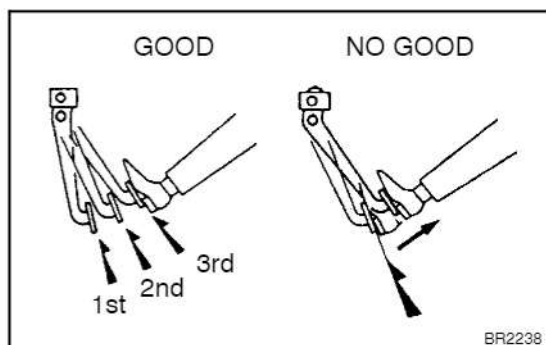


BRAKE BOOSTER ASSY (RHD) (2AZ-FSE) ON-VEHICLE INSPECTION

3211D-01



1. INSPECT BRAKE BOOSTER

(a) Airtightness check.

- (1) Start the engine and stop it after 1 or 2 minutes. Depress the brake pedal several times slowly.

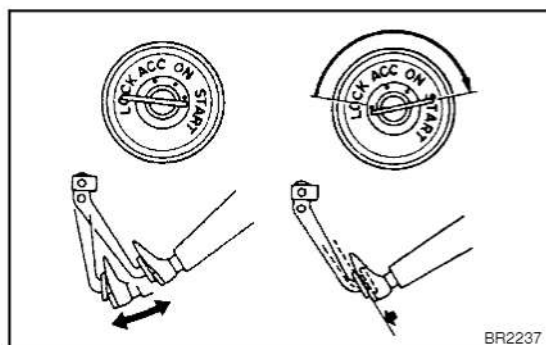
HINT:

If the pedal can be depressed to the floor the first time, but on the 2nd or 3rd time cannot be depressed as far, the booster is airtight.

- (2) Depress the brake pedal while the engine is running, and stop the engine with the pedal depressed.

HINT:

If there is no change in the pedal reserve distance after holding the pedal for 30 seconds, the booster is airtight.



(b) Operating check.

- (1) Depress the brake pedal several times with the ignition switch off and check that there is no change in the pedal reserve distance.
- (2) Depress the brake pedal and start the engine.

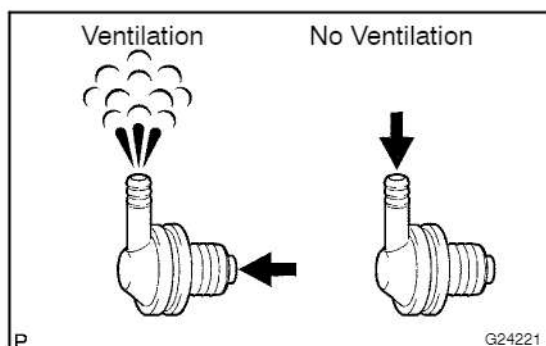
HINT:

If the pedal goes down slightly, operation is normal.

2. INSPECT VACUUM CHECK VALVE

(a) Inspect vacuum check valve.

- (1) Slide the clip and disconnect the vacuum hose.
- (2) Remove the vacuum check valve.
- (3) Check that there is ventilation from the booster to the engine, and no ventilation from the engine to the booster.
- (4) If any fault is found, replace the vacuum check valve.



Brake Master Cylinder Sub-assy

Brake Booster Assy

Brake Booster Gasket ◆

Clevis Pin

Wave Washer

Clip

Brake Master Cylinder Clevis

Check Valve Grommet

Accelerator Control Cable Support

Brake Fluid Level Switch Connector

Torque Specifications:

- 20 (204, 15)
- 22 (224, 16)
- 13 (133, 10)
- 15 (155, 11)
- 6.0 (61, 53 in.-lbf)

N·m (kgf·cm, ft-lbf) : Specified torque

◆ Non-reusable part

◀ Lithium soap base glycol grease

F46134

REPLACEMENT

NOTICE:

Do not adjust the brake booster push rod.

1. DRAIN BRAKE FLUID

NOTICE:

Wash the brake fluid off immediately if it adheres to any painted surface.

