



Washing a 3M™ Scott™ Air-Pak™ Self-Contained Breathing Apparatus (SCBA) in an SCBA Washing Machine

About This Instruction

The following are supplemental instructions for washing the Self-Contained Breathing Apparatus (SCBA) systems: 3M™ Scott™ Air-Pak™ X3, 3M™ Scott™ Air-Pak™ X3 Pro, 3M™ Scott™ Air-Pak™ XD, and 3M™ Scott™ X3-21 Pro in SCBA washing machines.

IMPORTANT: Keep these *User Instructions* for reference.

Safety Information



WARNING

To reduce the risk associated with loss of air supply, reduced service life, exposure to contaminant, and/or oxygen-deficient atmosphere which, if not avoided, could result in serious injury or death:

- Do not attempt any repair or alteration of this SCBA beyond the scope of this *User Instruction* without proper training. Training is required for further service or repair of this SCBA.
- Use cleaners in a manner consistent with the manufacturer's product labeling and user instructions. Follow all applicable instructions, including, but not limited to, those found on the Safety Data Sheet (SDS) provided with any sanitizing or disinfecting cleaners.
- You must identify and properly remove the contaminant if you suspect the SCBA has been contaminated by a hazardous substance, or replace the contaminated component(s) prior to using the SCBA again. Dispose of contaminant or contaminated component(s) in accordance with applicable regulatory requirements.
- Follow all instructions, notes, warnings, and cautions found in the latest version of the 3M Scott *User Instructions* for the SCBA model you intend to wash. *User Instructions* for all SCBA systems can be obtained by contacting 3M Scott Technical Support at 1-800-247-7257 or scotttechsupport@mmm.com.
- Follow all washing and drying criteria explained in the appropriate National Fire Protection Association (NFPA) standards such as:
 - NFPA 1850, Standard on Selection, Care, and Maintenance of Protective Ensembles for Structural and Proximity Firefighting and Open-Circuit Self-Contained Breathing Apparatus (SCBA)
- DO NOT use reverse osmosis or completely softened water.
- DO NOT put SCBA components near a high heat source or in direct sunlight to dry.
- DO NOT use materials that may attack any part of the SCBA such as products that contain hydrocarbons or solvents such as acetone, paint and lacquer thinners, benzene, or dry-cleaning fluid.
- When using a drying cabinet, ensure the temperature does not exceed 110°F (43°C).
- Only use washing machines designed to wash SCBA (without mechanical agitation). Follow the manufacturer's user instructions for the washing machine, including detergents and dilution requirements.
- Water temperature must not exceed 110°F (43°C).
- An SCBA cylinder charged to at least 50% must be used during the cleaning process.
- After washing, perform a pre-use inspection according to the 3M™ Scott™ *User Instructions* for the appropriate SCBA model to detect any noticeable degradation. Make sure there is no water, moisture, or dampness on or in the facepiece and/or mask-mounted regulator (MMR) before returning the SCBA to service.
- If an SCBA washing machine is used, a 3M™ Scott™ Authorized Service Center or 3M™ Scott™ Certified Technician II should open and inspect the pressure reducer during annual flow tests. Ensure that they are aware of your SCBA washing process.

CAUTION

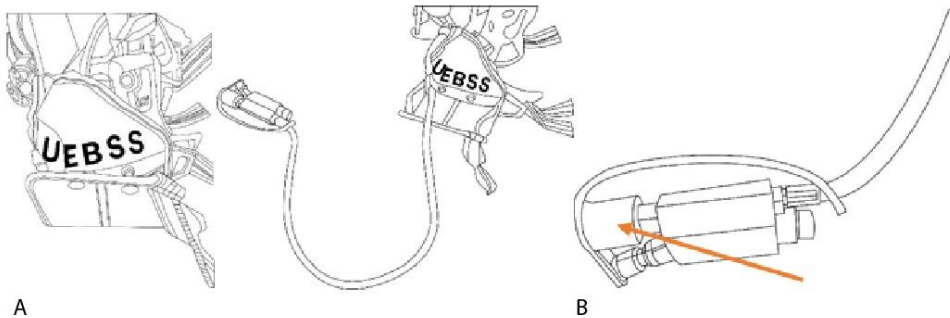
To reduce the risk associated with reduced service life, exposure to contaminants, and/or oxygen-deficient atmosphere which, if not avoided, could result in minor or moderate injury and/or property damage:

- Do not wash facepieces with electronic components in an SCBA washing machine. Electronic accessories should be removed prior to washing in an SCBA washing machine, or a facepiece with electronic accessories should be washed by hand.
 - SCBA stored or used at cold temperatures must be warmed before cleaning. SCBA being used at cold temperatures after cleaning must be completely dry because the cleaning procedures involve the use of liquids.
 - 3M Scott has evaluated three SCBA machine washing systems and found them to be acceptable for use. They are:
 - Meiko Maschinenbau GmbH & Co. KG, TopClean D™ SCBA Washer
 - Rescue Intellitech Incorporated, Solo Rescue® SCBA washer
 - Circul-Air Roto-Decon SCBA Washer
 - Follow the individual washing machine manufacturer's user instructions, recommended cleaning solutions, dilution criteria and washing times.
 - 3M™ Scott™ makes no claims as to the efficacy of the washing machines or their ability to remove contaminants from the SCBA.
 - When an SCBA washing machine is used according to the manufacturer's user instructions and this Technical Bulletin, 3M™ Scott™ does not anticipate any harm to the SCBA system.
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Washing Machine Instructions

