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# ACCELERATOR CONTROL, FUEL & EXHAUST SYSTEMS

SECTION

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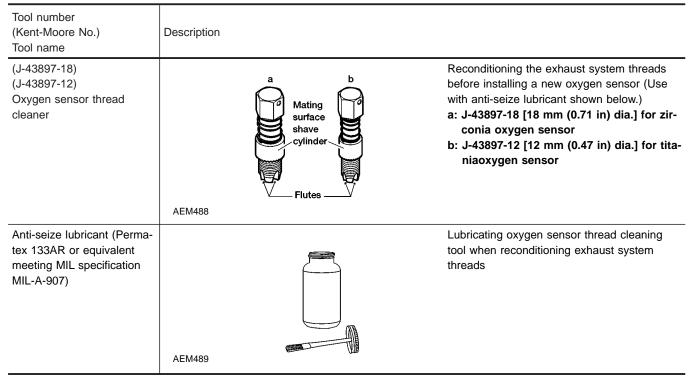
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## PREPARATION



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 (J-38365) Heated oxygen sensor wrench	NT636	Loosening or tightening front and rear heated oxygen sensors 3/8 drive a: 22 mm (0.87 in)



## **Commercial Service Tools**



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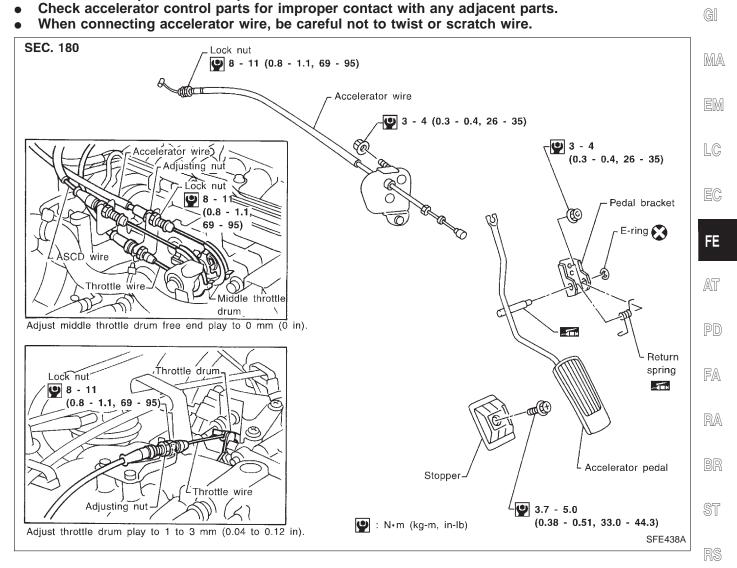
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#### CAUTION:

- 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.

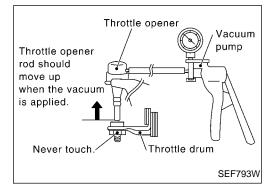




# **Adjusting Accelerator Wire**

CAUTION:

- Make sure the ASCD wire is not pulling the throttle drum.
- Refer to EL section, "AUTOMATIC SPEED CONTROL DEVICE" for ASCD wire adjustment.



# MIDDLE THROTTLE DRUM AND THROTTLE DRUM ADJUSTMENT

- 1. Remove the vacuum hose connected to the throttle opener.
- 2. Connect suitable vacuum hose to vacuum pump as shown at left.
- 3. Apply vacuum [more than -40.0 kPa (-300 mmHg, -11.81 inHg)] 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 EC section, "Basic Inspection".

If OK, go to the following steps.

#### Middle throttle drum side

- 4. Loosen lock nut, and tighten adjusting nut until middle throttle drum starts to move.
- 5. Fasten adjusting nut with lock nut.

#### Throttle drum side

- 6. Start engine and warm it up.
- 7. Loosen lock nut, and tighten adjusting nut until throttle drum starts to move.
- 8. From that position turn back adjusting nut 1.5 to 2 turns, and fasten it with lock nut.
- 9. Release vacuum from the throttle opener.
- 10. Remove vacuum pump and vacuum hose from the throttle opener.
- 11. Reinstall the original vacuum hose to the throttle opener securely.



