# ACCELERATOR CONTROL, FUEL & EXHAUST SYSTEMS

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# SECTION

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#### PREPARATION

Special Service Tool

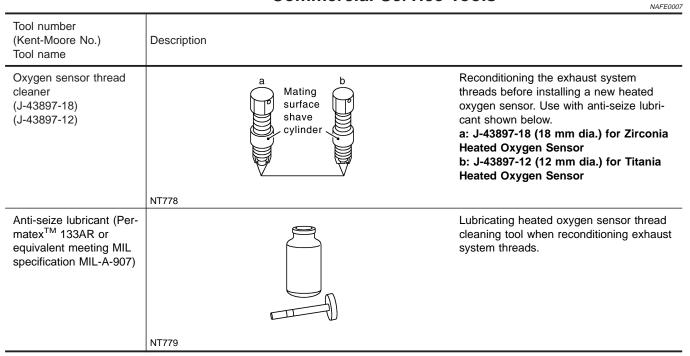
#### **Special Service Tool**

NAFE0001

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

Tool number (Kent-Moore No.) Tool name	Description	
KV10114400 (J38365) Heated oxygen sensor wrench		Loosening or tightening rear heated oxy- gen sensor (For right bank) a: 22 mm (0.87 in)
	NT636	





## ACCELERATOR CONTROL SYSTEM

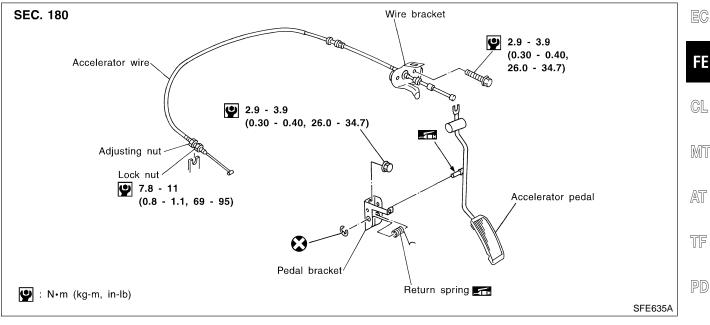
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#### **Removal and Installation**

- CAUTION:
  The accelerator wire should be adjusted when removing and replacing any parts of the Accelerator tor Control System, shown in the illustration.
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  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.
- Refer to EL-267, "AUTOMATIC SPEED CONTROL DEVICE" for ASCD wire adjustment.

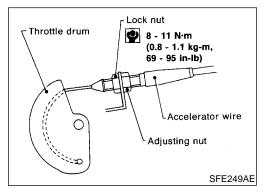


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# Adjusting Accelerator Wire

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

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### **Removal and Installation**

#### WARNING:

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When replacing fuel line parts, be sure to observe the follow-

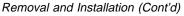
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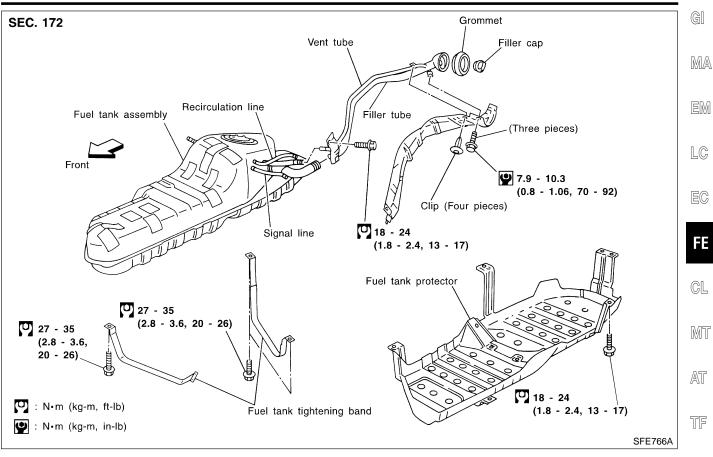
- Put a "CAUTION: INFLAMMABLE" sign in workshop. •
- Do not smoke while servicing fuel system. Keep open flames and sparks away from work area.
- Be sure to work in a well ventilated area and furnish the workshop with a CO<sub>2</sub> fire extinguisher.

#### **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. Keep the container in safe area.
- b) Release fuel pressure from fuel line. Refer to MA-17, "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 damag-• ing hoses.
- When installing fuel check valve, be careful of its desig-• nated direction. Refer to EC-34, "EVAPORATIVE EMIS-SION SYSTEM".
- For inspection of ORVR system parts, refer to EC-40, "ON Board Refueling Vapor Recovery (ORVR)".
- After installation, make sure there is no fuel leaks at con-nections in the following steps.
- Apply fuel pressure to fuel lines with turning ignition a) switch ON (with engine stopped). Then check for fuel leaks at connections.
- b) Start the engine and rev it up and check for fuel leaks at connections.

