

# Clarke®



## 4 LITRE MANUAL BRAKE BLEEDER AND UNIVERSAL ADAPTOR

MODEL NO: CHT857 & CHT858

PART NO: 1801857 & 1801858

### OPERATING INSTRUCTIONS

CE

GC0516

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## INTRODUCTION

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Thank you for purchasing this CLARKE Brake Bleeder.

The CHT857 clutch & brake bleeding kit is designed for one-man operation requiring no external power source, The user has to only fill the reservoir and pump the handle.

The reservoir capacity of 4 ltr enables an entire system flush in one fill, without the risk of running the reservoir dry.

The bleeder is supplied with a 44 mm diameter cap which will fit the master cylinders of most European cars. In the event that the standard 44 mm diameter cap does not fit the master cylinder reservoir, the optional **Universal Adaptor - CHT858** will be required.

Please read this manual thoroughly before attempting to use this product, and carefully follow all instructions given.

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## SPECIFICATIONS (CHT857)

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Method of operation	Hand operation (one-way siphoning)
Max Container Capacity	4 Litres
Operating Pressure	10 psi
Max Pressure	30 psi
Dimensions D x W x H	174 x 184 x 415 mm
Suction & Connecting Hose Size	8 mm o/d x 1000 mm long

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## GUARANTEE

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This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

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# SAFETY PRECAUTIONS

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**WARNING: AS WITH ALL EQUIPMENT, THERE ARE CERTAIN HAZARDS INVOLVED WITH ITS OPERATION AND USE. EXERCISING CAUTION WILL REDUCE THE RISK OF PERSONAL INJURY.**

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It is vitally important that all precautions are taken, as specified, which will not only provide protection for yourself and that of others around you, but will also ensure that the product will give you long and satisfactory service.

## WORK AREA

1. Keep the work area clean and well lit. Floors should always be kept clear. Cluttered or dark areas invite accidents.
2. Keep children and bystanders away while operating machines and using tools. Distractions can cause loss of control.

## PERSONAL SAFETY

1. Always stay alert, watch what you are doing and use common sense when operating this product. Do not use the product while you are tired or under the influence of medication, drugs or alcohol. A moment of inattention can result in personal injury.
2. Do not over-reach. Keep your proper footing and balance at all times when positioning the product.
3. Brake fluid is highly corrosive. It is advisable to always wear gloves and approved safety glasses at all times and always prevent contact with painted surfaces.
4. Always store this product out of reach of children and do not allow persons unfamiliar with these instructions to operate it.
5. Always thoroughly familiarise yourself with this product & its operation, and always read and understand the instructions and warnings in this manual before using the equipment.

## GENERAL EQUIPMENT USE AND CARE

1. Always maintain the product with care and keep it clean for best / safest performance.
2. Never use this product if any part is damaged. Have it inspected and repaired by your local Clarke dealer.
3. Never modify or tamper with this product in any way. Use it only for the purpose for which it is designed.

4. Never use the fluid container to extract or store flammable liquids, toxic or corrosive chemicals or hold any fluids at very high temperatures.
5. Always consult and follow the vehicle manufacturers recommended procedures when working on any hydraulic system.
6. Always drain, wash and clean the unit immediately after each use.
7. Always ensure the brake bleeder is in a level position.
8. Never drop, throw or mishandle the equipment.
9. Always make sure that the brake bleeder is in perfect condition before use with no cracks which would result in fluid leaks.
11. If brake fluid is spilt, the area must be cleaned completely and sand or sawdust scattered on the area to absorb the fluid and then cleaned up. You should also alert people in the vicinity to the possible danger of slipping.
12. Always comply with all local authority regulations when disposing of any type of used fluid.
13. Always have the unit repaired by your local CLARKE dealer, using only identical replacement parts. This will ensure the safety of the unit is maintained. The use of non standard parts could be hazardous.

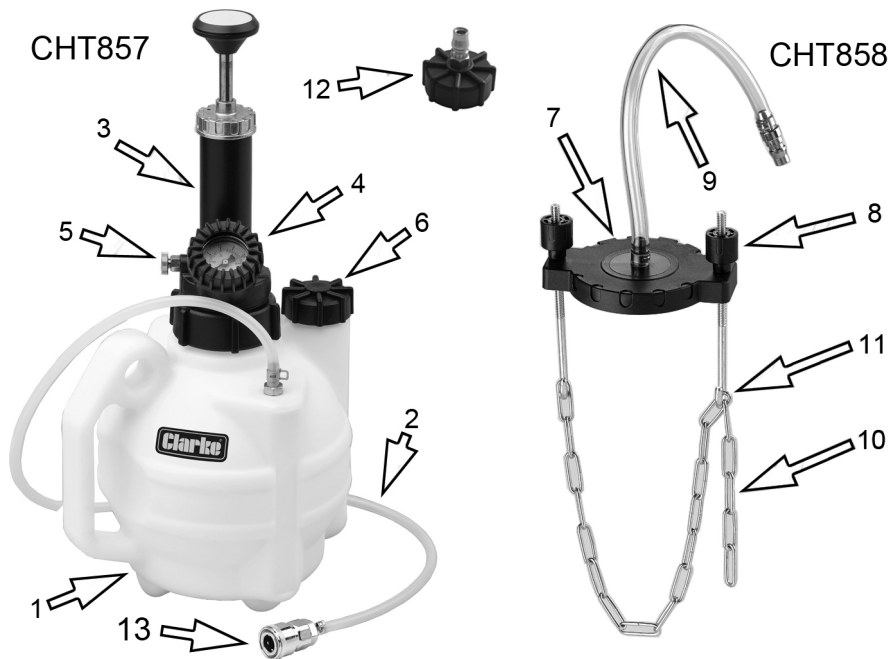
Your CLARKE Brake Bleeder has been designed to give long and trouble free service. If, however, having followed the instructions in this booklet carefully, you encounter problems, take the unit to your local CLARKE dealer.

