----------------------|--------------|----------------------|
| 1. Wire bracket | 4. Insulator | 7. Accelerator pedal |
| 2. Accelerator cable | 5. Lock nut | 8. Return spring |
| 3. Adjusting nut | 6. Stopper | 9. Pedal bracket |



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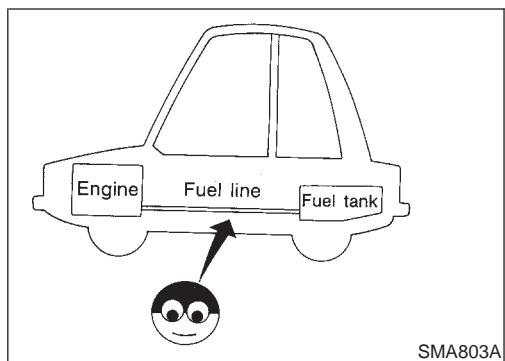
Adjusting Accelerator Wire

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- Loosen lock nut.
- Tighten accelerator adjusting nut until throttle drum starts to move.
- From that position, turn back adjusting nut 1.5 to 2 turns, and secure lock nut.

FUEL SYSTEM

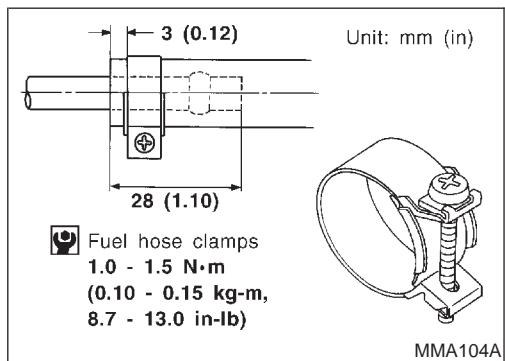
Checking Fuel Lines



Checking Fuel Lines

NMFE0008

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



CAUTION:

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.

Changing Fuel Filter

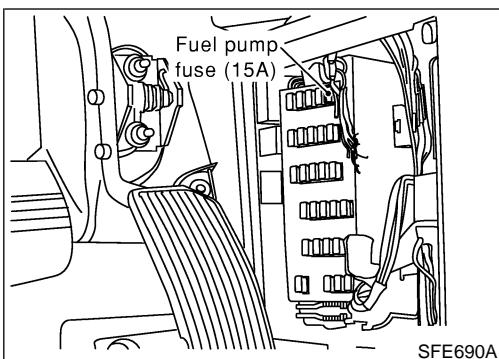
NMFE0009

WARNING:

- Be careful not to spill fuel over engine compartment. Place a shop towel to absorb fuel.
- Use a high-pressure type fuel filter. Do not use a synthetic resinous fuel filter.
- When tightening fuel hose clamps, refer to "Checking Fuel Lines".
 1. Release fuel pressure from fuel line.
 - a. **WITH CONSULT**
Refer to EC-27, "Fuel Pressure Release".

FUEL SYSTEM

Changing Fuel Filter (Cont'd)



b. **WITHOUT CONSULT**

- i. Remove fuse for fuel pump.
- ii. Start engine.
- iii. After engine stalls, crank engine two or three times to make sure that fuel pressure is released.
- iv. Turn ignition switch off and install fuse for fuel pump.

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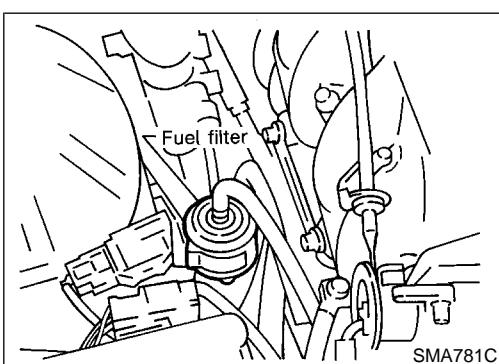
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2. Loosen fuel hose clamps.
3. Replace fuel filter.

