

BRAKE FLUID

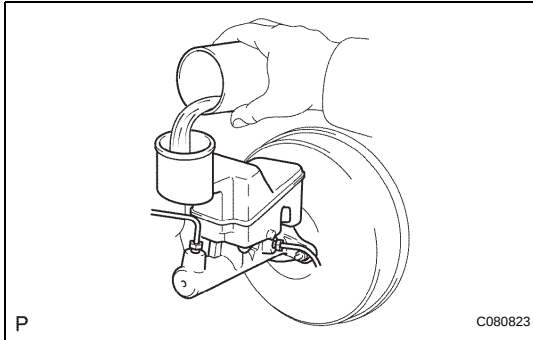
BLEEDING

NOTICE:

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

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.



1. FILL RESERVOIR WITH BRAKE FLUID

- (a) Fill reservoir with brake fluid.

Fluid:

SAE J1703 or FMVSS No. 116 DOT3

2. BLEED MASTER CYLINDER

HINT:

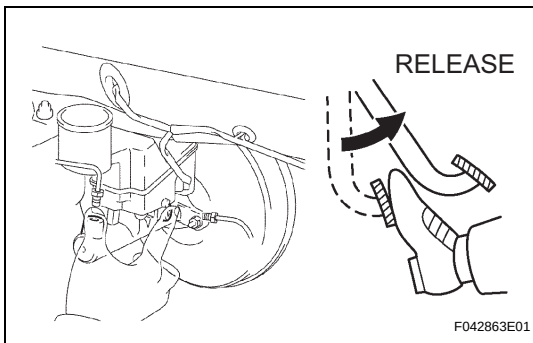
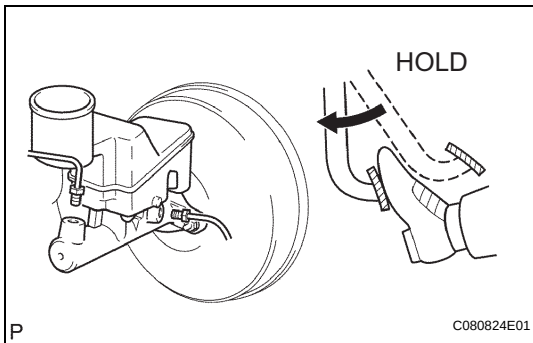
If the master cylinder has been disassembled or if the reservoir becomes empty, bleed the air out of the master cylinder.

- (a) Using SST, disconnect the brake lines from the master cylinder sub-assembly.

SST 09023-00101

- (b) Procedure A

- (1) Slowly depress and hold the brake pedal.



- (2) Cover the outer holes with your fingers, and release the brake pedal.

- (c) Repeat procedure A 3 or 4 times.

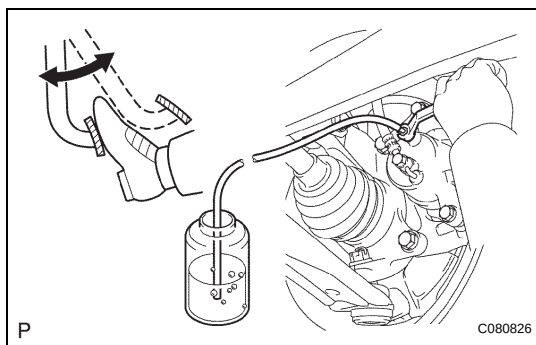
- (d) Using SST, connect the brake lines to the master cylinder sub-assembly.

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) Procedure B
 - (1) Depress the brake pedal several times, then loosen the bleeder plug with the pedal depressed.
 - (2) When fluid stops coming out, tighten the bleeder plug, then release the brake pedal.
- (c) Repeat procedure B until all the air in the fluid is completely bled out.
- (d) Tighten the bleeder plug completely.

Torque: Front brake

8.3 N*m (85 kgf*cm, 74 in.*lbf)

Rear brake (Drum brake type)

8.3 N*m (85 kgf*cm, 74 in.*lbf)

Rear brake (Disc brake type)

11 N*m (110 kgf*cm, 8 ft.*lbf)

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

4. BLEED ABS & TRACTION ACTUATOR ASSEMBLY (w/ VSC)

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 assembly with the intelligent tester by following the procedures below.

- (a) Depress the brake pedal more than 20 times with the engine off.

HINT:

Let the vacuum pressure out from the brake booster assembly.

- (b) Connect the intelligent tester to the DLC3, and turn the ignition switch to the ON position.

NOTICE:

Do not start the engine.

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

HINT:

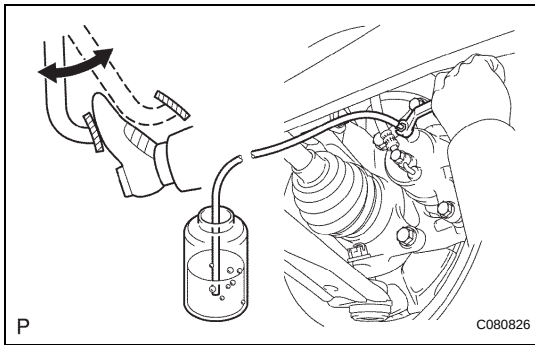
Please refer to the intelligent tester operator's manual for further details.

- (d) Bleed the air out of the brake line as usual when "Step 1: Increase" appears on the intelligent tester display.

NOTICE:

- **Bleed the air by following the steps displayed on the intelligent 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.



