

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.

# ACCELERATOR CONTROL SYSTEM

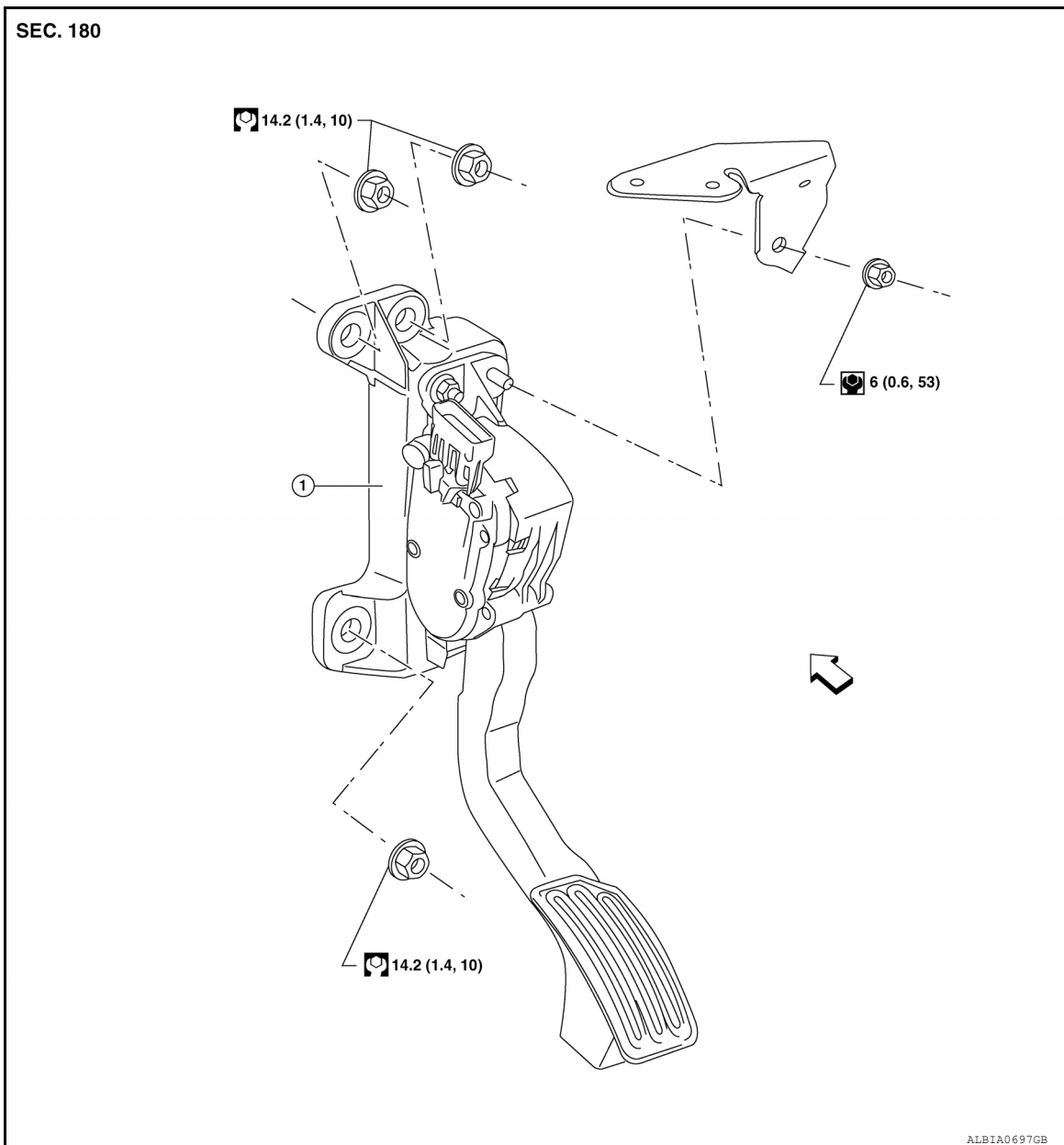
< REMOVAL AND INSTALLATION >

## REMOVAL AND INSTALLATION

### ACCELERATOR CONTROL SYSTEM

Exploded View

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1. Accelerator pedal assembly

← Front

### Removal and Installation

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#### CAUTION:

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

#### REMOVAL

1. Turn the ignition switch OFF and disconnect the negative battery terminal.
2. Disconnect the harness connector from the accelerator pedal position sensor.
3. Remove the wiring harness bracket nut and position the wiring harness bracket aside.

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# ACCELERATOR CONTROL SYSTEM

## < REMOVAL AND INSTALLATION >

4. Remove the two upper and one lower accelerator pedal nuts.
5. Remove the accelerator pedal assembly.

## INSTALLATION

Installation is in the reverse order of removal.

- Perform inspection of the accelerator pedal assembly. Refer to [ACC-4, "Inspection"](#).

## Inspection

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

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

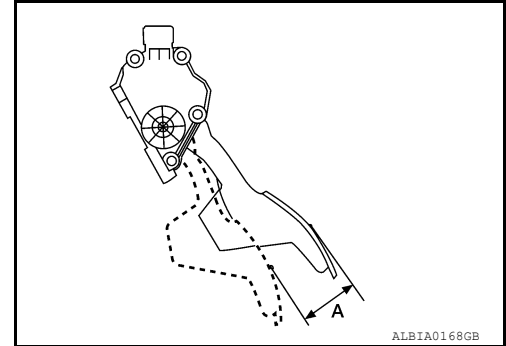
- Check the accelerator pedal height.

**Accelerator pedal height** : Refer to [ACC-5, "Accelerator Pedal"](#).

- Depress and release the accelerator pedal to check that it returns quickly and smoothly to the original released position.
- Perform an electrical inspection of the accelerator pedal position sensor. Refer to [EC-133, "Description"](#) (VQ40DE), [EC-570, "Description"](#) (VK56DE).

### CAUTION:

- The accelerator pedal shall operate smoothly without catching, when the pedal operating force is released. The pedal shall return smoothly to the fully raised position. The spring shall be free from damage.
- When ever the harness connector of the accelerator pedal position sensor is disconnected, perform "Accelerator Pedal Released Position Learning". Refer to [EC-133, "Work Procedure"](#) (VQ40DE), [EC-570, "Work Procedure"](#) (VK56DE).



# SERVICE DATA AND SPECIFICATIONS (SDS)

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## SERVICE DATA AND SPECIFICATIONS (SDS)

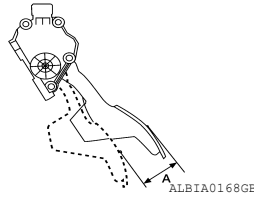
SERVICE DATA AND SPECIFICATIONS (SDS)

Accelerator Pedal

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Unit: mm (in)



Accelerator pedal stroke (A)	48.7 (1.92)
Accelerator pedal height	146 ± 5 (5.7 ± 0.20)