### **FUEL SYSTEM**





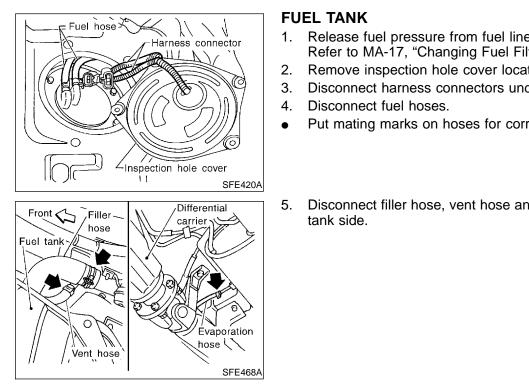


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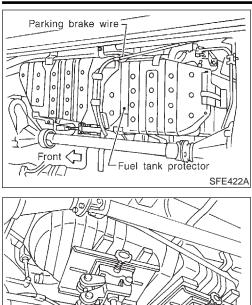
# NAFE0004S01 Release fuel pressure from fuel line. Refer to MA-17, "Changing Fuel Filter". Remove inspection hole cover located behind the rear seat. Disconnect harness connectors under inspection hole cover. Put mating marks on hoses for correct installation. Disconnect filler hose, vent hose and evaporation hose at fuel

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# FUEL SYSTEM

#### Removal and Installation (Cont'd)

Rear LH tire



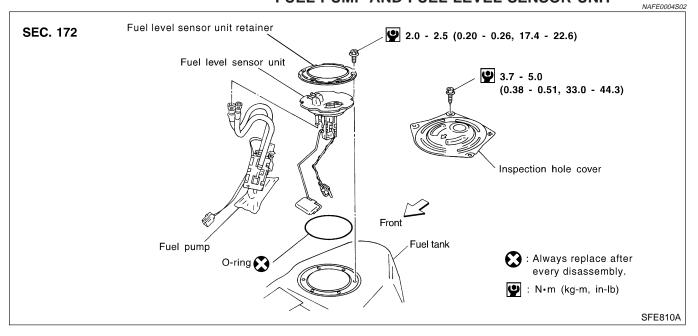
- 6. Remove parking brake wire from fuel tank protector.
- 7. Remove fuel tank protector.

- 8. Remove fuel tank band mounting bolts while supporting fuel tank.
- 9. Remove fuel tank.

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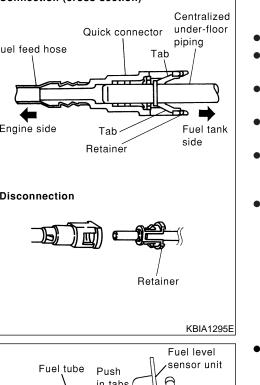
Installation procedure is the reverse order of removal.

#### FUEL PUMP AND FUEL LEVEL SENSOR UNIT

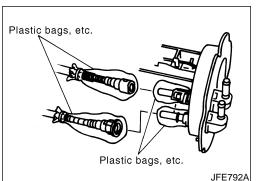


- 1. Release fuel pressure from fuel line. Refer to MA-17, "Changing Fuel Filter".
- 2. Remove inspection hole cover located behind the rear seat.
- 3. Disconnect harness connectors and fuel tubes from upper plate of fuel level sensor unit.
- Put mating marks on tubes for correct installation.
- 4. Remove fuel level sensor unit retainer and fuel level sensor unit.

- Disconnect the quick connectors as follows. 5. • 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. Quick connector SFE544A
- Connection (cross-section) Centralized under-floor Quick connector piping Fuel feed hose Tab Engine side Fuel tank Tab side Retainer Disconnection Retainer
- Į 0  $\Box$ Push in tabs



in tabs JFE791A



# **CAUTION:**

- The quick connector 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 CL 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.
- AT Only when the quick connector is replaced, remove the remaining retainer on the fuel level sensor unit. (Feed tube) TF
- When the fuel level sensor unit is replaced, also replace the retainer with a new one [Yellow colored retainer]. (Feed tube)

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- Press fuel tube and fuel level sensor unit as shown in the figure. Disconnect the joint by pushing tab and pull out BR fuel tube. (Return tube)

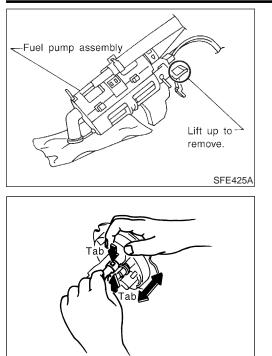
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- To keep the connecting portion clean and to avoid damage and foreign materials, cover them completely with plastic HA bags or something similar.

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# FUEL SYSTEM

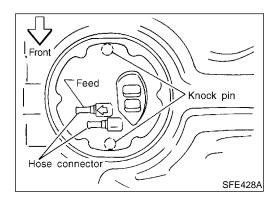
#### Removal and Installation (Cont'd)



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6. Remove fuel pump with bracket while lifting the pawl of the fuel pump bracket upward.

- 7. To install, reverse the removal procedure.
- Connect the quick connectors as follows.
- 1) Be sure that the connecting portion is clean and smooth.
- 2) Align mating marks.
- 3) Insert tube straight into the connector aligning each center until you hear a click.
- 4) After connecting, make sure that the connection is secure by following method.
- a. Pull the tube and the connector to make sure they are securely connected.
- b. Visually confirm that the two retainer tabs are connected to the connector.



