

# BRAKE FLUID

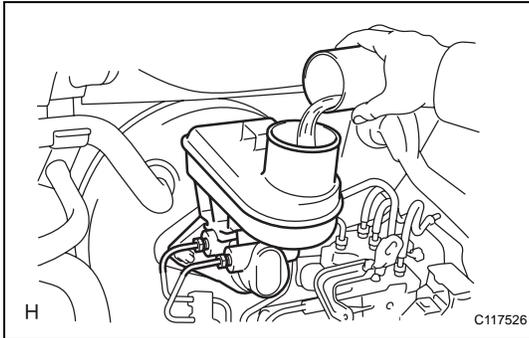
## BLEEDING

### HINT:

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

### NOTICE:

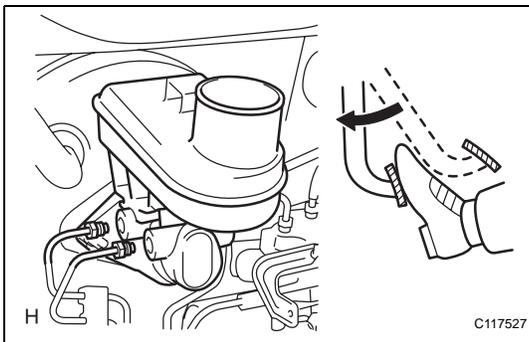
**Wash off brake fluid immediately if it comes in contact with any painted surface.**



### 1. FILL RESERVOIR WITH BRAKE FLUID

#### Fluid:

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



### 2. BLEED AIR FROM BRAKE MASTER CYLINDER

#### HINT:

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

- (d) Repeat the 2 previous steps 3 or 4 times.

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

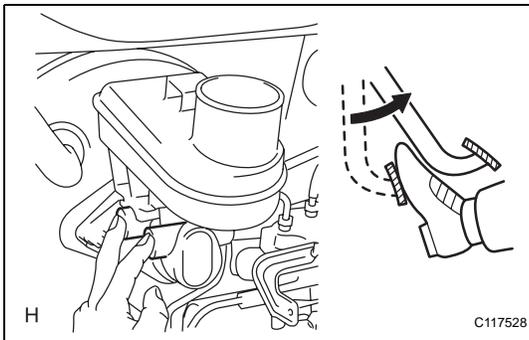
**SST 09023-00101**

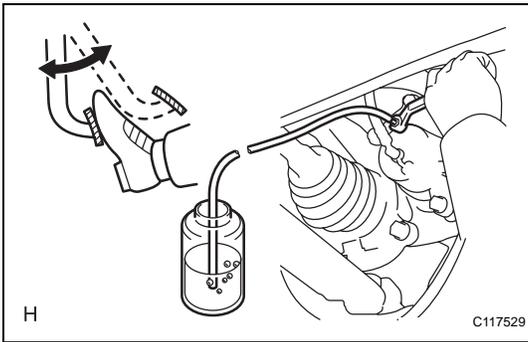
**Torque: 15 N\*m (155 kgf\*cm, 11 ft.\*lbf) without SST**

**14 N\*m (143 kgf\*cm, 10 ft.\*lbf) with SST**

#### HINT:

Use a torque wrench with a fulcrum length of 30 cm (11.81 in.).





### 3. BLEED AIR FROM BRAKE LINE

- (a) Remove the bleeder plug cap.
- (b) Connect a vinyl tube to one of the bleeder plugs.
- (c) Depress the pedal several times, and then loosen the bleeder plug with the pedal depressed.
- (d) When fluid stops coming out, immediately tighten the bleeder plug. Then release the pedal.
- (e) Repeat the 2 previous steps until all the air in the fluid is gone.
- (f) Tighten the bleeder plug.  
**Torque: 8.3 N\*m (85 kgf\*cm, 73 in.\*lbf)**
- (g) Install the cap.
- (h) Bleed air from the brake line for each wheel by repeating the above procedures.

### 4. BLEED AIR FROM BRAKE ACTUATOR (w/ VSC)

#### NOTICE:

- After bleeding air from the brake system, the height and/or feel of the pedal may still be awkward. If so, use the intelligent tester to bleed air from the actuator.
- Perform the air bleeding by following the steps displayed on the intelligent tester.
- Make sure that the fluid in the reservoir does not become empty.

- (a) With the engine stopped, depress the pedal more than 20 times.
- (b) Connect the intelligent tester (with CAN VIM) to the DLC3, and then turn the ignition switch ON.

#### NOTICE:

**Do not start the engine.**

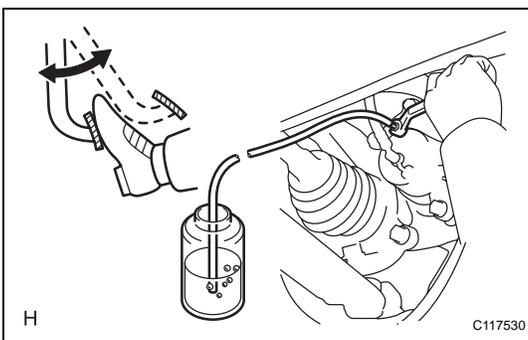
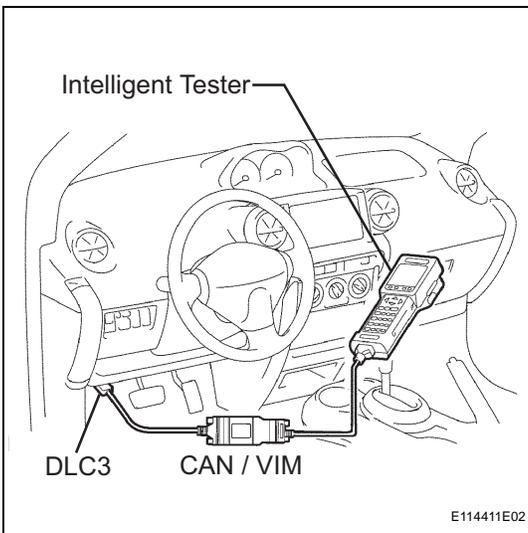
- (c) Select "AIR BLEEDING" on the intelligent tester.

