

BRAKE FLUID

BLEEDING

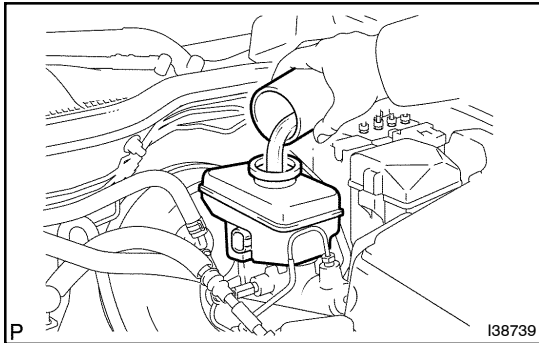
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HINT:

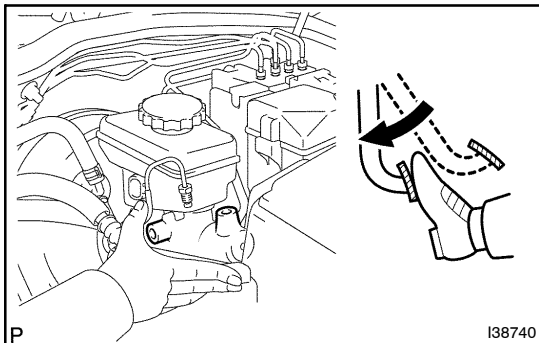
If any work is performed on the brake system or if air in the brake lines is suspected, bleed the air out of the brake system.

NOTICE:

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



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



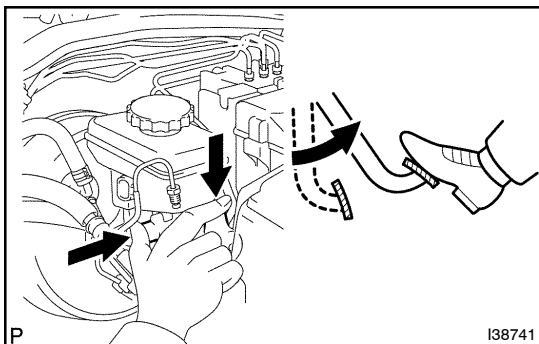
2. **BLEED MASTER CYLINDER**

HINT:

- If the master cylinder has been disassembled or if the reservoir becomes empty, bleed the air out of the master cylinder.
- To avoid brake fluid from adhering, cover the painted surface with cloth.

- (a) Disconnect the 2 brake lines from the master cylinder.
SST 09751-36011
- (b) Slowly depress the brake pedal and hold it.
- (c) Cover the 2 outer holes with fingers, and release the brake pedal.
- (d) Repeat (b) and (c) 3 or 4 times.
- (e) Connect the brake lines to the master cylinder.

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

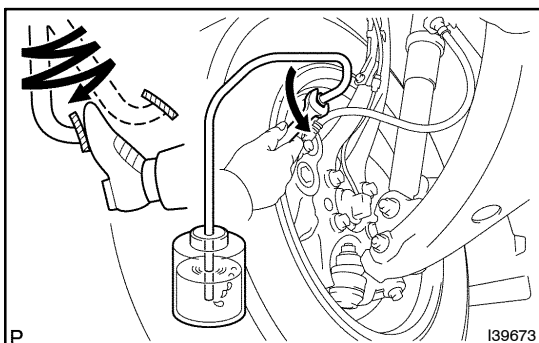


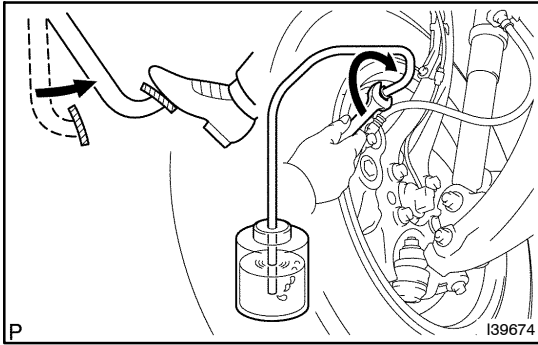
3. **BLEED BRAKE LINE**

NOTICE:

Bleed the air from the wheel farthest from the master cylinder.

- (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) 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: 11 N·m (110 kgf·cm, 8 ft·lbf)
- (f) Repeat the above procedures for each wheel to bleed the air out of the brake line.

