

**SCOTT<sup>®</sup>**

*USE INSTRUCTIONS*

**SCOTT HEALTH AND SAFETY  
M95/M110 FULL FACEPIECE  
RESPIRATOR**



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# SCOTT HEALTH AND SAFETY M95/M110 FULL FACEPIECE RESPIRATOR USE INSTRUCTIONS

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### **WARNING**

**IMPROPER USE OF THIS RESPIRATOR MAY RESULT IN SERIOUS INJURY OR DEATH.** IMPROPER USE INCLUDES, BUT IS NOT LIMITED TO, USE WITHOUT ADEQUATE TRAINING, DISREGARD OF THE WARNINGS AND INSTRUCTIONS CONTAINED HEREIN AND FAILURE TO INSPECT AND MAINTAIN THIS RESPIRATOR.

THIS RESPIRATOR IS INTENDED TO BE USED ONLY IN CONJUNCTION WITH AN ORGANIZED RESPIRATORY PROTECTION PROGRAM WHICH COMPLIES WITH THE REQUIREMENTS OF "PRACTICES FOR RESPIRATORY PROTECTION", Z88.2-1992 AVAILABLE FROM AMERICAN NATIONAL STANDARDS INSTITUTE, 11 WEST 42ND STREET, NEW YORK, N.Y. 10036 OR THE REQUIREMENTS OF OSHA SAFETY AND HEALTH STANDARD 29 CFR 1910 PARAGRAPH 134, AVAILABLE FROM THE U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, OR OTHER PERTINENT NATIONALLY RECOGNIZED STANDARDS, SUCH AS THOSE PROMULGATED BY THE U.S. COAST GUARD OR THE DEPARTMENT OF DEFENSE.

**THIS RESPIRATOR IS NOT INTENDED FOR USE IN ATMOSPHERES WHICH ARE, OR MAY BECOME, IMMEDIATELY DANGEROUS TO LIFE OR HEALTH (IDLH) OR IN ATMOSPHERES WHERE THE IDENTITY AND/OR CONCENTRATION OF THE CONTAMINANT IS UNKNOWN.**

## DESCRIPTION

The SCOTT HEALTH AND SAFETY M95/M110 Full Facepiece Respirator consists of a full facepiece used in conjunction with a filtration element for protection against airborne gases, vapors, or particulates. The facepiece is available in two sizes, Regular and Small. Proper fitting is required prior to use of the respirator. Fit testing per OSHA Standard 29 CFR Part 1910 or ANSI Standard Z88.2 requires testing in the negative pressure mode using equipment such as a Portacount® Plus<sup>1</sup> Respirator Fit Tester. For this, SCOTT facepieces require use of SCOTT Fit Test Adapter P/N 805628-01 and appropriate negative pressure testing equipment. This respirator, when properly used, seals against the skin of the user's face and removes harmful contaminants from the inhaled air by chemical reaction or mechanical filtration. The Inhalation Valve acts as a check valve to prevent the flow of exhaled air through the filtration element. Exhaled air leaves the facepiece through the exhalation valve. The facepiece alone does not provide any protection against a hazardous atmosphere without the use of the 40mm connector with the proper filtration element attached.

The filter element contains sorbents for the removal of gases or vapors and a built-in P100 particulate filter for the removal of solid and liquid aerosols at a minimum efficiency of 99.97%. The purchaser of this respirator is responsible for determining the atmospheric contaminant present and verifying that the filter element is appropriate.

### **WARNING**

**THE FAILURE TO CHOOSE A RESPIRATOR EQUIPPED WITH A FILTRATION ELEMENT SUITABLE FOR THE CONTAMINANT(S) IN THE ATMOSPHERE OR LIKELY TO BE RELEASED IN THE ATMOSPHERE MAY RESULT IN THE RESPIRATOR PROVIDING LITTLE OR NO PROTECTION AGAINST THE CONTAMINATED ATMOSPHERE LEADING TO SERIOUS INJURY OR DEATH.**

The M95/M110 facepiece respirator uses a single canister which may be mounted on either the right or left side of the facepiece. The unused facepiece connector must be sealed with the supplied Connector Plug. An optional Speech Diaphragm may be substituted for the Connector Plug.

The facepiece may be fitted with an optional factory installed drinking device that permits connection of an optional drinking bottle. Follow the guidelines of your respiratory protection program for use of this feature.

The facepiece alone does not provide any protection against a hazardous atmosphere without the use of the proper filtration element attached.

This respirator is intended for entry into and work in atmospheres containing contaminants with adequate warning properties in concentrations less than those immediately dangerous to life or health (IDLH) and which are not oxygen deficient. It may be used for ESCAPE ONLY from atmospheres which contain concentrations of contaminants which exceed the immediately dangerous to life and health concentration provided the correct filtration element is used and the atmosphere is not oxygen deficient.

<sup>1</sup>Portacount® Plus is a registered trademark of TSI Incorporated, St. Paul, MN

The NIOSH Approval Label included with this instruction lists the components required to assemble an approved respirator and a list of cautions and limitations that the user must observe when using the respirator. The attachment of components, filtration element, accessories, or devices not listed on the NIOSH Approval Label, will void the approval and may degrade respirator performance.

The M110 facepiece assembly, when fitted with a CBRN approved filtration element, constitutes a respirator that qualifies for Chemical, Biological, Radiological, and Nuclear (CBRN) Approval Status under the NIOSH standard. A complete list of the approved components is provided on the separate NIOSH CBRN Approval Label, SCOTT document P/N 595051-01 which accompanies this instruction. Before using a respirator for a CBRN application, the user must verify that the respirator is comprised of only CBRN approved components. It is the responsibility of the respirator user's respiratory protection program to properly identify and maintain respiratory equipment for CBRN applications. See the NIOSH CBRN CAUTIONS AND LIMITATIONS section of this instruction. The attachment of components, filtration element, accessories, or devices not listed on the NIOSH CBRN Approval Label, will void the CBRN approval and may degrade respirator performance. A CBRN approved filtration element for is for single use only. **The M95 facepiece assembly is not approved for CBRN applications.**

Additional copies of the NIOSH Approval Label and the NIOSH CBRN Approval Label are available from your SCOTT distributor or by calling SCOTT Health and Safety at 1-800-247-7257.

An INSTRUCTIONAL VIDEO is available to aid in the training of users of this respirator.

This facepiece may be used in conjunction with a SCOTT Powered Air Purifying Respirator (PAPR) only in accordance with the user instructions and approvals for that respirator. See Item 18 of SPECIFIC USE LIMITATIONS in this instruction and also the CLEANING, INSPECTION, AND STORAGE section of this instruction.

