

**" Save  
Your  
Breath  
With** **NST<sup>®</sup>** **MODERN SAFETY TECHNIQUES**

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11370 Breininger Rd. Phone: (800) 542-6646  
P.O. Box 87 (888) mod-safe  
Hicksville, OH 43526 (419) 542-6645  
Email: sales@modsafe.com Fax: (419) 542-6475  
www.modsafe.com

**SERVICE INSTRUCTIONS FOR  
REPLACEMENT FILTER KITS**

**BA050BMST & BA050B ( ) -S1, FILTER KIT FB050  
BA100BMST & BA100B ( ) -S1, FILTER KIT FB100  
RP050BMST & RP050B( ) -S1, FILTER KIT FX050  
RP100BA-S1 & RP100BMST-S1, FILTER KIT FX100  
RP010AMST & RP010AMST-S1, FILTER KIT RCRP010**

# SERVICE INSTRUCTIONS

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**WARNING: Always turn off air supply and bleed air pressure before disassembling unit or SERIOUS INJURY COULD RESULT.**  
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MST, Inc. recommends replacing all three (3) filter cartridges after one (1) month (FX100 after 6 months of use) of use unless conditions warrant more or less frequent replacement . To refill or replace the filter cartridges in the RESPIRATORY PROTECTOR® or the Breathing Air Panels, follow these steps:

## 1. PREFILTER FIRST/SECOND DUAL STAGE ELEMENT REPLACEMENT

- A) For the RESPIRATORY PROTECTOR®, first unlock tube locking collar and then pull Drain Tube (1) down through case. For the Breathing Air Systems, pull Drain Tube (1) up through case (Not applicable for Panel Mounted Systems). Then unscrew Prefilter Bowl Assembly (2), clean in mild soap and water and blow dry with low pressure air.
- B) Remove Dual Stage Element (3) by unscrewing End Cap Retaining Nut (4).
- C) Inspect the Prefilter Manifold (5) for dirt/contaminates and clean as required. Inspect "O"-Ring (6) for cuts, etc. and replace if required.
- D) Install new Dual Stage Element and Tighten End Cap Retaining Nut. Be sure Element is seated squarely on Manifold boss and End Cap.
- E) Apply light film of petroleum jelly on Bowl's beveled edge to provide a good seal between Bowl and "O"-Ring. HAND TIGHTEN ONLY.
- F) Guide Drain Tube back through hole in case bottom and lock into tube locking collar.
- G) Dispose of used Dual Stage Element according to local, state and federal regulations.

## 2. THIRD/FOURTH STAGE CARTRIDGE REPLACEMENT

- A) Loosen Bracket Bolt (7) from Bracket (8), (do not remove).
- B) Loosen the five Manifold Bolts (9) and remove the front two Bolts. Now slide out the Third (10) and Fourth (11) Stage Aluminum Tube Assemblies.
- C) Remove the End Cap (12) from Third Stage Aluminum Tube Assembly and slide old Third Stage Filter Cartridge (13) out of aluminum tube. Clean aluminum tube in mild soap and water, dry and install new Third Stage filter cartridge. Be sure the Flow Direction Arrow on Third Stage Filter Cartridge is pointing down. Remove End Sealing Label (14) and install new End Cap.
- D) Follow same procedure for the Fourth Stage Filter Cartridge (15) replacement as in step (C). Be sure the Flow Direction Arrow on Fourth Stage Filter Cartridge is pointing up. Also be sure to remove End Sealing Label before installing new End Cap.
- E) Now slide the Third and Fourth Stage Aluminum Tube Assemblies back in place and install the front two Manifold Bolts.
- F) Tighten Manifold Bolts in sequence from center outward to 100 inch-pounds (1.15 Kg-M). Repeat sequence and re-torque bolts to 250 inch-pounds (2.88 kg-M). (FX100 torque to 25 inch-pounds, repeat and re-torque to 30 inch-pounds.)
- G) Tighten Bracket Bolt (7) against Bracket (8).

H) Dispose of used cartridges according to local, state and federal regulations.

3. FINAL CHECK AND CALIBRATION

- A) Pressurize system and check for leaks.
- B) Flush system with compressed air for five (5) minutes.
- C) Calibrate Carbon Monoxide Monitor as outlined in Monitor Manual, if supplied.

**MST, Inc. shall not be liable for any injury, loss, or damage, direct or consequential, arising out of the use of or the inability to use this product, beyond the replacement of defective materials or workmanship. Users of supplied air respirators should evaluate their own particular application and perform their own test for air quality to determine the suitability for use of this product.**

**For further information or questions about service or maintenance care of this unit, contact your local distributor or MST, Inc. (800) 542-6646.**

