

Product Information News

MMR XTREME® CBRN COMPLIANT AIR MASK

MSA has found that MMR Xtreme CBRN Air Masks shipped from September 2003 to February 2004 may have an incorrect NIOSH/CBRN Approval Supplement (P/N 10044165) that identifies the optional 10031798 ExtendAire™ Emergency Breathing System (EBS) Kit as NIOSH/CBRN Compliant.

The ExtendAire Kit (P/N 10031798) is **NOT** approved on CBRN SCBA because it contains a silicone hose. CBRN approval requires the use of a neoprene hose. CBRN approved kits are located on the attached NIOSH Approval Matrix (P/N 10058245).

Note: This PIN Article only applies to ExtendAire Upgrade Kits installed in the field. All CBRN SCBA shipped from MSA with ExtendAire used the correct neoprene hose.



For More Information: Call (1-800-MSA-2222) or Visit Our Website at (www.MSAnet.com)

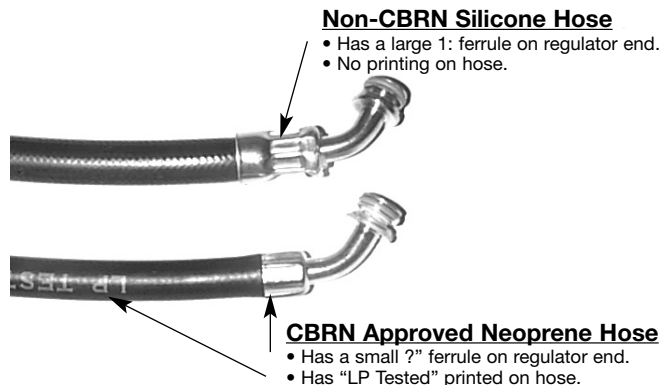


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MINE SAFETY APPLIANCES COMPANY
PITTSBURGH, PENNSYLVANIA, U.S.A. 15230

DISSASSEMBLY AND REASSEMBLY

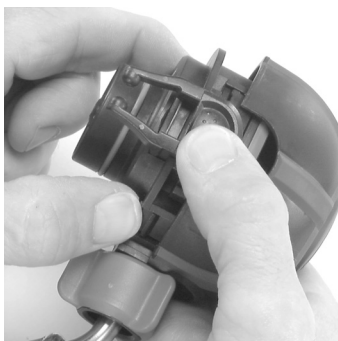
Check the hose closest to the mask-mounted regulator as indicated in the illustration. If the hose is a Non-CBRN silicone hose, replace with the approved neoprene hose (P/N 10046484).



Note: Air Masks with a factory installed ExtendAire EBS have the CBRN approved hose.

Disassembly - Removing Regulator Cover, Spring and Spring Retainer

1. Press in housing buttons, holding the buttons in, also press in on the retaining latches of the regulator housing.



2. Pull firmly on the regulator cover, removing the cover, spring and spring retainer from the regulator housing.



Note: Do not stretch the spring.

⚠ CAUTION

Care should be taken when handling the CBRN Shield. Handle the Shield by the plastic ring when removing or installing.

Disassembly - Bypass and Hose w/Swivel

1. Remove regulator cover, spring and spring retainer assembly.



2. Use a small flat bladed screwdriver to remove the U-clip from the regulator housing.

3. Remove the bypass and hose assembly from regulator housing.



4. Remove red bypass hand-wheel, slide hand-wheel back off the bypass body to reveal the U-clip in the bypass body.

5. Remove U-clip with screwdriver, remove U-clip from bypass body.



6. Remove hose assembly by pulling hose out of the bypass body.



DISSASSEMBLY AND REASSEMBLY

7. Discard the Non-CBRN compliant silicone hose.

8. Inspect the screen inside bypass body. If dirty, all dirt and any foreign matter must be removed before reusing screen. However, if screen is damaged, replace screen as follows:



- a. Using a small screwdriver, insert the screwdriver from the small hole side of bypass body and push the screen out the large hole side of bypass body.

Reassembly - Bypass and Hose Assembly

1. Apply a light film of Christo-Lube lubricant to all O-rings.
2. Roll the new O-ring provided with the CBRN compliant hose into the first groove of the bypass body.
3. (If removed) Insert the new screen. Insert screen into the large hole (hose swivel) side of bypass body. Be careful not to damage the screen and make sure the screen is flat inside the body.

4. Insert swivel into the bypass body.



5. Slide U-clip through the bypass body, the U-clip should slide through the bypass body freely.



6. Slide red bypass hand-wheel over the bypass body, the hex of hand-wheel will align with the handwheel.



7. Ensure the hose with swivel moves freely.



8. Insert bypass body and hose assembly into the regulator housing, with bypass body tabs aligned with slots in bypass insert.

