ACCELERATOR CONTROL, FUEL & EXHAUST SYSTEMS

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PREPARATION

Special Service Tool

Special Service Tool

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	NT636	Loosening or tightening rear heated oxy- gen sensor a: 22 mm (0.87 in)

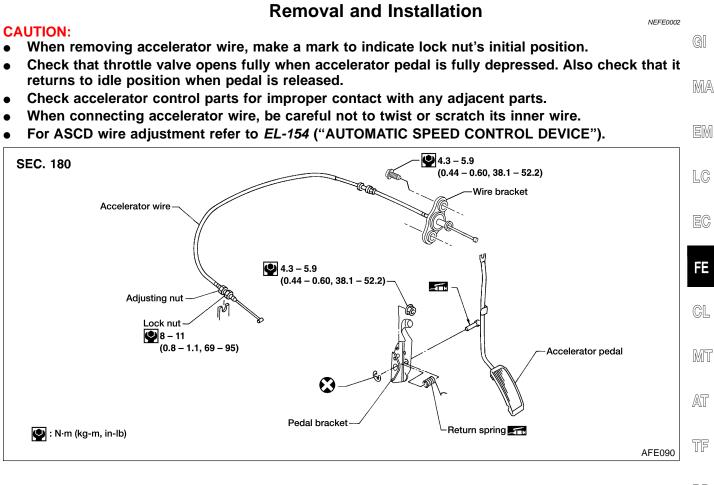


Description Tool name (Kent-Moore No.) Reconditioning the exhaust system Oxygen sensor thread а h cleaner threads before installing a new oxygen (J-43897-18) Mating sensor. Use with anti-seize lubricant surface (J-43897-12) shown in Commercial Service Tools. shave a: J-43897-18 18mm diameter, for Zircylinde conia Oxygen Sensor b: J-43897-12 12mm diameter, for Titania Oxygen Sensor Flutes AEM488 Anti-seize lubricant Lubricating oxygen sensor thread cleaning (Permatex[™] 133AR or tool when reconditioning exhaust system equivalent meeting MIL threads. specification MIL-A-907) AEM489

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Removal and Installation



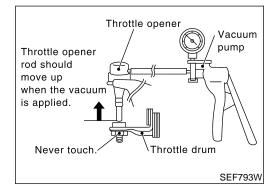
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Adjusting Accelerator Wire NOTE: Adjust accelerator wire with the engine warmed up to normal operating temperature and ignition switch turned to OFF. 1. Remove the vacuum hose connected to the throttle opener. 2. Connect suitable vacuum hose to vacuum pump as shown left. 3. Apply vacuum [more than - 40.0okPa (- 300mmHg, -11.81inHg)] until the throttle drum becomes free from the rod

of the throttle opener. Make sure that there is clearance between the throttle drum and rod.

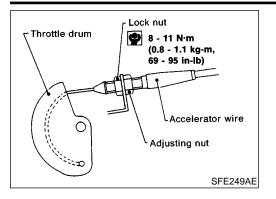
If NG, refer to "Basic Inspection", <i>EC-680</i> .	BT
If OK, go to following steps.	

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ACCELERATOR CONTROL SYSTEM

Adjusting Accelerator Wire (Cont'd)



- 4. Loosen lock nut.
- 5. Tighten accelerator adjusting nut until throttle drum starts to move.
- 6. From that position, turn back adjusting nut 1.5 to 2 turns, and secure lock nut.
- 7. Release vacuum from the throttle opener.
- 8. Remove vacuum pump and vacuum hose from the throttle opener.
- 9. Reinstall the original vacuum hose to the throttle opener securely.

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Removal and Installation

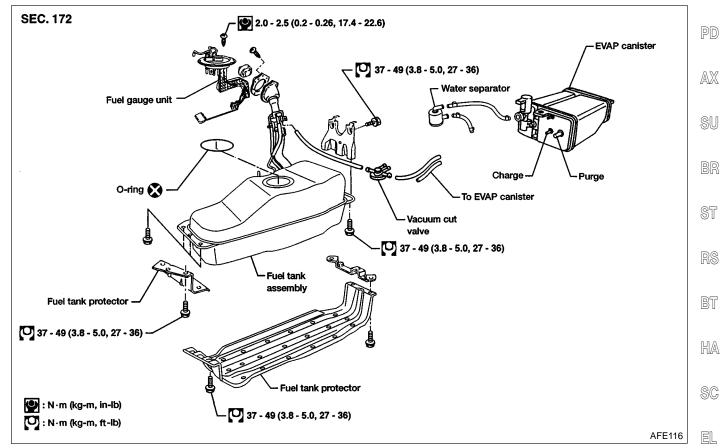
WARNING:

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

- Put a "CAUTION: INFLAMMABLE" sign in workshop. .
- MA 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:

- LC Before removing fuel line parts, carry out the following procedures:
- Put drained fuel in an explosion-proof container and put a) lid on securely.
- Release fuel pressure from fuel line. Refer to MA-29 b) ("Changing Fuel Filter").
- Disconnect battery ground cable. c)
- 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 damag-MT ing hoses.
- When installing fuel check valve, be careful of its designated direction. Refer to EC-613("EVAPORATIVE EMISSION AT SYSTEM").
- After installation, run engine and check for fuel leaks at TF connections.



Quick

connector

FUEL SYSTEM

FUEL TANK

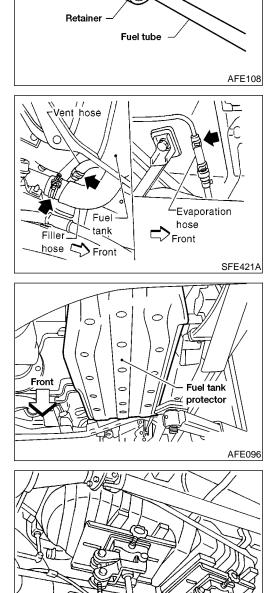
- 1. Release fuel pressure from fuel line. Refer to **MA-29** ("Changing Fuel Filter").
- 2. Disconnect battery ground cable.
- 3. Drain fuel from fuel tank.
- 4. Disconnect electrical connectors.
- 5. Remove filler protector.
- 6. Remove the quick connectors as follows.
- 1) Put mating marks on the connectors for correct installation.
- 2) 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 tolls to remove the quick connector.
- Do not use any tools to remove the quick connector.
- Keep the connecting portion of the tubes and quick connector clean.
- 7. Disconnect filler hose, vent and evaporation hose at fuel tank side.

8. Remove fuel tank protector.

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



Push in tabs

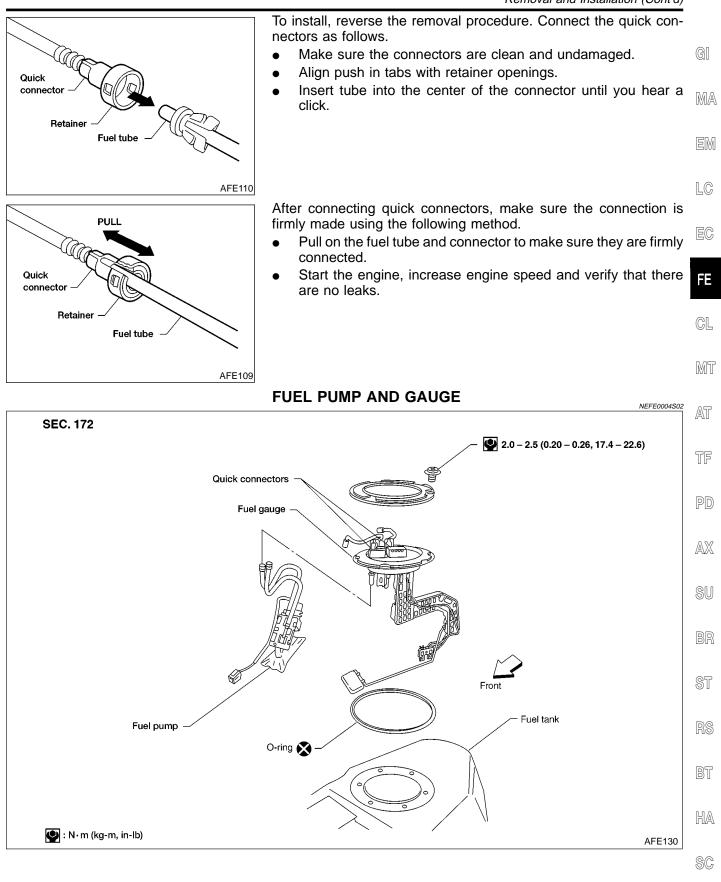


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FUEL SYSTEM

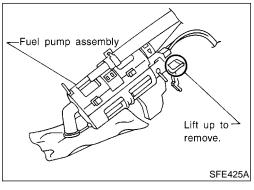
Removal and Installation (Cont'd)



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Removal and Installation (Cont'd)



FUEL SYSTEM

- 1. Remove fuel tank. Refer to "FUEL TANK", FE-6.
- For removal of quick connectors, refer to step 6 of "FUEL TANK", FE-6.
- 2. Remove the six screws.
- 3. Remove fuel gauge retainer and fuel gauge.
- 4. Remove fuel pump with bracket while lifting the pawl of the fuel pump bracket upward.
- 5. Remove fuel gauge assembly.

