

# Clarke®

## STRONG-ARM



### BOTTLE JACK

MODEL NO: CBJ30

PART NO: 7620050

## OPERATION AND MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

GC0519 ISS 3

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## INTRODUCTION

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Thank you for purchasing this CLARKE Bottle Jack.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you and you can look forward to your purchase giving you long and satisfactory service.

Keep these instructions for future reference.

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## GUARANTEE

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This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required 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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## SPECIFICATIONS

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Rated Load	30 tonne
Min Height of saddle	260 mm
Max Height of saddle	390 mm
Pump oil capacity	600 ml
Dimensions (L x W x H) mm	179 x 148 x 265
Weight	15.9 kg
Length of Operating Handle	550 mm

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## **SAFETY PRECAUTIONS**

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1. Do not exceed the rated capacity of the jack.
2. Do not let anyone operate the jack unless they have read these safety precautions.
3. Do not operate the jack if damaged in any way.
4. Use the jack in a well lit work area.
5. Keep the work area clean and tidy and free from unrelated items.
6. Only use the jack on level and solid ground, preferably concrete. Never use it on soft/unmade ground as the jack may sink in.
7. Make sure that non-essential persons keep a safe distance whilst the jack is in use.
8. Make sure there are no people or obstructions under the vehicle before lowering.
9. Do not work below the vehicle until it is fully supported by axle stands.
10. Keep your hands clear of the vehicle until lifting is complete.
11. Make sure that you can see the saddle and jacking point throughout the jacking operation in case there is any relative movement.
12. Always make sure that the jack saddle is centred and stable on the lifting point before lifting and position the jack to avoid operating it from under the vehicle.
13. Check the vehicle weight and location of the lifting points by referring to the vehicle owners manual.
14. Do not tamper with the jack or modify it in any way, as this could prove to be dangerous and will invalidate the guarantee.
15. Only use the jack for the purpose for which it is intended.
16. Use applicable safety equipment, such as protective footwear, when you use this jack.
17. Make sure that the jack is correctly maintained and lubricated at all times, and that no corrosion is allowed to weaken any part of it.
18. If the jack has been subjected to an abnormal load or shock, it should be removed from service immediately and fully inspected by qualified personnel, and passed as serviceable, before being used again.
19. When not in use, store the jack, fully lowered, in a safe, dry, childproof area.

20. Always examine the jack before use. Make sure that all parts are in good condition and operating smoothly, and that no cracks or distortion is apparent. If in doubt do not use.
21. Do not push a vehicle off the jack or start the engine while supported only by the jack.
22. Do not use if an oil leak is apparent. Consult the Clarke Service Department.
23. If more than one jack is used in unison, they must all be of the same rating and be raised at the same speed to reduce the possibility of the load slipping.

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## **SAFETY SYMBOLS**

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The following safety symbols may be found on the product.



Read the user manual before use.

### **LIFTING OPERATIONS AND LIFTING EQUIPMENT REGULATIONS 1998**

This jack, depending on use, may fall within the scope of LOLER. It is the owner's responsibility to determine whether or not it does and, if so, to comply with any applicable requirements in LOLER, for having the jack thoroughly examined.

### **ENVIRONMENTAL PROTECTION**

1. Take care to ensure that if hydraulic oil is spilt that it is cleaned away using sand or treated with absorbent granules designed for the purpose.
2. Always make every effort to contain any spillage and prevent ingress into the local water course.

# PRODUCT FEATURES



1	3 x Handle Tubes
2	Ram
3	Oil Filler Plug
4	Actuating Lever
5	Release Valve

## UNPACKING

During transit or storage, it is possible that an air pocket may have developed within the hydraulic ram, and the ram action may therefore appear to be 'spongy'. In this case the jack may require purging as described on page 7.

If the jack does not reach its full height, the oil level may require topping up as described in the Maintenance section.

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# OPERATION

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**WARNING: MAKE SURE THAT THE SAFETY PRECAUTIONS ARE STRICTLY FOLLOWED. NO RESPONSIBILITY CAN BE ACCEPTED FOR INCORRECT USE OF THE JACK**

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## RAISING A VEHICLE

1. Make sure that the vehicle is stable and is on firm level ground with the wheels chocked before positioning the jack directly below the lifting point. DO NOT rely upon the vehicle handbrake alone to prevent vehicle movement.
2. Make sure that the jack is on solid ground. If not, place a piece of solid wood of sufficient size to provide sufficient support below the jack.
3. Consult the vehicle owners manual to ascertain the location of the lifting points and position the jack below the designated lifting point.
4. Locate the slotted end of the jack handle on to the release valve and turn fully clockwise to close the valve.
5. Pump the handle and raise the ram so that the jack and lifting point are in full contact. Before proceeding further, make one last check to make sure that:
  - the jack is vertical and stable.
  - there are no obstructions to the lift and that the handle can move freely up and down.
  - all personnel are in a safe position.
6. When satisfied, continue to pump the handle and lift the load to the height required.
7. Do not let anyone reach or work below the vehicle until it is firmly supported on suitable axle stands.

