



1-LITER VACUUM BRAKE FLUID BLEEDER

OPERATIONS MANUAL



NEED HELP?

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Don't forget to register your product!

1. FEATURES

2. WARNINGS!

3. SPECIFICATIONS

4. INSTRUCTIONS

FEATURES

- This tool is for bleeding automotive hydraulic brake systems on most vehicles.
- Designed for use with disc or drum brake systems
- Includes one brake fluid bleeder with hose
- Transparent hose for fluid visibility during draining process
- Convenient hose hanging hook

WARNINGS

- Always read the instructions carefully before using the tool
- This brake bleeder is for use with hydraulic brake systems only
- Before each use, inspect the condition of the testing equipment
- To prevent injury DO NOT use damaged equipment
- Ensure the working area has adequate lighting
- This product is not a toy. Keep children and unauthorized persons away from the working area
- Keep working area clean, dry and free from unrelated materials
- DO NOT allow untrained persons to use this tool
- Always wear eye protection that meets OSHA and ANSI Z87.1 standards
- Always wear gloves when working with the tool
- Do not allow the tool to interfere with normal engine moving parts
- Engine exhaust contains carbon monoxide which is a poison
- Disposal: Customers should follow local regulation to handle used/waste parts and chemicals
- Be sure to follow manufacturers recommended bleeding sequence while performing procedure. Method does not eliminate proper sequence.
- Brake fluid is hazardous. Read and follow fluid manufacturer's warnings.
- Brake fluid is corrosive and may damage automobile paint or other surfaces. If fluid spills, flush with water immediately.

SPECIFICATIONS

Working Pressure	71 - 113 PSI
Maximum Air Pressure	113 PSI
Air Consumption	180 L/min
Vacuum	60%
Tank Capacity	1L
Inlet Size	1/4" BSP

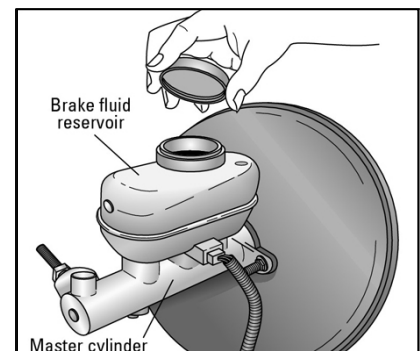
INSTRUCTIONS

Brake Bleeding Procedure

- 1) Remove the lid of the vehicle's brake fluid reservoir. Be sure to keep lid removed until bleeding and refill procedure is finished. This prevents vacuum from occurring in system that leads to incomplete purging of air from system. (Figure 1)

CAUTION: Brake fluid is corrosive and may damage automobile paint or other surfaces. If fluid spills, flush with water immediately.

Figure 1



- 2) Connect the brake bleeder to a suitable air compressor. Make sure connection is secure so that there is no loss in vacuum. Ensure a good and constant air supply to tool.
- 3) Start with wheel furthest from the master cylinder. Make sure bleeder screw is clean and unrestricted. Mount the black rubber hose connector onto the brake nipple on the first wheel. Make sure the adapter is firmly fitted to bleeder and open the nipple about 1/4 turn counterclockwise. (Figure 2)
- 4) Activate the brake bleeder's trigger. The vacuum created will draw the brake fluid from the vehicle's brake system. (Figure 3)
- 5) Check the level of the brake fluid in the reservoir and top off if necessary.
- 6) Continue to bleed the system and fill the reservoir until there are no air bubbles visible in the clear hose.
- 7) Keep suction applied until bleeder screw is firmly seated so air cannot back flow into system. Close the brake nipple and remove the rubber hose connector from step 3.
- 8) Depress the trigger to remove brake fluid from the clear hose.
- 9) Repeat the process at all four wheels. In general, it is best to work from the furthest wheel to the closest wheel from the master cylinder.

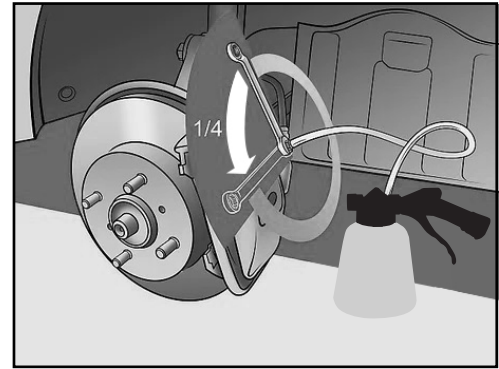


Figure 2

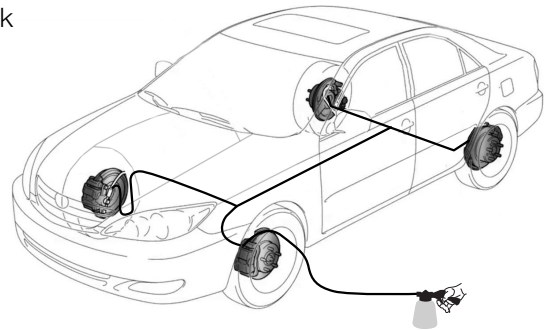


Figure 3

Changing the Brake Fluid Procedure

- 1) Repeat the brake bleeding procedure as described above until the master cylinder reservoir is at its minimum level. Fill the reservoir with new brake fluid and continue to bleed the system. Check reservoir level regularly.
- 2) When new fluid can be seen in the clear hose, tighten the brake nipple.
- 3) Repeat the process at all four wheels.
- 4) Apply anti-seize to the brake bleed nipples before and after the brake bleeding procedure to eliminate the possibility of seized or broken nipples when the brakes are next bled. (Figure 4)

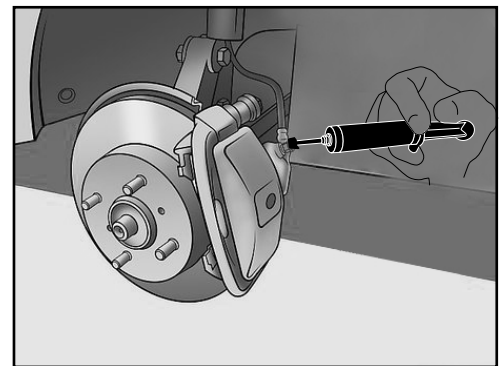


Figure 4

WARNING: When brake bleeding and/or fluid changing is complete, test action of brake pedal to ensure that the brakes are working before driving the vehicle.

1-LITER VACUUM BRAKE FLUID BLEEDER

WARRANTY

You are backed by the ARES Tool Performance Assurance!

ARES TOOL warrants this product (excluding carrying cases and storage accessories and the product categories set forth below) to the original purchaser for its useful life (not to exceed one year for products with electrical or electronic components) against defects and deficiencies in material and workmanship.

This **LIMITED LIFETIME WARRANTY** does not cover products which in ARES Tool's judgement have been subject to negligence, misuse, abuse, accident, improper storage, alteration, improper repair, disassembly and/or reassembly. Normal wear and tear are also excluded. Deficient products will be replaced or repaired.

Please call or email at (206) 453-6776 / ares@arestool.com for more details or to receive support.

This warranty excludes blades, bits, bit sockets, carrying cases, pouches, torque products, punches, dies, bulbs, fuses, batteries, and other consumables which must be replaced under normal use and service. These warranties set forth herein are the sole warranties applicable to Products and is in lieu of all other warranties, whether expressed, implied or statutory.

The implied warranties of merchantability and fitness for a particular purpose are specifically excluded. Customer's sole and exclusive remedy for breach of this Warranty is, at the option of **ARES TOOL**, repair or replacement of the defective product.

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WARNING:
Cancer and Reproductive Harm-
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