### **WARNING**

**DO NOT USE THIS EQUIPMENT WHILE UNDER THE INFLUENCE OF DRUGS, ALCOHOL, OR ANY MEDICATIONS OR SUBSTANCES WHICH MAY AFFECT VISION, DEXTERITY, OR JUDGMENT. USERS OF THIS EQUIPMENT MUST BE IN GOOD PHYSICAL AND MENTAL HEALTH IN ORDER TO OPERATE SAFELY. DO NOT USE THIS EQUIPMENT WHEN FATIGUE PREVENTS SAFE OPERATION. STAY ALERT WHEN OPERATING THIS EQUIPMENT. INATTENTION OR CARELESSNESS WHILE OPERATING THIS EQUIPMENT MAY RESULT IN SERIOUS INJURY OR DEATH.**

### **QUESTIONS OR CONCERNS**

If you have any questions or concerns regarding use of this equipment, contact your authorized SCOTT distributor, or contact SCOTT at 1-800-247-7257 (or 704-291-8300 outside the continental United States).

## **NIOSH AIR PURIFYING RESPIRATOR CAUTIONS AND LIMITATIONS FOR USE (INDUSTRIAL)**

- A - Not for use in atmospheres containing less than 19.5 percent oxygen.
- B - Not for use in atmospheres immediately dangerous to life or health.
- C - Do not exceed maximum use concentrations established by regulatory standards.
- H - Follow established cartridge and canister change schedules or observe ESLI to ensure that cartridges and canisters are replaced before breakthrough occurs.
- J - Failure to properly use and maintain this product could result in injury or death.
- L - Follow the manufacturer's User's Instructions for changing cartridges, canister and/or filters.
- 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.
- P - NIOSH does not evaluate respirators for use as surgical masks.

# **NIOSH CBRN AIR PURIFYING RESPIRATOR CAUTIONS AND LIMITATIONS FOR USE**

- A - Not for use in atmospheres containing less than 19.5% oxygen.
- J - Failure to properly use and maintain this product could result in injury or death.
- L - Follow the manufacturer's User Instructions for changing canisters.
- M - All approved respirators shall be selected, fitted, used, and maintained in accordance with MSHA, OSHA, and other applicable regulations.
- O - Refer to User Instructions and/or maintenance manuals for information on use and maintenance of these respirators.
- S - Special or critical User Instructions and /or specific use limitations apply. Refer to User Instructions before donning.
- 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 respirator 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 respirator after decontamination.
- V - Not for use in atmospheres immediately dangerous to life and health or where hazards have not been fully characterized.
- W - Use replacement parts in the configuration as specified by the applicable regulations and guidance.
- X - Consult manufacturer's User Instructions for information on the use, storage, and maintenance of these respirators at various temperatures.
- Y - The respirator provides respiratory protection against inhalation of radiological and nuclear dust particles. Procedures for monitoring radiation exposure and full radiation protection must be followed.
- Z - If during use an unexpected hazard is encountered such as a secondary CBRN device, pockets of entrapped hazard or any unforeseen hazard, immediately leave the area for clean air.
- CC - For entry, do not exceed maximum use concentrations established by regulatory standards.
- HH - When used at defined occupational exposure limits, the rated service time cannot be exceeded. Follow established canister change schedules or observe End of Service Life Indicators to ensure that canisters are replaced before breakthrough occurs.
- QQ - Use in conjunction with personal protective ensembles that provide appropriate levels of protection against dermal hazard. Failure to do so may result in personal injury even when the respirator is properly fitted, used, and maintained.
- UU- The respirator should not be used beyond eight (8) hours after initial exposure to chemical warfare agents to avoid possibility of agent permeation. If liquid exposure is encountered, the respirator should not be used for more than two (2) hours.

These limitations are not all inclusive. The respirator manufacturer may also identify further cautions and Limitations for their respirators, US regulatory agencies may also place a limit on the use of respirators in their standards.

## S – SPECIFIC USE LIMITATIONS

The following general limitations are **IN ADDITION TO AND DO NOT REPLACE THE SPECIFIC LIMITATIONS ON EACH RESPIRATOR.**

1. User **MUST** be instructed and trained in the proper use of this respirator and recognize its limitations.
2. Do not use this equipment while under the influence of drugs, alcohol, or any medications or substances which may affect vision, dexterity, or judgment or when fatigue prevents safe operation.
3. This respirator is intended for entry into, or work in, only those atmospheres which are not oxygen deficient and are not immediately dangerous to life and health. This respirator may be used for **ESCAPE ONLY** from atmospheres which become immediately dangerous to life and health. **DO NOT USE IN OXYGEN DEFICIENT ATMOSPHERES.** Filtration elements do not supply oxygen. **DO NOT** use this respirator to enter or work in atmospheres containing unknown amounts of contaminants. When the concentration of the hazardous material in the atmosphere is not known, the atmosphere must be treated as immediately dangerous to life and health.
4. Use of this respirator in environments containing substances which may irritate or poison through the skin may require the use of additional protective equipment or clothing to protect the body.
5. The protection offered by this respirator depends upon the quality of the facepiece fit, the condition of the respirator and the selection of the proper filtration element.
6. This respirator user **MUST** be properly fitted with the respirator before use (see FACEPIECE FITTING section of this manual).
7. The respirator **MUST NOT** be worn when conditions prevent a good face to facepiece seal . Such conditions include but are not limited to growth of beard or sideburns, a skull cap that projects under the facepiece, temple pieces on corrective glasses, or anything else which interferes with the face to facepiece seal.
8. **MAKE CERTAIN THAT THE FILTRATION ELEMENT SELECTED IS THE CORRECT ONE REQUIRED FOR THE HAZARD.** Filtration element selected for protection against airborne particulates, gases and vapors must be used in accordance with instructions and warnings shown on filtration element labels. Refer to the RESPIRATOR APPROVAL LABEL section for respirator description and use. **DO NOT USE THIS RESPIRATOR IN ATMOSPHERES CONTAINING UNKNOWN SUBSTANCES.**
9. Read, be familiar with, and **UNDERSTAND** all instructions and warnings packaged with, or attached to, each type of filtration element.
10. A filtration element for CBRN use is labeled as such. Look at the CBRN label to determine the length of service time for each CBRN filtration element. Do not reuse a used CBRN filtration element or one that was previously removed from its protective packaging. Use only a new filtration element that you remove from its protective packaging at the time of use.
11. When choosing a filtration element for a general class of contaminant, the user must realize that the length of time the respirator will provide protection can vary greatly for individual substances which are members of a general class.



