

## BRAKE PEDAL ON-VEHICLE INSPECTION

BR1WB-02

### 1. CHECK PEDAL HEIGHT (W/O VSC)

Pedal height from dash panel:

Standard, access cab:

163.6 to 173.6 mm (6.44 to 6.83 in.)

Double cab:

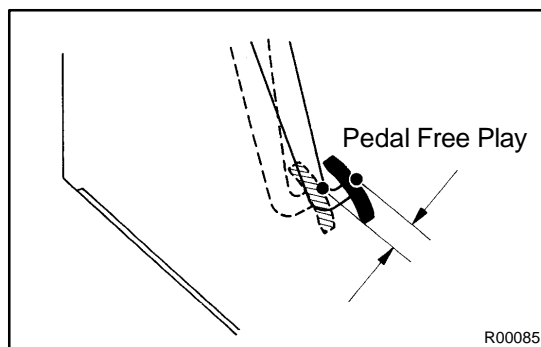
151.1 to 165.1 mm (5.95 to 6.50 in.)

#### NOTICE:

**Do not adjust the pedal height. Doing so by changing the push rod length will structurally change the pedal ratio.**

### 2. CHECK AND ADJUST STOP LIGHT SWITCH

- Disconnect the connector from the stop light switch.
- Turn the stop light switch until it lightly contacts the pedal stopper.
- Connect the connector to the stop light switch.
- Push in the brake pedal 5 to 15 mm (0.20 to 0.59 in), turn the stop light switch to lock the nut in the position where the stop light goes off.
- After installation, push in the brake pedal 5 to 15 mm (0.20 to 0.59 in.) and check that the stop light lights up.
- After adjusting the stop light switch, check the pedal height and the pedal free play.



### 3. CHECK PEDAL FREE PLAY (W/O VSC)

- Stop the engine and depress the brake pedal several times until there is no more vacuum left in the booster.
- Push in the pedal by hand until the second point of resistance begins to be felt, then measure the distance as shown in the illustration.

**Pedal free play: 1 to 6 mm (0.04 to 0.24 in.)**

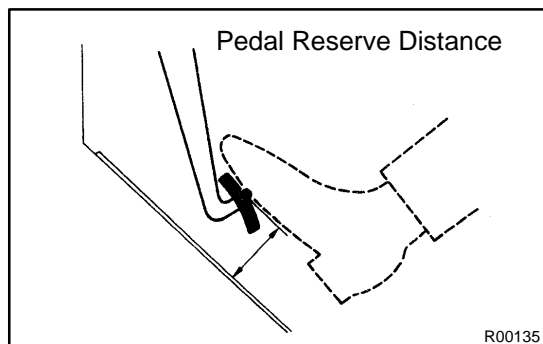
If incorrect, check the stop light switch clearance. If the clearance is OK, then troubleshoot the brake system.

**Stop light switch clearance:**

**0.5 to 2.4 mm (0.020 to 0.094 in.)**

#### HINT:

The free play to the first point of resistance is due to the play between the clevis and pin. It is 1 to 3 mm (0.04 to 0.12 in.) at the pedal.



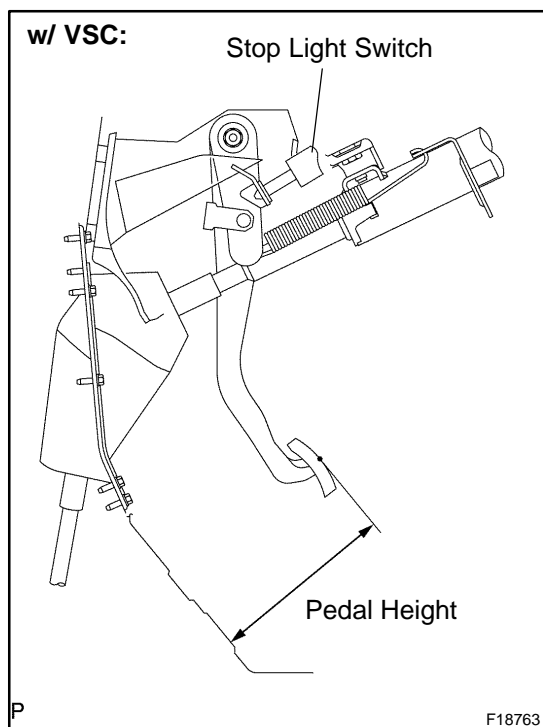
#### 4. CHECK PEDAL RESERVE DISTANCE (W/O VSC)

Release the parking brake.

