

CHECK AND ADJUSTMENT BRAKE PEDAL CHECK AND ADJUSTMENT

1. CHECK PEDAL HEIGHT

Pedal height from asphalt sheet: 140–150 mm (5.51–5.91 in.)

2. IF NECESSARY, ADJUST PEDAL HEIGHT

- (a) Disconnect the connector from the stop light switch.
- (b) Loosen the stop light switch lock nut and remove the stop light switch.
- (c) Loosen the push rod lock nut.
- (d) Adjust the pedal height by turning the pedal push rod.
- (e) Tighten the push rod lock nut.

Torque: 25 N-m (260 kgf-cm, 19 ft-lbf)

- (f) Install the stop light switch and turn it until it lightly contacts the pedal stopper.
- (g) Turn the stop light switch back one turn.
- (h) Check the clearance (A) between stop light switch and pedal.

Clearance:

0.5–2.4 mm (0.02–0.09 in.)

- (i) Tighten the stop light switch lock nut.
- (j) Check the stop lights come on when the brake pedal is depressed, and go off when the brake pedal is released.
- (k) After adjusting the pedal height, check the pedal free play.

HINT: If clearance (A) between the stop light switch and the pedal stopper has been adjusted correctly, the pedal freeplay will meet the specifications.

3. CHECK PEDAL FREEPLAY

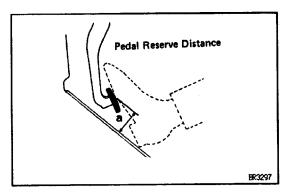
- (a) Stop the engine and depress the brake pedal several times until there is no more vacuum left in the boost-er.
- (b) Push in the pedal by hand until the beginning of the second resistance is felt. Measure the distance, as shown.

Pedal freeplay:

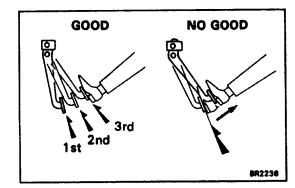
3–6 mm (0.12–0.24 in.)

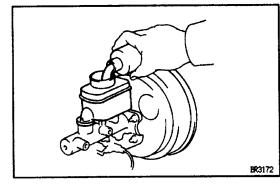
If incorrect, check the stop light switch clearance. If the clearance is OK, then troubleshoot the brake system.

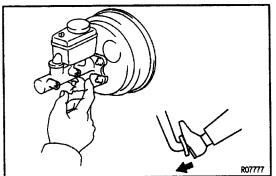
HINT: The freeplay to the 1 st resistance is due to the play between the clevis and pin. This is magnified up to 1-3 mm (0.04-0.12 in.) at the pedal.



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4. CHECK PEDAL RESERVE DISTANCE

Release the parking brake.

With 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 4–Wheel ABS: More than 65 mm (2.56 in.) w/ 4–Wheel ABS: More than 70 mm (2.76 in.)

If incorrect, troubleshoot the brake system.

BRAKE BOOSTER OPERATIONAL TEST

1. OPERATING CHECK

- (a) Depress the brake pedal several times with the engine oft, and check that there is no change in the pedal reserve distance.
- (b) Depress the brake pedal and start engine. If the pedal goes down slightly, operation is normal.

2. AIR TIGHTNESS CHECK

- (a) Start the engine and stop it after 1 or 2 minutes.
 Depress the brake pedal several times slowly.
 If the pedal goes down furthest the 1 st time, but gradually rises after the 2nd or 3rd time, the booster is air tight.
- (b) Depress the brake pedal while the engine is running, and stop it with the pedal depressed. If there is no change in pedal reserve travel after holding the pedal for 30 seconds, the booster is air tight.

BRAKE SYSTEM BLEEDING

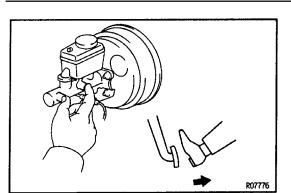
HINT: If any work is done on the brake system or if air is suspected in the brake lines, bleed the system of air **NOTICE: Do not lot broke fluid remain on a painted surface. Wash it off immediately.**

- 1. FILL BRAKE RESERVOIR WITH BRAKE FLUID Check the fluid level in the reservoir after bleeding each wheel. Add fluid, if necessary.
 - Fluid: SAE J1703 or FMVSS No. 116 DOT 3

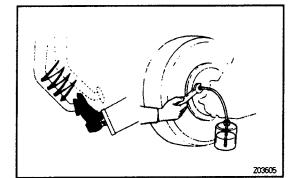
2. BLEED MASTER CYLINDER

HINT: If the master cylinder was disassembled orthe reservoir becomes empty, bleed the air from the master cylinder.

- (a) Disconnect the brake lines from the master cylinder.
- (b) Slowly depress the brake pedal and hold it.



- (c) Block oft the outlet plug with your finger, and release the brake pedal.
- (d) Repeat (b) and
- (c) 3 or 4 times.



3. CONNECT VINYL TUBE TO WHEEL CYLINDER BLE-EDER PLUG

Insert other end of the tube in a half-full container of brake fluid.

HINT: Begin air bleeding from the wheel cylinder with the longest hydraulic line.

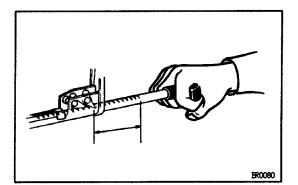
4. BLEED BRAKE LINE

- (a) Slowly depress the brake pedal several times.
- (b) While an assistant depresses the pedal, loosen the bleeder plug until fluid starts to run out. Then close the bleeder plug.
- (c) Repeat this procedure until there are no more air bubbles in the fluid.

Bleeder plug tightening torque:

11 N-m (110 kgf-cm, 8 ft-lbf)

- 5. REPEAT PROCEDURE FOR EACH WHEEL
- 6. BLEED LSP & BV

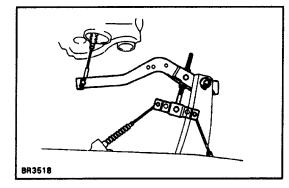


PARKING BRAKE CHECK AND ADJUSTMENT

1. CHECK PARKING BRAKE LEVER TRAVEL

Pull the parking brake level all the way up, and count the number of clicks.

Parking broke lover travel at 196 N (20 kgf, 44.1 lbf): 13–19 clicks



2. IF NECESSARY, ADJUST PARKING BRAKE

HINT: Before adjusting the parking brake, make sure that the rear brake shoe clearance has been adjusted. (a) Loosen the lock nut and turn the adjusting nut until the travel is correct.

(b) Then tighten the lock nut.

Torque: 13 N-m (130 kgf-cm, 9 ft-lbf)

(c) After adjusting the parking brake, confirm that the rear brakes are not dragging.