

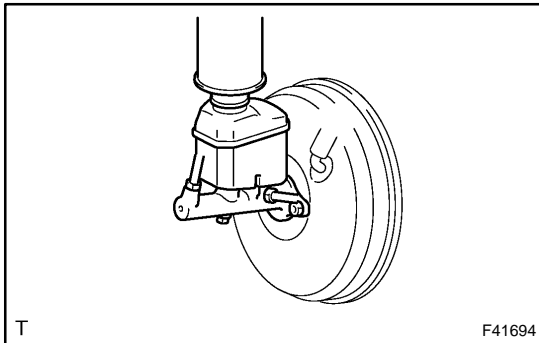
# BRAKE FLUID BLEEDING

## HINT:

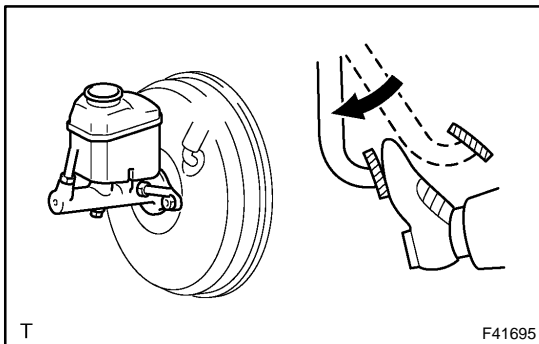
If any work is done on the brake system or if air in the brake lines is suspected, bleed the air from the system.

## NOTICE:

**Wash off the brake fluid immediately if it comes into contact with a painted surface.**



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

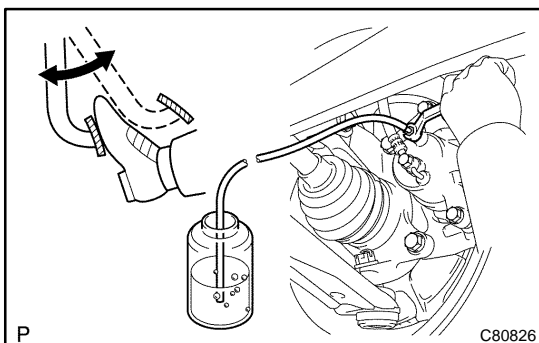
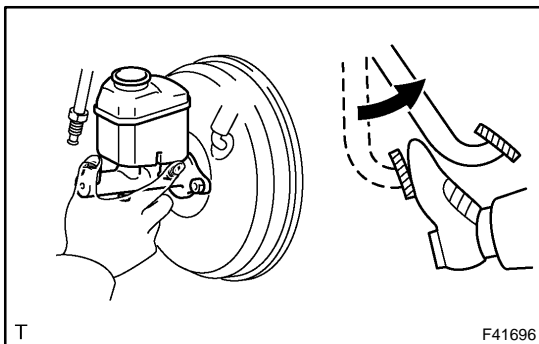


2. **BLEED MASTER CYLINDER**

## HINT:

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

- (a) Remove the air cleaner assembly with hose.
- (b) Disconnect the brake lines from the master cylinder.  
SST 09023-00101
- (c) Slowly depress the brake pedal and hold it.
- (d) Block off the outer holes with your fingers, and release the brake pedal.
- (e) Repeat (c) and (d) 3 or 4 times.
- (f) Install the air cleaner assembly with hose.



3. **BLEED BRAKE LINE**

- (a) Connect the vinyl tube to the brake caliper.
- (b) Depress the brake pedal several times, then loosen the bleeder plug with the pedal held down.
- (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 has been bled out.
- (e) Tighten the bleeder plug completely.  
**Torque: 8.3 N·m (85 kgf·cm, 74 in·lbf)**

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

#### 4. BLEED BRAKE ACTUATOR ASSY (W/ VSC)

##### NOTICE:

After performing the usual air bleeding in 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 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:

