

BRAKE PEDAL ON-VEHICLE INSPECTION

1. CHECK PEDAL HEIGHT

Pedal height from asphalt sheet:

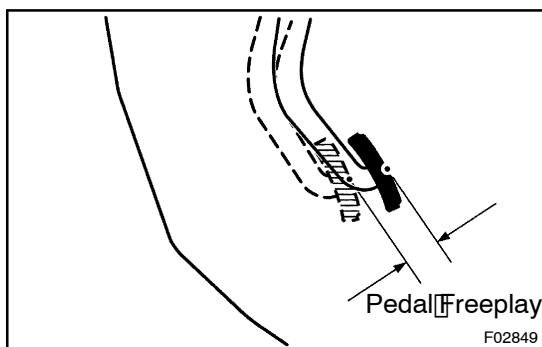
LHD: 183.7 – 193.7 mm (7.232 – 7.626 in.)

RHD: 190.2 – 200.2 mm (7.488 – 7.882 in.)

If the pedal height is incorrect, adjust it.

2. IF NECESSARY, ADJUST PEDAL HEIGHT

- Remove the cowl side trim, lower No.1 panel and No.2 heater to register duct. (See page BO-124)
- 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.
- Install the No.2 heater to register duct, lower No.1 panel and cowl side trim. (See page BO-124)



3. CHECK PEDAL FREEPLAY

- w/o ABS:
Stop the engine and depress the brake pedal more than 10 times until there is no more pressure left in the booster.
- w/ ABS:
Stop the engine and depress the brake pedal more than 40 times until there is no more pressure 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.

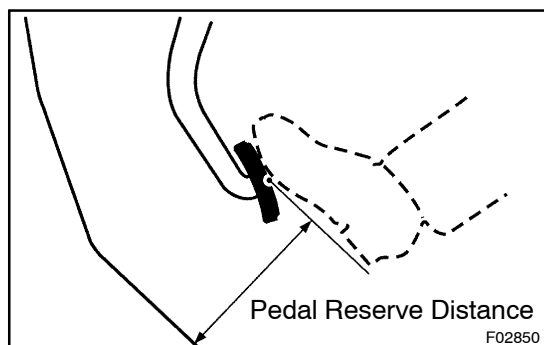
Pedal freeplay: 1.0 – 6.0 mm (0.039 – 0.236 in.)

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

Stop light switch clearance: 1.0 mm (0.039 in.)

HINT:

The freeplay to the 1st point of resistance is due to the play between the clevis, pedal link and pin. It is 1.0 – 6.0 mm (0.039 – 0.236 in.) on the pedal.



4. CHECK PEDAL RESERVE DISTANCE

- (a) Remove the floor carpet.
- (b) Release the parking brake.

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

Pedal reserve distance at 490 N (50 kgf, 110.1 lbf):

| | |
|-----|-------------------------------------|
| LHD | w/ ABS: More than 116 mm (4.57 in.) |
| | w/o ABS: More than 93 mm (3.66 in.) |
| RHD | w/ ABS: More than 121 mm (4.76 in.) |
| | w/o ABS: More than 98 mm (3.86 in.) |

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