4. BLEED ABS & TRACTION ACTUATOR ASSY

NOTICE:

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

- (a) Depress the brake pedal more than 20 times with the ignition switch 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.

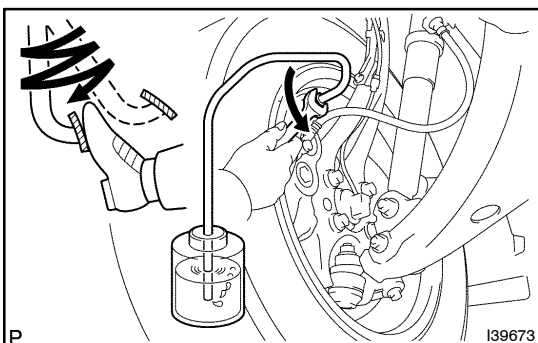
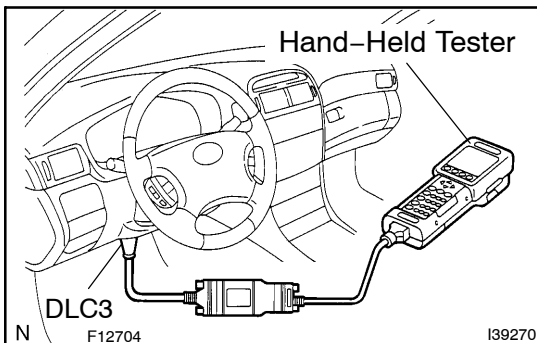
- (c) Turn the hand-held tester power on and select "AIR BLEEDING" on the screen.

NOTICE:

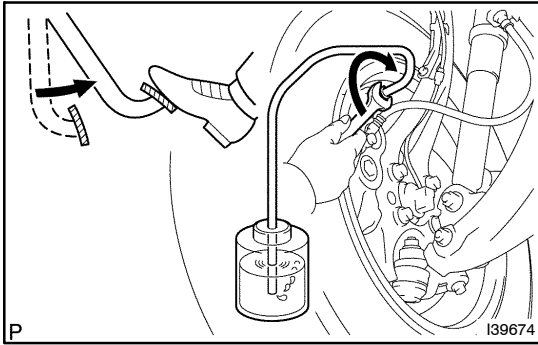
- Please refer to the hand-held tester operator's manual for further details.
 - Bleed the air by following the steps displayed on the hand-held tester.
- (d) Perform air bleeding according to "Step 1: Increase" on the hand-held tester display.

NOTICE:

Make sure that 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.

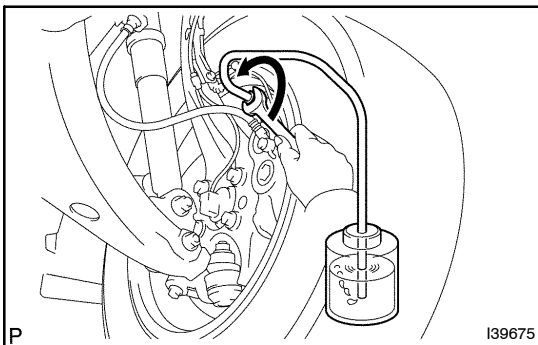
Torque: 11 N·m (110 kgf·cm, 8 ft·lbf)

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

- (e) Bleed the air out of the suction line according to "Step2: Inhalation" on the hand-held tester display.

NOTICE:

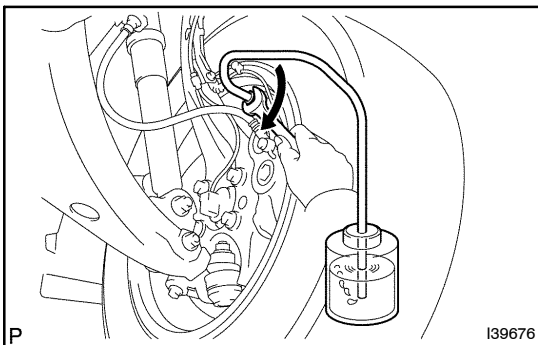
- **Bleed the air by following the steps displayed on the hand-held tester.**
- **Make sure that brake fluid in the master cylinder reservoir tank does not become empty.**



- (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 ABS & TRACTION 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 and tighten the bleeder plug.
- (4) Repeat (2) and (3) until all the air in the fluid is completely bled out.
- (5) Tighten the bleeder plug completely.

