

11. Air Bleeding

A: PROCEDURE

CAUTION:

- Do not let brake fluid come into contact with the painted surface of the vehicle body. Wash away with water immediately and wipe off if it is spilled by accident.
- Avoid mixing brake fluid of different brands to prevent fluid performance from degrading.
- Be careful not to allow dirt or dust to enter the reservoir tank.

1. MASTER CYLINDER

NOTE:

- When the master cylinder is replaced or the reservoir tank is empty, bleed the master cylinder.
- If bleeding of the master cylinder is not necessary, omit the following procedures, and perform bleeding of the brake line. <Ref. to BR-53, BRAKE LINE, PROCEDURE, Air Bleeding.>

1) Fill the reservoir tank of the master cylinder with brake fluid.

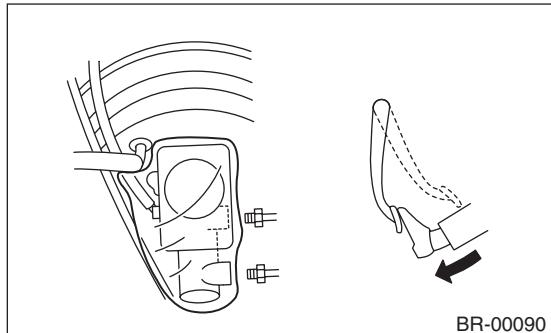
NOTE:

While bleeding air, keep the reservoir tank filled with brake fluid to prevent entry of air.

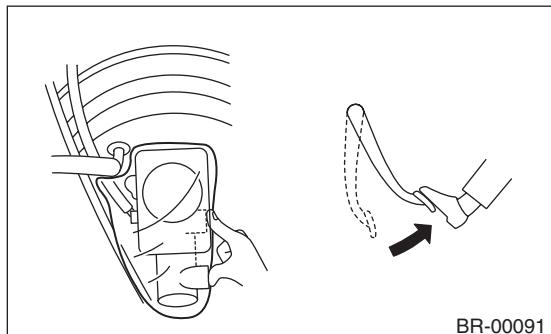
2) Disconnect the brake line at primary and secondary sides.

3) Wrap the master cylinder with a plastic bag.

4) Depress the brake pedal slowly and hold it.



5) Plug the outlet plug with your finger, and then release the brake pedal.



6) Repeat the step 4) and 5) several times.

7) Remove the plastic bag.

8) Install the brake pipe to the master cylinder.

Tightening torque:

Brake pipe flare nut: 19 N·m (1.94 kgf·m, 14.0 ft-lb)

9) Bleed air from the brake line. <Ref. to BR-53, BRAKE LINE, PROCEDURE, Air Bleeding.>

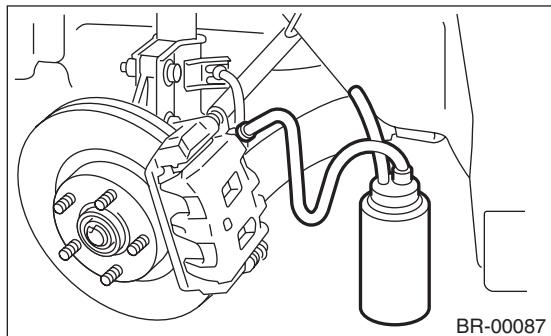
2. BRAKE LINE

- 1) When the master cylinder is replaced or the reservoir tank is empty, bleed the master cylinder before bleeding the brake line. <Ref. to BR-52, MASTER CYLINDER, PROCEDURE, Air Bleeding.>
- 2) Fill the reservoir tank of the master cylinder with brake fluid.

NOTE:

While bleeding air, keep the reservoir tank filled with brake fluid to prevent entry of air.

- 3) Attach one end of the vinyl tube to the air bleeder and the other end to the brake fluid container.



- 4) Depress the brake pedal several times, and hold it.
- 5) Loosen the air bleeder screw to drain brake fluid. Tighten the air bleeder quickly, and release the brake pedal.
- 6) Repeat the steps 4) to 5) until there are no more air bubbles in the vinyl tube.
- 7) Repeat the steps from 2) to 6) above to bleed air from each wheel.

NOTE:

Perform air bleed starting in the order from the farthest wheel cylinder from the master cylinder.

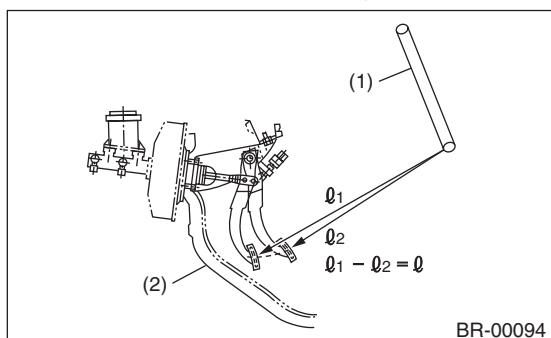
- 8) Securely tighten the air bleeder screws.

Tightening torque:

Air bleeder screw: 8 N·m (0.82 kgf·m, 5.9 ft-lb)

- 9) Check that there are no brake fluid leaks in the entire brake system.
- 10) Check the pedal stroke.

Run the engine at idle after warming up the engine, and depress the brake pedal with a force of 500 N (51 kgf, 112 lbf). Measure the distance between the brake pedal and steering wheel. Release the pedal, and measure the distance between pedal and steering wheel again.



(1) Steering wheel
(2) Toe board

Specification of pedal stroke:

**When depressing the pedal with a force of 500 N (51 kgf, 112 lbf).
110 mm (4.33 in) or less**

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BRAKE

- 11) If the distance is more than specification, there is a possibility of air being caught in the brake line. Bleed the brake line of all air until the pedal stroke meets the specification.
- 12) Operate the hydraulic control unit in the sequence control mode. <Ref. to VDC-21, ABS Sequence Control.>
- 13) Check the pedal stroke again.
- 14) If the distance is more than specification, there is a possibility of air being caught in the hydraulic unit. Repeat above steps 2) to 9) until the pedal stroke meets the specification.
- 15) Fill the reservoir tank with brake fluid up to the "MAX" level.
- 16) Perform a road test and ensure that the brakes operate normally.