12. A respirator in good condition that is properly fitted and has the proper filtration element for the contaminant present, will provide protection for a limited length of time depending on the conditions of use. The conditions of use include but are not limited to:
  - the concentration of contaminant(s) in the atmosphere;
  - the temperature and the humidity of the ambient atmosphere;
  - the elapsed time since the filtration element is placed in service;
  - the psychological state of the wearer;
  - the level of physical activity of the wearer.

In addition to the conditions of use mentioned above, the length of time a filtration element may be used to protect against atmospheres containing certain substances may be controlled by government regulations. The user must be familiar with these government regulations and must strictly adhere to them.
13. The use of **CONTACT LENSES** while wearing a respirator **MAY BE FORBIDDEN** or severely restricted by your respiratory protection program. If you are a contact lens user, notify your respiratory program administrator or employer and obtain specific limitations and instructions before using contact lenses with this respirator.
14. If you sense any of the following danger signals, **IMMEDIATELY MOVE TO A FRESH AIR ENVIRONMENT**. (Your filtration element may be expended or abnormal conditions may be creating hazardous concentrations in the facepiece.)
  - You smell or taste chemicals, or if your eyes, nose or throat become irritated;
  - It becomes difficult to breathe;
  - The air you are breathing becomes uncomfortably warm;
  - You feel like vomiting or become dizzy.
15. When using this respirator in accordance with its **RESPIRATOR APPROVAL LABEL** against substances which cannot be detected by taste, smell, etc., the administrative controls on the time of use established by your organized respiratory protection program **MUST** be adhered to. An organized respiratory protection program includes, but is not limited to, an evaluation and understanding of the hazards being protected against, proper training and surveillance of the user, and regular evaluation to determine respirator effectiveness, and a change out schedule. Follow established filtration element change schedules to ensure that filtration element is replaced before breakthrough occurs.
16. This respirator **MUST NOT** be used in fire conditions or for fire fighting.
17. Refer to the NIOSH CBRN Cautions and Limitations section of this instruction.
18. If this facepiece is to be used with a SCOTT Powered Air Purifying Respirator (PAPR), refer to the user's instructions provided with that product and to the most recent **RESPIRATOR APPROVAL LABEL** for the SCOTT PAPR. Additional copies of the **RESPIRATOR APPROVAL LABEL** for the SCOTT PAPR are available from your SCOTT distributor or by calling Scott Health and Safety at 1-800-247-7257.

## FACEPIECE FITTING

The protection offered by this respirator will be reduced by poor facepiece fit.

### WARNING

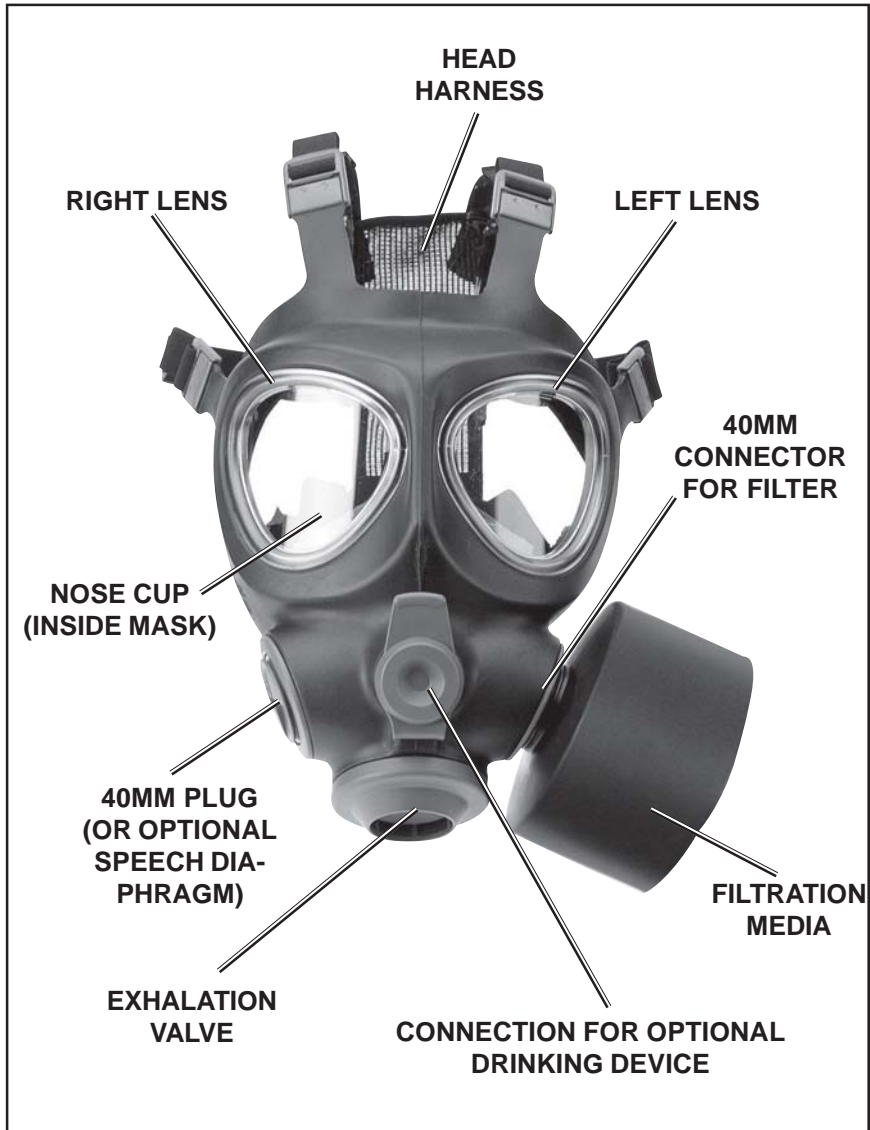
**FAILURE TO FIT THE RESPIRATOR TO THE USER AND TRAIN THE USER IN THE USE OF THE RESPIRATOR MAY RESULT IN LITTLE OR NO RESPIRATORY PROTECTION AND MAY EXPOSE THE WEARER TO SUBSTANCES WHICH CAN CAUSE SERIOUS INJURY OR DEATH.**

Due to the natural variation in the human facial features, no one size or style of full facepiece can be guaranteed to fit all persons wishing to use the respirator. It is essential that respirator facepiece fit be checked before issuing or assigning a respirator to a user. Facepiece fitting also aids in learning the correct donning procedure. Use the DONNING PROCEDURE and TERMINATION OF USES sections of this instruction when fitting users to the facepiece.