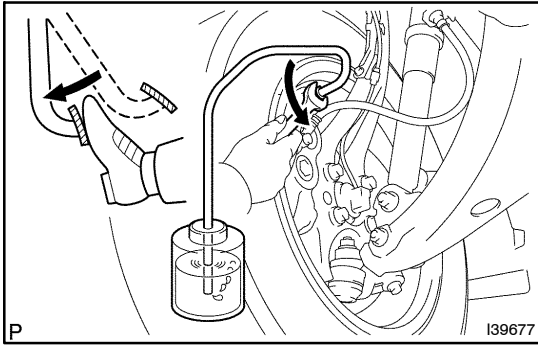
Torque: 11 N·m (110 kgf·cm, 8 ft·lbf)

- (6) For the rest of the wheels, bleed the air in the same way as stated in the above procedures.

- (f) Bleed the air out of the pressure reduction line according to "Step3: Decrease" on the hand-held tester display.

NOTICE:

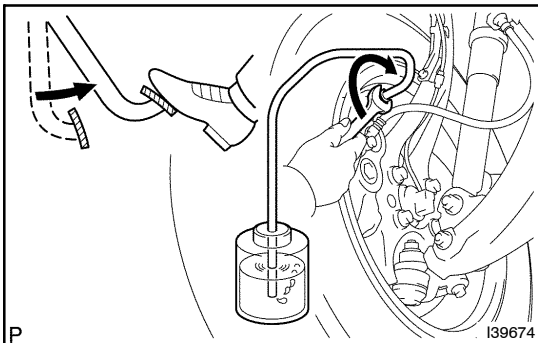
- **Bleed the air by following the steps displayed on the hand-held tester.**
- **Make sure that brake fluid in the master cylinder reservoir tank does not become empty.**



- (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 ABS & TRACTION actuator assy using hand-held tester, completely depress the brake pedal and hold 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 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.**



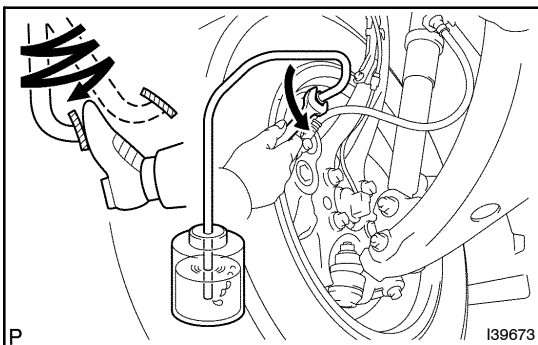
- (4) Tighten the bleeder plug, then release the brake pedal.
- (5) Repeat (2) to (4) until all the air in the fluid is completely bled out.
- (6) Tighten the bleeder plug completely.

Torque: 11 N·m (110 kgf·cm, 8 ft·lbf)

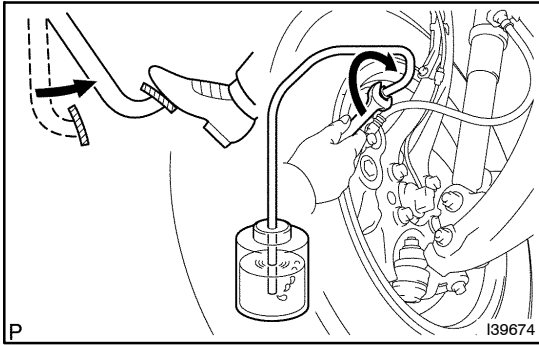
- (7) Repeat the above procedures for the rest of the wheels to bleed the air out of the brake line.
- (g) Bleed the air out of the regular bleeding again according to "Step4: Increase" on the hand-held tester display.

NOTICE:

- **Bleed the air by following the steps displayed on the hand-held tester.**
- **Make sure that 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: 11 N·m (110 kgf·cm, 8 ft·lbf)

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

SST 09992-00242, 09992-00350

- (h) Finish "AIR BLEEDING" on the hand-held tester and turn off the power.
- (i) Disconnect the hand-held tester from the DLC3.
- (j) Turn the ignition switch off.

5. CHECK FLUID LEVEL IN RESERVOIR

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

Fluid: SAE J1703 or FMVSS No. 116 DOT3

If fluid leaks, tighten or replace the leaking part.