## LOWERING THE VEHICLE



**WARNING: ALWAYS LOWER IN A SLOW AND CONTROLLED MANNER, AND CHECK THAT THERE ARE NO OBSTACLES IN THE PATH OF THE LOAD'S DESCENT. BE VERY CAREFUL WHEN LOWERING HEAVY LOADS.**

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1. The lowering speed is controlled by the amount you turn the release valve. With the axle stands removed, check to make sure that there are no

personnel in the immediate vicinity before removing the handle from its housing, and engaging it with the release valve.

2. Very slowly turn the handle counterclockwise to open the release valve, and let the jack lower the load, under complete control. Do not jerk the valve open.

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## MAINTENANCE

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***IMPORTANT: Only fully qualified personnel should attempt to repair the jack.***

### INSPECTION

1. Always examine the jack before use, to ensure that all parts are correctly located and secure. Check for hydraulic leaks, signs of damage or worn parts. **Do not use the jack unless it is perfectly serviceable.**
  - A slight dampness on the ram is normal, but where leakage is found, the ram seals must be renewed by your Clarke Spares Department.
2. The jack must be fully inspected annually:
  - Check for cracks and deformation of components.
  - Check operation and top up the oil level. (see below).
  - Remove rust or corrosion and repaint to prevent corrosion.
  - Make sure that all decals and warning notices are in place and legible.
3. After use, store the jack with the ram in its lowest position. This not only releases the pressure in the hydraulic ram, but also prevents any possibility of corrosion to the ram.
4. Do not leave the jack in the open, exposed to the weather. Keep under cover. If stored for long periods, examine before use, clean, and re-oil. For servicing, speak to your CLARKE dealer or CLARKE Service department.

### TOPPING UP THE OIL

It can be necessary from time to time to top up the hydraulic oil level as follows.

1. Turn the release valve counterclockwise and let the ram retract to its lowest position.
  - It can be necessary to apply force to the saddle for lowering without any weight on the jack.
2. With the jack in the level position, remove the filler plug and stand upright.
  - The oil should be level with the bottom of the oil filler hole.

3. If below this, top up.
4. Do not overfill. Only use the correct type of oil such as Clarke hydraulic oil (part number 3050830).
5. Replace the filler plug.
6. Check the jack for correct operation and purge any air from the system as described below.

## **PURGING AIR FROM THE JACK**

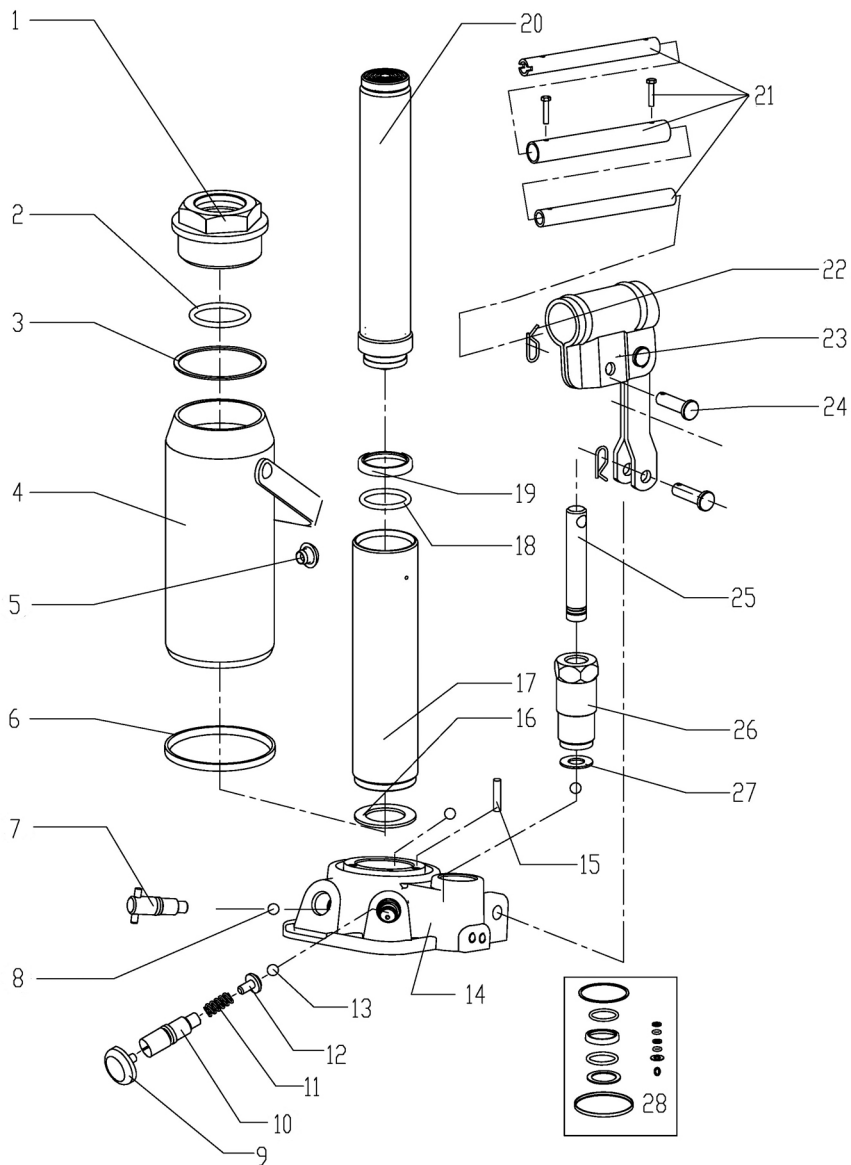
1. Turn the release valve counterclockwise one full turn to open.
2. Pump the handle eight full strokes.
3. Turn the release valve clockwise to close the valve.
4. Pump the handle until the ram reaches maximum height and continue to pump several times to remove trapped air.
5. Turn the release valve counterclockwise one full turn and lower the ram to its lowest position. Apply pressure if necessary.
6. Turn the release valve clockwise to the closed position and check for correct operation. It may be necessary to perform the procedure more than once to evacuate all the air.

