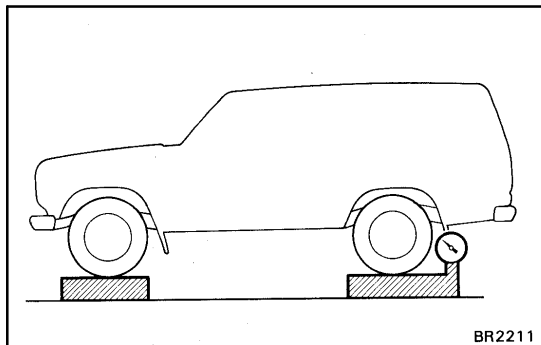


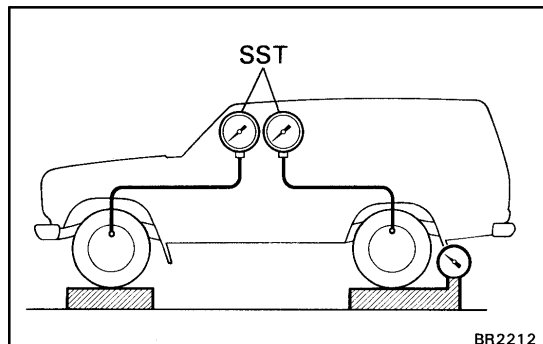


LOAD SENSING PROPORTIONING AND BY-PASS VALVE (LSP & BV) ON-VEHICLE INSPECTION

BR1DC-03

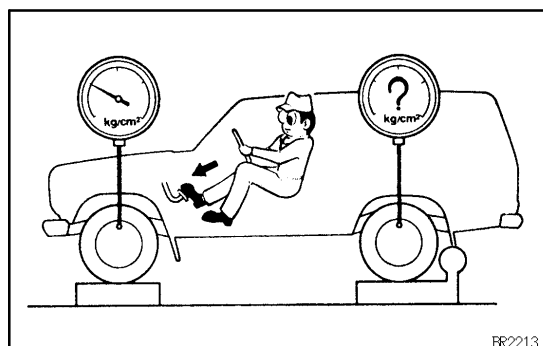
1. SET REAR AXLE LOAD

Rear axle load (include vehicle weight):
1,330 kg (2,932 lb)



2. INSTALL LSPV GAUGE (SST) AND BLEED AIR

SST 09709-29017

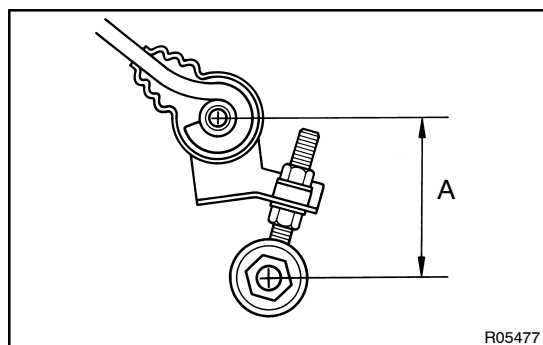


3. RAISE FRONT BRAKE PRESSURE TO 7,845 kPa (80 kgf/cm², 1,138 psi) AND CHECK REAR BRAKE PRESSURE

Rear brake pressure:
5,984 ± 589 kPa (61 ± 6 kgf/cm², 869 ± 86 psi)

HINT:

The brake pedal should not be depressed twice and/or returned while setting to the specified pressure. Read the value of rear pressure 2 seconds after adjusting the specified fluid pressure.



4. IF NECESSARY, ADJUST FLUID PRESSURE

- Disconnect the No.2 shackle from the shackle bracket.
- Adjust the length of the No.2 shackle turning it.

Low pressure – Lengthen A.

High pressure – Shorten A

Initial set: 90 mm (3.54 in.)

Adjusting range: 84 – 96 mm (3.31 – 3.78 in.)

HINT:

One turn of the No.2 shackle changes the fluid pressure by about 98.1 kPa (1.0 kgf/cm², 14.2 psi).

- In event the pressure cannot be adjusted by No.2 shackle, raise or lower the valve body.

Low pressure – Lower

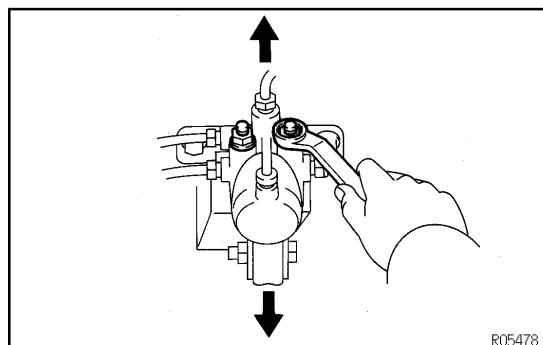
High pressure – Raise

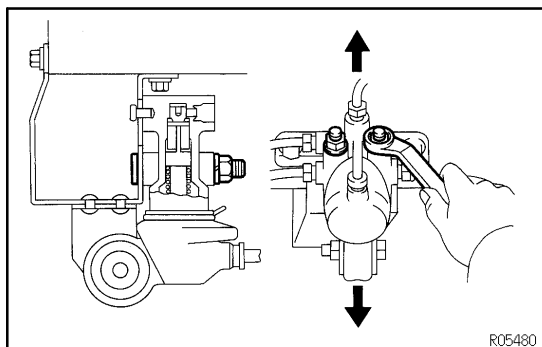
- Torque the 2 nuts.

Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)

- Adjust the length of the No.2 shackle again.

If it cannot be adjusted, inspect the valve housing.

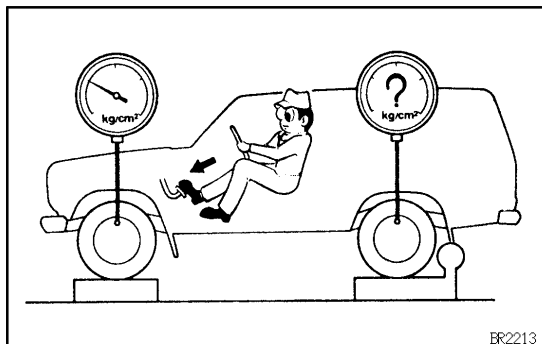


**5. IF NECESSARY, CHECK VALVE BODY**

(a) Assemble the valve body in the uppermost position.

HINT:

When the brakes are applied, the piston will move down about 1 mm (0.039 in.). Even at this time, the piston should not make contact with or move the load sensing spring.



(b) In this position, check the rear brake pressure.

Front brake pressure kPa (kgf/cm ² , psi)	Rear brake pressure kPa (kgf/cm ² , psi)
3,434 (35, 498)	3,434 (35, 498)
5,396 (55, 783)	3,630 – 4,218 (37 – 43, 527 – 612)
9,810 (100, 1,424)	4,513 – 5,494 (46 – 56, 655 – 797)