With the engine running, depress the pedal and measure the pedal reserve distance, as shown in the illustration.

**Pedal reserve distance from asphalt sheet at 490 N (50 kgf, 110.2 lbf): More than 95 mm (3.74 in.)**

If the reserve distance is incorrect, troubleshoot the brake system.



#### 5. CHECK PEDAL HEIGHT (w/ VSC)

**Pedal height from dash panel:**

**Standard, access cab:**

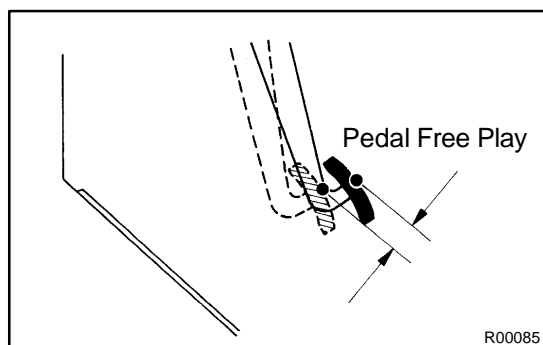
**164.0 to 174.0 mm (6.46 to 6.85 in.)**

**Double cab:**

**151.1 to 165.1 mm (5.95 to 6.50 in.)**

#### 6. IF NECESSARY, ADJUST PEDAL HEIGHT (w/ VSC)

- Remove the scuff plate LH, cowl side trim LH, lower finish panel and No. 2 heater to register duct (see page [BO-111](#)).
  - Disconnect the connector from the stop light switch.
  - Loosen the stop light switch lock nut and remove the stop light switch.
  - Loosen the push rod lock nut.
  - Adjust the pedal height by turning the pedal push rod.
  - Tighten the clevis lock nut.
- Torque: 25.5 N-m (260 kgf-cm, 19 ft-lbf)**
- Install the stop light switch and turn it until it lightly contacts the pedal stopper.
  - Connect the connector to the stop light switch.
  - Push in the brake pedal 5 to 15 mm (0.20 to 0.59 in), turn the stop light switch to lock the nut in the position where the stop light goes off.
  - After installation, push in the brake pedal 5 to 15 mm (0.20 to 0.59 in.) and check that the stop light lights up.
  - After adjusting the pedal height, check the pedal free play.
  - Install the No. 2 heater to register duct, lower finish panel, cowl side trim LH and scuff plate LH.



#### 7. CHECK PEDAL FREE PLAY (w/ VSC)

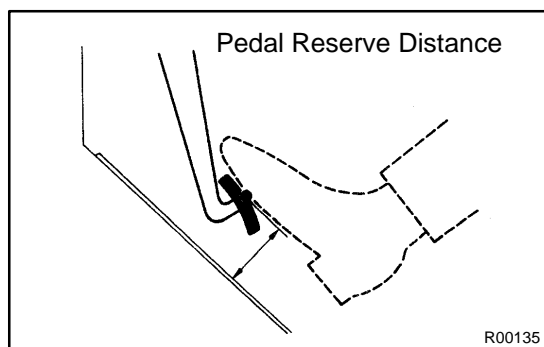
- Stop the engine and depress the brake pedal several times until there is no more vacuum left in the booster.
- Push in the pedal by hand until the second point of resistance begins to be felt, then measure the distance as shown in the illustration.

**Pedal free play: 1 to 6 mm (0.04 to 0.24 in.)**

If incorrect, check the stop light switch clearance. If the clearance is OK, then troubleshoot the brake system.

**Stop light switch clearance:****0.5 to 2.4 mm (0.020 to 0.094 in.)****HINT:**

The free play to the first point of resistance is due to the play between the clevis and pin. It is 1 to 3 mm (0.04 to 0.12 in.) at the pedal.

**8. CHECK PEDAL RESERVE DISTANCE (w/ VSC)**

Release the parking brake.

With the engine running, depress the pedal and measure the pedal reserve distance, as shown in the illustration.

**Pedal reserve distance from asphalt sheet at 490 N (50 kgf, 110.2 lbf): More than 95 mm (3.74 in.)**

If the reserve distance is incorrect, troubleshoot the brake system.