

# DRAPER®

## INSTRUCTIONS FOR Pneumatic Brake Bleeder Kit

Stock No.28833

Part No.PBBK

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



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DRAPER®

### 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.

## 4. INTRODUCTION

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### 4.1 SCOPE

This pneumatic brake bleeder kit and adaptor are suitable for most vehicles that cannot have the brakes bled using the suction method.

### 4.2 SPECIFICATION

Stock no .....	28833
Part no .....	PBBK
Container capacity .....	5 Litres
Operating pressure .....	20psi
Maximum pressure rating.....	20psi
Connecting hose.....	3.8M long
Additional features .....	Pressure release valve
.....	Quick connector
Pressure gauge .....	0 - 70psi (0 - 5bar)
Weight .....	10kg

## 5. HEALTH & SAFETY INFORMATION

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### 5.1 SAFETY CAUTION

Release all pressure from the brake bleeder and empty fluid container when not in use.

Do not use if damaged.

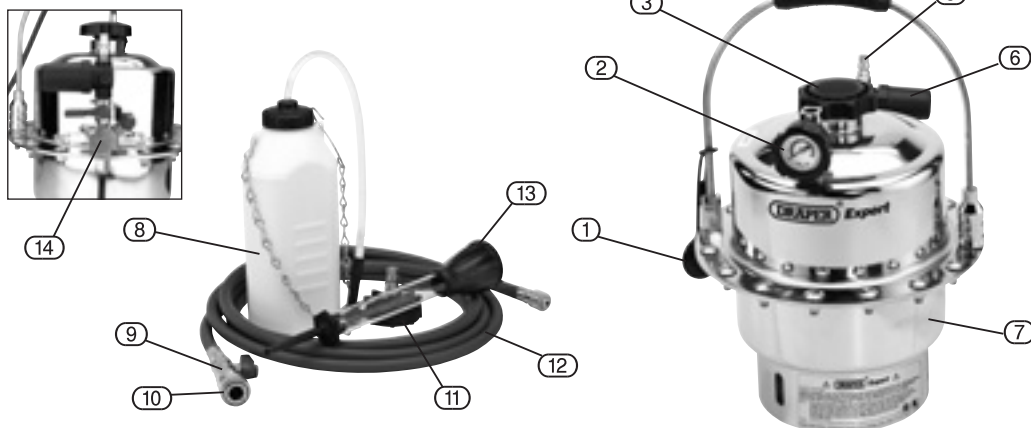
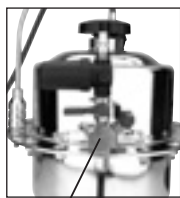
Clean after use with a clean dry cloth.

Keep the hose and adaptor clean for future use.

## 6. TECHNICAL DESCRIPTION

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### 6.1 IDENTIFICATION



- |                    |                                    |                                    |
|--------------------|------------------------------------|------------------------------------|
| ① Adaptor cap      | ⑦ Low pressure tank                | ⑫ 3.8M (approx.) fluid supply hose |
| ② Pressure gauge   | ⑧ Bleeding bottle                  | ⑬ Reservoir syringe                |
| ③ Fluid filler cap | ⑨ Fluid supply valve               | ⑭ Pressure valve                   |
| ④ Carry handle     | ⑩ Quick coupler                    |                                    |
| ⑤ Air intake valve | ⑪ European master cylinder adaptor |                                    |
| ⑥ Air regulator    |                                    |                                    |

## 6. BASIC BRAKE BLEEDER KIT OPERATIONS

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### 6.1 IDENTIFICATION

**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 (3) 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 vehicle brake fluid reservoir.
- Check the level of the brake fluid and top up to the maximum line if necessary.
- Fit the brake bleed adaptor (11) with the quick connector (10) over the reservoir neck.
- Attach air line to air intake valve (5) and pressurise to 20psi (do not exceed 20psi).
- 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. (Confirm bleeding process with manufacturer).
  - Wipe each bleeding screw.
  - Place the plastic hose from the bleeding bottle (8) over the bleed screw.
  - 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 (2). If this has dropped, 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 (14) to release pressure.
  - Check the pressure has been released from the container.
  - Carefully disconnect the hoses and all connections.

**Note: Alternatively, mechanics may utilise "adaptor cap (1)" to push down the rubber. Simply install this adaptor on the filler neck and blow air inside by air gun. The rubber will be pushed downward by air.**

- Using reservoir syringe adjust brake fluid level.
- 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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