

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

BR0VU-01

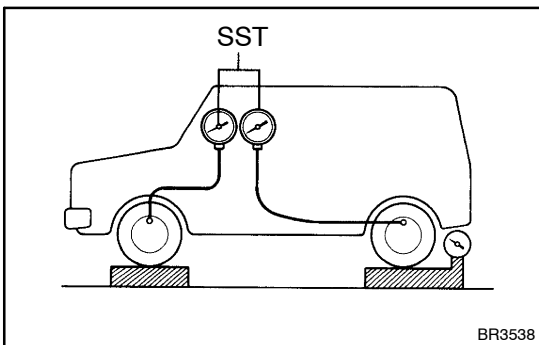
1. SET REAR AXLE LOAD

UZJ100, FZJ100, HDJ100:

Australia, Middle East 1500 kg (3,306 lb)

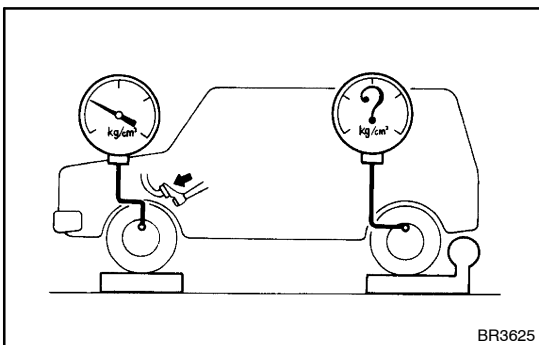
Others 1450 kg (3,196 lb)

FZJ105, HZJ105: 1450 kg (3,196 lb)



2. INSTALL LSPV GAUGE (SST) AND BLEED AIR

SST 09709-29018



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

UZJ100, FZJ100, HDJ100:

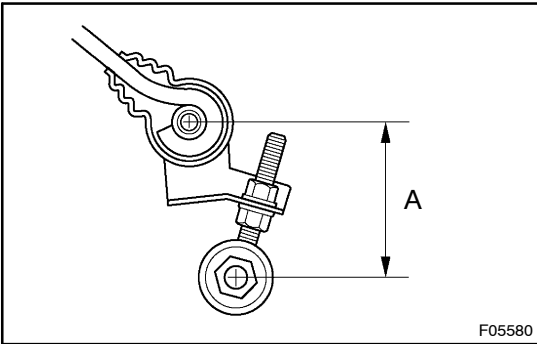
4,874–6,051 kPa (49.7–61.7 kgf/cm², 706.7–877.4 psi)

FZJ105, HZJ105:

5,168–6,345 kPa (52.7–64.7 kgf/cm², 749.3–920.2 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: 86 – 94 mm (3.39 – 3.78 in.)

HINT:

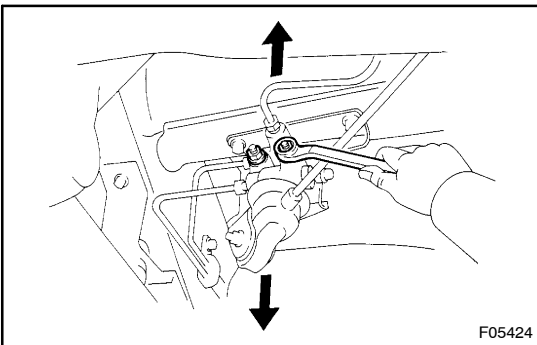
One turn of the No. 2 shackle changes the fluid pressure about following specification.

UZJ100, FZJ100 HDJ100:

82.4 kPa (0.84 kgf/cm², 12.0 psi)

FZJ105, HZJ105:

69.6 kPa (0.71 kgf/cm², 10.1 psi)



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

Low pressure – Lower

High pressure – Raise

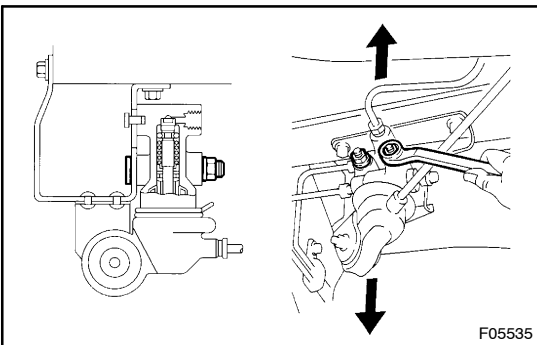
- Torque the nuts.

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.

- Connect the No. 2 shackle to the shackle bracket.

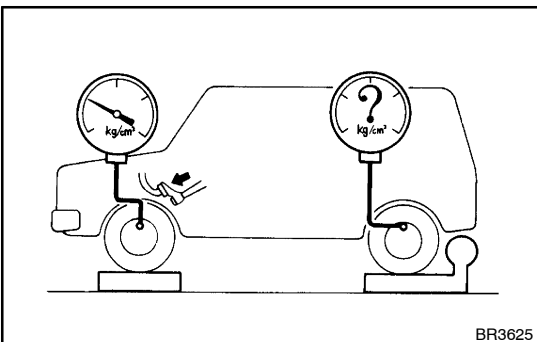


5. IF NECESSARY, CHECK VALVE BODY

- Assemble the valve body in the upper most position.

HINT:

When the brakes are applied, the piston will move down about 1 mm (0.04 in). Even at this time, the piston should not make contact with or move the load sensing spring.



- In this position, check the rear brake pressure.

Front brake pressure kPa (kg/cm ² , psi)	Rear brake pressure kPa (kg/cm ² , psi)
3,434 (35, 498)	2,746 (28, 398)
5,396 (55, 783)	3,040 – 3,628 (31 – 37, 441 – 526)
9,810 (100, 1,424)	4,364 – 4,952 (44.5 – 50.5, 633 – 718)

If the measured value is not within standard, replace the valve body.