



Britannia Fire Ltd

BRITANNIA RANGE

FIRE EXTINGUISHER SERVICING & MAINTENANCE INSTRUCTIONS

Carbon Dioxide (CO₂) Models



SPINTRO REV 6: October 2017

PROCEDURES FOR SERVICING THE BRITANNIA RANGE OF HAND PORTABLE FIRE EXTINGUISHERS

Introduction

The commissioning and servicing of firefighting equipment must be carried out by a competent person using the correct tools to follow these manufacturer's instructions and any National standards required in the relevant Country.

This maintenance should be performed at least annually. The extinguishers should be visually inspected at least quarterly, but preferably monthly, by the user, to ensure that the equipment is in its designated position, has not been used and has not been tampered with.

Servicing and recharging should be carried out in a clean dry environment. All recharge materials and spare parts must be as specified by the manufacturer.

In the event that an extinguisher cannot immediately be rendered suitable for continued service, it must be marked 'NOT MAINTAINED' until it can be repaired/recharged. The competent person must advise the user of any equipment, which is either condemned or unfit for service and make any recommendations for replacement and/or remedial work.

Always check the security and suitability of the hanging bracket, and that the extinguisher is of the right type for the prevalent risk.

If the extinguisher is to be sited in a hazardous/corrosive environment i.e. marine use, the inspection periods should be more frequent. The effects of the environment should be considered, with particular reference to corrosion and legibility of marking instructions. Where necessary the extinguisher should be protected from the environment i.e. PVC cover or box. If there is corrosion or the markings are not legible, then the extinguisher should be withdrawn from service. This is a requirement of the Marine Equipment Directive.

It is essential that extinguishers are not subjected to temperatures outside of the temperature range stated on the extinguisher.

Extinguishers should remain in their allocated location, and should be used only for the purposes of extinguishing a fire. On no account should the extinguisher be removed for any other purpose, and should not be subjected to any impact, force, heat, abrasion or any other misuse or condition that may be detrimental to the integrity of the extinguisher.

Failure to use the recommended spare parts and adhere to these maintenance instructions may cause the extinguisher to malfunction or prevent it from operating altogether. This may invalidate the warranty and the manufacturer accepts no liability in the event that these instructions are not followed.

Care must be taken to ensure that residual media (powder and foam) are disposed of in accordance with environmental legislation. Where facilities exist, condemned extinguishers and components should be recycled.



SPC02 REV 3 October 2017 2

SERVICING PROCEDURES FOR BRITANNIA RANGE STORED PRESSURE CARBON DIOXIDE (CO₂) MODELS

MODEL NO'S: BC2, BC2A, BC5, BC5A

WARNING: NEVER DISCHARGE CO₂ EXTINGUISHERS WITH NO DISCHARGE HORN ATTACHED

1. Remove extinguisher from hanging bracket and check security of the bracket, rectify if necessary. Check exterior of extinguisher for corrosion or damage, if found, withdraw from service.
2. Checkweigh the extinguisher against the gross weight stamped on cylinder. If underweight by more than 10% of contents, the extinguisher should be removed from service and recharged.
3. Ensure safety pin is in position and the extinguisher has not been completely or partially discharged. If the extinguisher has been completely or partially discharged, discontinue servicing procedure and commence recharge procedure (Ref. SPCO2).
4. Ensure instruction label is legible, rectify as necessary. Check for damage/corrosion to extinguisher body. If damage/corrosion is found, mark the extinguisher as condemned and/or remove from service.
5. Check safety pin for free movement. Replace pin and fit new operational seal (in accordance with service colour code).
6. Ensure safety pin is in position, loosen discharge horn retaining nut and remove the swivel horn/hose and horn from the valve. Blow compressed air through swivel horn/hose and horn and check for cracks, abrasion or other damage.
7. Check date of last hydraulic pressure test stamped on cylinder shoulder (this may be original date of manufacture). If hydraulic testing is due, 10 years after production, remove from service.
8. Refit swivel horn/hose and horn, fit new 'O'ring and ensure that sealing washer is present and in good condition. Tighten retaining nut (ensuring that a swivel horn can be raised into its firefighting position and remain stationary).
9. Record service details, including weight on the service label and return to service.



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RECHARGE PROCEDURES FOR BRITANNIA RANGE CARBON DIOXIDE (CO₂) MODELS

MODELS NO'S: BC2, BC2A, BC5, BC5A

Due to the specialised equipment and high pressures involved in the recharging of CO₂ extinguishers, **only** specially trained competent persons should carry out this procedure using special High-pressure Liquid CO₂ transfer pumping equipment.

Always check date of last hydraulic pressure test and do not recharge any extinguisher that requires a hydraulic pressure test.