## **ENVIRONMENTAL PROTECTION**

One of the most damaging sources of environmental pollution is oil products. Never throw away used brake fluid with domestic refuse or flush it down a sink or drain. Collect all the brake fluid in a leak proof container and take it to your local waste disposal site.

If disposing of this product or any damaged components, do not dispose of with general waste. This product contains valuable raw materials. Metal products should be taken to your local civic amenity site for recycling of metal products.

## OVERVIEW OF CHT857 & CHT858



1	Fluid Container
2	Container Hose
3	Hand Pump
4	Pressure gauge
5	Pressure Release Valve
6	Container Cap
7	Reservoir Adaptor

8	Tensioning Nut
9	Adaptor Hose
10	Chain
11	"J" Hook
12	Bleeder Cap (44 mm)
13	Quick-release Coupling

## CONNECTION & OPERATION



CAUTION: BRAKE FLUID IS CORROSIVE. IN THE EVENT OF FLUID SPILLAGE, CLEAN UP & USE WATER TO FLUSH AWAY IMMEDIATELY.

## CHT857 BRAKE BLEEDER

1. Ensure that the brake bleeder is clean and free from old brake fluid.
2. Remove the hydraulic fluid reservoir cap from the vehicle. If old fluid is contaminated, drain it off and refill the system with fresh fluid.
3. Firmly screw the bleeder cap (12) onto the vehicle hydraulic fluid reservoir, ensuring that the gasket seats correctly.
4. Make sure that the quick-release coupling (13) of the container hose (2) and cap (12) are clean. Pull back the collar of the quick coupler and push the adapter into it. Release the collar to lock the two together.
5. Place the brake bleeder in a stable location in the vehicle engine bay and tighten the bleeder cap (6). Commence pumping the hand pump (3) to pressurize the system to approx 10 psi (0.7 bar) as indicated by the gauge.
6. Check for leaks at the cap (12) and at the hose (2) and if leaking, release the pressure in the bleeder by gently unscrewing the pressure release valve (5). Re-fit the cap and hose and pressurise again.
  - DO NOT remove the container cap before depressurising the bleeder.
7. If leak free, release the pressure, unscrew the bleeder cap (6) and add new hydraulic fluid of the type recommended for your vehicle. to the bleeder container.
8. Tighten the bleeder cap and pressurise the bleeder.
  - DO NOT exceed 20 psi (1.4 bar). Higher pressures may damage your vehicle hydraulic system and could result in injury.
9. Determine the correct brake bleeding sequence from your vehicle service manual.
10. Attach a bleed tube (not supplied) to the bleed nipple at the first wheel cylinder to be bled. Place the free end into a container. Open the bleed nipple and wait until fluid runs clear and free of bubbles, then re-tighten the bleed nipple.
11. Repeat on each bleed nipple, restoring pressure in the bleeder if necessary. When complete, release the pressure by loosening the pressure release valve (5).
12. If, when finished, fluid remains in the bleeder container, open the bleed valve closest to the vehicle master cylinder until the fluid drops just to the maximum fill level on the reservoir. Close the brake bleed valve.
13. Remove the bleeder cap (12) from the fluid reservoir, taking care to avoid spilling any fluid remaining in the hose.
14. Replace the reservoir cap on the vehicle, checking that the fluid level is at the maximum level indicated on the vehicle reservoir.

- Carefully check for leaks and test for proper brake operation before driving the vehicle,

## CHT858 RESERVOIR ADAPTER

If the 44mm bleeder cap (12) does not fit the vehicle hydraulic reservoir, the CHT858 adaptor will be required.

- Fit the reservoir adapter over the reservoir filler neck.
- Pass the chain (10) under the hydraulic reservoir, of the vehicle and attach to both "J" hooks (11). Turn the two tensioning nuts (8) equally to tighten the Reservoir Adapter to the reservoir rim to seal the system.
- Make sure that the quick-release coupling (13) of the container hose (2) and adapter hose (9) are clean. Pull back the collar of the quick coupler and push the adapter into it. Release the collar to lock the two together.
- Place the brake bleeder in a stable location in the vehicle engine bay and commence pumping the hand pump (3) to pressurize the system to approx 10 psi (Do not exceed 20 psi).
- If the system does not hold air pressure, adjust the adapter and retighten all connections, then try again.
- Follow the procedure on page 6 from step 5 onwards.

## TROUBLESHOOTING

Problem	Cause	Solution
Poor or no brake fluid transfer.	Loose connection(s).	Make sure all connections are secure.
	Hose(s) blocked or kinked.	Remove any kinks in hose and/or remove any blockage.
	System not adequately pressurised.	Pump the hand pump until the correct pressure is achieved.
	Vehicle brake system is empty of brake fluid.	Replenish fluid.

## CARE AND STORAGE

- Always drain the unit of all fluid before storing it for long periods. Store both the brake fluid and the brake bleeder in a safe place away from heat, sparks and children. Store in a dry place which is not exposed to direct sunlight or extremes of temperature.
- After use wipe the brake bleeder clean with a dry cloth.
- Do not store hydraulic fluid in the bleeder fluid container. Always dispose of excess fluid appropriately in accordance with local authority regulations.

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