- (e) Procedure C
 - (1) Depress the brake pedal several times, then loosen the bleeder plug connected to the vinyl tube with the pedal depressed.
 - (2) When fluid stops coming out, tighten the bleeder plug and release the brake pedal.
- (f) Repeat procedure C until all air in the fluid is completely bled out.
- (g) Tighten the bleeder plug completely.

Torque: Front brake

8.3 N*m (85 kgf*cm, 74 in.*lbf)

Rear brake (Drum brake type)

8.3 N*m (85 kgf*cm, 74 in.*lbf)

Rear brake (Disc brake type)

11 N*m (110 kgf*cm, 8 ft.*lbf)

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

NOTICE:

- **Bleed the air by following the steps displayed on the intelligent 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.

- (j) Procedure D

- (1) Operate the brake actuator assembly to bleed the air using the intelligent tester.

NOTICE:

At this time, be sure to release the brake pedal.

HINT:

This operation stops automatically after 4 seconds.

- (2) Check if the operation has stopped by referring to the intelligent tester display.
- (k) Repeat procedure D until all air in the fluid is completely bled out.
- (l) Tighten the bleeder plug.

Torque: Front brake

8.3 N*m (85 kgf*cm, 74 in.*lbf)

Rear brake (Drum brake type)

8.3 N*m (85 kgf*cm, 74 in.*lbf)

Rear brake (Disc brake type)

11 N*m (110 kgf*cm, 8 ft.*lbf)

- (m) Repeat the above procedures for the other wheels to bleed the air out of the brake line.

- (n) Bleed the air out of the pressure reduction line when "Step 3: Decrease" appears on the intelligent tester display.

NOTICE:

- Bleed the air by following the steps displayed on the intelligent 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.

- (o) Procedure E

- (1) Loosen the bleeder plug.

- (2) Using the intelligent tester, operate the brake actuator assembly, completely depress the brake pedal and keep it.

NOTICE:

- 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.

HINT:

- 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.

- (3) Tighten the bleeder plug, then release the brake pedal.

- (p) Repeat procedure E until all the air in the fluid is completely bled out.

- (q) Tighten the bleeder plug.

Torque: Front brake

8.3 N*m (85 kgf*cm, 74 in.*lbf)

Rear brake (Drum brake type)

8.3 N*m (85 kgf*cm, 74 in.*lbf)

Rear brake (Disc brake type)

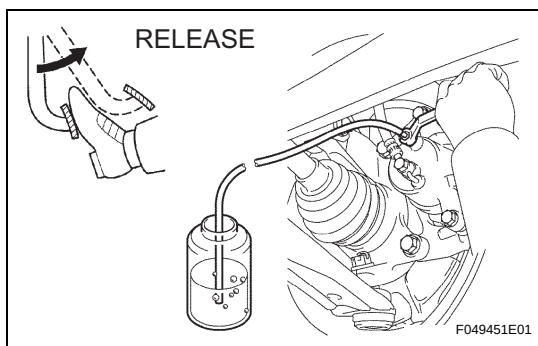
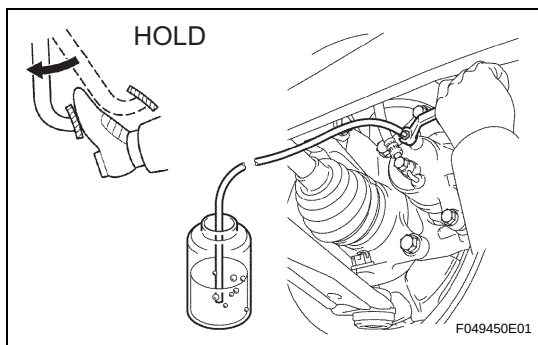
11 N*m (110 kgf*cm, 8 ft.*lbf)

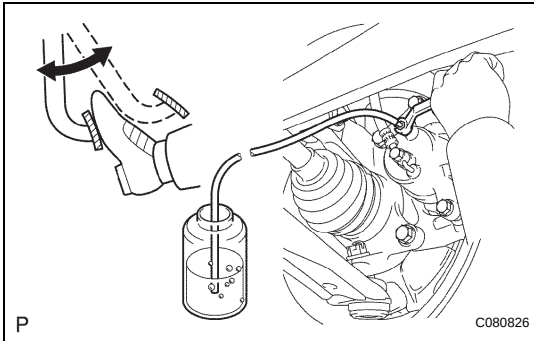
- (r) Repeat the above procedures for the other wheels to bleed the air out of the brake line.

- (s) Bleed the air out of the brake line as usual again when "Step 4: Increase" appears on the intelligent tester display.

NOTICE:

- Bleed the air by following the steps displayed on the intelligent 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.
- (t) Procedure F
 - (1) Depress the brake pedal several times, then loosen the bleeder plug connected to the vinyl tube with the pedal depressed.
 - (2) When fluid stops coming out, tighten the bleeder plug, then release the brake pedal.
 - (u) Repeat procedure F until all the air in the fluid is completely bled out.
 - (v) Tighten the bleeder plug.

Torque: Front brake

8.3 N*m (85 kgf*cm, 74 in.*lbf)

Rear brake (Drum brake type)

8.3 N*m (85 kgf*cm, 74 in.*lbf)

Rear brake (Disc brake type)

11 N*m (110 kgf*cm, 8 ft.*lbf)

- (w) Repeat the above procedures for the other wheels to bleed the air out of the brake line.
- (x) Make sure that the air bleeding is complete by referring to the intelligent tester display.

5. CHECK FLUID LEVEL IN RESERVOIR

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

Fluid:

SAE J1703 or FMVSS No. 116 DOT3