 Face fuel level sensor unit as shown in the figure, and install it with knock pin on back aligned with knock pin hole on fuel tank.

## **EXHAUST SYSTEM**

#### **Removal and Installation**

#### NAFE0005

#### **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.
- Discard any heated oxygen sensor which has been dropped from a height of more than 0.5 m (19.7 in) onto a hard surface such as a concrete floor; use a new one.
- Before installing new heated oxygen sensor, clean exhaust system threads using Oxygen Sensor Thread Cleaner tool J-43897-18 of J-43897-12 and approved anti-seize lubricant.
- Do not overtorque the heated oxygen sensor. Doing so may cause damage to the heated oxygen <sup>E</sup> sensor, resulting in the MIL coming on.

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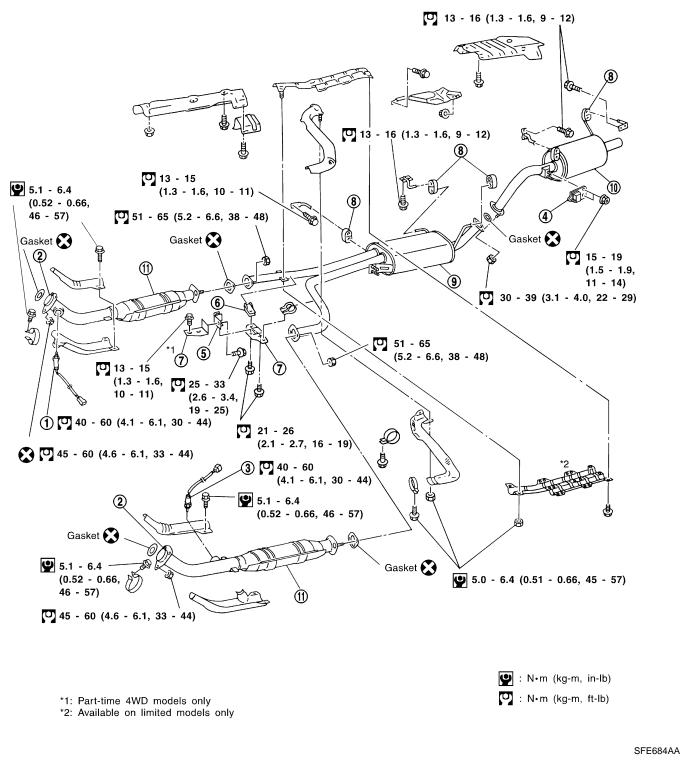
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#### SEC. 200•208 4WD model



- 1. Heated oxygen sensor 2 (rear) (bank 1)
- 2. Front tube
- 3. Heated oxygen sensor 2 (rear) (bank 2)
- 4. Dynamic damper
- 5. Mounting rubber
- 6. Clamp
- 7. Mounting bracket

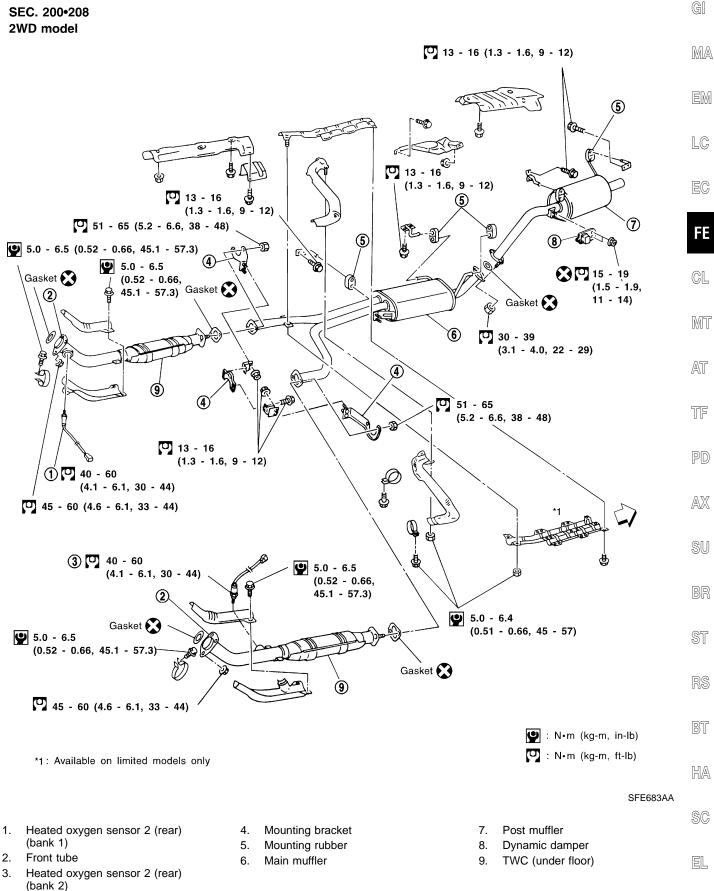
- Mounting rubber
- 9. Main muffler

8.

- 10. Post muffler
- 11. TWC (under floor)

IDX

SEC. 200•208 2WD model



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NOTES