



MANUAL/PNEUMATIC FLUID EXTRACTOR WITH BLEED ADAPTER

OPERATIONS MANUAL

This unit is designed for the extraction of all types of engine, transmission and lubricating oils from cars, motorcycles, marine engines and industrial machinery. It is also suitable for low viscosity fluid such as water.

OPERATION INSTRUCTION

1. Park vehicle on level ground. Ensure the transmission of the vehicle is in “neutral” or “park” position and apply the parking brake.
2. Start the engine. Allow the engine to idle until it reached normal working temperature. Turn the engine off while it's done.
3. Choose suitable extractor probe from the selection and insert it through dip stick tube until reaching the bottom of oil pan.
NOTE: Do not bend the extractor probe during the inserting procedure.
4. Connect extractor probe to the suction hose.



5. Make sure the function knob on top of the cover is pushed inward (suction mode). And the discharge valve at the back of the unit is pushed upward (suction mode).
6. For "Manual Operation", raise the pump handle on top of the cover until it reaches its highest limit. Start pumping the handle and the unit will begin to extract oil from the engine crankcase.
NOTE: The vacuum level will drop when the fluid level begins to reach the top.
7. For "Pneumatic Operation", connect the shop air to the unit. Switch on the air and the unit will begin to extract oil from the engine crankcase.

INSTRUCTIONS FOR BLEEDING HYDRAULIC BRAKE SYSTEM

NOTE: Prior to bleeding, ensure the master cylinder is full of new manufacture's recommended brake fluid. It is recommended to use an automatic master cylinder refill kit with the vacuum bleeder to maintain the level of new fluid in the master cylinder during the brake bleeding process. If using a manual refill kit, pump the unit until the desired pressure is achieved.

Follow the instructions included to prevent air from being sucked into the master cylinder pistons, brake lines, and wheel cylinders while bleeding the brakes.

1. Properly position the vehicle for safe convenient access to the brake bleed screw located on each wheel brake cylinder.
2. Make sure that all bleed screws are clean.
3. Connect clean, regulated compressed air to the male quick change nipple extending from the vacuum bleeder handle. If using a manual unit, pump the unit until the desired pressure is achieved.

NOTE: Refer to the vehicle manufacturer's guidelines for the proper wheel bleeding sequence and vacuum bleeding steps.

4. Slip the bleed screw adapter on the end of the bleed tube assembly, over the nipple of the bleed screw.
5. Operate the vacuum bleeder by squeezing the handle (allow a few seconds for the vacuum to build up in the bleeder reservoir before suction occurs). Using an appropriate wrench, loosen/open the bleed screw slightly, until the fluid is draining visibly through the bleed hose and into the reservoir.

NOTE: During the bleeding process, as brake fluid is being vacuumed through the bleed screw, air will also be sucked into the bleed tube from around the bleed screw threads. This can give the misconception that air is bleeding from the lines. However, this is normal. To prevent or reduce this introduction of air, you may coat the bleed screw threads with silicon grease prior to bleeding.

6. Keep the bleed screw open until new fluid is visibly flowing through the bleed tube. This normally takes about 20 to 30 seconds).
7. Being careful not to over-tighten, close the bleed screw firmly prior to removing the bleed screw adapter or shutting off the bleeder.

NOTE: It is important to ensure that the bleed screw adapter remains connected to the bleed screw, and that the bleeder is still pulling a vacuum while the bleed screw is closed. This will help to prevent air from being sucked back into the wheel cylinder from around the bleed screw threads before the bleed screw is tightened and sealed.

NOTE: If a master cylinder auto-refill system is not used, be sure to periodically check the level and top off the brake fluid in the master cylinder.

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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.

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