2. REMOVE FRONT WHEEL RH

3. REMOVE ENGINE COVER NO.1

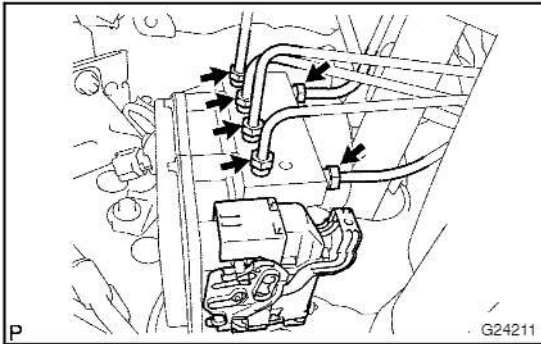
4. REMOVE CYLINDER HEAD COVER SUB-ASSY (SEE PAGE 14-79)

5. REMOVE IGNITION COIL ASSY (SEE PAGE 14-79)

6. REMOVE ENGINE ASSEMBLY WITH TRANSAXLE (SEE PAGE 14-23)

7. REMOVE BRAKE MASTER CYLINDER SUB-ASSY

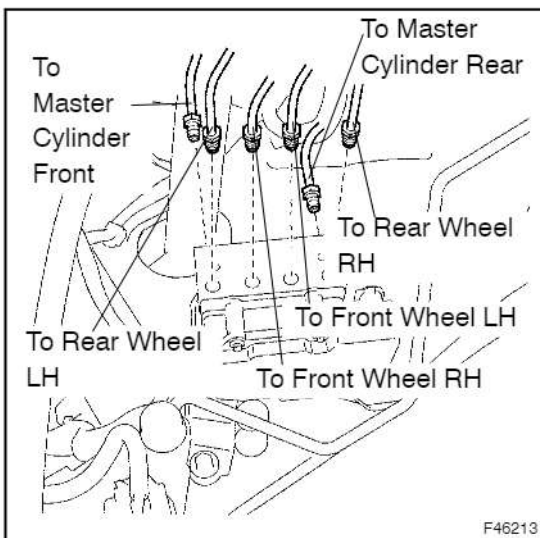
SST 09023-00100



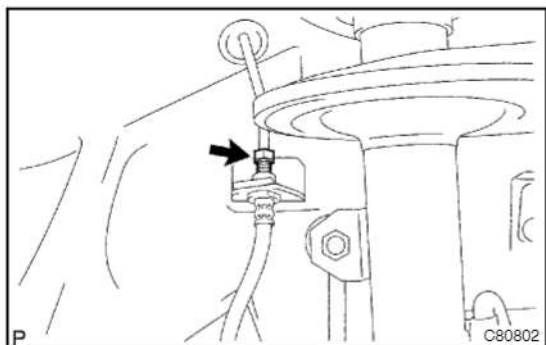
8. REMOVE BRAKE TUBE

- (a) Using SST, disconnect the 6 brake tubes from the brake actuator.

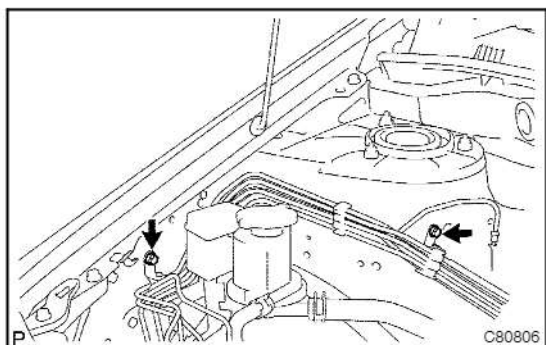
SST 09023-00100



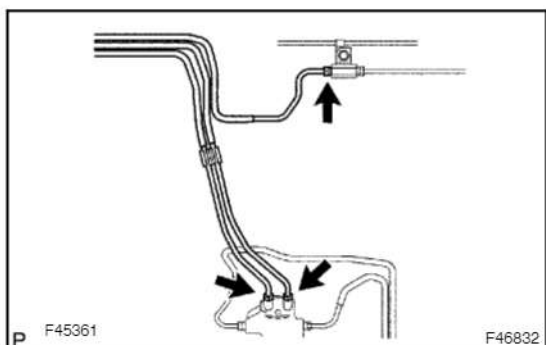
- (b) Use tags or make a memo to identify the place to reconnect.



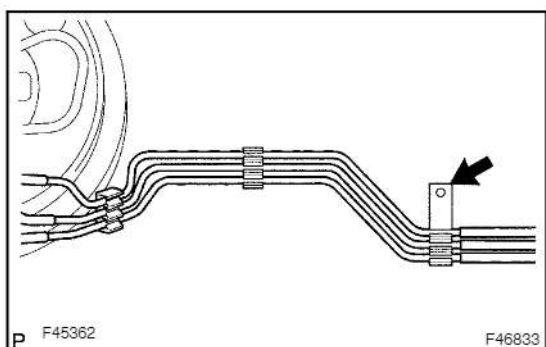
- (c) Using SST and a spanner, disconnect the brake tube from the flexible hose of the front brake RH.
SST 09023-00100



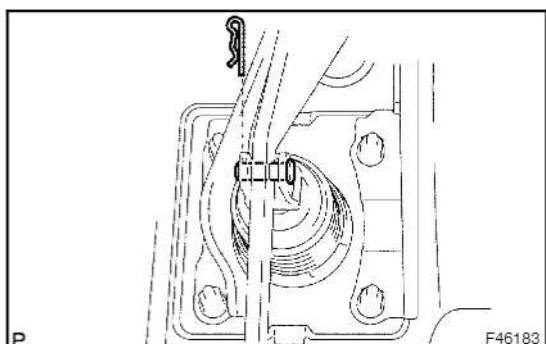
- (d) Remove the 2 bolts and disconnect the 2 brake tube clamps.