#### HINT:

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

- (d) Bleed air from the brake line in "Step 1: Increase" on the intelligent tester display.

- (1) Remove the bleeder plug cap.



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

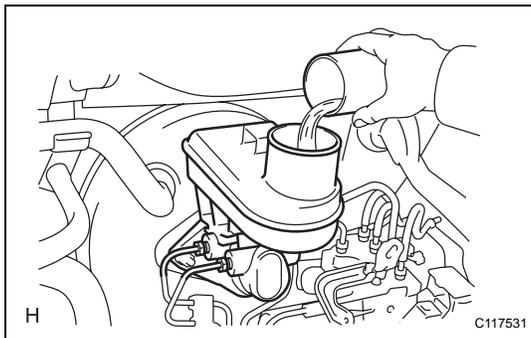
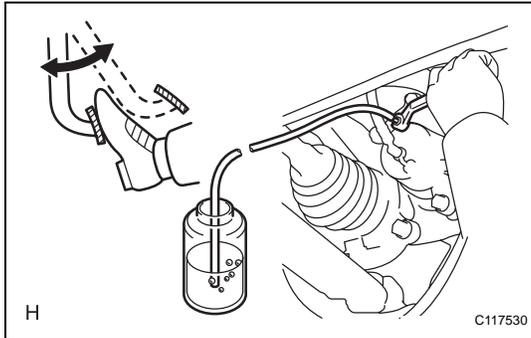
- (3) Depress the pedal several times, and then loosen the bleeder plug with the pedal depressed.

- (4) When fluid stops coming out, immediately tighten the bleeder plug. Then release the pedal.

- (5) Repeat the 2 previous steps until all the air in the fluid is gone.

- (6) Tighten the bleeder plug.  
**Torque: 8.3 N\*m (85 kgf\*cm, 73 in.\*lbf)**
- (7) Install the cap.
- (8) Repeat the 7 previous steps to bleed air from the brake line for each wheel.
- (e) Bleed air from the suction line in "Step 2: Inhalation" on the intelligent tester display.
  - (1) Remove the bleeder plug cap.
  - (2) Connect a vinyl tube to the bleeder plug at the right front wheel or the right rear wheel and loosen the bleeder plug.
  - (3) Using the intelligent tester, operate the actuator to bleed the air.  
**NOTICE:**  
**The operation stops automatically in 4 seconds. At this time, be sure to release the pedal.**
  - (4) View the intelligent tester display and check that the operation has stopped.
  - (5) Repeat the 2 previous steps until all the air in the fluid is gone.
  - (6) Tighten the bleeder plug.  
**Torque: 8.3 N\*m (85 kgf\*cm, 73 in.\*lbf)**
  - (7) Install the cap.
  - (8) Repeat the 7 previous steps to bleed air from the brake line for each wheel.
- (f) Bleed air from the pressure reduction line in "Step 3: Decrease" on the intelligent tester display.
  - (1) Remove the bleeder plug cap.
  - (2) Connect a vinyl tube to either one of the bleeder plugs.
  - (3) Loosen the bleeder plug.
  - (4) Using the intelligent tester, operate the actuator. At the same time, depress the pedal and maintain this position.  
**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 pedal slightly goes down. This is normal and it occurs when the solenoid opens.**
    - **During this procedure, the pedal may seem heavy, but completely depress it so that the fluid comes out from the bleeder plug.**
    - **Be sure to keep depressing the pedal. Never depress and release the pedal repeatedly.**
  - (5) Tighten the bleeder plug, and then release the pedal.  
**Torque: 8.3 N\*m (85 kgf\*cm, 73 in.\*lbf)**

- (6) Repeat the 3 previous steps until all the air in the fluid is gone.
- (7) Install the cap.
- (8) Repeat the 7 previous steps to bleed air from the brake line for each wheel.
- (g) Bleed air from the brake line again in "Step 4: Increase" on the intelligent tester display.
  - (1) Remove the bleeder plug cap.
  - (2) Connect a vinyl tube to one of the bleeder plugs.
  - (3) Depress the pedal several times, and then loosen the bleeder plug with the pedal depressed.
  - (4) When fluid stops coming out, immediately tighten the bleeder plug. Then release the pedal.
  - (5) Repeat the 2 previous steps until all the air in the fluid is gone.
  - (6) Tighten the bleeder plug.  
**Torque: 8.3 N\*m (85 kgf\*cm, 73 in.\*lbf)**
  - (7) Install the cap.
  - (8) Repeat the 7 previous steps to bleed air from the brake line for each wheel.



#### 5. CHECK BRAKE FLUID LEVEL IN RESERVOIR

- (a) Check the fluid level. If necessary, add fluid.

##### Fluid:

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