Quantitative Facepiece Testing (QNFT) is a procedure wherein the prospective respirator user wears a test respirator in a test atmosphere. Associated equipment measures the concentration of the challenge agent which enters the test respirator compared to the concentration of that agent in the air around the user to provide a numerical measure of the quality of facepiece fit. The test atmosphere can consist of air contaminated with a small amount of aerosol, vapor or gas, or with the proper instrumentation, the test atmosphere can be particles found in ordinary room air.

In the event that a satisfactory degree of facepiece fit cannot be obtained, a different facepiece size or style may be required to obtain a proper facial fit. If a satisfactory fit cannot be achieved through the fit testing process, do not use the facepiece.

In addition, a NEGATIVE PRESSURE LEAK TEST must be performed by the wearer each time the M95/M110 full facepiece respirator is used. SCOTT HEALTH AND SAFETY recommends that a NEGATIVE PRESSURE LEAK TEST be conducted as part of the donning procedure each time a user dons a respirator. See the DONNING PROCEDURE section of this instruction for details of performing a NEGATIVE PRESSURE LEAK TEST. IF A SATISFACTORY NEGATIVE PRESSURE LEAK TEST CANNOT BE PERFORMED, DO NOT USE THE RESPIRATOR OR ENTER THE HAZARDOUS ATMOSPHERE.



**PARTS OF THE MASK M95/M110 FULL FACEPIECE**

## WARNING

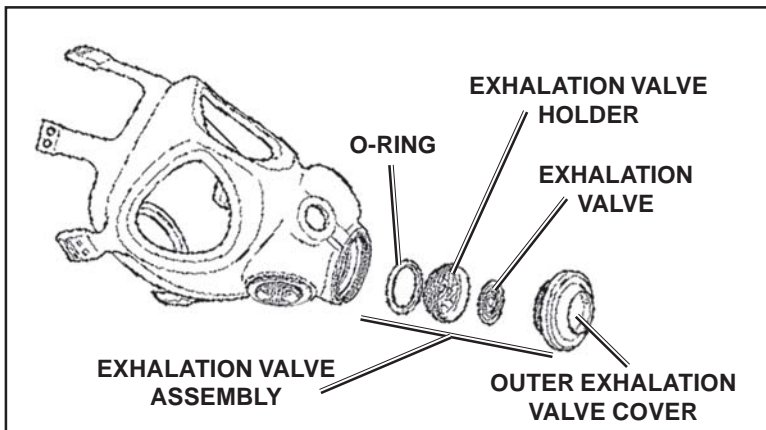
THE INFORMATION IN THIS INSTRUCTION IS MEANT TO SUPPLEMENT, NOT REPLACE, THE INSTRUCTIONS, TRAINING, SUPERVISION, MAINTENANCE, AND OTHER ELEMENTS OF YOUR ORGANIZED RESPIRATORY PROTECTION PROGRAM. SEE WARNING ON PAGE ONE OF THIS DOCUMENT.

## INSPECTION OF THE RESPIRATOR BEFORE USE

Always inspect and clean a new respirator before the first use. Respirators issued to individuals for emergency use **MUST** be inspected at least every 30 days. See the CLEANING, INSPECTION AND STORAGE section of this instruction.

IF ANY DAMAGE IS FOUND, REMOVE THE RESPIRATOR FROM SERVICE AND TAG FOR REPAIR BY AUTHORIZED PERSONNEL.

1. Examine the facepiece to be certain that it is complete and in serviceable condition. Be certain that all components are clean and undamaged. Verify that the head harness is properly installed. Verify that the nose cup is properly installed.
2. Check the inhalation valve for proper installation and any evidence of damage. Valve must lie flat and have no wrinkles that would prevent sealing. Check the inhalation valve for dirt or debris which might interfere with the seal of the valve. Clean or replace the valve as needed before use.
3. Check the exhalation valve for dirt or debris which might interfere with the seal of the valve. Clean the valve as needed before use. To check the exhalation valve, refer to illustration below and proceed as follows:
  - a) Unscrew the outer exhalation valve cover from the front of the facepiece and remove the exhalation valve assembly.
  - b) Remove the exhalation valve holder which snaps into the outer exhalation valve cover. (There is no need to remove the O-Ring on the back of the holder.)



- c) Check the exhalation valve for proper installation and any evidence of damage. Valve must lie flat and have no wrinkles that would prevent sealing. Check the exhalation valve for dirt or debris which might interfere with the seal of the valve. Clean or replace the valve as needed before use.
- d) Snap the exhalation valve holder back into the outer exhalation valve cover and screw the assembly back into the front of the facepiece and tighten securely by hand.

### **WARNING**

**THE EXHALATION VALVE MUST BE CLEAN AND MUST SEAL PROPERLY BEFORE USE OF THE RESPIRATOR. FAILURE TO VERIFY THAT THE EXHALATION VALVE IS SEALING PROPERLY MAY RESULT IN THE RESPIRATOR PROVIDING LITTLE OR NO PROTECTION AGAINST THE CONTAMINATED ATMOSPHERE WHICH MAY LEAD TO SERIOUS INJURY OR DEATH.**

4. If the facepiece is fitted with the optional Drinking Device, verify that it is complete and properly installed.
5. The filtration element may be installed in the connector on either the left or right side of the facepiece. The unused connector must be plugged with either a Connector Plug or a Speech Diaphragm Assembly. Verify that the Plug or Speech Diaphragm Assembly is properly threaded tightly into the unused connector. Use a large coin or similar implement to tighten.
6. Examine the filtration element connector to be certain it is complete and in serviceable condition. Connector gasket must have no rips or tears.
7. **DO NOT OPEN THE FILTRATION ELEMENT SEALED PACKAGING UNTIL READY FOR USE.** Verify that the filtration element is the proper type for the contaminant(s) present, that its expiration date has not been exceeded and that it is still sealed in its protective packaging, it is undamaged and in serviceable condition.

### **WARNING**

**THE FAILURE TO CHOOSE A RESPIRATOR EQUIPPED WITH A FILTRATION ELEMENT SUITABLE FOR THE CONTAMINANT(S) IN THE ATMOSPHERE OR LIKELY TO BE RELEASED IN THE ATMOSPHERE MAY RESULT IN THE RESPIRATOR PROVIDING LITTLE OR NO PROTECTION AGAINST THE CONTAMINATED ATMOSPHERE WHICH MAY LEAD TO SERIOUS INJURY OR DEATH.**

# PREPARATION FOR USE OF THE RESPIRATOR

## NOTE

AN INSTRUCTIONAL VIDEO IS AVAILABLE TO AID IN THE TRAINING OF USERS OF THIS RESPIRATOR.