- (e) Using SST, disconnect the 3 brake tubes from the ways.
SST 09023-00100

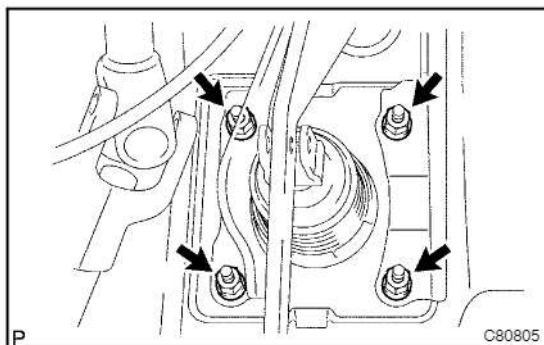


- (f) Disconnect the clamp from the stud bolt and remove the brake tubes.



9. REMOVE BRAKE BOOSTER ASSY

- (a) Disconnect the vacuum hose from the brake booster assy.
(b) Remove the clip, the clevis pin and the wave washer.



- (c) Remove the 4 nuts.
- (d) Pull out the brake booster assy.
- (e) Remove the brake master cylinder clevis from the brake booster assy.

10. REMOVE BRAKE BOOSTER GASKET

- (a) Pull out the brake booster gasket.

11. REMOVE CHECK VALVE

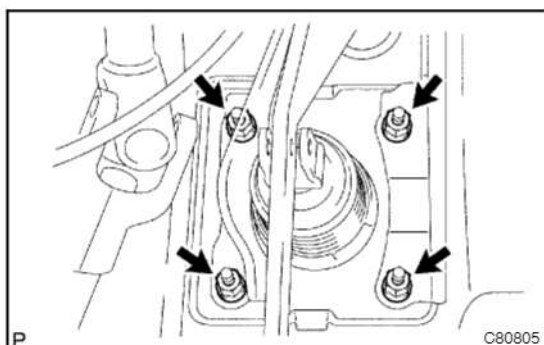
- (a) Remove the check valve and grommet from the brake booster assy.

12. INSTALL CHECK VALVE

- (a) Install the check valve and grommet to the brake booster assy.

13. INSTALL BRAKE BOOSTER GASKET

- (a) Install a new brake booster gasket to the brake booster assy.



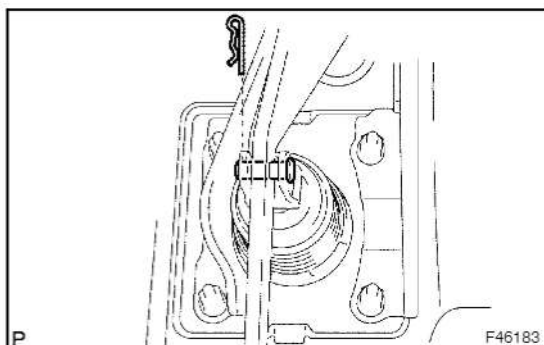
14. INSTALL BRAKE BOOSTER ASSY

- (a) Install the brake master cylinder clevis to the brake booster assy.

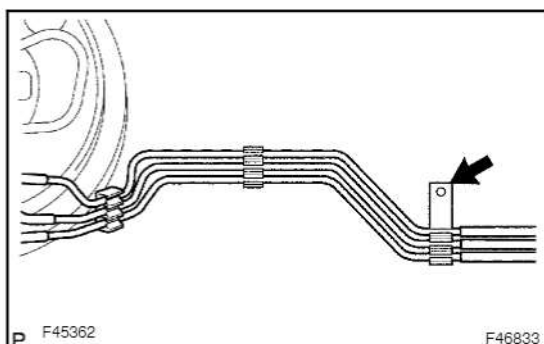
Torque: 22 N·m (224 kgf·cm, 16 ft·lbf)

- (b) Install the brake booster assy with the 4 nuts.

