ACCELERATOR CONTROL, FUEL & EXHAUST SYSTEMS

SECTION F

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Special Service Tool

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

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

Commercial Service Tool

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Tool name	Description		
(J-43897-18) (J-43897-12) Oxygen sensor thread cleaner		a b b Mating surface shave cylinder	Reconditioning the exhaust system threads before installing a new oxygen sensor. Use with anti-seize lubricant shown in Commercial Service Tools. a: J-43897-18 18mm diameter, for Zirconia Oxygen Sensor b: J-43897-12 12mm diameter, for Titania Oxygen Sensor
Anti-seize lubricant Permatex® 133AR or equivalent meeting MIL specification MIL-A-907	AEM488		Lubricating oxygen sensor thread cleaning tool when reconditioning exhaust system threads.
	AEM489		

Removal and Installation

CAUTION:

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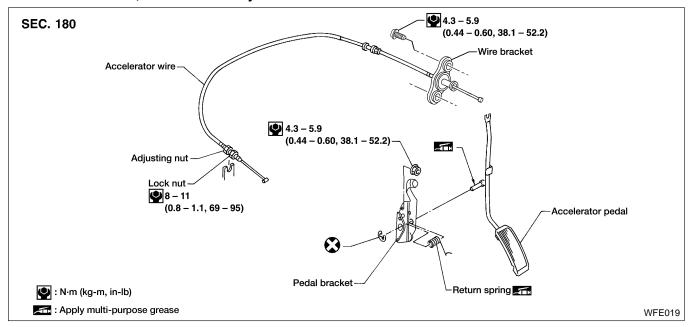
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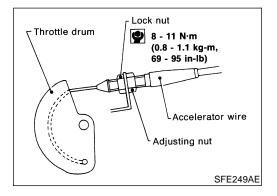
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- When removing accelerator wire, make a mark to indicate lock nut's initial position.
- Check that throttle valve opens fully when accelerator pedal is fully depressed. Also check that it returns to idle position when pedal is released.
- Check accelerator control parts for improper contact with any adjacent parts.
- When connecting accelerator wire, be careful not to twist or scratch its inner wire.
- Refer to EL-168, "ASCD Wire Adjustment".





Adjusting Accelerator Wire

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NOTE:

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

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

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Removal and Installation

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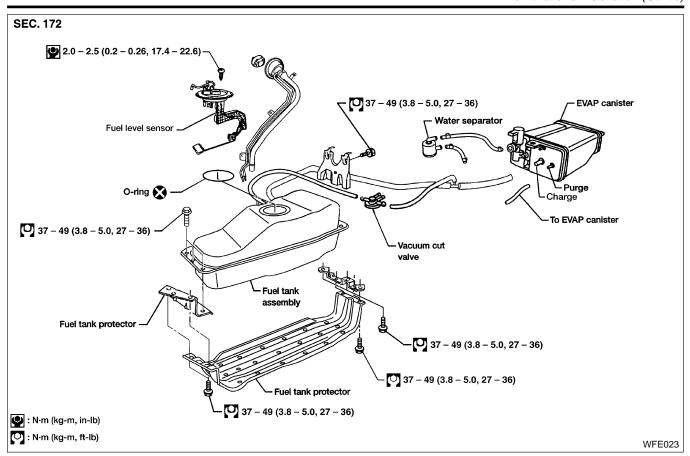
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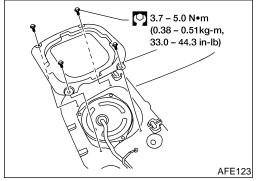
When replacing fuel line parts, be sure to observe the following:

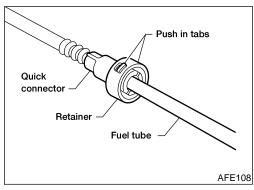
- Put a "CAUTION: INFLAMMABLE" sign in workshop.
- Do not smoke while servicing fuel system. Keep open flames and sparks away from work area.
- Be sure to furnish the workshop with a CO₂ fire extinguisher.

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 EC-51 (KA24DE), EC-637 (VG33E), "Fuel Pressure Release".
- 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.
- Perform an inspection and installation of EVAP system parts as necessary. Refer to EC-34 (KA24DE), EC-619 (VG33E), "Evaporative Emission System".
- For inspection and installation of ORVR system parts, refer to EC-39(KA24DE), EC-625(VG33E), "On-Board Refueling Vapor Recovery (ORVR)".
- After installation, 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.







FUEL TANK

 Release fuel pressure from fuel line. Refer to *EC-51* (KA24DE), *EC-637* (VG33E), "Fuel Pressure Release".

2. Disconnect battery ground cable.

- 3. Remove back seat bottom. Refer to **BT-38**, "Removal and Installation".
- 4. Remove inspection hole cover located under rear seat.
- 5. Drain fuel from fuel tank.
- 6. Disconnect electrical connectors.
- 7. Remove filler protector.
- 8. Remove the quick connectors as follows.
- Put mating marks on the connectors for correct installation.
- 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 use any tools to remove the quick connector.