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Removal and Installation

WARNING:

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

- Put a "CAUTION: INFLAMMABLE" sign in workshop.
- Do not smoke while servicing fuel system. Keep open flames and sparks away from work area.
- Be sure to furnish the workshop with a CO₂ fire extinguisher.

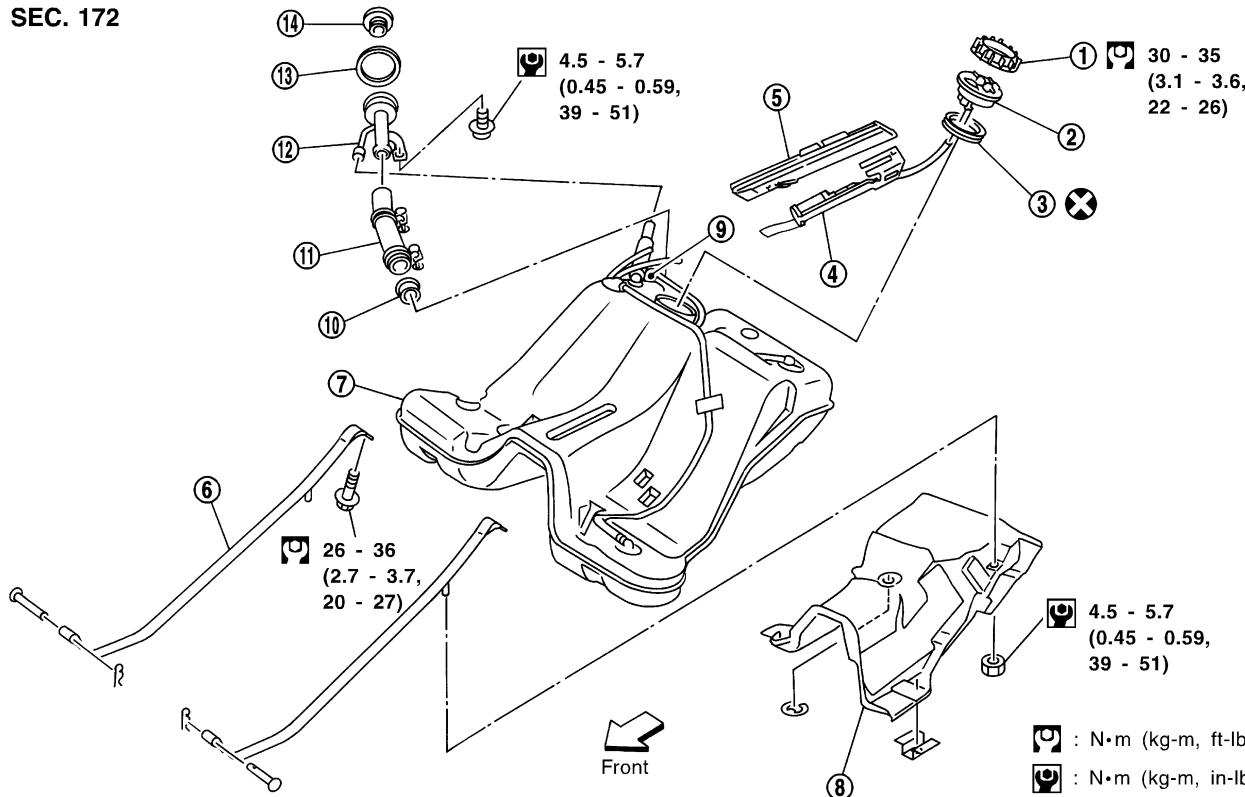
CAUTION:

- Before removing fuel line parts, carry out the following procedures:
 - a) Put drained fuel in an explosion-proof container and put lid on securely.
 - b) Release fuel pressure from fuel line. Refer to FE-4, "Changing Fuel Filter".
 - c) Disconnect battery ground cable.
- Always replace O-ring with new ones.
- Do not kink or twist hose and tube when they are installed.
- Do not tighten hose clamps excessively to avoid damaging hoses.
- After installation, run engine and check for fuel leaks at connections.