Torque: 13 N·m (133 kgf·cm, 10 ft·lbf)

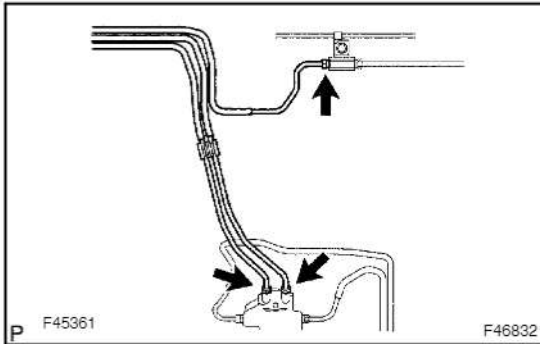


- (c) Install the clevis pin, the clip and the wave washer.
- (d) Connect the vacuum hose to the check valve.

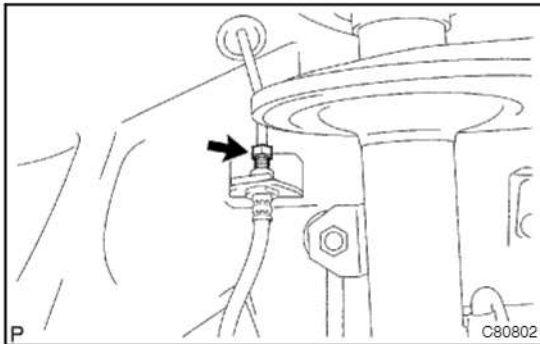


15. INSTALL BRAKE TUBE

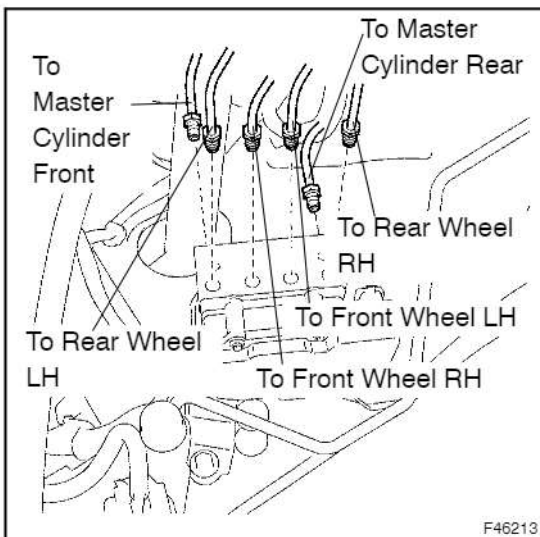
- (a) Connect the clamp to the stud bolt.



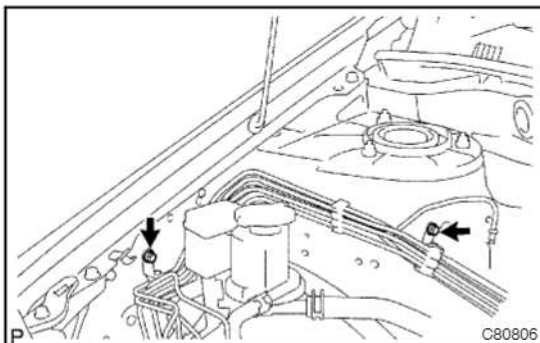
- (b) Using SST, connect the 3 brake tubes to the ways.
SST 09023-00100
Torque: 15 N·m (155 kgf·cm, 11 ft·lbf)



- (c) Using SST and a spanner, connect the brake tube to the flexible hose of front brake RH.
SST 09023-00100
Torque: 15 N·m (155 kgf·cm, 11 ft·lbf)



- (d) Using SST, connect the 6 brake tubes to the brake actuator, as shown in the illustration.
SST 09023-00100
Torque: 15 N·m (155 kgf·cm, 11 ft·lbf)



- (e) Install the brake tube clamps with the 2 bolts.
Torque: 6.0 N·m (61 kgf·cm, 53 in·lbf)

16. INSTALL BRAKE MASTER CYLINDER SUB-ASSY

SST 09023-00100

17. INSTALL ENGINE ASSEMBLY WITH TRANSAXLE (SEE PAGE 14-23)

18. INSTALL IGNITION COIL ASSY (SEE PAGE 14-79)

19. INSTALL CYLINDER HEAD COVER SUB-ASSY (SEE PAGE 14-79)

20. INSTALL ENGINE COVER NO.1
21. INSTALL FRONT WHEEL RH
Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)
22. FILL RESERVOIR WITH BRAKE FLUID
23. BLEED MASTER CYLINDER
SST 09023-00100
24. BLEED BRAKE LINE
25. CHECK AND ADJUST BRAKE PEDAL HEIGHT
26. CHECK PEDAL FREE PLAY
27. CHECK PEDAL RESERVE DISTANCE
28. CHECK FLUID LEVEL IN RESERVOIR
29. CHECK BRAKE FLUID LEAKAGE