

# MMR Air Mask with *Firehawk*<sup>TM</sup> Regulator Quick-Connect Hose

## WASHER INSTALLATION INSTRUCTIONS

### WARNING

THIS MANUAL MUST BE CAREFULLY READ AND FOLLOWED BY ALL PERSONS WHO HAVE OR WILL HAVE THE RESPONSIBILITY FOR UPGRADING THE AIR MASK. THIS AIR MASK WILL PERFORM AS DESIGNED ONLY IF UPGRADING 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.

We encourage our customers to call or write for a demonstration of this equipment prior to use, or for any additional information relative to this upgrade or the SCBA use or repairs. During regular working hours, call 1-800-MSA-2222.



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



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

# INSTALLATION INSTRUCTIONS

## KIT P/N 10047743 CONTENTS

P/N 10047742 Washer.

### IMPORTANT NOTICE

A thorough understanding of the Air Mask is essential before attempting to service or maintain this Air Mask. A user's instruction manual is supplied with each new Air Mask. Refer to the user's instructions for specific user information, such as NIOSH Approval Information, donning and doffing, or cleaning and disinfecting.

### ⚠ WARNING

Do not attempt repairs beyond those specified in this manual. Only trained or certified personnel, authorized by MSA, are permitted to maintain and repair this apparatus. Breathing apparatus must not be repaired beyond the manufacturer's recommendations. 29 CFR Part 1910.134, Par. (f) (4) makes these requirements clear.

Replacement or repairs shall be done only by experienced persons with parts designed for the respirator. No attempt shall be made to replace components or to make adjustment or repairs beyond the manufacturer's recommendations. Regulators shall be returned to the manufacturer or to a trained technician for adjustment or repair. Failure to follow this warning may result in serious personal injury or death.

Leak Testing should be performed when the SCBA fails any of the inspection steps; following disassembly; or, as part of a regularly-scheduled maintenance procedure. The SCBA must hold system pressure without leaks to provide adequate protection. The component leak test procedure is the first step in trouble-shooting. These tests ensure that you do not have a leak. Leak testing quickly identifies components which need repair or replacement. Use P/N 600920 leak test solution, or prepare a soapy water solution. Be sure to use enough soap to produce bubbles.

### ⚠ WARNING

Do not tighten fittings or connectors when the system is pressurized. Close the cylinder valve. Be sure nothing blocks the regulator outlet. Relieve pressure from the system by slowly opening the bypass valve. Failure to follow this precaution may cause fittings or connectors to rupture, resulting in serious personal injury or death.

### ⚠ CAUTION

Wear eye protection throughout maintenance procedures to avoid eye injury.

### DISCONNECT ALARM FROM THE APPARATUS CYLINDER

1. Be sure the cylinder valve is completely closed.
2. Be sure that nothing blocks the regulator outlet. Open the bypass valve to relieve pressure in the system.
3. Close the bypass valve fully.

### ⚠ CAUTION

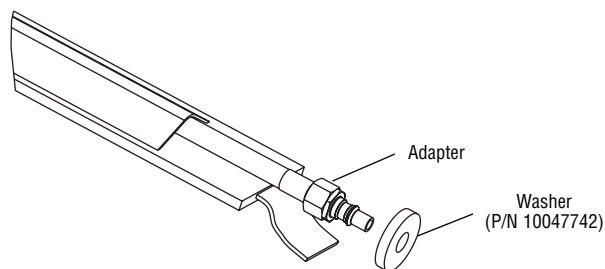
Do not disconnect the Alarm coupling nut when pressure is shown on the harness gauge. Always be sure that you have released all pressure from the regulator. Removing the coupling nut with the regulator pressurized may result in serious personal injury or death.

4. Unscrew the Alarm coupling nut from the cylinder valve.
5. Leak-test must be performed after each repair.

### INSTALLATIONS OF NEW RUBBER WASHER ON MALE QUICK CONNECT OF FIRST STAGE INTERMEDIATE HOSE.

**Note:** All procedures require that the Second Stage Regulator Intermediate hose is disconnected from First Stage Intermediate Hose.

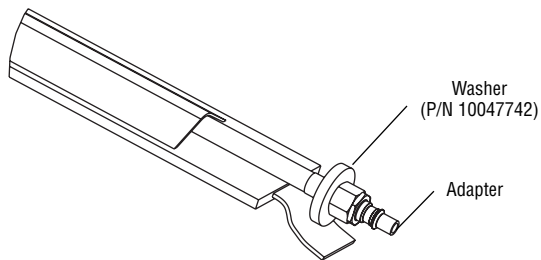
1. Disconnect Second Stage intermediate hose from the First Stage regulator intermediate hose.
2. Using leak test solution (P/N 600920), or prepare a soapy water solution as a lubricant.
3. Apply solution to lubricate the inside diameter of new rubber washer (P/N 10047742).
4. Stretch new washer over the male quick connect fitting end of First Stage intermediate hose.
5. Slide washer over the adapter end of intermediate hose.



**Note:** The washer may need to be forced over the male quick connect fitting.

# INSTALLATION INSTRUCTIONS

- Slide new rubber washer over male quick connect adapter end until washer is behind the hex nut of the male quick connect fitting.



- Use a clean, lint-free cloth to wipe dry the male quick connect fitting.

## INSTALL THE SECOND STAGE QUICK-CONNECT HOSE REGULATOR.

- Quick Connect Hose.
    - Insert Intermediate Hose from First Stage Regulator into Intermediate Hose from Second Stage Regulator.
    - Ensure the Connection is tight.
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## REINSTALLING THE AUDI-LARM

- Thread the Audi-Larm coupling nut on the cylinder valve. Hand tighten the nut. Do not use tools to tighten the coupling nut.
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## SYSTEM CHECK

- Perform the Leak-Test procedures
- Perform the Donning procedure for SCBA Operation and Instructions Manual supplied with the apparatus.
- Ensure there are no leaks and the apparatus performs properly. If the unit fails to meet any of the tests, the condition(s) must be corrected before using the apparatus.



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