

# BRAKE FLUID

## BLEEDING

32173-03

### NOTICE:

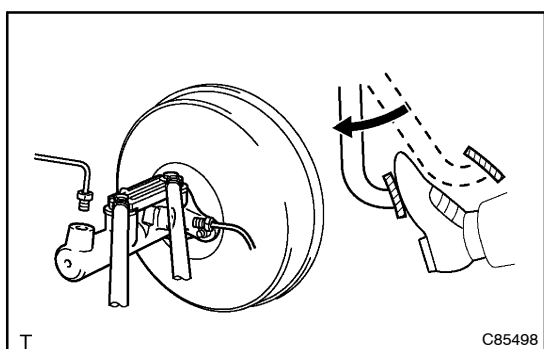
**Wash brake fluid off immediately if it adheres to on any painted surface.**

### 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

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



### 2. BLEED MASTER CYLINDER

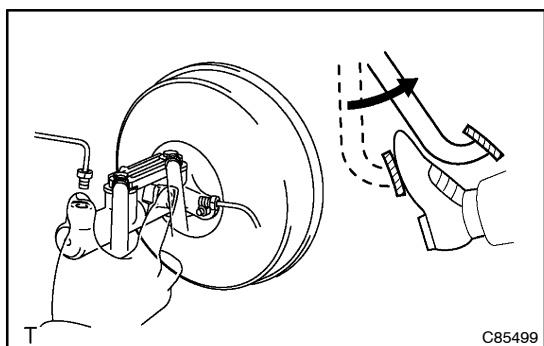
#### HINT:

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 2 brake lines from the master cylinder.

SST 09023-00100

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



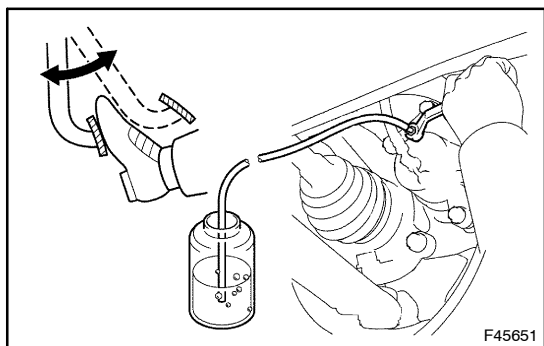
- (c) Block up the outer holes with your fingers, and release the brake pedal, and then take off your fingers from the outer holes.

- (d) Repeat (b) and (c) 3 or 4 times.

- (e) Using SST, connect the 2 brake lines to the master cylinder.

SST 09023-00100

**Torque: 15 N·m (153 kgf·cm, 11 in·lbf)**



### 3. BLEED BRAKE LINE

- (a) Remove the bleeder plug cap.
- (b) Connect the vinyl tube to the bleeder plug.
- (c) Depress the brake pedal several times, then loosen the bleeder plug with the pedal depressed.

- (d) When the fluid stops coming out, tighten the bleeder plug, and then release the brake pedal.

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

- (e) Repeat (c) and (d) until all the air in the fluid has been bled out.

- (f) Install the bleeder plug cap.

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

**4. BLEED ABS & TRACTION ACTUATOR ASSY (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 assy with an intelligent tester II 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 assy.

- (b) Connect the intelligent tester II 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 II.

**HINT:**

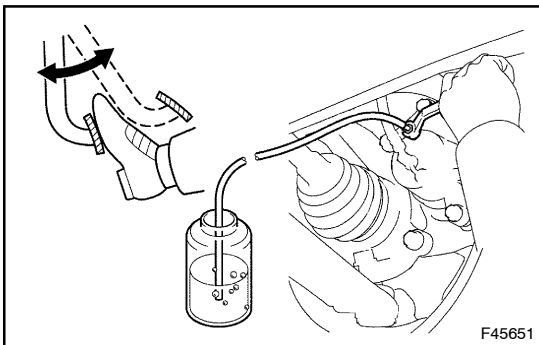
Please refer to the intelligent tester II operator's manual for further details.

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

**NOTICE:**

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



- (2) Depress the brake pedal several times, then loosen the bleeder plug with the pedal depressed.
- (3) When the fluid stops coming out, tighten the bleeder plug, and then release the brake pedal.

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

- (4) Repeat (2) and (3) until all air in the fluid is completely bled out.
- (5) Repeat the previous procedures for each wheel to bleed the air out of the brake line.

- (e) Bleed the air out of the suction line when "Step2: Inhalation" appears on the intelligent tester II display.

**NOTICE:**

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

**NOTICE:**

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

**HINT:**

This operation stops automatically after 4 seconds.

- (3) Check if the operation has stopped by referring to the intelligent tester II display.
- (4) Repeat (2) and (3) until all air in the fluid has been bled out.
- (5) Tighten the bleeder plug completely.

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

- (6) Repeat the previous procedures for each wheel to bleed the air out of the brake line.
- (f) Bleed the air out of the pressure reduction line when "Step3: Decrease" appears on the intelligent tester II display.

**NOTICE:**

- **Bleed the air by following the steps displayed on the intelligent tester II.**
- **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) Loosen the bleeder plug.
- (3) Using the intelligent tester II, operate the brake actuator assy, 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.
- (4) Tighten the bleeder plug, then release the brake pedal.

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

- (5) Repeat (2) to (4) until all the air in the fluid has been bled out.
- (6) Repeat the previous procedures to bleed the air out of the brake line for each wheel.

- (g) Bleed the air out of the brake line as usual again when "Step 4: Increase" appears on the Intelligent Tester II display.

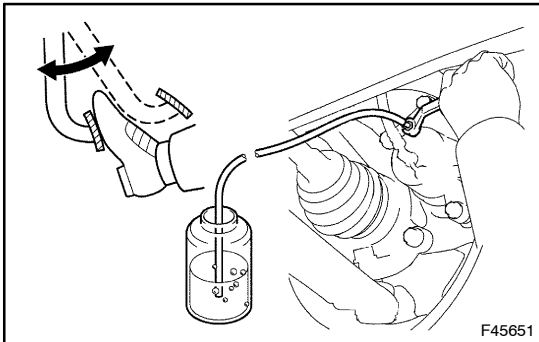
**NOTICE:**

- **Bleed the air by following the steps displayed on the intelligent tester II.**
- **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.
- (2) Depress the brake pedal several times, then loosen the bleeder plug with the pedal depressed.
- (3) When the fluid stops coming out, tighten the bleeder plug, then release the brake pedal.

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

- (4) Repeat (2) and (3) until all air in the fluid has been bled out.
- (5) Install the bleeder plug cap.
- (6) Repeat the previous 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**