1. Examine the facepiece to be certain that it is complete and in serviceable condition. Be certain that all components are undamaged and in serviceable condition.
2. Attach corrective lens holder accessory, if applicable. See applicable Eyeglass Accessory Instructions for details of use of corrective lens holder.
3. **DO NOT OPEN THE FILTRATION ELEMENT SEALED PACKAGING UNTIL READY FOR USE.** Verify that the filtration element is the proper type for the contaminant(s) present, that its expiration date has not been exceeded and that it is still sealed in its protective packaging, it is undamaged and in serviceable condition.

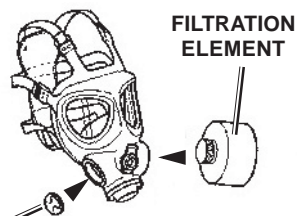
## WARNING

**DO NOT USE FILTRATION ELEMENT THAT IS DAMAGED OR THAT IS PAST ITS EXPIRATION DATE. USE OF DAMAGED OR OUTDATED FILTRATION ELEMENT MAY EXPOSE THE USER TO THE ATMOSPHERE THE RESPIRATOR IS DESIGNED TO PROTECT AGAINST WHICH MAY RESULT IN SERIOUS INJURY OR DEATH.**

4. Open the filtration element protective packaging according to the instructions on the package. Remove seals (if applicable) located at inlet and/or outlet of filtration element.
5. Check that the facepiece inhalation valve and inhalation valve seat are properly installed at filtration element connector.
6. The filtration element may be installed in the connector on either the left or right side of the facepiece. The unused connector must be plugged with either a Connector Plug or a Speech Diaphragm Assembly. Verify that the Plug or Speech Diaphragm Assembly is properly threaded tightly into the unused connector. Use a large coin or similar implement to tighten.

## INSTALLING FILTRATION ELEMENT

CONNECTOR PLUG OR  
SPEECH DIAPHRAGM ASSEMBLY



7. Thread filtration element clockwise onto filtration element connector on facepiece until tight and secure.

## WARNING

**FAILURE TO VERIFY THAT BOTH FILTRATION ELEMENT AND SPEECH DIAPHRAGM ASSEMBLY ARE PROPERLY THREADED INTO THE FACEPIECE MAY RESULT IN LITTLE OR NO RESPIRATORY PROTECTION AND MAY EXPOSE THE WEARER TO SUBSTANCES THAT CAN CAUSE SERIOUS PERSONAL INJURY OR DEATH.**

## USE OF THE RESPIRATOR

1. Respirators used for emergency escape purposes should be inspected at least every 30 days. See **CLEANING, INSPECTION, AND STORAGE** section of this manual.
2. Install the filtration element according to the **PREPARATION FOR USE** section of this instruction. Use only one filtration element. Verify that the opposite facepiece connector is properly fitted with the facepiece plug or Speech Diaphragm Assembly.

### WARNING

**ONLY ONE FILTRATION ELEMENT IS TO BE INSTALLED ON THE FACEPIECE. DO NOT INSTALL FILTRATION ELEMENTS ON BOTH SIDES OF FACEPIECE. FAILURE TO VERIFY THAT THE FILTRATION ELEMENT AND FACEPIECE PLUG OR SPEECH DIAPHRAGM ARE PROPERLY THREADED INTO THE FACEPIECE MAY RESULT IN LITTLE OR NO RESPIRATORY PROTECTION AND MAY EXPOSE THE WEARER TO SUBSTANCES THAT CAN CAUSE SERIOUS INJURY OR DEATH.**

3. Don the respirator in accordance with the **DONNING PROCEDURE** section of this manual. **IF POSSIBLE, HAVE ANOTHER PERSON DOUBLE CHECK THE FACE SEAL AND THE HEAD HARNESS AFTER DONNING.** Perform a **NEGATIVE PRESSURE LEAK TEST** as described in the **DONNING PROCEDURE** section of this manual.

### WARNING

**IF A SATISFACTORY NEGATIVE PRESSURE LEAK TEST CANNOT BE PERFORMED, DO NOT USE THE RESPIRATOR. FAILURE TO VERIFY THAT THE FACEPIECE IS SEALED TIGHTLY AGAINST THE FACE MAY RESULT IN LITTLE OR NO RESPIRATORY PROTECTION AND MAY EXPOSE THE WEARER TO SUBSTANCES THAT CAN CAUSE SERIOUS INJURY OR DEATH.**

4. *The CBRN filtration element is marked with a NIOSH designation for maximum time use exposure. USE MUST NOT EXCEED THE MAXIMUM TIME USE SPECIFIED.*
5. Detection of contaminant odor or taste, or irritation of eye, nose or throat is evidence that the filtration element may be exhausted. **RETURN TO FRESH AIR IMMEDIATELY, CHECK FACEPIECE FIT AND REPLACE FILTRATION ELEMENT.** Expended filtration element should be disposed of properly in accordance with federal, state, or local guidelines for disposal of contaminated material.
6. Before removing the respirator, leave the contaminated area and/or be certain that respiratory protection is no longer required. See the **TERMINATION OF USE** section of this instruction.
7. Decontaminate and remove respirator in accordance with the procedures of your respiratory protection program.
8. After use, handle the respirator as potentially contaminated equipment and clean or dispose of as directed by your respiratory protection program and in accordance with federal, state, or local regulations.

## DONNING PROCEDURE

The user must be familiar with and practice the prescribed DONNING PROCEDURE and TERMINATION OF USE prior to respirator use. An INSTRUCTIONAL VIDEO is available to aid in the training of users of this respirator.

### NOTE

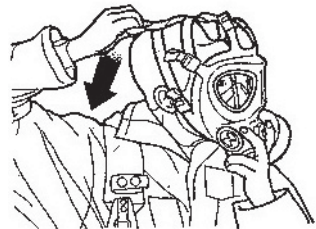
IF THE M95/M110 FULL FACEPIECE IS BEING DONNED FOR THE FIRST TIME OR IF THIS IS THE FIRST TIME A PARTICULAR STYLE FACEPIECE IS TO BE USED, REFER TO THE APPROPRIATE STEPS IN THE FACEPIECE FITTING SECTION OF THIS INSTRUCTION. DURING TRAINING, THE USER SHOULD DETERMINE THE LEVEL OF TIGHTNESS OF THE HEAD HARNESS REQUIRED TO PROVIDE THE BEST SEAL AND GREATEST COMFORT.