9. Slide the U-clip through the regulator housing, the U-clip should slide through the regulator housing freely.



10. Push regulator cover, spring, and spring retainer onto regulator housing.

⚠ WARNING

Double check proper engagement by pulling on regulator cover to ensure that the regulator cover is securely attached to the regulator housing. Failure to follow this warning can result in serious personal injury or death.



For More Information: Call (1-800-MSA-2222) or Visit Our Website at (www.MSAnet.com)



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DESCRIPTION / IDENTIFICATION

⚠ WARNING

Do Not use the Quick-Fill® System, URC Assembly, or ExtendAire™ System accessories if there is any possibility that the environment contains a CBRN warfare agent. These Air Mask accessories are not approved for use in atmospheres containing CBRN warfare agents. Failure to follow this warning can result in serious personal injury or death.

DESCRIPTION

This Air Mask from MSA is a pressure-demand, self-contained breathing apparatus (SCBA) certified by the National Institute for Occupational Safety and Health (NIOSH) for use in atmospheres immediately dangerous to life or health; "Immediately dangerous to life or health" means conditions that pose an immediate threat to life or health or conditions that pose an immediate threat of severe exposure to contaminants, such as radioactive materials, which are likely to have adverse cumulative or delayed effects on health" [Title 42 CFR, Part 84.2 (Q)].

This Air Mask complies with the National Fire Protection Association (NFPA) Standard 1981 for Open-Circuit Self-Contained Breathing Apparatus for Fire Fighters

This Air Mask has been designated by NIOSH as being CBRN (chemical, biological, radiological, and nuclear) Agent Approved. It complies with the special tests under NIOSH 42 CFR 84.63(c); Chemical Agent Permeation and Penetration Resistance Against Distilled Sulfur Mustard (HD) and Sarin (GB) and the Laboratory Respirator Protection Level (LRPL) tests.

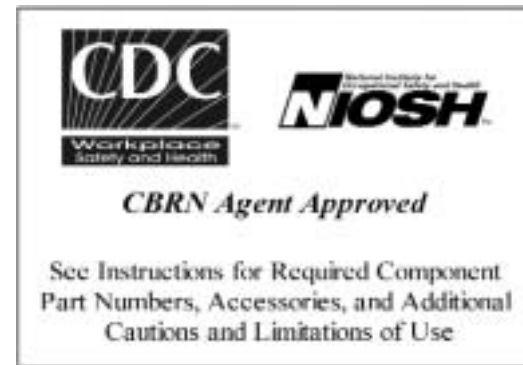
IDENTIFICATION

The MSA CBRN approved Air Mask with Firehawk Regulator differs from the Non-CBRN approved Air Mask in the following ways:

- The CBRN approved Air Mask can only be used in NIOSH approved configurations shown in the assembly matrix on the inside page.
- The CBRN approved Air Mask can be used only with a hycar facepiece model numbers 7-935-7, 7-935-8, and 7-935-9. Silicone facepieces are not CBRN approved.
- Only Firehawk 2nd stage regulator assemblies 10043892, 10043893, 10043894, and 10043895 are CBRN approved.

CBRN AGENT APPROVAL LABEL

The MSA CBRN Agent approved Air Mask has this approval label attached to the carrier and harness.



IMPORTANT NOTICE FOR RESPIRATOR USERS AND RESPIRATORY PROTECTION PROGRAM ADMINISTRATORS

1. An adequate respiratory protection program must include knowledge of hazards, hazard assessment, selection of proper respiratory protective equipment, instruction and training in the use of equipment, inspection and maintenance of equipment, and medical surveillance. [See OSHA regulations, Title 29 CFR, Part 1910.134 (c).]
2. This SCBA may be used only after proper instruction and training in its use as specified in NFPA-1500 and OSHA regulations Title 29 CFR, Part 1910.134.
3. Quantitative fit testing should be conducted to determine proper facepiece size prior to using the respirator. A Fit Test Kit (MSA P/N 10044576) is available for conducting quantitative fit tests with the Ultra Elite Firehawk facepieces.
4. The facepiece donning instructions (see Operation and Instruction Manual MSA P/N 10023638) must be carefully followed when using the respirator and when conducting fit tests.
5. The CBRN Firehawk 2nd stage regulator must be flow tested every year and overhauled on a periodic basis. An overhaul kit (MSA P/N 10048942) is available. Refer to the Operation and Instructions manual (MSA P/N 10023638) and the Maintenance manual (MSA P/N 10024089) for additional information and maintenance procedures.