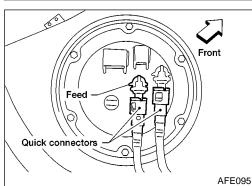
Installation procedure is the reverse order of removal.

• Install fuel gauge as shown.

CAUTION:

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- Tighten bolts to specified torque. (): 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.
- Make sure the connectors are clean and undamaged
- After installation, run engine and check for leaks at connections.



NEFE0005

Removal and Installation

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 EM in) onto a hard surface such as a concrete floor; use a new one.
- Before installing new 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 oxygen sensor. Doing so may cause damage to the oxygen sensor, resulting in the MIL coming on.

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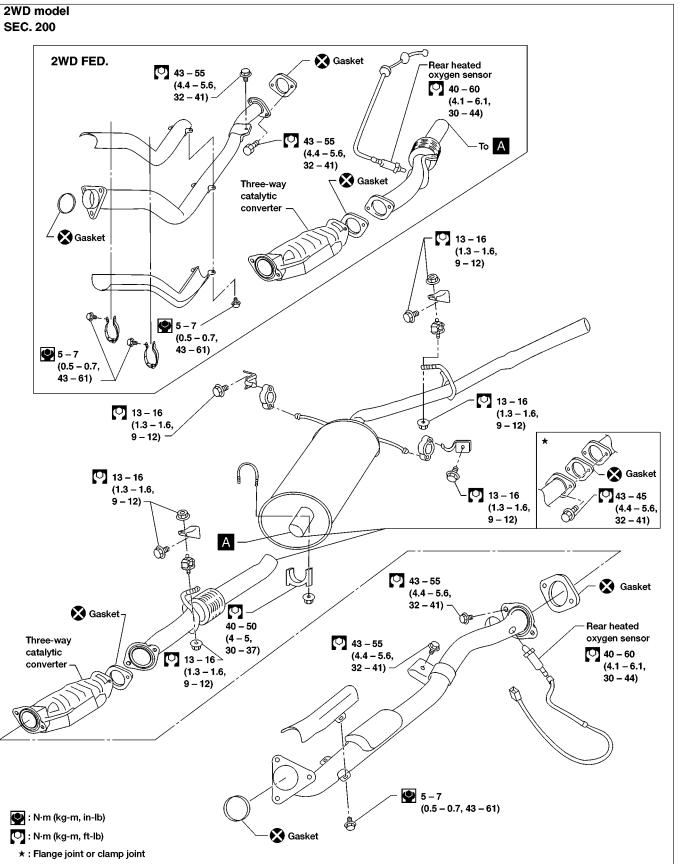
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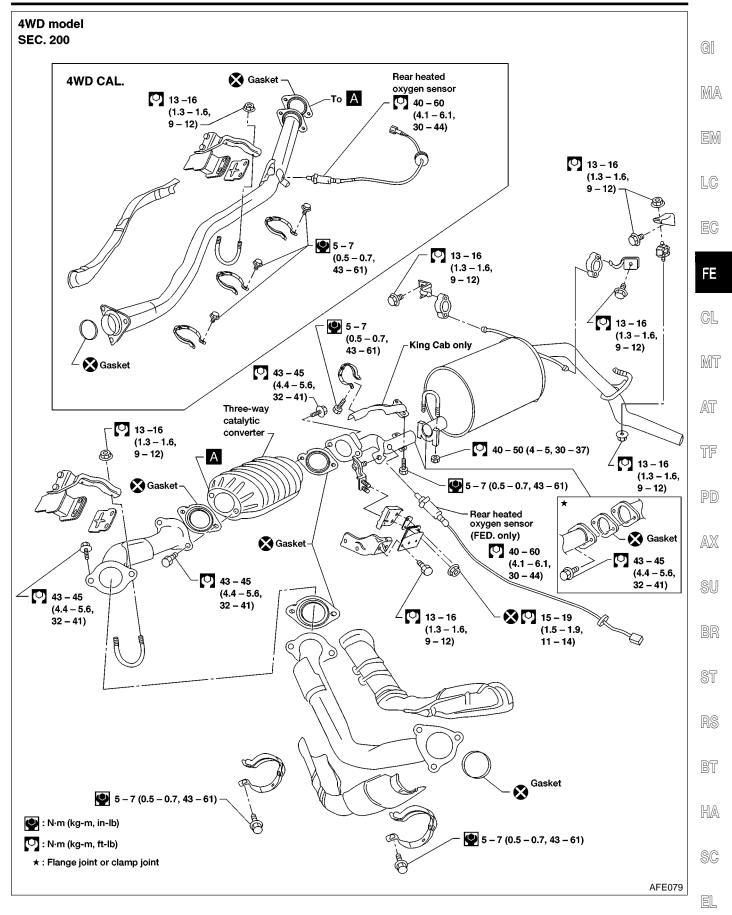
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Removal and Installation (Cont'd)

