

ACCELERATOR CONTROL, FUEL & EXHAUST SYSTEMS

SECTION FE

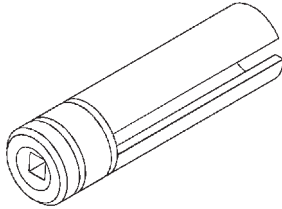
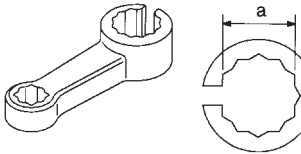
MODIFICATION NOTICE:

VG33E engine has been introduced for Australia.

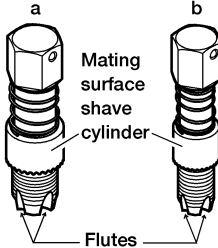
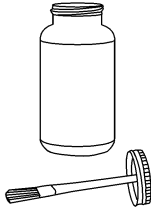
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Special Service Tools

Tool number Tool name	Description
KV10117100 Heated oxygen sensor wrench	Loosening or tightening heated oxygen sensor  NT379 For 22 mm (0.87 in) hexagon nut
KV10114400 Heated oxygen sensor wrench	Loosening or tightening rear heated oxygen sensor (For bank 2)  NT636 a: 22 mm (0.87 in)

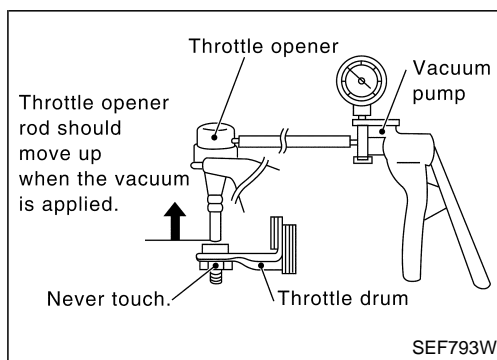
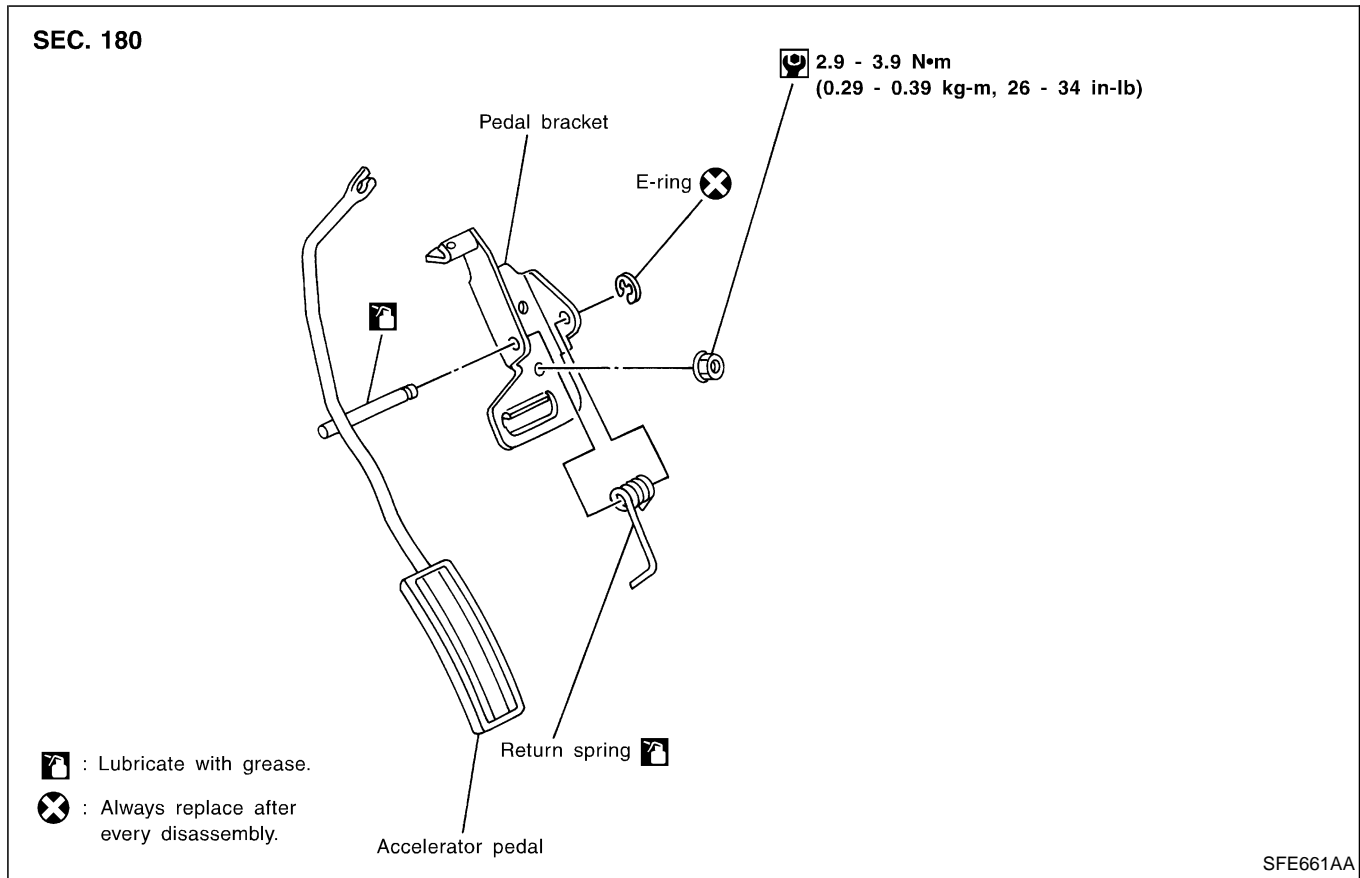
Commercial Service Tools

