



**Technical Service
BULLETIN**

April 2, 1999

Title:

**PARKING BRAKE ADJUSTMENT
PROCEDURE TO REDUCE RATTLE NOISE**

Models:

'98 Land Cruiser

**BRAKES
BR002-99**

Introduction To reduce the potential for rattle noise from rear parking brake components when driving over bumps or rough roads, the following procedure should be utilized when adjusting the parking brake.

**Warranty
Information**

OP CODE	DESCRIPTION	TIME	OPN	T1	T2
046214	Parking Brake Adjustment	0.5	-	91	99

Applicable Warranty*:

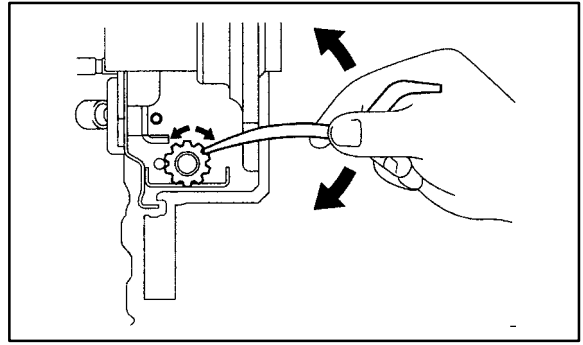
This repair is covered under the Toyota Adjustment Warranty. This warranty is in effect for 12 months or 12,500 miles, whichever occurs first, from the vehicle's in-service date.

* Warranty application is limited to correction of a problem based upon a customer's specific complaint.



**Repair
Procedure****1. Shoe Clearance Adjustment**

- a. Disconnect parking brake cable ends from bellcranks at rear wheel backing plates.
- b. Remove the 2 bellcrank springs.
- c. Loosen the bellcrank adjusting bolt.
- d. Remove rear wheels and temporarily install 3 lug nuts to secure each rear brake disc.
- e. Remove rubber access hole plug.
- f. Turn adjuster wheel upward until disc does not turn by hand.
- g. Then turn adjuster wheel the opposite direction approximately 4 teeth.

**HINT:**

Because teeth do not make audible clicking noise, fine adjustment of shoe clearance may be necessary.

- h. Install hole plug.
- i. Repeat adjustment on opposite side of vehicle.

2. Inspection of Shoe Clearance Adjustment

- a. Rotate rear brake disc and listen for rubbing noise.
- b. Stop rotation at midpoint of shoe contact (loudest point of rubbing noise).
- c. Pull bellcrank 3 times to center shoes in disc drum, and recheck rubbing noise and rotational drag.

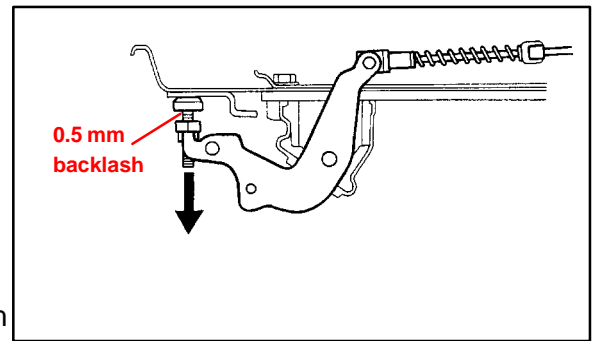
NOTE:

If noise or drag is excessive (brake disc cannot be freely rotated by hand), readjust as per “e” and “g” of step 1.

Repair Procedure
(Continued)

3. Bellcrank Adjustment

- Pull bellcrank to remove slack in internal linkage.
- Turn bellcrank adjusting bolt clockwise until rubber pad contacts backing plate.
- Then turn adjusting bolt counterclockwise 1/2 turn, and torque lock nut to achieve 0.5mm backlash. **Lock nut torque: 5.4 N•m (55 Kgf•cm, 48 in•lbf)**
- Reinstall springs (bellcrank to backing plate).

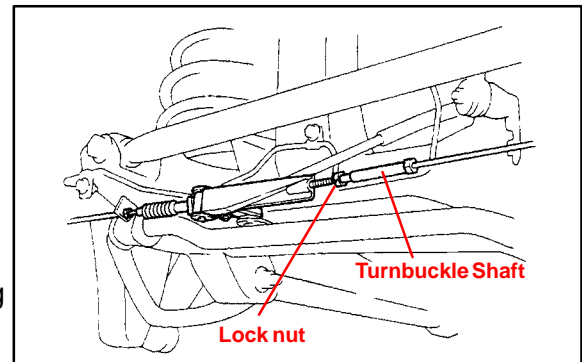


NOTE:

Repeat Steps 2 and 3 on opposite side of vehicle.

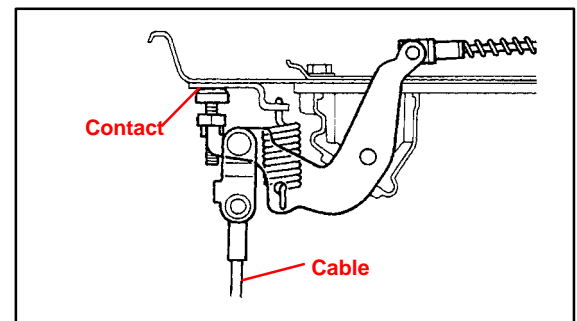
4. Parking Brake Cable Adjustment

- Loosen locknut turnbuckle while holding turnbuckle shaft.
- Loosen cable and reconnect ends to both bellcranks.
- Tighten cable and adjust so that rubber pads of both bellcrank stopper bolts fully contact backing plates without slack in cable.
- Tighten turnbuckle lock nut. **Lock nut torque: 5.4 N•m (55 Kgf•cm, 48 in•lbf)**
- Reinstall rear wheels and torque lug nuts. **Lug nut torque: 131 N•m (1,340 Kgf•cm, 97 ft•lbf)**



5. Inspection of Parking Brake Cable Adjustment

- Push up and down on bellcranks to ensure that rubber pads have enough contact with backing plates to prevent vertical movement.
- Pull Parking Brake Cable slightly to ensure that rubber pad contact to backing plate is eliminated with minimal cable movement.



NOTE:

If contact is other than above description, readjust turnbuckle as needed.