FUEL SYSTEM

Removal and Installation (Cont'd)

SEC. 172



SFE364AB

- 1. Lock ring
- 2. Upper plate
- 3. Seal packing
- 4. Fuel pump
- 5. Fuel level sensor unit
- 6. Mounting band
- 7. Fuel tank
- 8. Fuel tank protector
- 9. Fuel check valve
- 10. Filler collar

- 11. Filler hose
- 12. Filler tube
- 13. Grommet
- 14. Filler cap

Fuel Tank

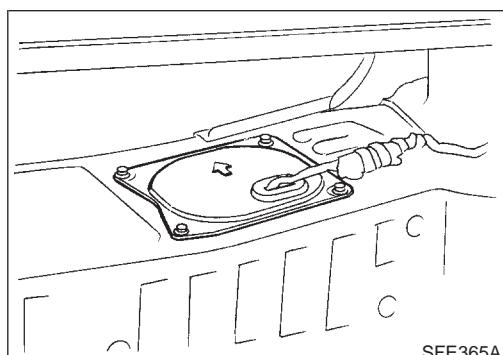
REMOVAL

CAUTION:

- Do not disconnect any fuel line unless absolutely necessary.
- Plug hose and pipe openings to prevent entry of dust or oil.

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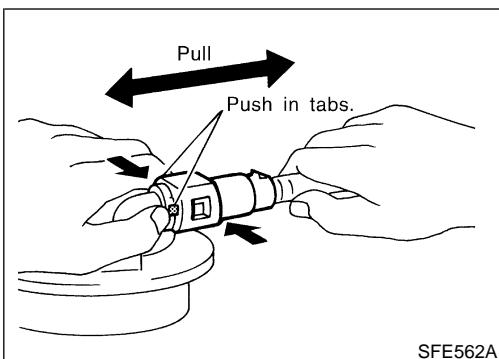
NMFE0010S01



1. Release fuel pressure from fuel line. Refer to FE-4, "Changing Fuel Filter".
2. Disconnect battery ground cable.
3. Open fuel filler lid and filler cap.
4. Pump fuel out from fuel tank using a suitable pump.
5. Remove inspection hole cover located behind the rear seat.
6. Disconnect harness connectors under inspection hole cover.
7. Disconnect the quick connector as follows.
 - a. Put mating marks on tubes and connectors for correct installation.

FUEL SYSTEM

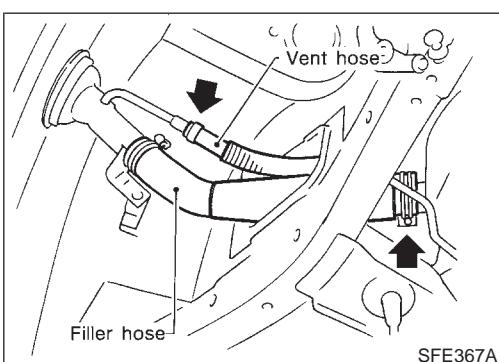
Fuel Tank (Cont'd)



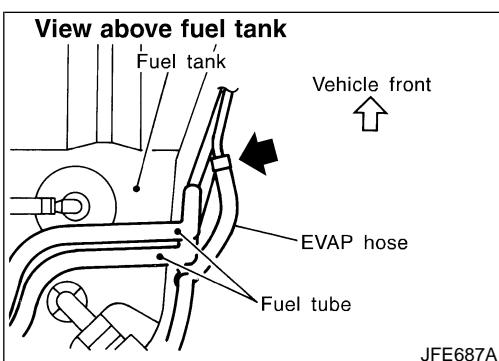
- b. Hold the sides of the connector, push in tabs, and pull out the tube inserted in the retainer.

CAUTION:

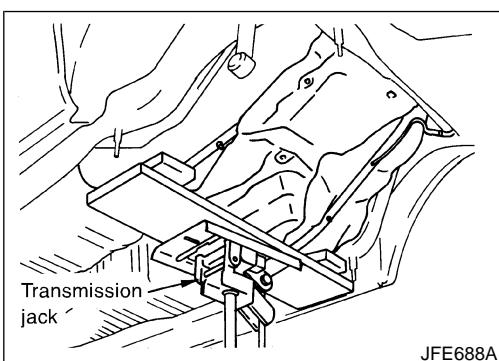
- The tube can be removed when the push in tabs are completely depressed. Do not twist it more than necessary.
- Do not use any tools to remove the quick connector.



