

Last Modified: 5-10-2010	6.4 T	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000011BL00SX
Title: PARKING BRAKE: PARKING BRAKE SYSTEM: PROBLEM SYMPTOMS TABLE (2010 4Runner)		

PROBLEM SYMPTOMS TABLE

HINT:

Use the table below to help determine the cause of problem symptoms. If multiple suspected areas are listed, the potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.

Parking Brake System

SYMPTOM	SUSPECTED AREA	SEE PAGE
Parking brake drag	Parking brake pedal travel (Out of adjustment)	INFO
	Parking brake wire (Sticking)	INFO
	Parking brake shoe clearance (Out of adjustment)	INFO
	Parking brake shoe lining (Cracked or distorted)	INFO
	Tension or return spring (Damaged)	INFO

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Title: PARKING BRAKE: PARKING BRAKE SYSTEM: ADJUSTMENT (2010 4Runner)		

ADJUSTMENT

1. INSPECT PARKING BRAKE PEDAL TRAVEL

- (a) Fully depress the parking brake pedal to engage the parking brake.
- (b) Depress the pedal again to disengage the parking brake.
- (c) Slowly depress the parking brake pedal using the specified force and count the number of clicks.

Standard parking brake pedal travel:

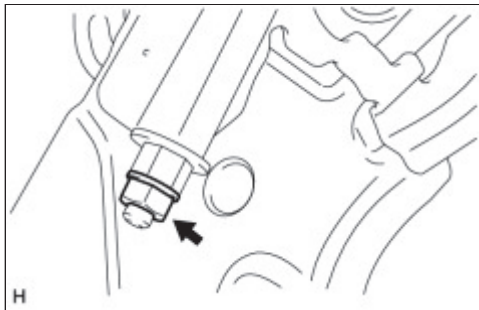
5 to 7 clicks at 294 N (30 kgf, 66 lbf)

If the parking brake pedal travel is not as specified, adjust the parking brake shoe clearance and parking brake pedal travel.

2. REMOVE REAR WHEEL

3. ADJUST PARKING BRAKE SHOE CLEARANCE AND PARKING BRAKE PEDAL TRAVEL

- (a) Remove the lower instrument panel finish panel sub-assembly [INFO](#).
- (b) Completely release the parking brake pedal.



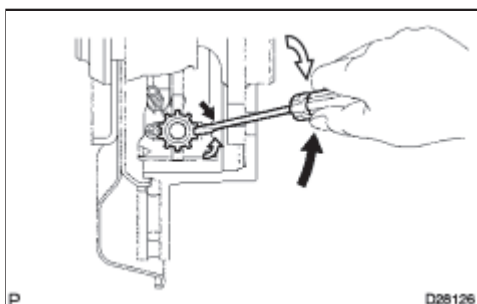
- (c) Loosen the lock nut and adjusting nut to completely release the parking brake cable.

- (d) Temporarily install the hub nuts to the hub bolts.

HINT:

Securely install the hub nuts to the rear disc.

- (e) Turn the shoe adjuster so that it expands until the disc locks.



Text in Illustration

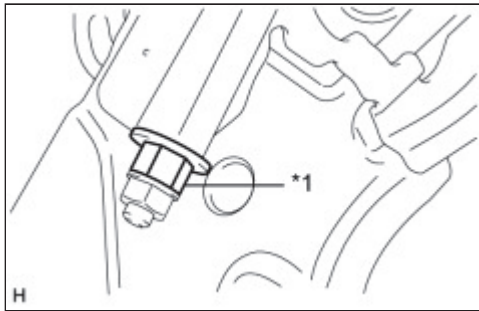
	Shoe Adjuster Contracts
	Shoe Adjuster Expands

(f) Turn the shoe adjuster so that it contracts until the disc can rotate smoothly.

Standard:

8 notches

(g) Check that there is no brake drag against the shoe.



(h) Turn the adjusting nut until the parking brake pedal travel is corrected to be within the specified range.

Standard parking brake pedal travel:

5 to 7 clicks at 294 N (30 kgf, 66 lbf)

Text in Illustration

* 1	A adjusting Nut
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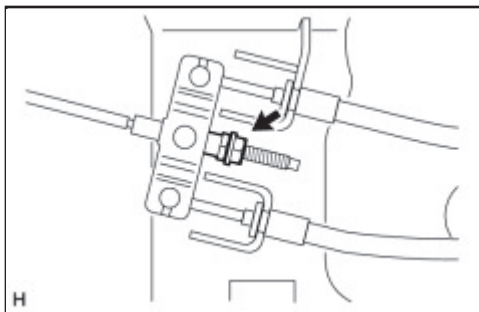
(i) Using a wrench or an equivalent tool, hold the adjusting nut and tighten the lock nut.

Torque: 5.4 N·m (55 kgf·cm, 48in·lbf)

(j) Operate the parking brake pedal 3 to 4 times and check the parking brake pedal travel.

(k) Check that there is no brake drag against the shoe.

(l) Additionally, excessive pedal travel can be adjusted on the No. 1 parking brake cable as follows.



(1) Loosen the No. 1 parking brake cable lock nut.

(2) Turn the No. 1 parking brake cable adjustment nut until the parking brake pedal travel is correct.

Standard parking brake pedal travel:

5 to 7 clicks at 294 N (30 kgf, 66 lbf)

(3) Tighten the No. 1 parking brake cable lock nut.

Torque: 13 N·m (127 kgf·cm, 9ft·lbf)

NOTICE:

Pay attention that the adjustment nut does not rotate together with the lock nut during tightening.

(4) Depress and release the parking brake pedal 3 or 4 times. Then check the number of clicks when depressing the pedal.

Standard:

5 to 7 notches

If the result is not as specified, adjust the parking brake pedal travel again.

(m) Remove the hub nuts from the hub bolts.

(n) Install the lower instrument panel finish panel sub-assembly .

(o) When operating the parking brake lever, check that the brake warning light comes on.

OK:

The brake warning light always illuminates at the first click.

4. INSTALL REAR WHEEL





TOYOTA