

# DRAPER<sup>®</sup>

## INSTRUCTIONS FOR Manual Pressure Brake Bleeder

Stock No.22495

Part No.MPBB

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS PRODUCT.



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### GENERAL INFORMATION

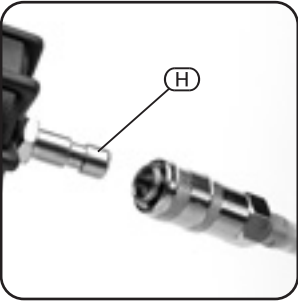
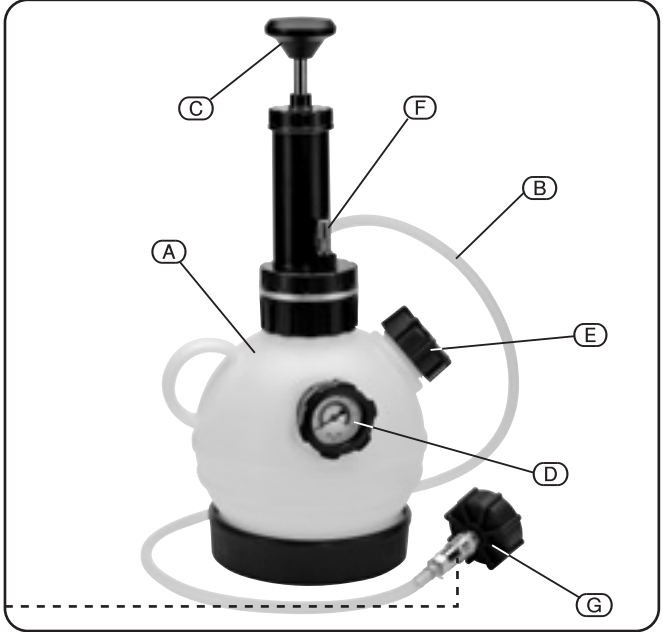
These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product. Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

**GETTING TO KNOW YOUR MANUAL PRESSURE BRAKE BLEEDER**

- (A) Fluid container.
- (B) Hose.
- (C) Hand pump.
- (D) Pressure gauge.
- (E) Container cap.
- (F) Pressure release valve.
- (G) Brake bleeder adaptor.
- (H) Brake bleeder adaptor – quick connector.



**SPECIFICATION**

The Draper Tools policy of continuous improvement determines the right to change specification without notice.

Stock No. ....	22495
Part No. ....	MPBB
Container capacity .....	2 Litres
Operating pressure .....	10psi
Maximum Pressure rating .....	30psi
Suction and connecting hose .....	5/16" O.D x 1M long
Additional features .....	Pressure release valve
.....	Quick connector
Pressure gauge .....	0 – 70psi (0 – 5bar)

This manual pressure brake bleeder is designed for use with most brake master cylinder reservoirs.

- Release all pressure from the brake bleeder and empty fluid container when not in use.
- Do not use if damaged.
- Clean after use with a clean dry cloth.
- Keep the hose and adaptor clean for future use.

**Note: Not all vehicles are suitable for use with pressure brake bleeding machinery. You MUST check with the vehicle manufacturer BEFORE use or serious damage/dangerous loss of braking system may occur. Draper Tools Limited can not be held responsible for incorrect use or application of this tool.**

- Some vehicles may be required to be put into service mode. Always check with manufacturer before proceeding.
- Fill the pressure bleeder at the cap (E) to the marker just below the pressure gauge with new, clean brake fluid of the correct type for the vehicle you are working on.
- Refit the cap firmly (be careful not to over tighten).
- Place the container in an upright secure position.
- Remove the cap from the vehicles brake reservoir.
- Check the level of the brake fluid and top up to the maximum line if necessary.
- Fit the brake bleed adaptor (G) with the quick connector (H) over the reservoir neck.
- Pump the handle (C) until 10psi is reached (do not exceed 30psi).
- If the system does not hold the pressure, re-check the connections, tighten and try again.
- The system is now primed and ready for the brakes to be bled without fear of bleeding them dry.
- Bleeding the brakes: This is a general description of how to bleed brakes. This may differ from vehicle to vehicle. **Always check with vehicle manufacturer's or Haynes manual on correct procedure.**
  - You may need another person to do this, as the brake pedal may need to be depressed firmly (check with vehicle manufacturer).
  - Repeat the following procedure on all wheels starting at the wheel furthest from the brake reservoir and work back to the closest.
  - Wipe each bleeding screw.
  - Place a clear plastic hose (compatible for use with brake fluid) over the fitting and the other end to a suitable empty container.
  - With a brake spanner (to avoid damage to the screw) loosen the bleed screw by ¼ turn to release the old brake fluid.
  - As the brake fluid is discharged through the brake nipple the pressure in the system will top up fresh fluid from the fluid container.
  - Check the pressure on the gauge (D). If this has dropped, pump the hand pump to build up any lost pressure.
  - Check the brake fluid for air bubbles. Once clean, clear fluid is flowing through, re-tighten to close the bleed screw.
  - If required, release the pressure on the brake pedal. **NOTE: Do not release the brake pedal when the screw is open as this will draw air into the system.**
  - Repeat on all wheels.
  - When the job is complete depress the pressure valve (F) to release pressure.
  - Check the pressure has been released from the container.
  - Carefully disconnect the hoses and all connections.
  - Before you drive the car make sure all bleed screws are tight, wheels are secured correctly and the brakes have been checked and offer the correct response.

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