



V-5 BRAKE BLEEDER

INSTRUCTIONS MANUAL

PHOENIX SYSTEMS CUSTOMERS

Thank you for purchasing the patented V-5 Reverse Brake Bleeder. Our hope is that the V-5 will help you accomplish a professional grade brake job. If you have had a good experience with our product, please leave a review through your user profile on Amazon.com or at the website of the retailer you purchased the V-5 from. Your feedback is helping our company continually produce innovative products that leave a lasting impact on the automotive industry. We thank you in advance for your positive comments.

For any customers who have had trouble with their bleeder, the rest of this manual will help cover some of the problems that may occur for new users. Those persons brake bleeding for the first time may experience some simple frustrations with the bleeder, but the following pages will walk through a simple reverse brake bleeding procedure and cover some basic troubleshooting.

If you continue to have further problems with your V-5 Reverse Brake Bleeder, please give us a call at (888) 749-7977 or email us at sales@brakebleeder.com and a Phoenix Systems representative will gladly assist you in solving any issues that may occur. Thank you again for your choice in working with Phoenix Systems, we are continually trying to improve our customer quality. For any suggestions on how we can improve our products or our service please give us a call or email the information given above.

REVERSE BRAKE BLEEDING PROCEDURE STEPS

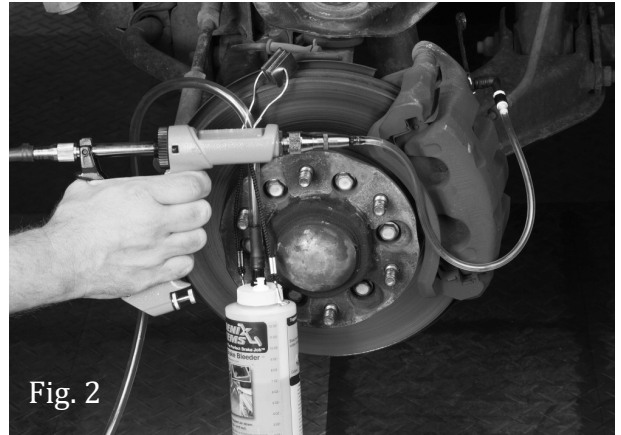
Air rises in liquid and because traditional methods are required to push air down through the brake system, there is a high possibility of trapped air. Reverse brake bleeding utilizes rising air to remove more trapped air than any other bleeding method.

1. Remove approximately 80% of the old Brake Fluid from the master cylinder reservoir.
2. Loosen the bleeder valve behind the caliper furthest from the master cylinder.
3. Locate the 90-degree elbow connector and place on the bleed screw. (See Fig. 1)



4. Take the outlet hose and attach to both the front of the bleeder pump and the elbow connector just placed on the bleed screw.
5. Insert the rubber funnel and tube into new bottle of brake fluid and attach the inlet hose to the funnel tube. Now attach the inlet hose to the green hose barb on bleeder.

6. Place the funnel and the firm outlet hose into canister containing the new brake fluid that will replace the old fluid within the system.
7. With the V-5 tilting forward, pump the handle 3-10 times to reverse bleed.
(See fig. 2)
8. After you stop seeing air bubbles come out of the master cylinder, burp then close the bleed screw.
9. Make sure not to over flow the master cylinder reservoir and repeat the process on the remaining wheels.
10. Test pedal for appropriate firmness and repeat some steps if necessary.



Additional Note: To make this process more convenient, you can purchase a Phoenix Systems brake bleeder capture and refill bottle as shown in figure 2. To keep this fluid bottle hanging correctly, place the magnet on the caliper and thread the given hose through the clip ring before connecting the hose to the bottle. See the last page of manual for purchasing details.

TROUBLESHOOTING



Sticking Handle: A problem that occurs for some new users is when the piston and handle stick as you try to prime your tool before use. The natural reaction is to pull back on the handle and force the piston back. Before pulling back it is best to make sure the bleeder cylinder is properly lubricated with new brake fluid.

If the handle and cylinder are continually sticking as you pump the tool, there is a three-step process that will help you prepare your tool for use.

- The first step is to remove the clear plastic cylinder on the front of the V-5. The cylinder simply removes from the handle by twisting in a counter-clockwise motion.
- After you have removed the cylinder from the handle, dip the piston and o-ring into new brake fluid.
- Once the base of the piston has been properly covered in brake fluid, place the clear cylinder back onto the handle and twist in a clock-wise motion to re-attach.

This process will help prevent the pump from continually sticking as you work with it throughout your brake bleeding procedure. NOTE: Do not cross thread while placing the cylinder back onto the handle.

