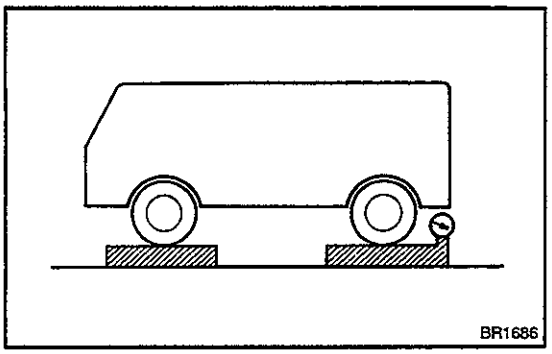
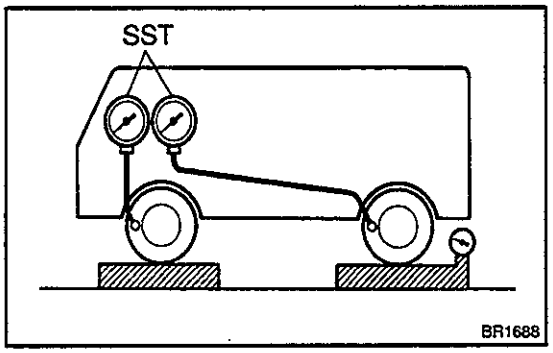


LOAD SENSING PROPORTIONING AND BY–PASS VALVE (LSP & BV)

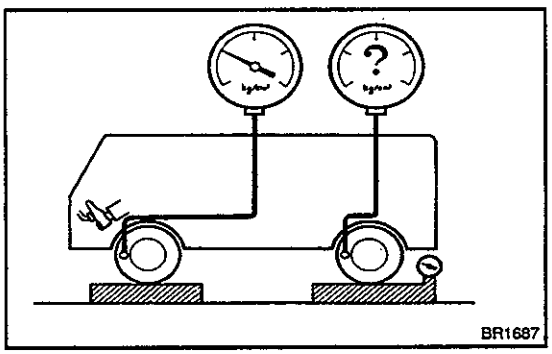
BR043–01

ON–VEHICLE INSPECTION

1. **SET REAR AXLE LOAD**
   Rear axle load (includes vehicle weight):
   1,850 kg (4,079 lb)



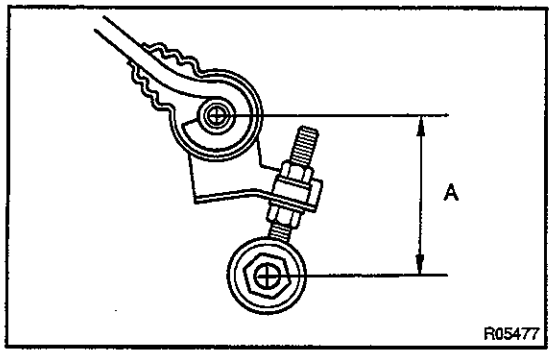
2. **INSTALL LSPV GAUGE (SST) AND BLEED AIR**
   SST 09709–29018



3. **RAISE FRONT BRAKE PRESSURE TO 7,845 kPa (80 kgf/cm^2, 1,138 psi) AND CHECK REAR BRAKE PRESSURE**
   Rear brake pressure:
   5,855 ± 490 kPa (59.7 ± 5 kgf/cm^2, 849 ± 71 psi)

HINT:

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



4. IF NECESSARY, ADJUST FLUID PRESSURE

(a) Loosen the lock nut.

(b) Adjust the length of the No.2 shackle.

Low pressure: Lengthen A

High pressure: Shorten A

Initial set: 90 mm (3.54 in.)

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

HINT:

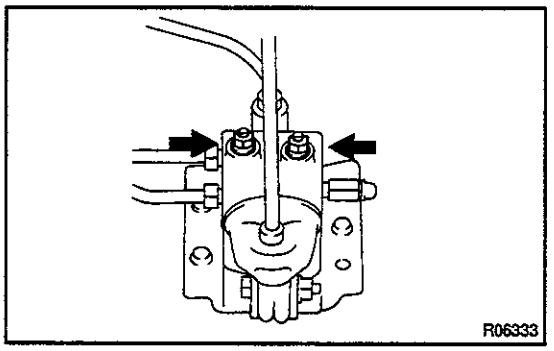
One turn of the nut changes the fluid pressure as shown in the following specification.

7.5 kPa (0.77 kgf/cm, 11 psi)

(c) Torque the lock nut.

Torque: 25 N·m (250 kgf·cm, 18 ft·lbf)

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(d) If the pressure cannot be adjusted by the No.2 shackle, raise or lower the valve body.

Low pressure–Lower body

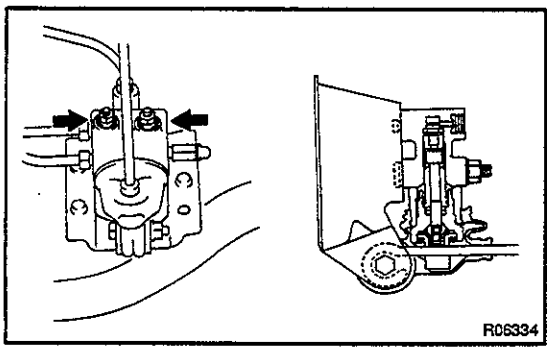
High pressure–Raise body

(e) Torque the nuts.

Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)

(f) Adjust the length of the No.2 shackle again.

If it cannot be adjusted, inspect the valve housing.

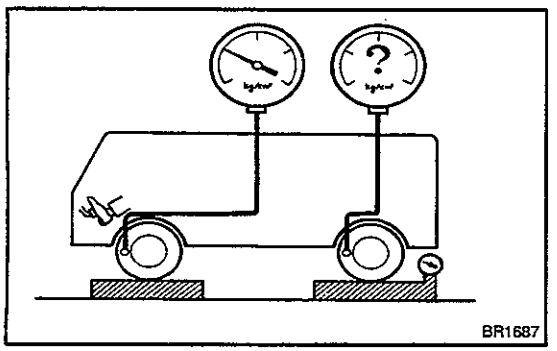


5. IF NECESSARY, CHECK VALVE BODY

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

HINT:

When the brakes are applied, the piston will move down about 0.8 mm (0.03 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/cm², psi)	Rear brake pressure kPa (kgf/cm², psi)
1,960 (20, 285)	1,960 (20, 285)
3,920 (40, 570)	2,352 ± 196 (24 ± 2, 342 ± 28.5)
6,860 (70, 997.5)	2,940 ± 343 (30 ± 3.5, 427.5 ± 50)

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