ACCELERATOR CONTROL, FUEL & EXHAUST SYSTEMS



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Special Service Tool

NDFE0001

Tool number (Kent-Moore No.) Tool name	t-Moore tools may differ from those of special service Description	
KV10114400 (J38365) Heated oxygen sensor wrench	NT636	Loosening or tightening rear heated oxygen sensor a: 22 mm (0.87 in)

Commercial Service Tool

		NDFE0006
Tool number (Kent-Moore No.) Tool name	Description	
Fuel tube removal tool	a a d d d d d d d d d d d d d d d d d d	For disconnecting fuel tube quick connectors a: 7.9 mm (5/16 in)
(J-43897–18) (J-43897–12) Oxygen Sensor Thread Cleaner	AFE111 a Mating surface shave cylinder Flutes AEM488	Reconditioning the exhaust system threads before installing a new oxygen sensor. Use with anti-seize lubricant shown below a: J-43897–18 18mm diameter, for Zirconia oxygen sensor a: J-43897–12 12mm diameter, for Titania oxygen sensor
Anti-seize lubricant (Permatex [®] 133AR or equivalent meeting MIL specification MIL-A- 907)		Lubricating oxygen sensor thread cleaning tool when reconditioning exhaust system threads
	AEM489	

Removal and Installation

CAUTION:

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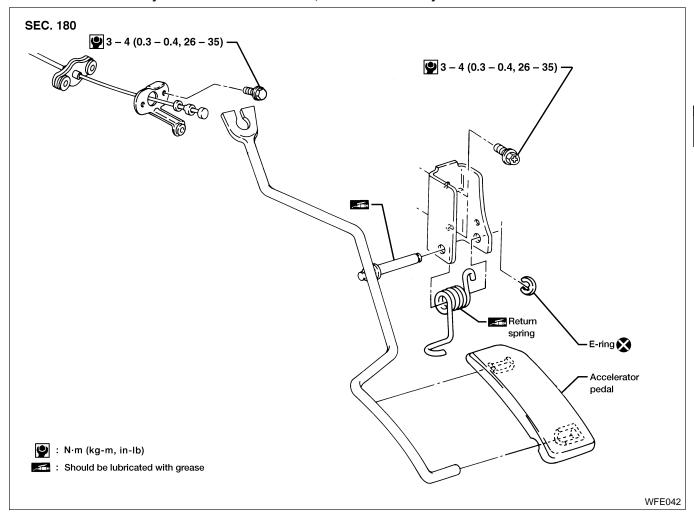
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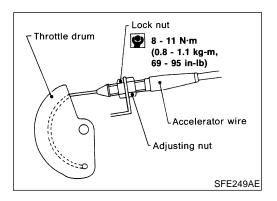
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- When removing accelerator wire, make a mark to indicate lock nut's initial position.
- Check that throttle valve opens fully when accelerator pedal is fully depressed. Also check that it returns to idle position when pedal is released.
- Check accelerator control parts for improper contact with any adjacent parts.
- When connecting accelerator wire, be careful not to twist or scratch its inner wire.
- For ASCD wire adjustment refer to EL-236, "ASCD Wire Adjustment".





Adjusting Accelerator Wire

NDFE0003

NOTE:

Adjust accelerator wire with the engine warmed up to normal operating temperature and ignition switch turned to OFF.

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

Removal and Installation

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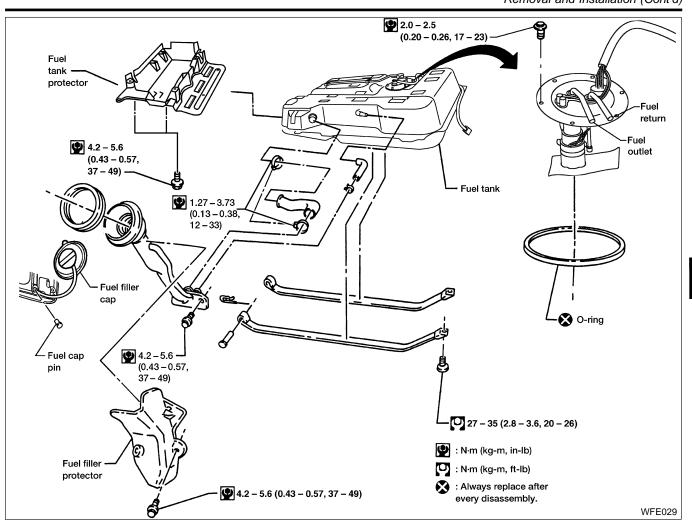
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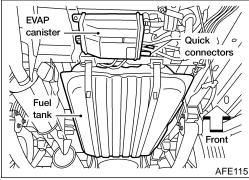
When replacing fuel line parts, be sure to observe the following:

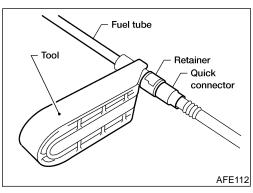
- Put a "CAUTION: INFLAMMABLE" sign in workshop.
- Do not smoke while servicing fuel system. Keep open flames and sparks away from work area.
- Be sure to furnish the workshop with a CO₂ fire extinguisher.

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 *MA-19*, "Changing Fuel Filter".
- c) Disconnect battery ground cable.
- Remove quick connectors with Commercial Service Tool.
- Always replace O-ring with a new one.
- Do not kink or twist hoses and tubes when installed.
- Do not tighten hose clamps excessively to avoid damaging hoses.
- When installing fuel check valve, be careful of its designated direction. Refer to EC-28, "EVAPORATIVE EMISSION SYSTEM".
- After installation, run engine and check for fuel leaks at connections.







FUEL TANK

Release fuel pressure from fuel line. Refer to MA-19, "Changing Fuel Filter".

