

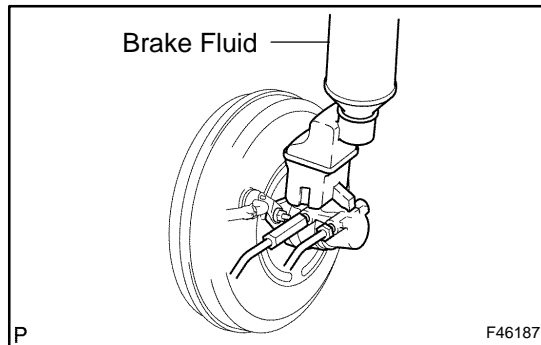
BRAKE FLUID BLEEDING

HINT:

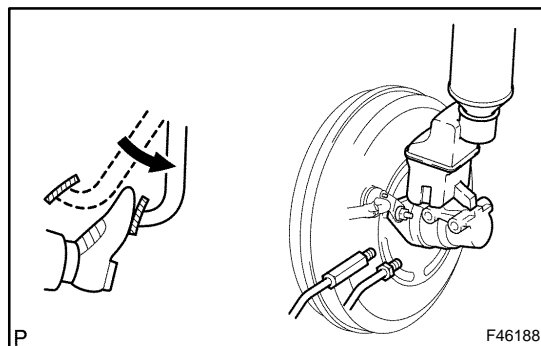
If any work is performed on the brake system or if air in the brake lines is suspected, bleed the air out of the brake system.

NOTICE:

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



1. **FILL RESERVOIR WITH BRAKE FLUID**
Fluid: SAE J1703 or FMVSS No. 116 DOT3

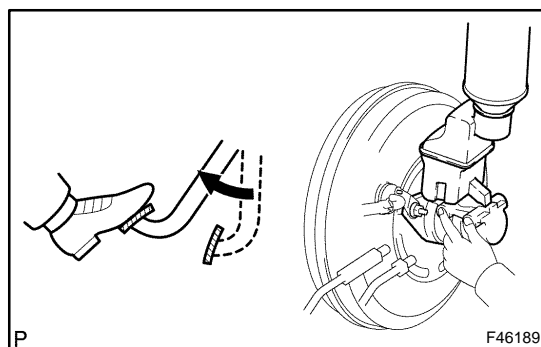


2. **BLEED MASTER CYLINDER**

HINT:

If the master cylinder has been disassembled or if the reservoir becomes empty, bleed the air out of the master cylinder.

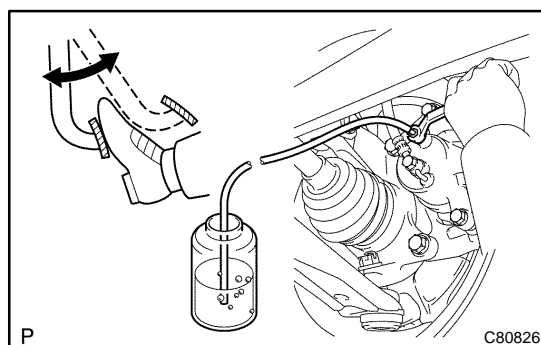
- (a) Using SST, disconnect the brake lines from the master cylinder.
SST 09023-00101
- (b) Slowly depress and hold the brake pedal.



- (c) Cover the outer holes with your fingers, and release the brake pedal.
- (d) Repeat (b) and (c) 3 or 4 times.
- (e) Using SST, connect the brake lines from the master cylinder.

SST 09023-00101

Torque: 15 N·m (155 kgf·cm, 11 ft·lbf)



3. **BLEED BRAKE LINE**

- (a) Connect the vinyl tube to the bleeder plug.
- (b) Depress the brake pedal several times, then loosen the bleeder plug with the pedal depressed.
- (c) At the point when fluid stops coming out, tighten the bleeder plug, then release the brake pedal.
- (d) Repeat (b) and (c) until all the air in the fluid is completely bled out.
- (e) Tighten the bleeder plug completely.

Torque: 8.3 N·m (85 kgf·cm, 73 in·lbf)

- (f) Repeat the previous procedures for each wheel to bleed the air out of the brake line.

4. BLEED BRAKE ACTUATOR ASSY

NOTICE:

After bleeding the air from the brake system, if the height or feel of the brake pedal cannot be obtained, perform air bleeding in the brake actuator assy with a hand-held tester by following the procedures below.