1. Examine the facepiece to be certain it is complete and in serviceable condition. Check to see that the inhalation and exhalation valves are clean, properly installed, and operational. Check that the nose cup is properly positioned behind the face seal chin pocket.
2. Assemble filtration element to facepiece and verify that opposite side is properly fitted with either the Connector Plug or Speech Diaphragm Assembly (see USE OF THE RESPIRATOR section of this instruction).
3. Adjust the head straps to their full outward position.
4. Hold the head harness with both hands at the bottom of the harness (the two lower straps).
5. Place the facepiece on the face with chin properly located in the chin pocket while pulling the head harness over the top of the head.
6. Hold the chin pocket in place on the chin with one hand. Verify that the head harness is flat against the head without any twists. Make sure that the face seal is in contact with the skin of the face and that no hair or clothing interferes with the seal.

**ADJUST HEAD STRAPS OUT**



**VERIFY THAT THE HARNESS IS FLAT AGAINST THE TOP OF THE HEAD**



7. Continue to hold the chin pocket in place and tighten the neck straps by pulling the two lower strap ends toward the rear of the head. Pull each strap individually.
8. Stroke the head harness net down the back of the head using one or both hands. Retighten the neck straps.



9. Tighten the two temple straps. Adjust the temple straps by pulling the two temple strap ends toward the back of the head. Overtightening may cause discomfort.
10. Tighten the two forehead straps by pulling the forehead straps toward the back of the head.
11. Retighten the neck straps if required.
12. IF POSSIBLE, HAVE ANOTHER PERSON CHECK THE FACE SEAL AND THE HEAD HARNESS AFTER DONNING. Examples include twisted harness, harness out of position, hair or clothing in face seal.
13. Perform NEGATIVE PRESSURE LEAK TEST.



**TIGHTEN STRAPS**

### **NEGATIVE PRESSURE LEAK TEST**

1. Close off inlet side of filtration element by placing palm of hand or other airtight object over the inlet located on the bottom side of filtration element. Press only hard enough to seal the inlet. Do not distort the mask.
2. Inhale slowly, holding breath for a minimum of five (5) seconds.
3. The facepiece shall be drawn slightly to the face and there shall be no leakage.
4. If any leakage is noted, correct immediately by restroking head harness or head net to back and retighten neck, temple, and forehead straps.
5. If leakage is still detected, select another size facepiece and repeat procedure.
6. If leakage is detected and it can be determined that the cause of leakage is due to damage to the respirator, remove the respirator from service and tag for repair by authorized personnel.
7. If a satisfactory NEGATIVE PRESSURE LEAK TEST cannot be achieved, do not use the respirator. Find another method of respiratory protection.
8. To remove respirator, see TERMINATION OF USE section of this manual.



**NEGATIVE PRESSURE LEAK TEST**

### **WARNING**

**IF A SATISFACTORY NEGATIVE PRESSURE LEAK TEST CANNOT BE PERFORMED, DO NOT USE THE RESPIRATOR. FAILURE TO VERIFY THAT THE FACEPIECE IS SEALED TIGHTLY AGAINST THE FACE MAY RESULT IN LITTLE OR NO RESPIRATORY PROTECTION AND MAY EXPOSE THE WEARER TO SUBSTANCES THAT CAN CAUSE SERIOUS INJURY OR DEATH.**

## OPTIONAL DRINKING DEVICE

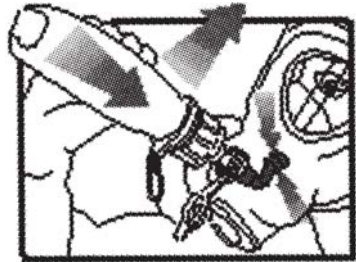
The M95/M110 facepiece may be fitted with an optional Drinking Device. A facepiece which has been properly fitted with the optional Drinking Device permits connection of a drinking bottle. Refer to the user instructions provided with the Drinking Device for complete details of use. **DO NOT USE THIS DEVICE WITH A DRINKING BOTTLE WITHIN A CONTAMINATED ATMOSPHERE.** Always perform a satisfactory seal check of the respirator before use.

### WARNING

**DO NOT USE THE DRINKING DEVICE ACCESSORY WITH A DRINKING BOTTLE IN A CONTAMINATED ATMOSPHERE. CONTAMINANTS MAY BE TRANSFERRED FROM THE NOZZLE ON THE BOTTLE CAP TO THE DRINKING DEVICE AND THE DRINKING TUBE. USE OF THIS DRINKING DEVICE WITH A DRINKING BOTTLE IN A CONTAMINATED ATMOSPHERE MAY RESULT IN SERIOUS INJURY OR DEATH.**

Use this optional accessory as follows:

1. Use only water or clear liquids in the drinking bottle. Avoid liquids with non-soluble particles or carbonated beverages. The cap of the optional SCOTT Drinking Bottle P/N 012593 can also be connected to a standard PET plastic bottle with a 28 mm diameter thread.
2. Verify that no contamination is present on the facepiece, the bottle, or the user's hands that might be transferred to the drinking tube.
3. Remove the lid from the nozzle on the bottle cap. Open the lid of the Drinking Device opening on the facepiece.
4. Insert the nozzle of the cap into the Drinking Device opening.
5. Before drinking, verify that a good seal exists between the bottle and the Drinking Device as follows:
  - a) Take the mouth piece in the mouth and press it with teeth.
  - b) Blow gently into the mouthpiece. If resistance is felt, a valid seal exists and it is safe to drink.
  - c) If no resistance is felt, a leak may exist in the connection. Remove the drinking bottle, reattach and test again. If no resistance is felt again, do not use drinking bottle.



**USE OF DRINKING BOTTLE**

### WARNING

**FAILURE TO PERFORM A SATISFACTORY SEAL CHECK OF THE DRINKING DEVICE BEFORE USE, MAY EXPOSE THE WEARER TO SUBSTANCES THE RESPIRATOR IS DESIGNED TO PROTECT AGAINST WHICH MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.**

### NOTE

THE DRINKING BOTTLE MUST BE HELD IN PLACE WHILE USING.

6. To terminate use, release the drinking tube from the mouth. Remove drinking bottle and replace the lids on the facepiece and the bottle.

