



**Britannia Fire Ltd**

# ***NORFOLK RANGE***

## ***FIRE EXTINGUISHER SERVICING & MAINTENANCE INSTRUCTIONS***

### **Mobile Powder Models**



**NRWSPINTRO REV 3 October 2017**

## **PROCEDURES FOR SERVICING THE NORFOLK RANGE OF TRANSPORTABLE 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.

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 necessary 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 If there is significant corrosion or the markings are not legible, then the extinguisher should be withdrawn from service.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.



**SPNRP REV 4: October 2017**

## **SERVICE PROCEDURES FOR NORFOLK RANGE WHEELED DRY POWDER MODELS**

**MODEL NO'S: NRA50, NWS50, NWA50, NWM50, NWA60, NWS70, NWS100, NWA100, NWA120, NWM45, NWM63, NWM120, NWS165**

**These instructions cover current models and models no longer produced but still in service**

1. Inspect the exterior of the extinguisher for damage or 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 operating seal, discontinue servicing procedure and commence recharge procedure (ref. RPNWP).
  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)( Do not use a blunt instrument to effect removal as this will damage the nutring) allowing any residual gas to escape through vents before complete removal from the extinguisher. Disconnect both hoses from the headblock assembly and remove headblock assembly.
  5. Examine powder for caking, lumps or contamination. If of poor quality, empty extinguisher and recharge. (Do not sieve lumps from powder). Dispose of environmentally
  6. Examine headblock assembly, 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 assembly tighten using nutring spanner (HCS).
- 7. This instruction only applies to units produced prior to 2010**  
Lay extinguisher on its side and remove discharge hose assembly. Examine discharge elbow, ensure no blockages (use wire rod if necessary).
8. Remove hose from CO<sub>2</sub> Cylinder and check last hydraulic test date of the cylinder, which may be date of manufacture, remove from service and fit replacement cylinder if test is due ( 10 years). 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 for 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.



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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.



**RPNWP REV 2: MAY 2010**

## **RECHARGE PROCEDURE FOR NORFOLK RANGE WHEELED DRY POWDER MODELS**

**MODEL NO'S: NRA50, NWS50, NWA50, NWM50, NWA60, NWS70, NWS100, NWA100, NWA120, NWM45, NWM63, NWM120, NWS165**

**These instructions cover current models and models no longer produced but still in service**

### **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 or releasing by the nutring. Remove nutring slowly, using nutring spanner (HCS) (do not use a blunt instrument), allowing any residual pressure to escape through nutring vent holes.  
**This should be done in a suitable location.**
3. Disconnect and remove the CO<sub>2</sub> cylinder and withdraw for recharging. Disconnect discharge hose and lance.
4. Invert extinguisher to remove residual powder (rest extinguisher on handle and rock back and forth). Dispose of in an environmental way.
5. Check internal condition.
6. Examine and blow through discharge lance and hose with compressed air. Check for damage, cuts, kinks etc. Unscrew discharge lance from Brass swivel and inspect for damage/blockage. Replace as appropriate.
7. **This instruction only applies to units produced prior to 2010**  
Lay extinguisher on its side and remove discharge hose assembly. Examine discharge elbow, ensure no blockages (use wire rod if necessary).
8. Refill with new dry powder of the correct type and quantity. **Never mix different types of powder as pressure and moisture may develop as a result of chemical reaction.**
9. Inspect nutring and headblock assembly. Replace 'O' ring and other parts as necessary. Refit headblock assembly using nutring spanner.
10. Fit replacement CO<sub>2</sub> cylinder, ensuring correct size and weight. Ensure a new sealing washer is located before tightening.
11. Refit gas hose and discharge hose to headblock.
12. Clean extinguisher and record recharge details on service label.