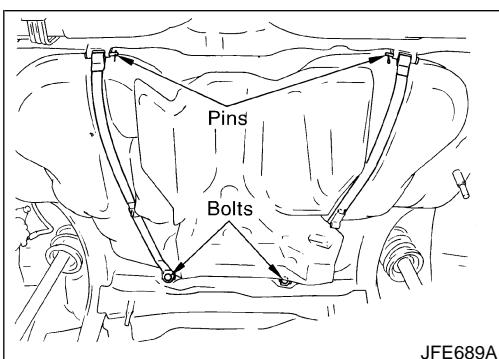
8. Remove exhaust center tube, propeller shaft, differential carrier, rear suspension member and drive shafts (Refer to RA section).
9. Disconnect filler hose at fuel tank side and vent hose at filler tube side.



10. Disconnect EVAP hose at the lower right-hand side of fuel tank.



11. Set a suitable transmission jack under fuel tank.

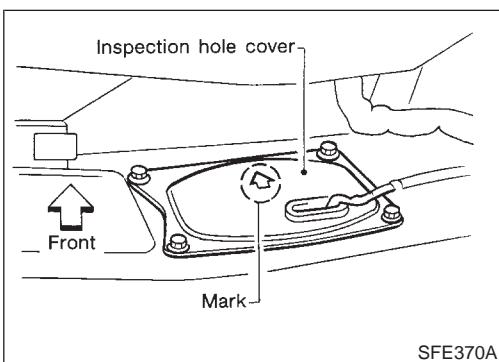
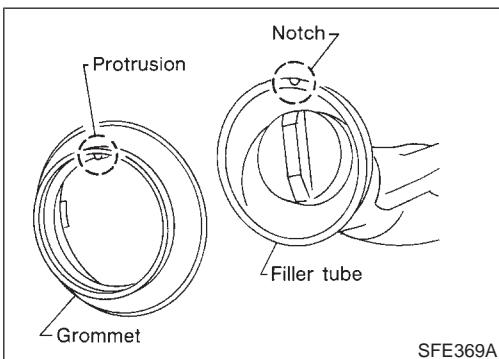
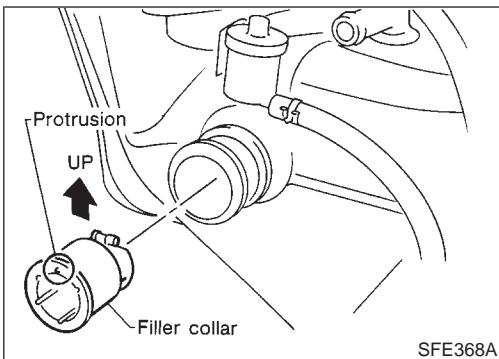


12. Remove fuel tank band mounting bolts while supporting fuel tank.
13. Remove fuel tank.

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FUEL SYSTEM

Fuel Tank (Cont'd)



INSTALLATION

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- When installing filler collar, place the protrusion of the collar flange upward.