## **TERMINATION OF USE**

To doff the facepiece (i.e.; Remove the facepiece and terminate respiratory protection) proceed as follows:

1. Leave the contaminated area and/or be certain that respiratory protection is no longer required. Follow the decontamination procedures established by your respiratory protection program. Remove the respirator only in a clean, fresh air environment.
2. Loosen all head harness straps to their full outward position. Head straps are loosened by moving the buckle release levers outward (away from the head) while maintaining head strap tension. Head strap tension can be maintained by pulling the facepiece away from the face or by pulling the head straps backwards.
3. To remove, pull the facepiece up and back over the head.
4. Clean the respirator according to the **CLEANING, INSPECTION, AND STORAGE** section of this instruction.
5. To resume use of the respirator, replace expended filtration element with a fresh replacement filtration element and repeat the **DONNING PROCEDURE**, including the facepiece **NEGATIVE PRESSURE LEAK TEST**.

### **NOTE**

**IF DURING USE, THE RESPIRATOR IS SUSPECTED OF BEING CONTAMINATED BY HAZARDOUS SUBSTANCE, THE CONTAMINANT MUST BE IDENTIFIED AND PROPERLY REMOVED OR THE CONTAMINATED COMPONENT(S) MUST BE REPLACED BEFORE NEXT USE. DISPOSE OF THE CONTAMINANT OR THE CONTAMINATED COMPONENT(S) IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS. IF THE RESPIRATOR IS SUSPECTED OF BEING EXPOSED TO CBRN CLASS HAZARDOUS SUBSTANCES, HANDLE AND/OR DISPOSE OF IN ACCORDANCE WITH THE REQUIREMENTS OF YOUR CBRN RESPIRATORY PROTECTION PROGRAM.**

## **CLEANING, INSPECTION AND STORAGE**

### **WARNING**

**FAILURE TO PROPERLY CLEAN AND INSPECT THE FACEPIECE AND HARNESS MAY RESULT IN THE RESPIRATOR PROVIDING LITTLE OR NO PROTECTION AND MAY EXPOSE THE USER TO SUBSTANCES WHICH MAY CAUSE SERIOUS INJURY OR DEATH.**

Always inspect and clean a new respirator before the first use. Respirators should be inspected, cleaned and disinfected after each use. Respirators **NOT** in regular use but placed in the work place or issued to individuals for emergency use **MUST** be inspected at least every 30 days.

### **WARNING**

**DO NOT ATTEMPT ANY REPAIR OR ALTERATION OF THIS RESPIRATOR BEYOND THE SCOPE OF THIS INSTRUCTION. TRAINING IS REQUIRED FOR FURTHER SERVICE OR REPAIR OF THIS RESPIRATOR. THIS RESPIRATOR MAY SUPPORT LIFE IN HAZARDOUS ATMOSPHERES. FAILURE TO PROPERLY SERVICE THIS RESPIRATOR MAY RESULT IN SERIOUS INJURY OR DEATH.**

Under certain circumstances of use, decontamination of the respirator may be necessary as defined by your respiratory protection program. Follow the established procedures of your program for decontamination of respiratory equipment.

### **NOTE**

PRIOR TO HANDLING OR USE OF ANY OF THE CLEANING AGENTS MENTIONED IN THIS INSTRUCTION, CONSULT THE MANUFACTURER'S MATERIAL SAFETY DATA SHEET (MSDS) FOR PRECAUTIONS AND IMPORTANT INSTRUCTIONS.

### **CLEANING**

The following cleaning instructions are for routine cleaning. Decontamination from exposure to certain hazardous environments must be defined by the respiratory protection program under which this equipment is used.

### **NOTE**

THE NOSE CUP IS DESIGNED TO BE AN INTEGRAL PART OF THE FACEPIECE ASSEMBLY AND DOES NOT NEED TO BE DISASSEMBLED FOR CLEANING AND DISINFECTING. IN THE EVENT THAT THE NOSE CUP IS REMOVED FOR INSPECTION OR CLEANING, MAKE CERTAIN IT IS REASSEMBLED BEHIND THE CHIN POCKET OF THE FACE SEAL.

Clean the respirator as follows:

1. Remove the filtration element from the facepiece by turning counterclockwise until unthreaded and dispose of properly. **The CBRN filtration element is for single use only.**
  - a) Handle air filtration elements with care. Air filtration elements may contain the contaminant that was in the atmosphere while the air filtration element was being used and must be handled as a contaminated or potentially contaminated object.
  - b) Disposal of the air filtration elements must be in accordance with state and local environmental regulations.

**WARNING**

**AFTER DECONTAMINATION, DISPOSE OF AIR FILTRATION ELEMENTS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS. DO NOT THROW AWAY DAMAGED OR UNUSABLE AIR FILTRATION ELEMENTS AS ORDINARY TRASH.**

2. Carefully wash the facepiece and harness in a warm water solution (110° F / 44° C maximum) containing a mild detergent. A soft cloth may be used for scrubbing extreme dirty areas.

**NOTE**

A SOFT BRUSH MAY BE USED TO WASH THE HARNESSES AND ELASTOMERIC PORTION OF THE FACEPIECE. **DO NOT USE BRUSH ON PLASTIC LENSES.**

3. Rinse thoroughly with clean water.
4. Disinfect the facepiece according to the instructions supplied with the SCOTT recommended sanitizer or disinfectant.

**NOTE**

DISINFECTING MAY NOT BE NECESSARY IF THE RESPIRATOR IS REUSED BY THE SAME WORKER.

5. Thoroughly rinse with clean water using a spray bottle or gently running water.
6. Shake excess water off of facepiece and then dry with a clean, lint-free cloth and hang upside down to completely dry. The respirator may be dried by blowing gently with clean, dry breathing air of 30 psig or less pressure. Do not use shop air or any other air containing lubricants or moisture. If a heated blower is used for drying, be sure temperature does not exceed 110° F / 44° C and provides adequate air circulation. Take care not to damage facepiece with excessive heat.

**CAUTION**

**EXCESSIVE HEAT MAY DAMAGE THE FACEPIECE MATERIALS. DO NOT EXCEED 110° F / 44° C FOR EITHER THE WASHING WATER OR THE DRYING AIR WHEN CLEANING THE FACEPIECE.**

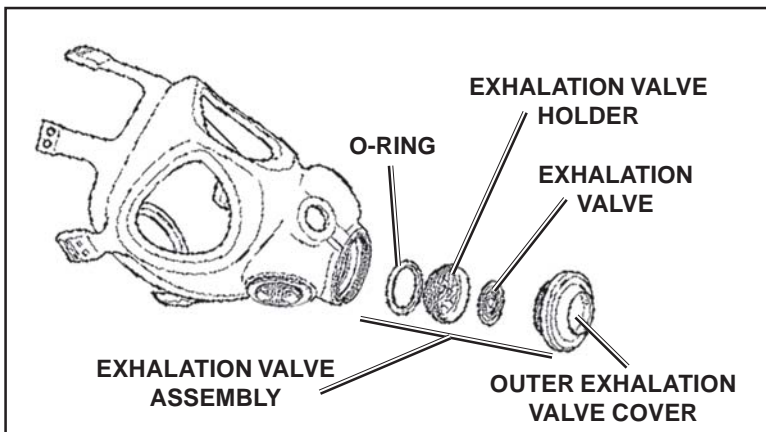
**CLEANING, INSPECTION AND STORAGE  
CONTINUED ON NEXT PAGE...**

## CLEANING, INSPECTION AND STORAGE CONTINUED...

### INSPECTION

IF ANY DAMAGE IS FOUND, REMOVE THE FACEPIECE FROM SERVICE AND TAG FOR REPAIR BY AUTHORIZED PERSONNEL.

