

## BRAKE PEDAL ON-VEHICLE INSPECTION

BROSE-02

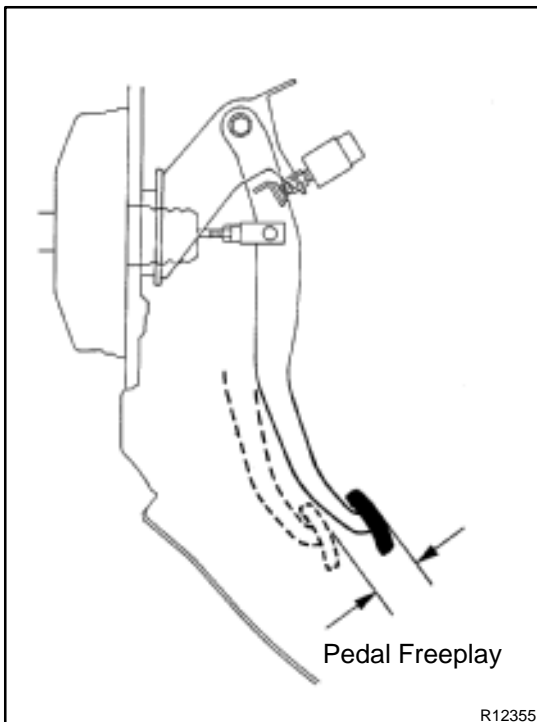
### 1. CHECK PEDAL HEIGHT

**Pedal height from asphalt sheet:**

**138.5 – 148.5 mm (5.453 – 5.846 in.)**

### 2. IF NECESSARY, ADJUST PEDAL HEIGHT

- 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 push rod lock nut.
- Torque: 25 N·m (260 kgf-cm, 19 ft-lbf)**
- Install the stop light switch.
  - Push in the brake pedal 5 – 15 mm (0.20 – 0.59 in.), turn the stop light switch to lock the nut in the position where the stop light goes off.
  - Connect the connector to the stop light switch.
  - After installation, push in the brake pedal 5 – 15 mm (0.20 – 0.59 in.), check that stop light lights up.
  - After adjusting the pedal height, check the pedal freeplay.



### 3. CHECK PEDAL FREEPLAY

- 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 resistance begins to be felt, then measure the distance.

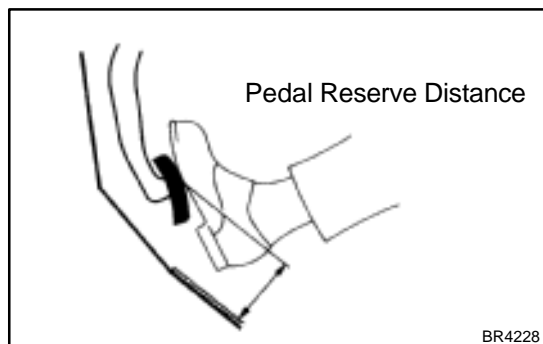
**Pedal freeplay: 1 – 6 mm (0.04 – 0.24 in.)**

#### HINT:

The freeplay to the 1st resistance is due to the play between the clevis and pin. This is magnified up to 1 – 6 mm (0.04 – 0.24 in.) at the pedal.

If incorrect, check the stop light switch clearance.

If the clearance is OK, then troubleshoot the brake system.



#### 4. CHECK PEDAL RESERVE DISTANCE

Release the parking brake.

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

**Pedal reserve distance from asphalt sheet at 490 N (50 kgf, 110.2 lbf):**

**w/o ABS More than 60 mm (2.36 in.)**

**w/ ABS More than 55 mm (2.17 in.)**

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