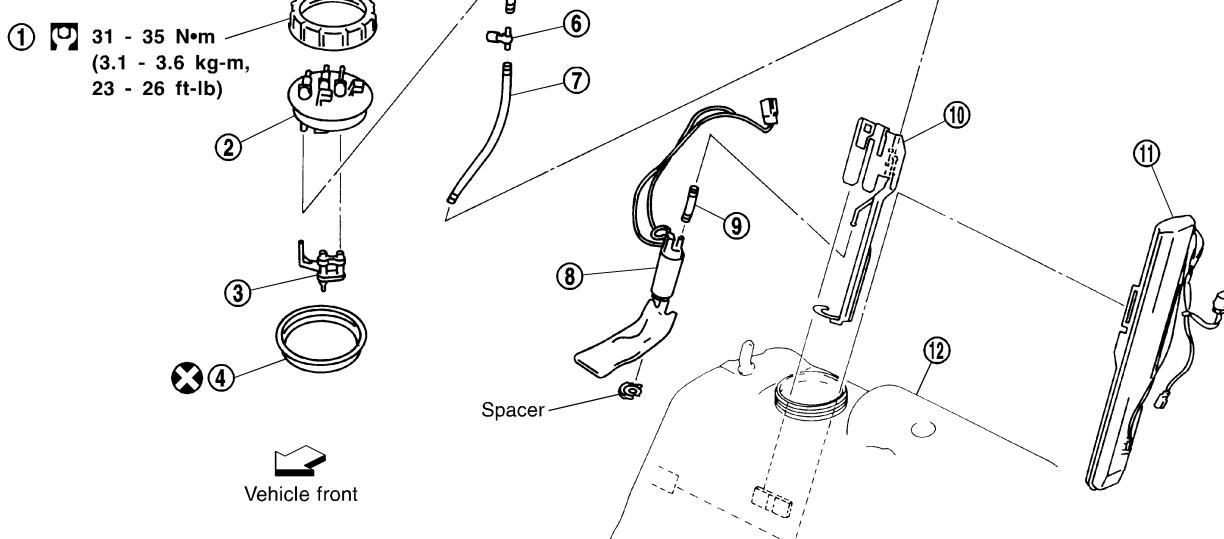
- When installing the grommet of the filler tube, align the protrusion on the grommet with the notch on the filler tube.

- When installing the inspection hole, put the arrow mark forward.

Fuel Pump and Fuel Level Sensor Unit

NMFE0011

SEC. 172



1. Lock ring

2. Upper plate

3. Jet pump

FUEL SYSTEM

Fuel Pump and Fuel Level Sensor Unit (Cont'd)

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|-----------------|--------------|----------------------------|
| 4. Seal packing | 7. Fuel tube | 10. Fuel pump bracket |
| 5. Fuel tube | 8. Fuel pump | 11. Fuel level sensor unit |
| 6. Relief valve | 9. Fuel tube | 12. Fuel tank |

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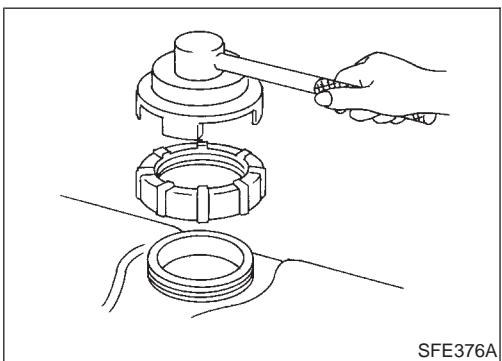
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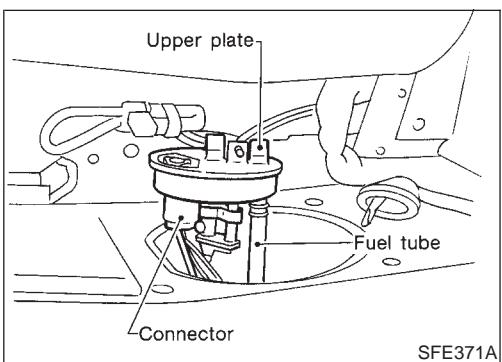
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REMOVAL

1. Release fuel pressure.
Refer to FE-4, "Changing Fuel Filter".
2. Remove inspection hole cover located behind the rear seat.
3. Disconnect harness connectors and fuel tubes on upper plate.
● Put mating marks on tubes for correct installation.
4. Remove lock ring (Use SST).