- (a) Depress the brake pedal more than 20 times with the engine off.
- (b) Connect the hand-held tester to the DLC3, then turn the ignition switch to the ON position.

NOTICE:

Do not start the engine.

- (c) Select "AIR BLEEDING" on the hand-held tester.

HINT:

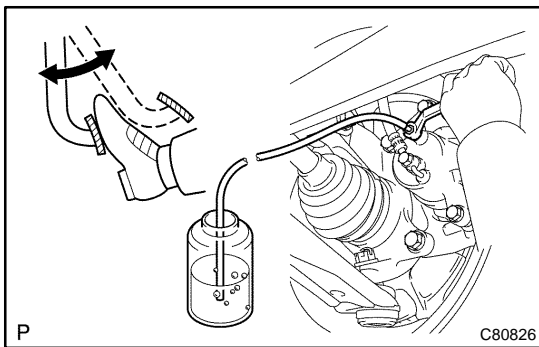
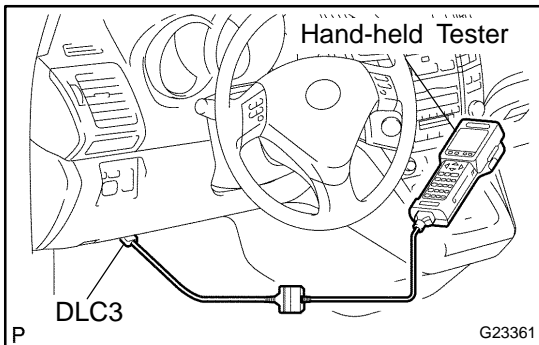
Please refer to the hand-held tester operator's manual for further details.

- (d) Bleed the air out of the regular brake line when "Step 1: Increase" appears on the hand-held tester display.

NOTICE:

- **Bleed the air by following the steps displayed on the hand-held tester.**
- **Make sure that the brake fluid in the master cylinder reservoir tank does not become empty.**

- (1) Connect the vinyl tube to either one of the bleeder plugs.



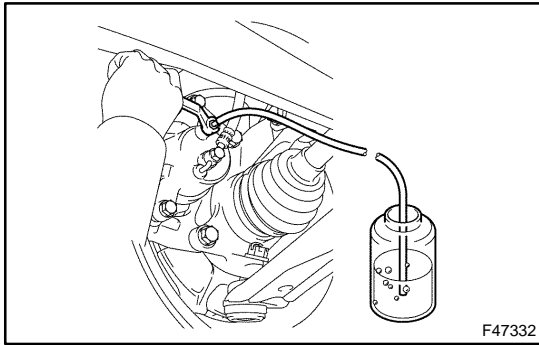
- (2) Depress the brake pedal several times, then loosen the bleeder plug connected to the vinyl tube with the pedal depressed.
- (3) When fluid stops coming out, tighten the bleeder plug and release the brake pedal.
- (4) Repeat (2) and (3) until all the air in the fluid is completely bled out.
- (5) Tighten the bleeder plug completely.

Torque: 8.3 N·m (85 kgf·cm, 73 in.-lbf)

- (6) Repeat the above procedures for each wheel to bleed the air out of the brake line.
- (e) Bleed the air out of the suction line when "Step 2: Inhalation" appears on the hand-held tester display.

NOTICE:

- **Bleed the air by following the steps displayed on the hand-held tester.**
- **Make sure that the brake fluid in the master cylinder reservoir tank does not become empty.**



- (1) Connect the vinyl tube to the bleeder plug at the right front wheel or the right rear wheel and loosen the bleeder plug.
- (2) Operate the brake actuator assy to bleed the air using the hand-held tester.

NOTICE:

- **This operation stops automatically after 4 seconds.**
- **At this time, be sure to release the brake pedal.**
- (3) Check if the operation has stopped by referring to the hand-held tester display.
- (4) Repeat (2) and (3) until all air in the fluid is completely bled out.
- (5) Tighten the bleeder plug completely.

