

SECTION **ACC**
ACCELERATOR CONTROL SYSTEM

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000013379963

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. 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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, 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 Air Bag Diagnosis Sensor Unit or other Air Bag 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 or batteries, and wait at least three minutes before performing any service.

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:000000012891628

NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, 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. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.
5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT.

ACCELERATOR CONTROL SYSTEM

< REMOVAL AND INSTALLATION >

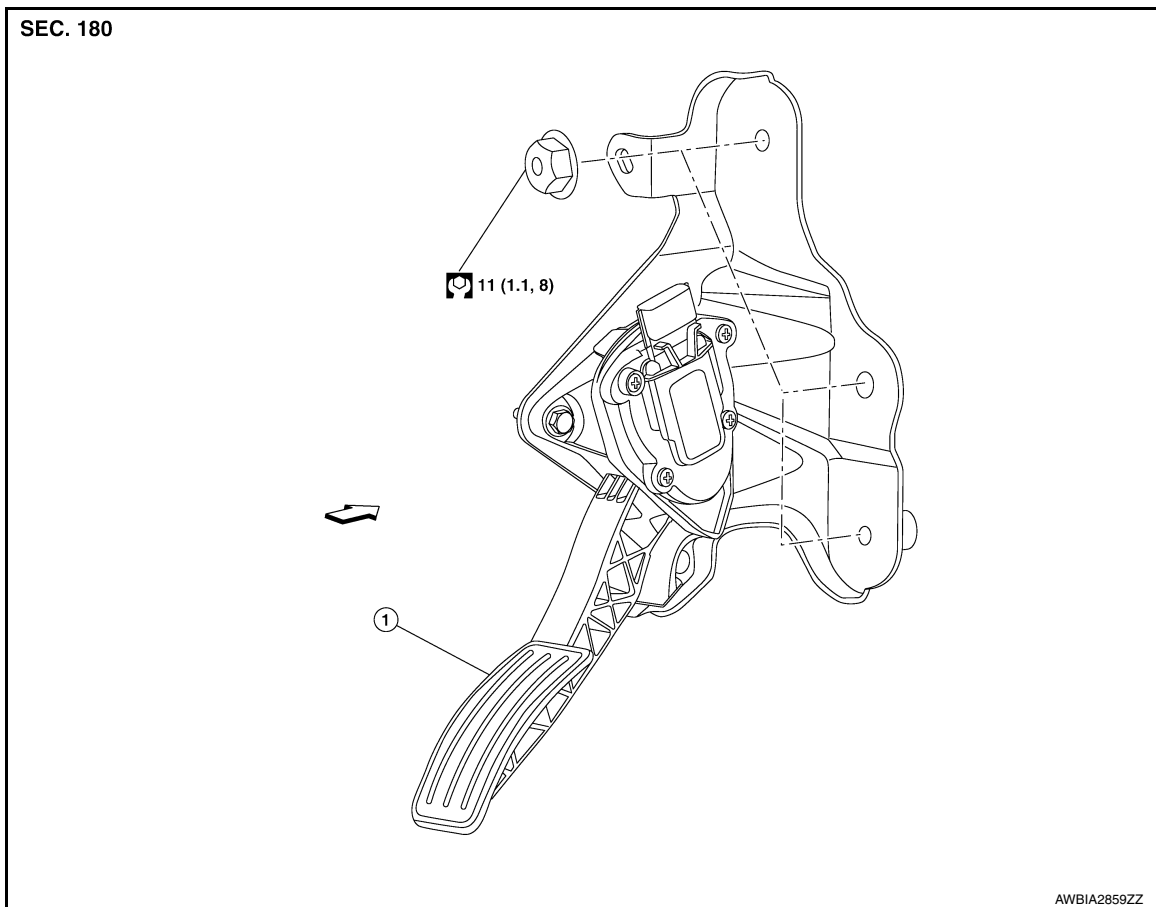
REMOVAL AND INSTALLATION

ACCELERATOR CONTROL SYSTEM

Exploded View

INFOID:000000012891629

ACC



1. Accelerator pedal assembly

← Front

Removal and Installation

INFOID:000000012891630

REMOVAL

1. Remove accelerator pedal assembly nuts.
2. Disconnect harness connector from the accelerator pedal assembly.
3. Remove the accelerator pedal assembly from vehicle.

CAUTION:

- Do not disassemble accelerator pedal assembly.
- Do not drop or impact accelerator pedal assembly.
- Do not expose accelerator pedal assembly to water.

INSTALLATION

Installation is in the reverse order of removal.

NOTE:

For inspection, refer to [ACC-3. "Inspection"](#).

Inspection

INFOID:000000012891631

INSPECTION AFTER INSTALLATION

ACCELERATOR CONTROL SYSTEM

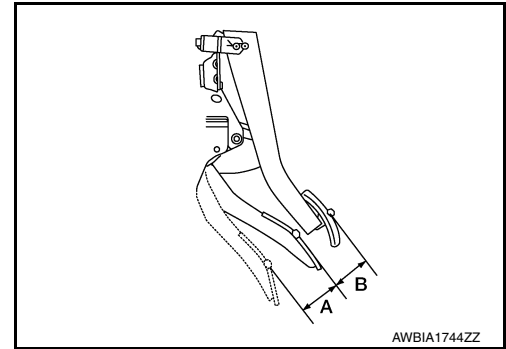
< REMOVAL AND INSTALLATION >

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

Accelerator pedal stroke (A) : Refer to [ACC-5, "Accelerator Control"](#)

- Check the accelerator pedal height.

Accelerator pedal height (B) : Refer to [ACC-5, "Accelerator Control"](#)



- If accelerator pedal does not meet specified values, check brake pedal height. Refer to [BR-7, "Inspection"](#).
- Depress and release the accelerator pedal to check that it returns quickly and smoothly to the original released position.

CAUTION:

- **Whenever the harness connector of the accelerator pedal position sensor has been disconnected, perform "Accelerator Pedal Released Position Learning". Refer to [EC-152, "Description"](#).**
- **The accelerator pedal should operate smoothly without catching when the pedal operating force is released. The pedal should return smoothly to the fully raised position. The spring should be free from damage.**

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

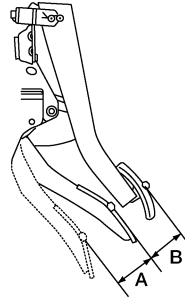
SERVICE DATA AND SPECIFICATIONS (SDS)

Accelerator Control

INFOID:0000000012891632

ACC

Unit: mm (in)



AWBIA1744ZZ

Accelerator pedal stroke (A)	50.5 - 53.5 (1.99 - 2.11)
Pedal height difference between accelerator and brake (B)	35.9 - 45.9 (1.41 - 1.81)