MMR Air Mask with *Firehawk*™ Regulator

NIOSH/CBRN APPROVAL SUPPLEMENT

⚠ WARNING

THIS SUPPLEMENT AS WELL AS THE OPERATION AND INSTRUCTION MANUAL MSA P/N 10023638 MUST BE CAREFULLY READ AND FOLLOWED BY ALL PERSONS WHO HAVE OR WILL HAVE THE RESPONSIBILITY FOR USING OR SERVICING THIS AIR MASK. THIS AIR MASK WILL PERFORM AS DESIGNED ONLY IF USED AND SERVICED ACCORDING TO THE INSTRUCTIONS; OTHERWISE IT COULD FAIL TO PERFORM AS DESIGNED, AND PERSONS WHO RELY ON THE AIR MASK COULD SUSTAIN SERIOUS PERSONAL INJURY OR DEATH.

⚠ DANGER

Use in conjunction with personal protective ensembles that provide appropriate levels of protection against dermal hazards.

Some CBRN agents may not present immediate effects from exposure, but can result in delayed impairment, illness, or death.

Direct contact with CBRN agents requires proper handling of the SCBA after each use and between multiple entries during the same use. Decontamination and disposal procedures must be followed. If contaminated with liquid chemical warfare agents, dispose of the SCBA after decontamination.

The respirator should not be used beyond 6 hours after initial exposure to chemical warfare agents to avoid possibility of agent permeation.

FAILURE TO FOLLOW THE ABOVE ITEMS IN ADDITION TO ALL ESTABLISHED CBRN PROTECTIVE MEASURES CAN RESULT IN SERIOUS PERSONAL INJURY OR DEATH.



For More Information: Call (1-800-MSA-2222) or Visit Our Website at (www.MSAnet.com)



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Mine Safety Appliances Company
Pittsburgh, Pennsylvania, USA
1-800-672-2222

CBRN SCBA
MMR AIRMASK WITH FIREHAWK REGULATOR
OPEN-CIRCUIT, PRESSURE-DEMAND, ENTRY AND ESCAPE
SELF-CONTAINED BREATHING APPARATUS