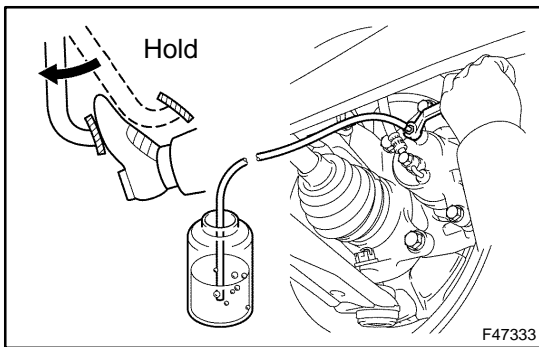
Torque: 8.3 N·m (85 kgf·cm, 73 in.-lbf)

- (6) Repeat the above procedures to bleed the air out of the brake line for each wheel.
- (f) Bleed the air out of the pressure reduction line when "Step 3: Decrease" appears on the hand-held tester display.

NOTICE:

- **Bleed the air by following the steps displayed on the hand-held tester.**
- **Make sure that the brake fluid in the master cylinder reservoir tank does not become empty.**

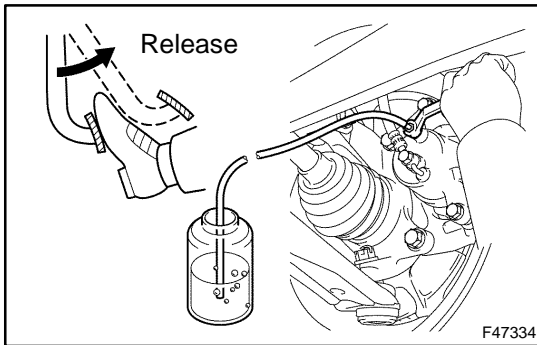
- (1) Connect a vinyl tube to either one of the bleeder plugs.
- (2) Loosen the bleeder plug.



- (3) Using the hand-held tester, operate the brake actuator assy, completely depress the brake pedal and keep it.

NOTICE:

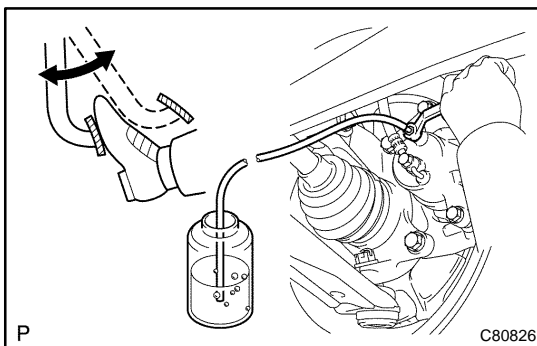
- **The operation stops automatically after 4 seconds. When performing this procedure continuously, set an interval of at least 20 seconds.**
- **When the operation is complete, the brake pedal goes down slightly. This is a normal phenomenon caused when the solenoid opens.**
- **During this procedure, the pedal will feel heavy, but completely depress it so that the brake fluid comes out from the bleeder plug.**
- **Be sure to keep depressing the brake pedal. Do not depress and release the pedal repeatedly.**



- (4) Tighten the bleeder plug, then release the brake pedal.
 - (5) Repeat (2) to (4) until all the air in the fluid is completely bled out.
 - (6) Tighten the bleeder plug completely.
- Torque: 8.3 N·m (85 kgf·cm, 73 in·lbf)**
- (7) Repeat the above procedures for each wheel to bleed the air out of the brake line.
 - (g) Bleed the air out of the regular brake line again when "Step 4: Increase" appears on the hand-held tester display.

NOTICE:

- **Bleed the air by following the steps displayed on the hand-held tester.**
- **Make sure that the brake fluid in the master cylinder reservoir tank does not become empty.**



- (1) Connect the vinyl tube to either one of the bleeder plugs.
 - (2) Depress the brake pedal several times, then loosen the bleeder plug connected to the vinyl tube with the pedal depressed.
 - (3) When fluid stops coming out, tighten the bleeder plug, then release the brake pedal.
 - (4) Repeat (2) and (3) until all the air in the fluid is completely bled out.
 - (5) Tighten the bleeder plug completely.
- Torque: 8.3 N·m (85 kgf·cm, 73 in·lbf)**
- (6) Repeat the above procedures for each wheel to bleed the air out of the brake line.

5. CHECK FLUID LEVEL IN RESERVOIR

- (a) Check the fluid level and add fluid if necessary.

Fluid: SAE J1703 or FMVSS No. 116 DOT3