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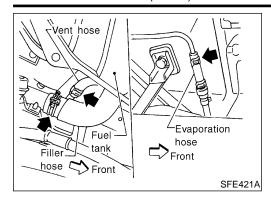
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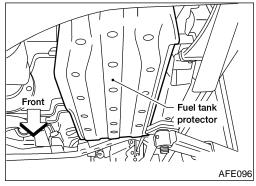
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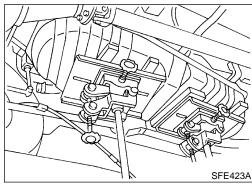
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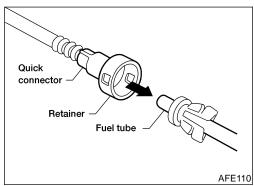
9. Disconnect filler hose, vent and evaporation hose at fuel tank side.



10. Remove fuel tank protector.

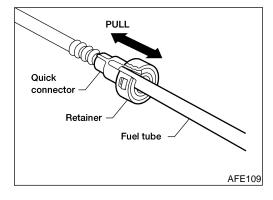


- 11. Remove fuel tank mounting bolts while supporting fuel tank.
- 12. Remove fuel tank.



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

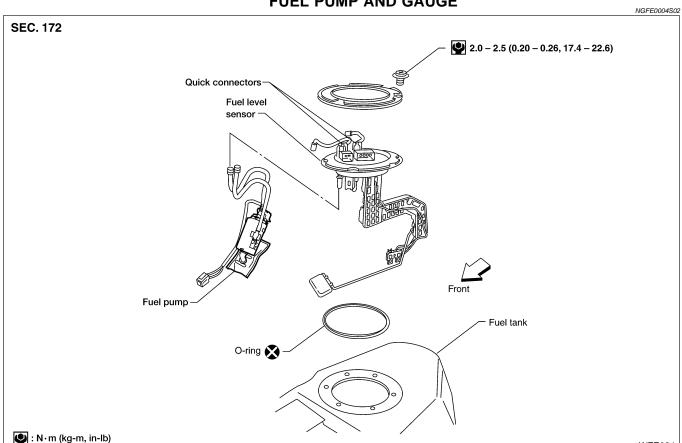
- Align push in tabs with retainer openings.
- Insert tube into the center of the connector until you hear a click.

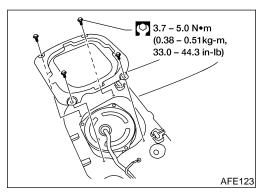


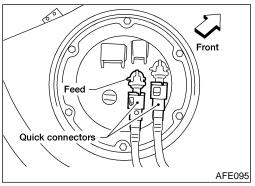
After connecting quick connectors, make sure the connection is firmly made using the following method.

- 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







- Release fuel pressure from fuel line. Refer to *EC-51* (KA24DE), *EC-637* (VG33E), "Fuel Pressure Release".
- Disconnect battery ground cable.
- Remove back seat bottom. Refer to BT-38, "Removal and Installation".
- Remove inspection hole cover located under rear seat. 4.
- Disconnect electrical connectors.
- Remove the quick connectors as follows.
- Put mating marks on the connectors for correct installation.
- 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 use any tools to remove the quick connector.

- 7. Remove the six screws.
 - Remove fuel level sensor retainer and fuel level sensor.

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- 9. Remove fuel pump with bracket while lifting the pawl of the fuel pump bracket upward.
- 10. Remove fuel level sensor assembly.

Installation procedure is the reverse order of removal.

Install fuel level sensor as shown.

CAUTION:

- Tighten bolts to specified torque.
 - **Output**: 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 connections.

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.
- Do not overtorque the oxygen sensor. Doing so may cause damage to the oxygen sensor, resulting in the MIL coming on.

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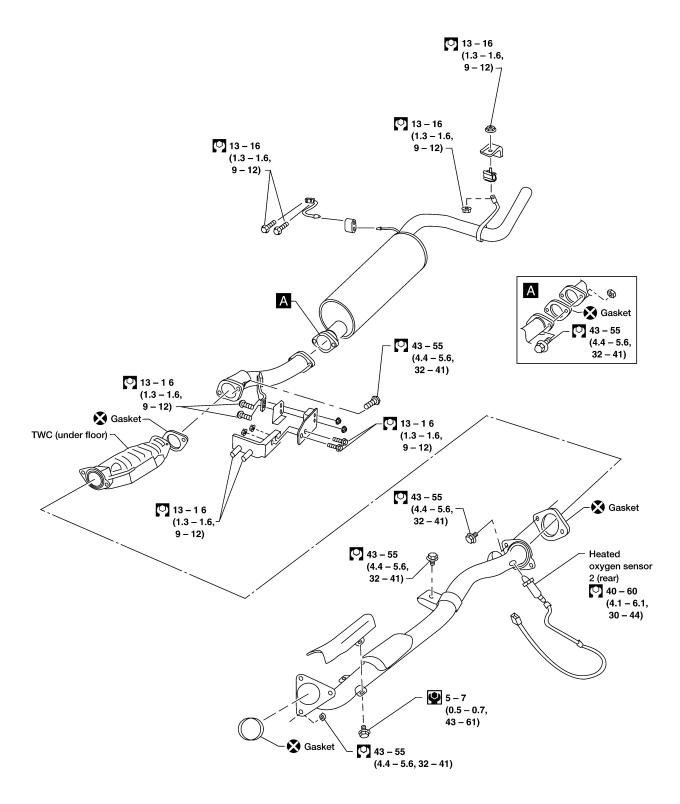
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KA24DE Models

