

Thank you for purchasing the TDR Brake Bleeder Kit. The bleeder kit uses a one-way check valve so that you can bleed the brake fluid on your own. Air and moisture in the brake lines and calipers are the biggest issues of having a good proper braking system. You should consider bleeding your brake fluid during brake pad replacement. Brake fluid adsorbs moisture and when driven hard the moisture in your brake fluid can boil. If your brake pedal feels mushy then there is a good chance you have air and or moisture absorption in your system.

You will need a used clear plastic beverage bottle no bigger then 20 oz. Some bottles have a wider base which is better and some are thicker plastic so choose carefully. I prefer a good old Coke bottle.



- 1) After you have located a bottle, remove one end of the hose so that you will be able to slide it into the drilled hole of the bottle cap as shown in Photo 1. You want the drilled hose to be slightly larger than the clear hose.
- 2) With the cap off, drill the larger hose slightly off center using a 3/8" drill bit. A vent hole is required so you don't pressurize the bottle. Use a 1/16-3/32" drill bit and drill as shown in Photo 2.
- 3) Push the hose through the cap, but make sure you align it so the check valve is in the bottom of the cap as shown in Photo 3.

- 4) Before installing into the plastic bottle, turn the check valve about one turn to relieve spring pressure on the ball valve as shown in Photo 4. If there is too much tension during bleeding then loosen another turn. Be careful that if you open the end that you do not loose the spring and ball.
- 5) Install the hose assemble into the plastic bottle as shown in Photo 5. When the bleeder bottle is being stored, push the hose into the bottle as shown in Photo 6.
- 6) When bleeding your brakes, start with the furthest bleeding point. For the Miata, start with the left, rear first.



Photo 1: Remove the end piece from the hose



Photo 2: Drill holes in cap



Photo 3: Install hose in to the cap

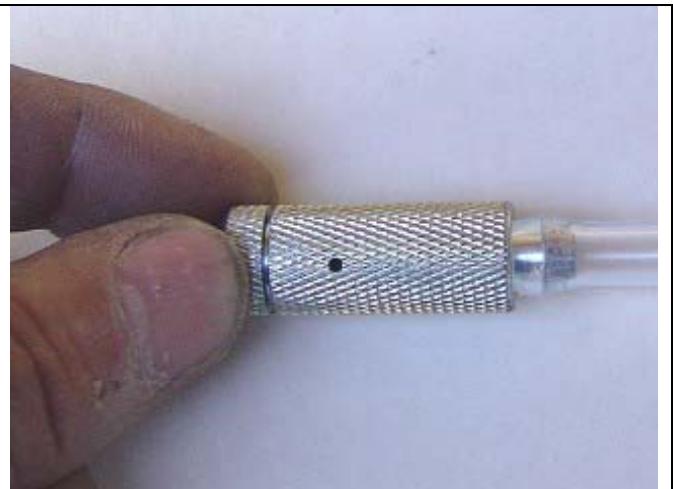


Photo 4: Loosen check valve spring tension

- 7) Attach an 8 mm wrench onto the bleeder fitting and then press on the hose fitting securely as shown in Photo 7. Loosen your bleeder fitting about $\frac{1}{4}$ turn and then begin pumping your brakes several times. You should have some back pressure, but if brake fluid does not easily push out then the bleed check valve on the hose may need to be loosened some more. Bleed until bubbles stop appearing in the hose. For added assurance you can also pump the pedal 4-5 times with the bleeder closed, and have a friend release the bleeder to make sure you remove all the air from the system.



Photo 5: Install hose assemble into plastic bottle



Photo 6: Push hose into the bottle when storing



Photo 7: Attach wrench and bleeder hose



Photo 8: Make sure bottle is secure while bleeding

Thank you again and if you have any questions please do not hesitate to ask.

Gary Shuhart
Head Dog