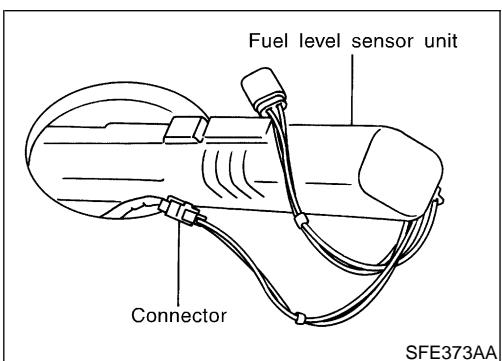


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5. While lifting upper plate, disconnect fuel tube and harness connectors.
6. Remove fuel pump pulling the top end of the fuel pump bracket upward.
7. Remove fuel level sensor unit.
a. Pull fuel level sensor unit horizontally to the left.



SFE373AA

- b. Remove harness connector.
● Carefully place the removed connector in the fuel tank so that it can be pulled out for the installation.

FUEL SYSTEM

Fuel Pump and Fuel Level Sensor Unit (Cont'd)

INSTALLATION

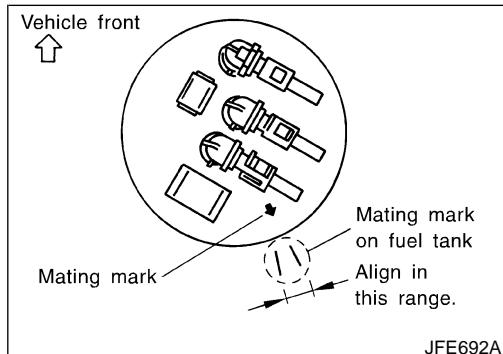
To install, reverse the removal procedure.

NMFE0011S02

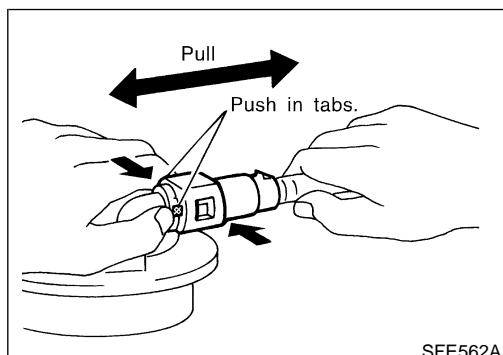
CAUTION:

- Always replace O-ring with a new one.
- After installation, run engine and check for leaks at connections.

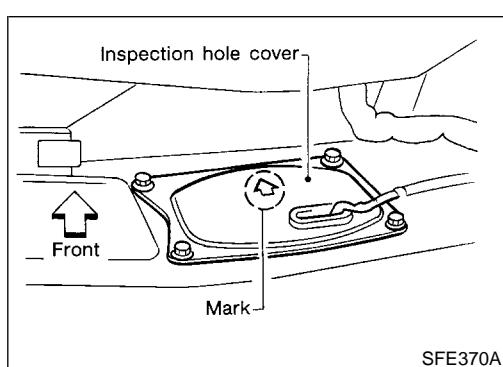
- Take extreme care for the fuel pump and fuel level sensor unit not to drop or give similar impact.
- Check for no foreign objects on the fuel pump filter.
- Fuel hose and connector should be connected securely.



- Install upper plate by aligning mating marks.
- Using lock ring socket (SST), tighten the lock ring.



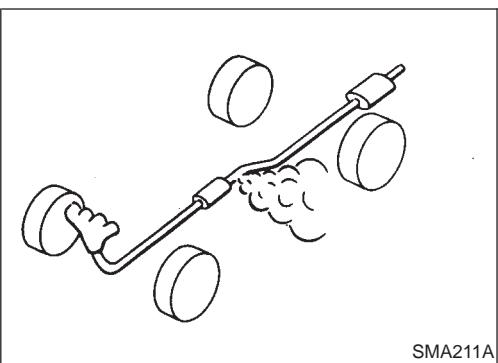
- Connect quick connector by the following procedures.
 - a) Check for no foreign objects, damage to the connection part.
 - b) Align connector and axial center and insert the tube until "click" sound is heard.
 - c) After connection, visually check the secure connection by the following procedures.
- Visually check that two retainer's pawls are connected to the connectors.
- By pulling tube and connector, check for secure connection.



- Install inspection hole cover by facing the arrow mark to the front of the vehicle.