Disconnect battery ground cable.

- Drain fuel from fuel tank.
- Disconnect electrical connectors.
- 5. Remove filler protector.
- Disconnect filler tube. 6.

Disconnect the quick connectors as follows.

CAUTION:

- To prevent damaging fuel lines, remove quick connectors with Tool.
- Keep the connecting portion of the tubes and quick connector clean.
- Put mating marks on tubes and connectors for correct installation.
- Hold side of connector, slide tool inside of quick connector to open retainer and pull tube out of quick connector.

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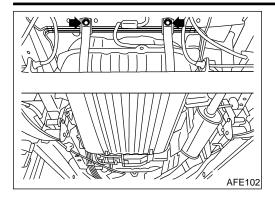
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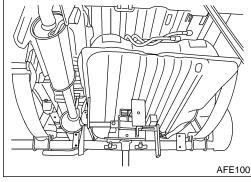
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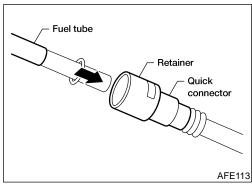
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8. Remove tank mounting band bolts while supporting fuel tank.

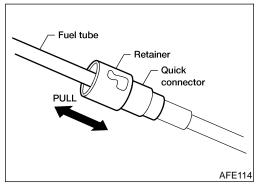


9. Remove fuel tank.



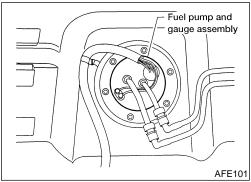
To install, reverse the removal procedure. Connect the quick connectors as follows.

- Be sure that the connecting portion is clean and smooth.
- Align mating marks.
- Insert tube into the center of the connector until you hear a click.



After connecting quick connectors, make sure the connection is firmly made using the following method.

- Pull on the fuel tube and connector to make sure they are firmly connected.
- Start the engine, increase engine speed and verify that there are no leaks.



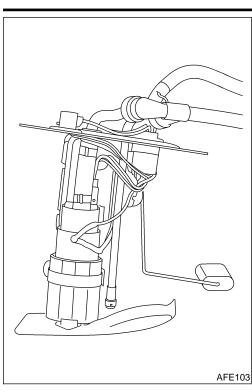
FUEL PUMP AND GAUGE

NDFE0004S02

- 1. Remove fuel tank. Refer to "FUEL TANK", FE-5.
- For removal of quick connectors, refer to step 7 of "FUEL TANK", FE-5.
- 2. Disconnect battery ground cable.
- 3. Disconnect fuel tubes and electrical connectors.
- Remove the six bolts.

FUEL SYSTEM

Removal and Installation (Cont'd)



5. Remove fuel gauge assembly.

Installation procedure is the reverse order of removal.

CAUTION:

• Tighten bolts to specified torque.

O : 2.0 - 2.5 N·m (0.20 - 0.26 kg-m, 17.4 - 22.6 in-lb)

Always replace O-ring with a new one.

After installation, run engine and check for leaks at connectors.



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CAUTION:

Do not overtorque the flare nut, otherwise it may damage the seating surface.



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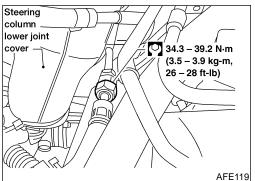
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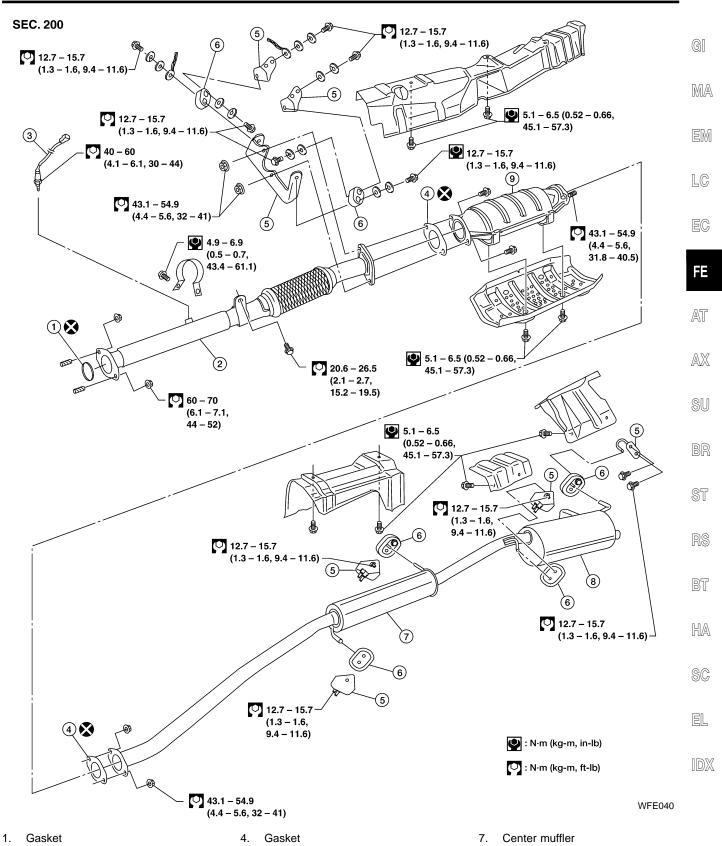


Removal and Installation

CAUTION:

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- 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 or J-43897–12 and approved anti-seize lubricant.
- Do not overtorque the heated oxygen sensor. Doing so may cause damage to the heated oxygen sensor, resulting in the MIL coming on.



- 2.
- Front tube
- 3. Heated oxygen sensor 2 (Rear)
- 5. Mounting bracket
- Mounting rubber 6.

- Rear muffler
- Three way catalyst (under floor)

NOTES