

# ***NORFOLK***

***RANGE***

***EXTINGUISHER***

***SERVICING &***

***MAINTENANCE***

***INSTRUCTIONS***



**Britannia Fire Ltd**

# **PROCEDURES FOR SERVICING THE NORFOLK RANGE** **OF TRANSPORTABLE FIRE EXTINGUISHERS**

## **Introduction**

The commissioning and servicing of fire fighting 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.

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 suitability of the stowage location, 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 possible the extinguisher should be protected from the environment i.e. PVC cover or box. If there is significant corrosion or the markings are not legible, then the extinguisher should be withdrawn from service. This is a requirement of the Marine Equipment Directive.

Failure to use the recommended spare parts, recharge materials 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.

**SERVICE PROCEDURES FOR NORFOLK RANGE WHEELED****AFFF FOAM MODELS****MODEL NO'S: NRAF45 & NRAF135**

1. Inspect the exterior of the extinguisher for damage or significant corrosion. If found, the extinguisher should be withdrawn from service.
2. If conditions indicate the extinguisher has been completely or partially discharged, i.e. broken tamper tag, discontinue servicing procedure and commence recharge procedure (ref. RPNRF).
3. Examine instruction label for wear or damage which may affect legibility, replace if necessary.
4. Unscrew nutring slowly, using nutring spanner (Part code:HCS), allowing any residual gas to escape through vents before complete removal. Do not use a blunt instrument to effect removal as this will damage the nutring. Disconnect both hoses from the headblock and remove headblock assembly from the extinguisher.
5. Check liquid level, examine condition of foam. If of poor quality, empty extinguisher, rinse with clean water and recharge. Check internal condition for significant corrosion or damage, if found withdraw extinguisher from service. Minor surface corrosion or staining is acceptable but should be assessed and recorded by the competent person.
6. Examine headblock, relief device, nutring and cylinder threads. Ensure vents are clear and replace 'O' ring. Examine condition and tightness of syphon and gas tubes, replace as necessary.
7. Refit headblock, tighten using nutring spanner.
8. Remove hose from CO<sub>2</sub> Cylinder and check last hydraulic test date of the cylinder, remove from service and fit replacement cylinder if test is due. Checkweigh the cylinder against the gross weight stamped on cylinder shoulder. If underweight by more than 10% of contents, remove from service and fit replacement cylinder.
9. Unroll and check condition of discharge hose, discharge lance and CO<sub>2</sub> hose for damage, wear, cuts etc. Replace if necessary. Unscrew brass swivel from discharge lance and inspect filter for blockage or damage, replace swivel if necessary.
10. Refit CO<sub>2</sub> cylinder ensuring new sealing washer is located correctly, tighten both ends with spanner. Refit discharge hose assembly and loop around hose carrier so that discharge lance fits into the nozzle holder.
11. Check wheels for free movement and ensure retaining split pins are correctly fitted, grease axles if necessary.
12. Fit seal to CO<sub>2</sub> cylinder hand wheel safety pin (in accordance with service colour code). Record service details on service label.

## **RECHARGE PROCEDURE FOR NORFOLK RANGE WHEELED AFFF FOAM MODELS**

**MODEL NO'S: NRAF45, NRAF135.**

**THESE RECHARGE PROCEDURES SHOULD BE USED IF COMPLETE OR PARTIAL USE OF THE EXTINGUISHER IS SUSPECTED**

1. Inspect the exterior of the extinguisher for damage or significant corrosion, if found, withdraw the extinguisher from service. Examine the condition of the Operating label for legibility, replace if necessary.
2. Ensure all pressure is released by fully discharging the extinguisher.
3. Unscrew nutring slowly, using nutring spanner (do not use blunt instrument), allowing any residual pressure to escape through nutring vents.
4. Disconnect and remove the CO<sub>2</sub> cylinder and withdraw for recharging. Disconnect Discharge hose assembly.
5. Invert extinguisher to remove residual liquid (rest extinguisher on handle and rock back and forth). Check internal condition for significant corrosion. Minor corrosion or staining should be assessed and recorded by the competent person.
6. Examine and blow through discharge lance and hose. Check for damage, cuts, kinks etc. Unscrew discharge gun from Brass swivel and inspect filter for damage/blockage. Replace as appropriate.
7. Refill with clean water to the correct level allowing for AFFF foam concentrate and add foam concentrate as specified for the specific model by the manufacturer.
8. Inspect nutring and headcap. Replace 'O' ring and other parts as necessary. Refit headcap using nutring spanner.
9. Fit replacement CO<sub>2</sub> cylinder, ensuring correct size and weight. Ensure a new sealing washer is located before tightening. Refit gas hose and discharge hose to headblock.
10. Clean extinguisher and record recharge details on service label.