Leaking Bleed Screw Threads: An issue that sometimes occurs is brake fluid leaking through the threads of the bleed screw. There is a simple three-step solution to clean up this problem.

- First, identify the bleed screw that is leaking and remove it from the back of the caliper. Location of bleed screw is shown in fig. 4.
- Second, take the removed bleed screw and wrap the threads with Teflon Tape. Make sure not to cover the hole located at the bottom of the screw.
- Last, once the screw has been wrapped, place the screw back inside the backend of the caliper. See fig. 5



Fig. 3



Fig. 4

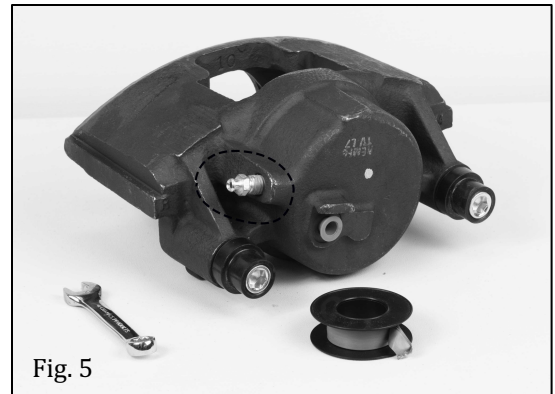
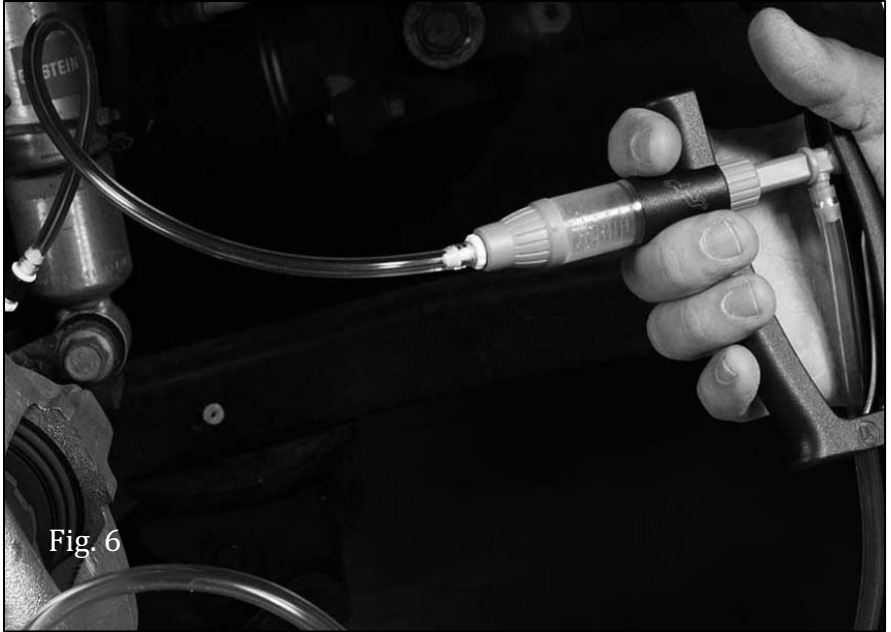


Fig. 5

Air Bubbles In Bleeder:

Something we get calls about are the tiny air bubbles that may reside in the clear cylinder.

This problem tends to occur if the handle has been sticking and there has been a quick retraction of the piston. The solution to this problem is very simple.



When using the tool make sure the pump is rotated forward. The bubbles will float to the highest point of the clear cylinder. Figure 6 shows the proper placement of the V-5 when performing a brake bleed. Once the placement of your tool parallels figure 6, you will be able to perform a fully effective reverse brake bleed on your vehicle.

NOTE: Remember to prime the tool before proceeding to bleed.

ADDITIONAL PRODUCTS see BrakeBleeder.com

During and after conducting your reverse brake bleed on your vehicle, there are a few products that will make the process more convenient and prevent further brake system issues in the future.

1. **Bleed Screw Caps**: If your vehicle is missing its original screw caps, it will leave the bleed screws vulnerable to rust, dirt and other natural elements. These caps keep your bleed screws clean and fresh for future use.
2. **Capture and Refill Bottle**: As shown in the reverse brake bleeding procedure, the one-man brake bleeder bottle provides an easy and convenient solution for maneuvering around your brake calipers. This bottle can be used as a refill bottle for any of the Phoenix Systems bleeders.
3. **BrakeShot**: BrakeShot will extend the life of your brake fluid. BrakeShot prevents corrosion from taking place on important brake system components. One ounce will allow your brake fluid to perform as high-grade racing fluid.

1.



2.



3.



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To view any of the products listed above, please visit the link below:

<http://www.brakebleeder.com/product-category/specialty-tools/>