1. Remove the batteries and reinstall the battery cover following the appropriate *User Instructions* for your specific 3M Scott SCBA model.
2. Attach an appropriate breathing air cylinder that is at least 50% full to the SCBA that is going to be washed.
3. Ensure that the red MMR purge knob is closed (fully clockwise), and the air saver switch has been fully depressed/activated.
4. Fully extend all straps and hoses, including the Universal Emergency Breathing Support System (UEBSS) or Emergency Breathing Support System (EBSS) assembly (if equipped). (Fig. 1a).
5. If your SCBA is equipped with a Universal Emergency Breathing Support System (UEBSS) or Emergency Breathing Support System (EBSS), ensure the dust cap is in place and free from damage (Fig. 1b).

Figure 1: a) UEBSS or EBSS with fully extended straps and hoses, b) UEBSS dust cap.



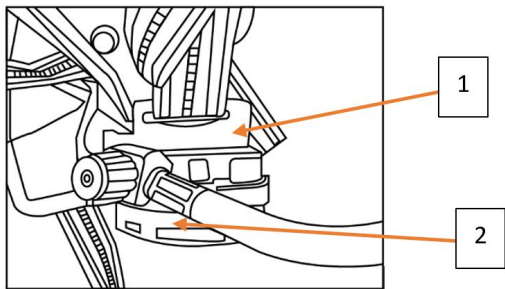
6. Ensure the Rapid Intervention Crew/Universal Air Connection (RIC/UAC) dust cap is in place and free from damage (Fig. 2).

Figure 2: RIC/UAC dust cap



7. Ensure that the MMR is installed in the regulator holder (Fig. 3).

Figure 3: MMR installed in regulator holder

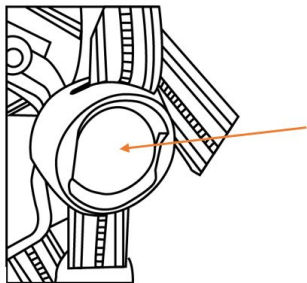


Item	Item Description
1	MMR holder
2	MMR

i IMPORTANT

If there is not a regulator holder installed on the SCBA, acquire a spare holder (P/N 201649-01) and install it onto the MMR (Fig. 4).

Figure 4: MMR regulator holder on SCBA



8. Open the cylinder valve to charge the SCBA system.

i IMPORTANT

Pressurization will activate the electronics and may cause the PASS alarm to sound continuously during washing. To prevent the PASS alarm from sounding, follow the *User Instructions* for battery removal and then replace the battery compartment cover before washing.

9. Place the SCBA and/or facepiece in the washing machine according to the washing machine user instructions. Position everything so that it will be exposed to the water and/or detergent used by the washing machine.
10. Wash the SCBA and/or facepiece as described in the SCBA washing machine manufacturer's user instructions and within the parameters provided in the SCBA *User Instructions*. Use an appropriate detergent and/or rinse agent (recommended by the washing machine manufacturer) that will not attack any part of the SCBA.

i IMPORTANT

Repeat washing if additional cleaning is necessary.

11. After removing the SCBA from the washer, remove the MMR from the holder and slowly, fully open the purge knob until no water is observed exiting the spray bar.
12. Close the cylinder valve and allow the remaining residual pressure to bleed from the SCBA via the open MMR purge valve.
13. After all residual pressure has been bled from the SCBA and the end-of-service time indicator (EOSTI) Vibralert has stopped its alarm, close the MMR purge valve by turning it fully clockwise and remove the cylinder from the SCBA.
14. Follow the drying instructions outlined in the appropriate *User Instruction* for your specific 3M Scott SCBA model. *User Instructions* can be obtained at 3M Scott Technical Support at 1-800-247-7257 or scotttechsupport@mmm.com.

i IMPORTANT

The 3M™ Scott™ Air-Pak™ X3, Air-Pak™ X3 Pro, Air-Pak™ XD and X3-21 Pro SCBA are available with a spare harness. The SCBA were designed to simplify the removal of all soft goods, without the use of any tools. Replacing the wet soft goods with a dry set allows the SCBA to be returned to service more quickly. When the wet set has dried, it can be used for the next time an SCBA is cleaned and requires a dry set.

i IMPORTANT

Ensure that appropriate batteries are installed before the SCBA is returned to service by following the appropriate *User Instructions* for battery installation.

15. Conduct a pre-use inspection of the SCBA as detailed in the latest revision of the 3M Scott *User Instruction* specific to the SCBA model being washed.
16. If this SCBA is to be used at temperatures at or below freezing (32°F/0°C), see the Low Temperature Operation section of the appropriate 3M Scott SCBA *User Instructions*.

For more information, contact 3M Scott Technical Support at 1-800-247-7257 or scotttechsupport@mmm.com.



Personal Safety Division
3M Scott Fire & Safety
4320 Goldmine Road
Monroe, NC 28110
3M PSD products are occupational use only.

Phone: 1-800-247-7257
E-mail: US-3M-ScottMonroeCSR@mmm.com
Web (US): 3M.com/ScottFire
Web (Canada): 3M.ca/ScottFire

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