Tool name	Description
Oxygen sensor thread cleaner	Reconditioning the exhaust system threads before installing a new heated oxygen sensor (Use with anti-seize lubricant shown below.)  AEM488 a: 18 mm dia. with pitch 1.5 mm for zirconia heated oxygen sensor b: 12 mm dia. with pitch 1.25 mm for titania heated oxygen sensor
Anti-seize lubricant (Permatex 133AR or equivalent meeting MIL specification MIL-A-907)	Lubricating heated oxygen sensor thread cleaning tool when reconditioning exhaust system threads  AEM489

Accelerator Control System

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.
- Check accelerator control parts for improper contact with any adjacent parts.
- When connecting accelerator wire, be careful not to twist or scratch wire.

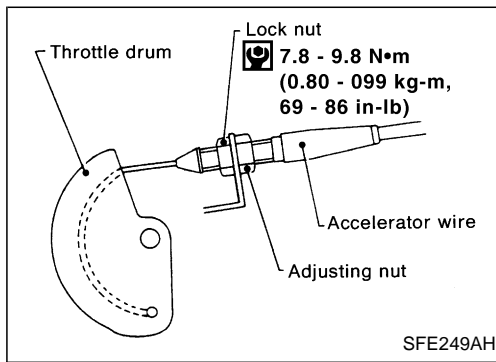
**Adjusting Accelerator Wire****CAUTION:**

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

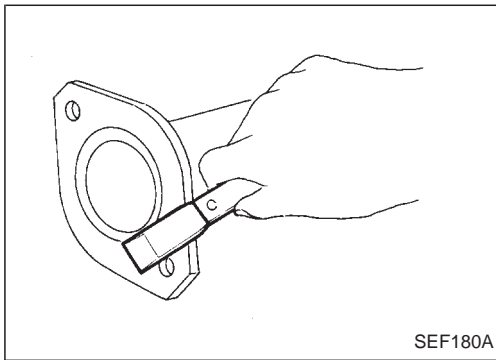
1. Disconnect the vacuum hose connected to the throttle opener.
2. Connect suitable vacuum hose to vacuum pump as shown left.
3. Apply vacuum [more than -40.0 kPa, (-300 mmHg, -11.8 inHg)] until the throttle drum becomes free from the rod of the throttle opener.

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

If NG, refer to "Basic Inspection" in EC section.
If OK, go to following step.

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.

**CAUTION:**

- Perform the operation with the exhaust system fully cooled down because the system will be hot just after the engine stops.
- Always replace exhaust gaskets and exhaust manifold nuts with new ones when reassembling. If gasket is left on flange surface, scrape off completely as shown.
- With engine running, check all tube connections for exhaust gas leaks, and entire system for unusual noises.
- Ensure that mounting brackets and mounting insulators are installed properly and free from undue stress. Improper installation could result in excessive noise or vibration.

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