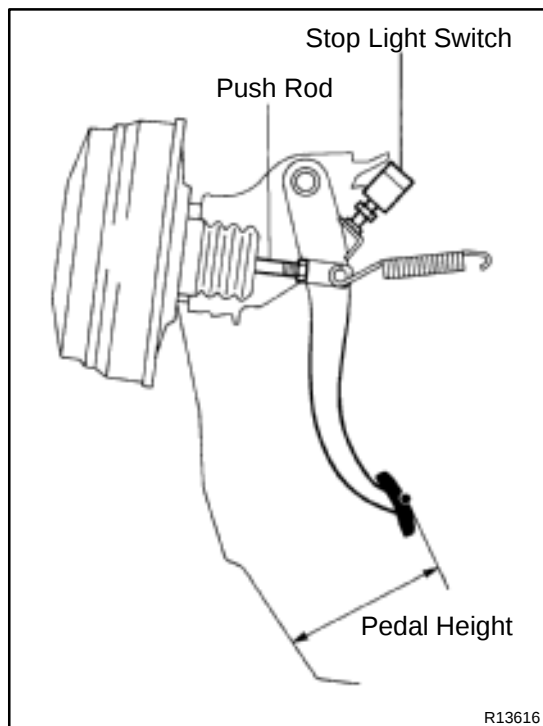




BRAKE PEDAL ON-VEHICLE INSPECTION

BROYL-01

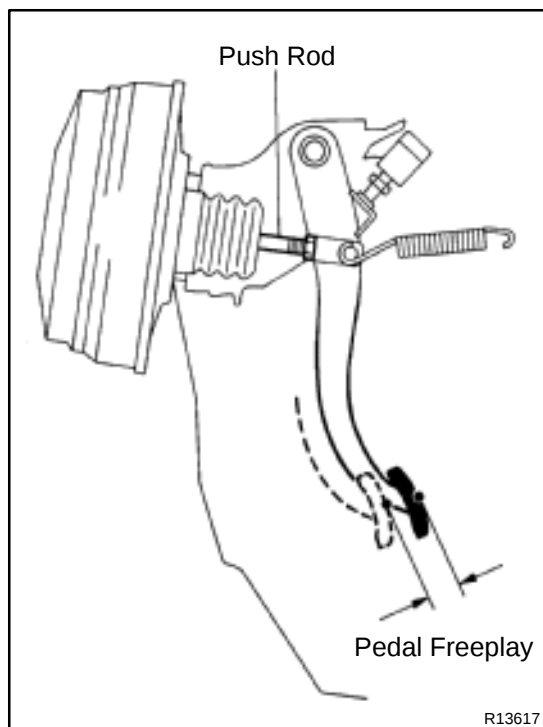
1. CHECK PEDAL HEIGHT

Pedal height from asphalt seat:

154.6 – 164.6 mm (6.087 – 6.480 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 the brake pedal in 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.
- Push the brake pedal in 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 second resistance begins to be felt. Measure the distance.
Pedal freeplay: 3 – 6 mm (0.12 – 0.24 in.)

HINT:

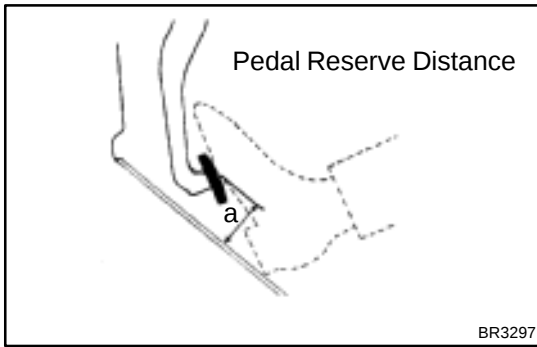
The freeplay to the 1st resistance is due to the play between the clevis and pin. This is magnified up to 1 – 3 mm (0.04 – 0.12 in.) at the pedal.

If correct, check the stop light switch clearance.

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

Stop light switch clearance:

0.5 – 2.4 mm (0.020 – 0.094 in.)



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, 'a', at 490 N (50 kgf, 110.2 lbf):

More than 72 mm (2.83 in.)

If incorrect, troubleshoot the brake system.