## **TROUBLESHOOTING**

<b>Problem</b>	<b>Reason</b>	<b>Solution</b>
Jack will not lift to full height	Low oil level	Check oil level
Jack will not hold load	Release valve not closing Hydraulic oil contaminated Pump valves not sealing Cylinder ram binding	Speak to the Clarke Service Department
Jack piston will not lower	Cylinder ram binding Parts worn Internal damage Lift arm linkage bent or binding	Speak to the Clarke Service Department
Jack feels spongy when lifting	Air trapped in the hydraulic system	See air purging procedure above



# PARTS DIAGRAMS



## PARTS LIST

No	DESCRIPTION	PART NUMBER
1	Top cup	ZTGCBJ3001
2	O-ring	ZTGCBJ3002
3	Rectangular ring	ZTGCBJ3003
4	Reservoir	ZTGCBJ3004
5	Oil plug	ZTGCBJ3005
6	T-ring	ZTGCBJ3006
7	Release valve assembly	ZTGCBJ3007
8	Ball 6mm	ZTGCBJ3008
9	Plastic plug	ZTGCBJ3009
10	Adjusting screw assembly	ZTGCBJ3010
11	Spring	ZTGCBJ3011
12	Spring holder	ZTGCBJ3012
13	Steel ball 3mm	ZTGCBJ3013
14	Base parts	ZTGCBJ3014
15	Oil filter pipe	ZTGCBJ3015
16	Cylinder ring	ZTGCBJ3016
17	Cylinder	ZTGCBJ3017
18	O-Ring	ZTGCBJ3018
19	Bowl washer	ZTGCBJ3019
20	Piston rod assembly	ZTGCBJ3020
21	Handle assembly and Hexagon bolts	ZTGCBJ3021
22	Cutter pin	ZTGCBJ3022
23	Handle socket assembly	ZTGCBJ3023
24	Pin	ZTGCBJ3024
25	Pump plunger assembly	ZTGCBJ3025
26	Pump	ZTGCBJ3026
27	Washer	ZTGCBJ3027
28	Seal kit	ZTGCBJ3028

# DECLARATION OF CONFORMITY



**Clarke**<sup>®</sup>  
**INTERNATIONAL**

Hemnall Street, Epping, Essex CM16 4LG

## DECLARATION OF CONFORMITY

**This is an important document and should be retained.**

**We hereby declare that this product(s) complies with the following directive(s):**

2006/42/EC *Machinery Directive.*

**The following standards have been applied to the product(s):**

EN 1494:2000+A1:2008.

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2017

**Product Description:** 30 Tonne Hydraulic Bottle Jack  
**Model number(s):** CBJ30  
**Serial / batch Number:** N/A  
**Date of Issue:** 15/11/2017

**Signed:**

J.A. Clarke  
Director

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