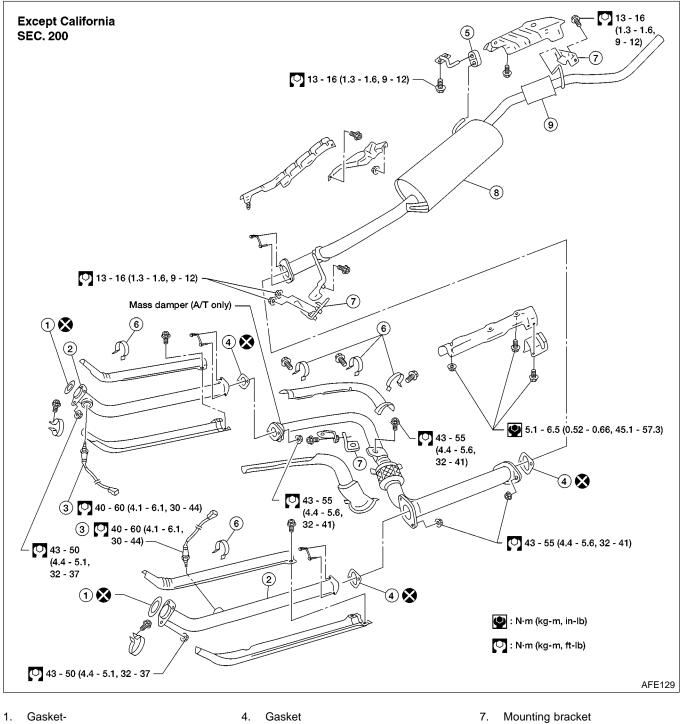
KA24DE Models





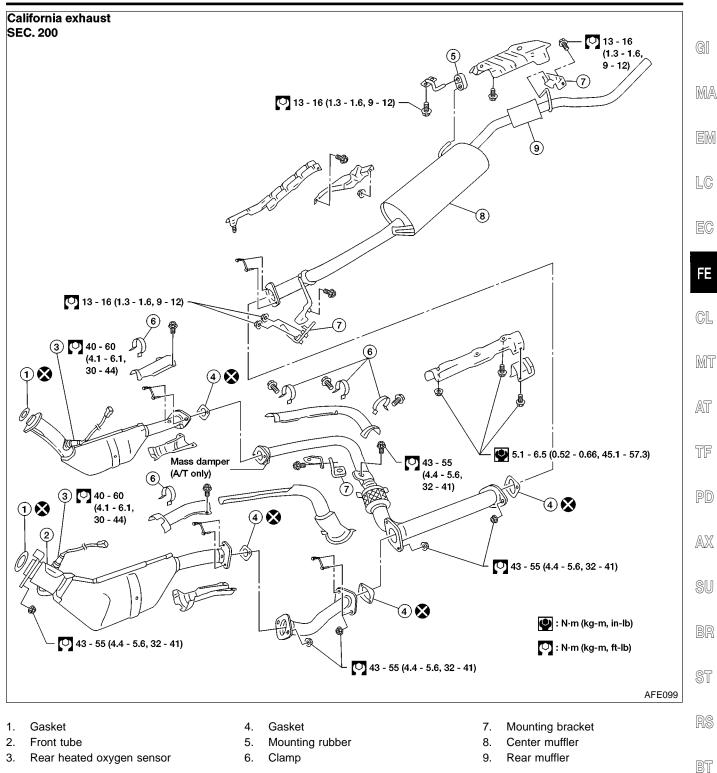
Removal and Installation (Cont'd)

VG33E Models



- 2. Front tube
- 3. Rear heated oxygen sensor
- Mounting rubber 5.
- Clamp 6.

- Center muffler 8.
- 9. Rear muffler



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NOTES