EXHAUST SYSTEM

Checking Exhaust System



Checking Exhaust System

Check exhaust pipes, muffler and mounting for improper attachment, leaks, cracks, damage, chafing or deterioration.

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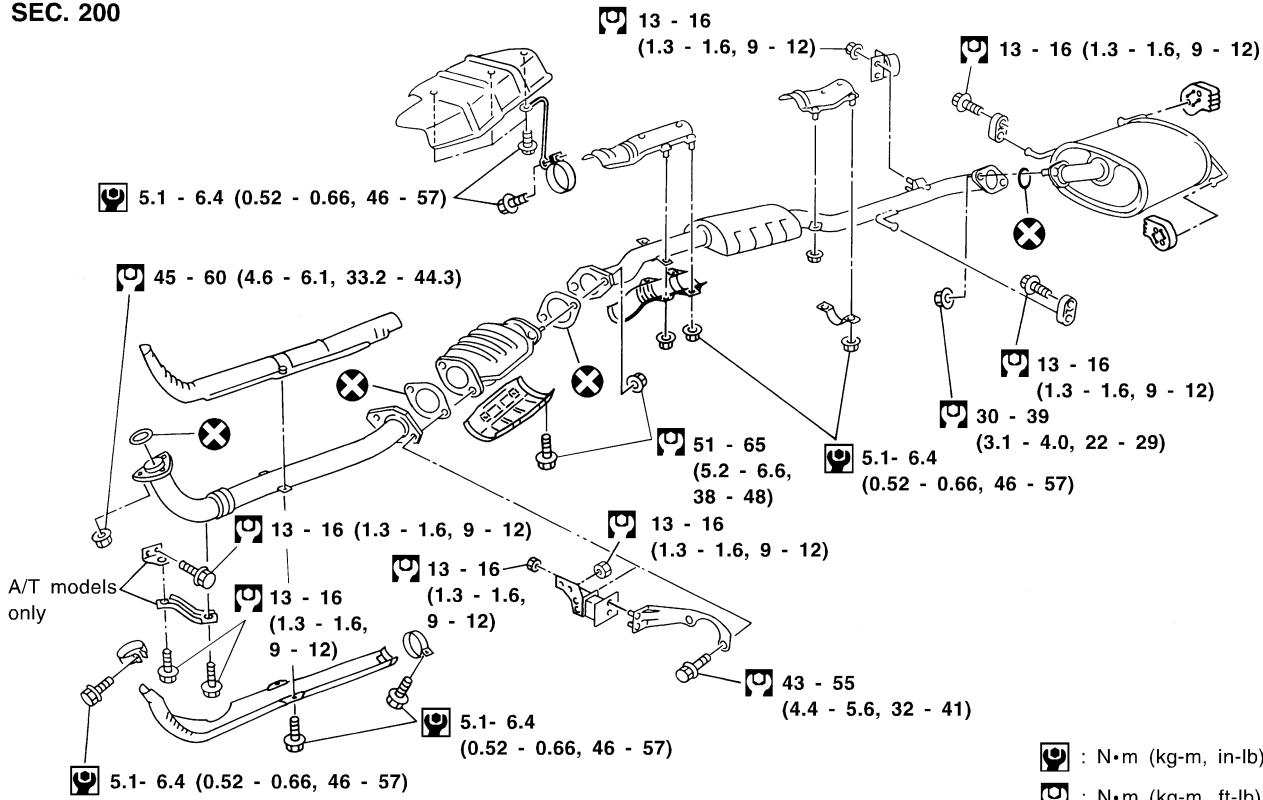
Removal and Installation

NMFE0005

CAUTION:

- Always replace exhaust gaskets with new ones when reassembling.
- With engine running, check all tube connections for exhaust gas leaks, and entire system for unusual noises.
- Check to ensure that mounting brackets and mounting insulators are installed properly and free from undue stress. Improper installation could result in excessive noise or vibration.

SEC. 200



● : N·m (kg-m, in-lb)

● : N·m (kg-m, ft-lb)

SFE694A

NOTES