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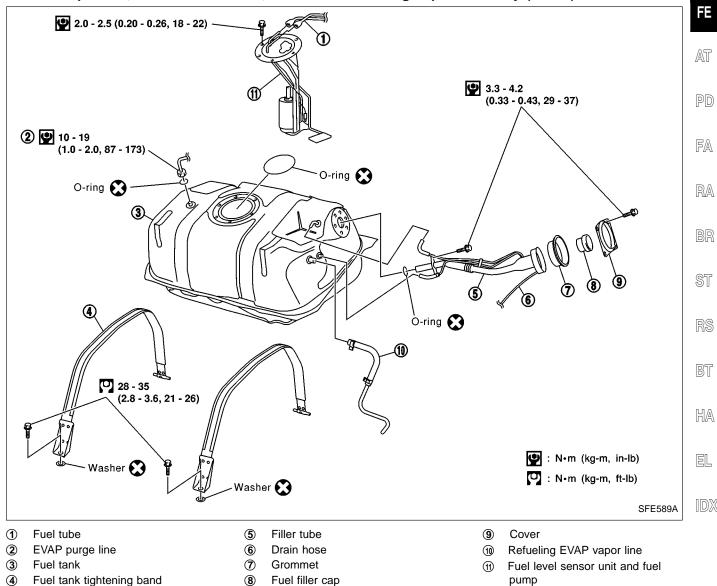
#### WARNING:

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

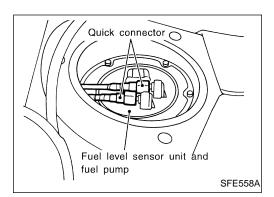
- Put a "CAUTION: FLAMMABLE" sign in workshop.
- Be sure to furnish workshop with a CO<sub>2</sub> fire extinguisher.
- Do not smoke while servicing fuel system. Keep open flames and sparks away from work area.
- Be sure to disconnect battery ground cable before conducting operations.
- Drain fuel from Fuel Tank and put drained fuel in an explosion-proof container and put lid on securely.

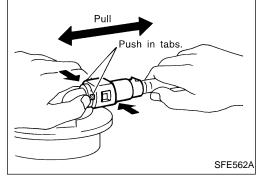
#### CAUTION:

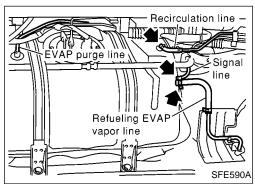
- Before disconnecting fuel hose, release fuel pressure from fuel line. Refer to MA section, "Changing Fuel Filter".
  Do not disconnect any fuel line unless absolutely necessary.
- Do not disconnect any fuel line unless absolutely necessary.
- Plug hose and pipe openings to prevent entry of dust or dirt.
- Always replace O-ring and clamps 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.
- Tighten bolts to specified torque.
- After installation, run engine and check for fuel leaks at connections.
- Use only a genuine fuel filler cap as a replacement.
- For inspection, refer to EC section, "On Board Refueling Vapor Recovery (ORVR)".











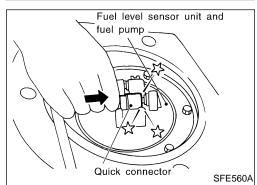
# **Fuel Tank**

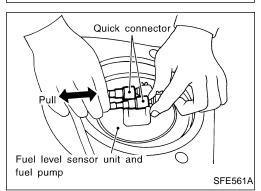
## REMOVAL

- 1. Release fuel pressure from fuel line. Refer to EC section, "Fuel Pressure Release".
- 2. Disconnect battery ground cable.
- 3. Drain fuel from fuel tank.
- 4. Disconnect electrical connector.
- 5. Remove the quick connector as follows.
- a. Put mating marks on tubes and connectors for correct installation.
- 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.
- 6. Disconnect EVAP purge line, recirculation line, signal line and refueling EVAP vapor line at fuel tank side.
- 7. Remove fuel tank mounting band bolts while supporting fuel tank.
- 8. Remove fuel tank.





### INSTALLATION

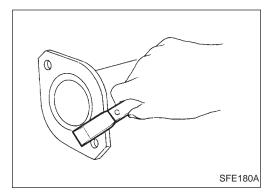
To install, reverse the removal procedure. Connect the quick connector as follows:

- Align mating marks on tubes and connectors for correct installation.
- Align push in tabs with retainer openings.
- Insert tube into the center of the connector until you hear a click.

After connecting quick connector, 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.





#### **CAUTION:**

- Always replace exhaust gaskets with new ones when reassembling. If gasket is left on flange surface, scrape off completely as shown at left.
- 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 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 a new oxygen sensor, clean exhaust system threads using oxygen sensor thread cleaner tool, J-43897-18 or J-43897-12, and apply 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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