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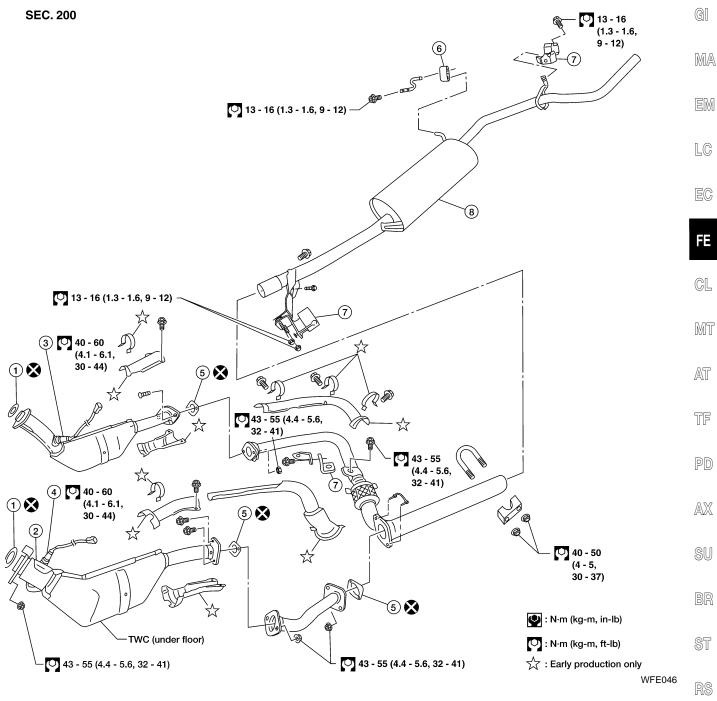


: N·m (kg-m, in-lb)

: N·m (kg-m, ft-lb)

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VG33E 2WD Models



- 1. Gasket
- 2. Front tube
- Heated oxygen sensor 2 (rear) (bank 1)
- Heated oxygen sensor 2 (rear) (bank 2)
- 5. Gasket

- 6. Mounting rubber
- 7. Mounting bracket
- Center muffler







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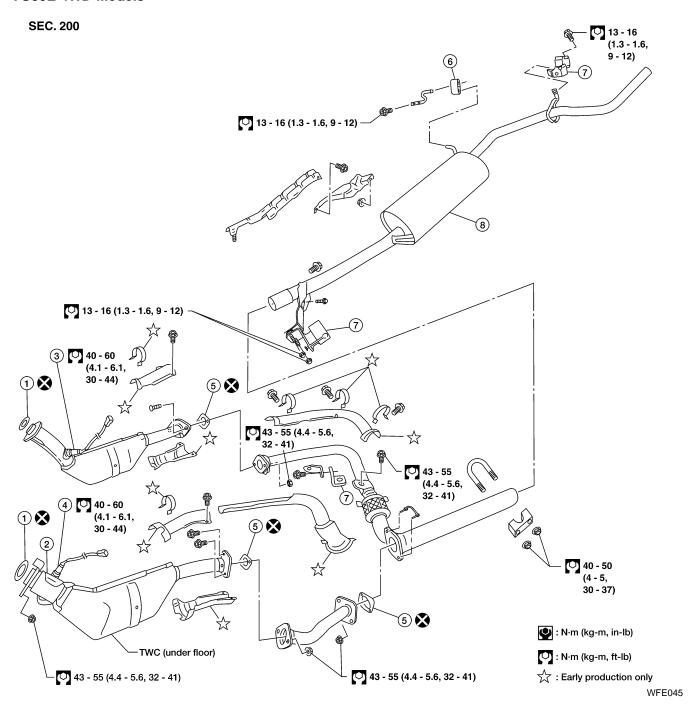
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VG33E 4WD Models



- 1. Gasket
- 2. Front tube
- Heated oxygen sensor 2 (rear) (bank 1)
- 4. Heated oxygen sensor 2 (rear) (bank 2)
- 5. Gasket

- 6. Mounting rubber
- 7. Mounting bracket
- 8. Center muffler