| TC- | PROTECTION 1 | ALTERNATE FACEPIECE | ALTERNATE CARRIER AND HARNESS ASSEMBLY | ALTERNATE 1ST STAGE REGULATOR AND AUDILARM ASSY. | ALTERNATE CYLINDER & VALVE ASSEMBLY | ALT. GAUGE HOSE ASSY. | ADAPTER SLIDE | ADAPTER PUSH-TO-CONNECT | ALTERNATE RESCUE BELT W/ LUMBAR SUPPORT | HOSE POUCH | ALT. SPECT. KIT | ALT. PASS | ALT. WAIST BELT EXT. | ALT. LUMBAR SUPPORT | CHEST STRAP KIT | VULCAN SLIDING REGULATOR KIT | MANFOLD ASSY. DUAL OC | KIT, SPLIT GAGE HOSE, NIGHTFIGHTER | CAUTIONS AND LIMITATIONS 2A |
|-----|--------------|-------------------------|--|---|--|-----------------------|---------------|-------------------------|---|------------|-----------------|-----------|----------------------|---------------------|-----------------|------------------------------|-----------------------|------------------------------------|-----------------------------|
| | | Ultra Elite, med. NFPA | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, LP | 1st Stage Regulator & Audi 2216/3000 Threaded | Cylinder & Valve Assy. 45 sct 2216 glass / or carbon | | | | | | | | | | | | | | |
| | | Ultra Elite, small NFPA | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Threaded | Cylinder & Valve Assy. 45 sct 2216 hoop | | | | | | | | | | | | | | |
| | | Ultra Elite, large NFPA | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, LP | 1st Stage Regulator & Audi 2216 Threaded w/ Quickfill URC | Cylinder & Valve Assy. 45 sct 2216 3AL | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Threaded w/ Quickfill URC | Cylinder & Valve Assy. 45 sct 2216 steel | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 2216 Threaded w/ Quickfill URC | Cylinder & Valve Assy. 60 sct 3000 Kevlar / or carbon | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Cylinder & Valve Assy. 45 sct 4500 glass / or carbon | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Cylinder & Valve Assy. 66 sct 4500 kevlar / carbon / or fiberglass | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect w/ Quickfill URC | Cylinder & Valve Assy. 88 sct 4500 kevlar | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 2216/3000 Quick Connect w/ Quickfill URC | Cylinder & Valve Assy. 45 sct 4500 glass / or carbon | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, LP | 1st Stage Regulator & Audi 2216 Threaded w/ Quickfill URC | Cylinder & Valve Assy. 88 sct 4500 carbon | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Threaded | Gauge & Hose Assy., Ultralite | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Threaded | Gauge & Hose Assy., Custom 4500 | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Threaded w/ Quickfill URC | 2nd Stage Regulator Firehawk - Slide, Threaded | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 2216 Threaded w/ Quickfill URC | 2nd Stage Regulator Firehawk - Quick Connect, Slide | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, LP | 1st Stage Regulator & Audi 4500 Threaded w/ Quickfill URC | 2nd Stage Regulator Firehawk - Threaded (PTC) | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 2216 Threaded w/ Quickfill URC | 2nd Stage Regulator Firehawk - Quick Connect (PTC) | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | 2nd Stage Regulator Firehawk - Quick Connect Slide, w/o purge button | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | 2nd Stage Regulator Firehawk - Threaded Slide, w/o purge button | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 2216/3000 Quick Connect w/ Quickfill URC | 2nd Stage Regulator Firehawk - Quick Connect (PTC), w/o purge button | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 2216 Threaded w/ Quickfill URC | Adapter, slide Firehawk | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Adapter, push to connect, Firehawk | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Rescue Belt, 50ft Rope | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Rescue Belt, Extended, 50ft Rope | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Rescue Belt, 75ft Rope | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Rescue Belt, Extended, 75ft Rope | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Rescue Belt, Swiveling, 50ft Rope | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Rescue Belt, Swiveling, Extended, 50ft Rope | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Rescue Belt, Swiveling, 75ft Rope | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Rescue Belt, Swiveling, Extended, 75ft Rope | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Kit Quick Fill, Shoulder, Ultralite | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Kit Quick Fill, Shoulder, Custom 4500 | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Kit Quick Fill, Custom 4500 | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Kit Quick Fill, Integrated PASS adapter, Custom 4500 | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Hose Pouch | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Spectacle Kit, Ultra Elite | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Spectacle Kit, Ultra Elite | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Kit, Amplifier - ClearCommand | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Kit, Amplifier, RI - ClearCommand | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Kit, Bracket & VoiceMitter - ClearCommand | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Integrated PASS w/ thermal sensor, Diagonally | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Integrated PASS w/ thermal sensor, Dragonfly | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Waist Belt Extender, NFPA | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Waist Belt Extender, NFPA | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Lumbar Support Assembly | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Lumbar Support Assembly non-swiveling | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Lumbar Support Assembly, swiveling | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Chest Strap kit | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Vulcan sliding regulator kit | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Manifold assy, dual OC, Extend-Aire Firehawk | | | | | | | | | | | | | | |
| | | | Carrier and Ham. Assy. NFPA, MMR, w/ Side Belt mount, HP | 1st Stage Regulator & Audi 4500 Quick Connect | Kit, Split Gage Hose, MMR NightFighter, Black Rhino | | | | | | | | | | | | | | |

1. PROTECTIONS

SC = SELF-CONTAINED
 PD = PRESSURE - DEMAND
 CBRN = CHEMICAL, BIOLOGICAL, RADIOLOGICAL & NUCLEAR

2. CAUTIONS AND LIMITATIONS

- I- Contains electrical parts which have not been evaluated as an ignition source in flammable or explosive atmospheres by MSHA/NIOSH.
- J- Failure to properly use and maintain this product could result in injury or death.
- M- All approved respirators shall be selected, fitted, used and maintained in accordance with MSHA, OSHA and other applicable regulations.
- N- Never substitute, modify, add or omit parts. Use only exact replacement parts in the configuration as specified by the manufacturer.
- O- Refer to User's Instructions, and/or maintenance manuals for information on use and maintenance of these respirators.
- S- Special or critical User's Instructions and/or specific use limitations apply. Refer to User's Instructions before donning.

3. CAUTIONS AND LIMITATIONS OF USE FOR CBRN SCBA

- Q- Use in conjunction with personal protective ensembles that provide appropriate levels of protection against dermal hazards.
- R- Some CBRN agents may not present immediate effects from exposure, but can result in delayed impairment, illness, or death.
- T- Direct contact with CBRN agents requires proper handling of the SCBA after each use and between multiple entries during the same use. Decontamination and disposal procedures must be followed. If contaminated with liquid chemical warfare agents, dispose of the SCBA after decontamination.
- U- The respirator should not be used beyond 6 hours after initial exposure to chemical warfare agents to avoid possibility of agent permeation.



CONTROL BOX
 Material # 10058245
 Doc# 1000020437
 REV 7 6/17/04
 SCBA / CBRN
 TAL 7-15-04