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SECTION ACC

ACCELERATOR CONTROL SYSTEM

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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

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NOTE:

- This Procedure is applied only to models with Intelligent Key system and NATS (NISSAN ANTI-THEFT SYSTEM).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the "LOCK" position.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NATS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

2. Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the steering lock will be released.
3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
4. Perform the necessary repair operation.

PRECAUTIONS

< PRECAUTION >

5. When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
6. Perform a self-diagnosis check of all control units using CONSULT.

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ACCELERATOR CONTROL SYSTEM

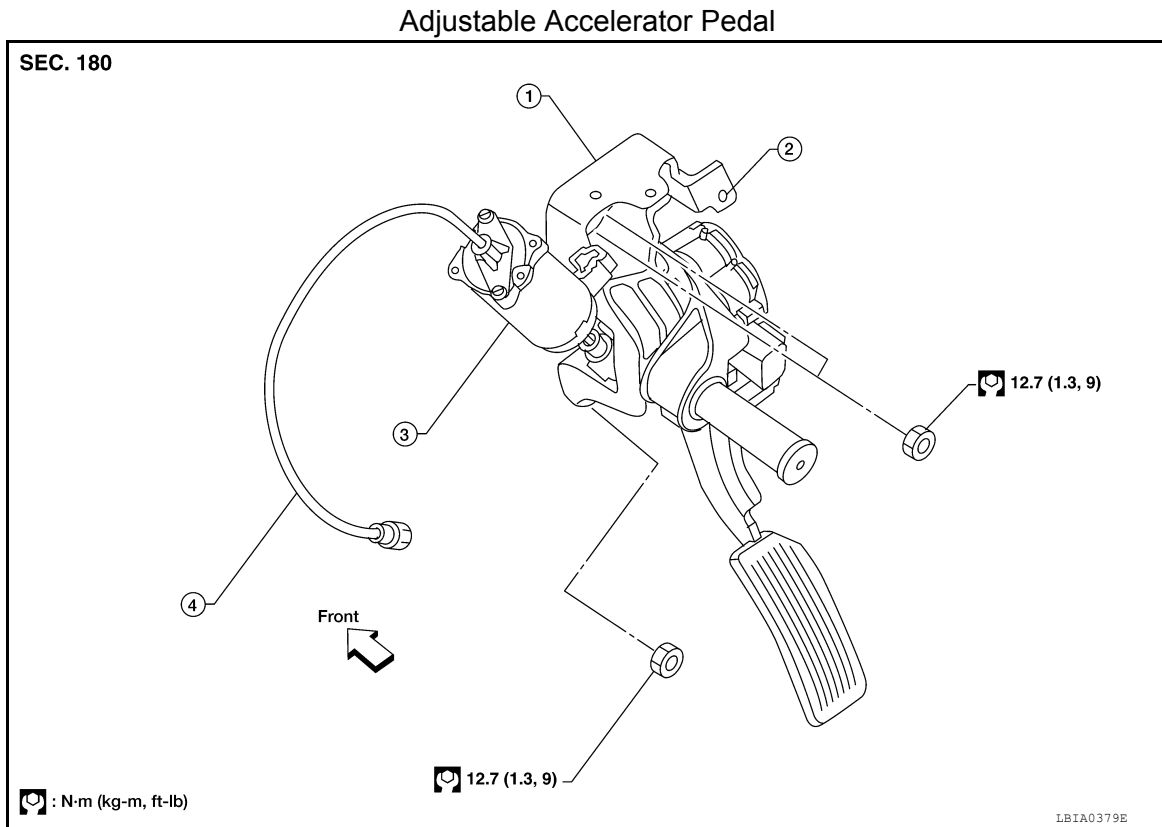
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UNIT REMOVAL AND INSTALLATION

ACCELERATOR CONTROL SYSTEM

Removal and Installation

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1. Adjustable accelerator pedal assembly
2. A/T control cable mounting bracket (part of the accelerator pedal assembly)
3. Adjustable pedal electric motor (part of the accelerator pedal assembly)
4. Adjustable brake pedal cable (part of the accelerator pedal assembly)

CAUTION:

- Before removal and installation the accelerator and brake pedals must be in the front most position. This is to align the base position of the accelerator and brake pedals.
- Do not disassemble the accelerator pedal assembly.
- Do not remove the accelerator pedal position sensor from the accelerator pedal bracket.
- Do not disassemble the accelerator pedal adjusting mechanism.
- Avoid damage from dropping the accelerator pedal assembly during handling.
- Keep the accelerator pedal assembly away from water.

REMOVAL

1. Move the accelerator and brake pedals to the front most position.
2. Turn the ignition switch OFF and disconnect the negative battery terminal.
3. Disconnect the adjustable brake pedal cable from the adjustable brake pedal.
 - Unlock, then pull the adjustable brake pedal cable to disconnect it from the adjustable brake pedal.

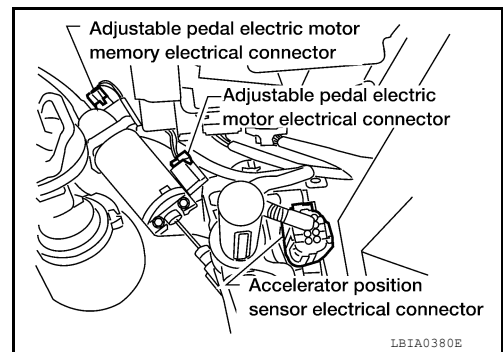
ACCELERATOR CONTROL SYSTEM

< UNIT REMOVAL AND INSTALLATION >

4. Disconnect the adjustable pedal electric motor electrical connector.
5. Disconnect the adjustable pedal electric motor memory electrical connector, if equipped.
6. Disconnect the accelerator position sensor electrical connector.
7. Remove the two upper and one lower accelerator pedal nuts.
8. Remove the adjustable accelerator pedal assembly.

CAUTION:

- Do not disassemble the accelerator pedal assembly.
- Do not remove the accelerator pedal position sensor from the accelerator pedal bracket.
- Do not disassemble the accelerator pedal adjusting mechanism.
- Avoid damage from dropping the accelerator pedal assembly during handling.
- Keep the accelerator pedal assembly away from water.



INSTALLATION

Installation is in the reverse order of removal.

INSPECTION AFTER INSTALLATION

- Check that the accelerator pedal moves smoothly within the specified ranges.

Adjustable accelerator pedal – total pedal applied stroke : Refer to [ACC-6, "Accelerator Control"](#).

Adjustable accelerator pedal – total pedal height : Refer to [ACC-6, "Accelerator Control"](#).

- Depress and release the accelerator pedal to check that it returns smoothly to the original released position.
- Perform an electrical inspection of the accelerator pedal position sensor. Refer to [EC-445, "Component Inspection"](#).

CAUTION:

When the harness connector of the accelerator pedal position sensor is disconnected, perform "Accelerator Pedal Released Position Learning". Refer to [EC-123, "Accelerator Pedal Released Position Learning"](#).

SERVICE DATA AND SPECIFICATIONS (SDS)

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SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Accelerator Control

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Adjustable Accelerator Pedal

Unit: mm (in)

Adjustable accelerator pedal - total pedal applied stroke	48.3 (1.90)
Adjustable accelerator pedal - total pedal height	137.3 ±10 (5.41 ±0.39)