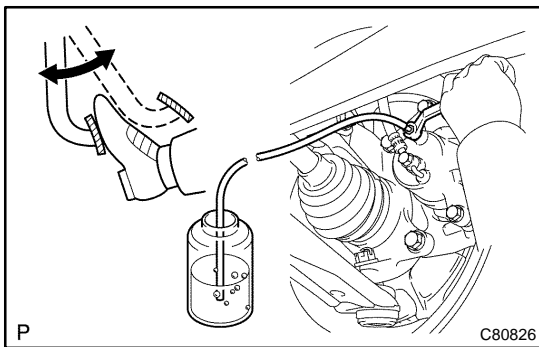
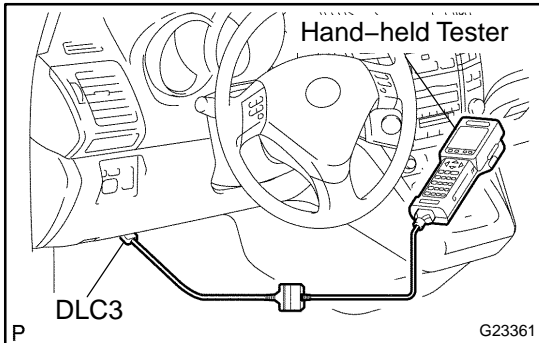
Please refer to the Hand-Held Tester Operator's Manual for further details.

- (d) Bleed the air out of the regular brake line in "Step1: Increase" on the hand-held tester display.

##### NOTICE:

- Perform the air bleeding 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 of one of the above wheels 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 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 procedure to bleed the air out of the brake line for each wheel.
- (e) Bleed the air out of the suction line in "Step2: Inhalation" on the hand-held tester display.

##### NOTICE:

- Perform the air bleeding 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 using the hand-held tester to bleed the air.

**NOTICE:**

- **The operation stops automatically in 4 seconds.**
  - **At this time, be sure to release the brake pedal.**
- (3) Check that the operation has stopped, by referring to the hand-held tester display.
  - (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) For the rest of the wheels, bleed the air in the same way as stated in the above procedure.
- (f) Bleed the air out of the pressure reduction line in "Step3: Decrease" on the hand-held tester display.

**NOTICE:**

- **Perform air bleeding 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 using hand-held tester, completely depress the brake pedal and keep it.

**NOTICE:**

- **The operation stops automatically in 4 seconds. When performing this procedure continuously, an interval of at least 20 seconds is required.**
  - **When the operation is completed, the brake pedal slightly goes down. This is a normal phenomenon caused when the solenoid opens.**
  - **During this procedure, the pedal seems heavy, but completely depress it so that the brake fluid comes out from the bleeder plug.**
  - **Be sure to keep depressing the brake pedal. Never 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 procedure to bleed the air out of the brake line for each wheel.

- (g) Bleed the air out of the regular brake line again in "Step4: Increase" on the hand-held tester display.

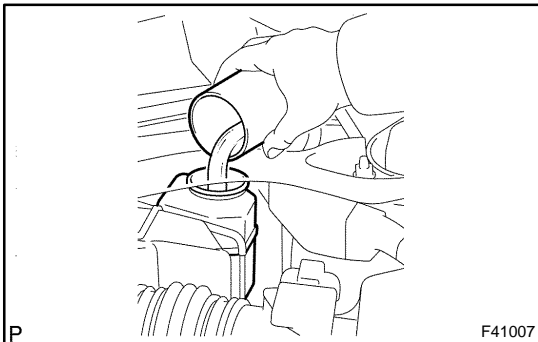
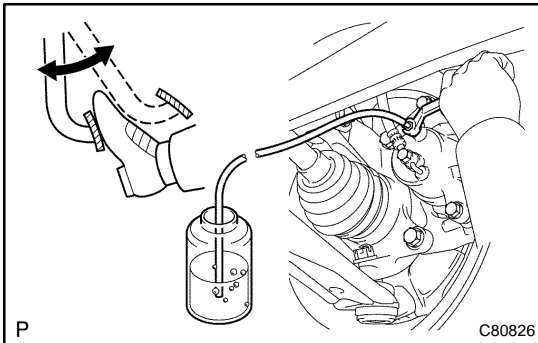
**NOTICE:**

- **Perform air bleeding 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 plug.
- (2) Depress the brake pedal several times, then loosen the bleeder plug of one of the above wheels 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 procedure to bleed the air out of the brake line for each wheel.



**5. CHECK FLUID LEVEL IN RESERVOIR**

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

**Fluid: SAE J1703 or FMVSS No. 116 DOT3**