1. Examine the facepiece to be certain that it is complete and in serviceable condition. Be certain that all components are clean and undamaged. Examine elastomeric portion of the facepiece for rips, tears, holes, deformation, cracks, stiffening or signs of aging.
2. Verify that the head harness is properly installed. Examine head straps and harness for breaks, cuts, frays, tears, loss of elasticity and missing or damaged hardware.
3. Verify that the nose cup is properly installed.
4. Examine filtration element inlet to verify proper condition of threads.
5. Examine lenses for cracks, excessive scratches or other possible damage.
6. Examine the inhalation and exhalation valves and valve seats for cracks or foreign substances which may not allow the valves to close completely. Verify that the valves are not distorted or missing.
7. Check the inhalation valve for proper installation and any evidence of damage. Valve must lie flat and have no wrinkles that would prevent sealing. Check the inhalation valve for dirt or debris which might interfere with the seal of the valve. Clean or replace the valve as needed before use.
8. Check the exhalation valve for dirt or debris which might interfere with the seal of the valve. Clean the valve as needed before use. To check the exhalation valve, refer to illustration below and proceed as follows:



- a) Unscrew the outer exhalation valve cover from the front of the facepiece and remove the exhalation valve assembly.
- b) Remove the exhalation valve holder which snaps into the outer exhalation valve cover. (There is no need to remove the O-Ring on the back of the holder.)

- c) Check the exhalation valve for proper installation and any evidence of damage. Valve must lie flat and have no wrinkles that would prevent sealing. Check the exhalation valve for dirt or debris which might interfere with the seal of the valve. Clean or replace the valve as needed before use.
  - d) Snap the exhalation valve holder back into the outer exhalation valve cover and screw the assembly back into the front of the facepiece and tighten securely by hand.
9. Examine the filtration element connector to be certain it is complete and in serviceable condition. Connector gasket must have no rips or tears.
10. IF ANY DAMAGE IS FOUND, CORRECT IMMEDIATELY OR REMOVE THE RESPIRATOR FROM SERVICE AND TAG FOR REPAIR BY AUTHORIZED PERSONNEL. USE ONLY REPLACEMENT COMPONENTS MANUFACTURED BY SCOTT HEALTH AND SAFETY.

### **WARNING**

**USE ONLY REPLACEMENT COMPONENTS MANUFACTURED BY SCOTT HEALTH AND SAFETY. SEE SEPARATE REPLACEMENT PARTS LIST. USE OF UNAPPROVED COMPONENTS MAY DEGRADE THE PERFORMANCE OF THE RESPIRATOR WHICH MAY RESULT IN EXPOSING THE USER TO THE HARMFUL ATMOSPHERE WHICH COULD CAUSE SERIOUS INJURY OR DEATH.**

### ***STORAGE***

Examine a new filtration element and verify that it is the proper type for the contaminant(s) present. The new filtration element must be undamaged and in serviceable condition and still sealed in its protective packaging. Also verify that the expiration date printed on the protective packaging has not been exceeded.

After cleaning and drying, store the facepiece protected from sunlight, grease, and oil in a clean sealed container.

Store the facepiece with a new filtration element sealed in its protective packaging.

Store both the facepiece and sealed filtration element in a temperature range of 14° F to 122° F (–10° C to 50° C).

Keep this instruction booklet with the complete respirator.

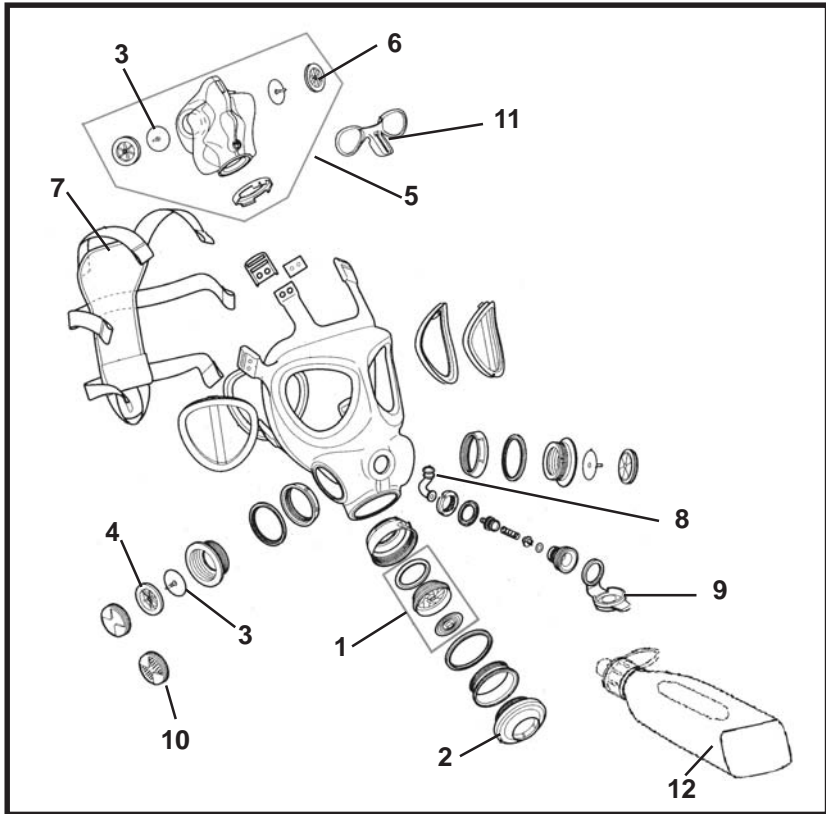
## REPLACEMENT PARTS

<b><u>Part Number</u></b>	<b><u>Description</u></b>	<b><u>Diagram Item #</u></b>
012577	Exhalation valve Set Assembly, .....	1
012571	Exhalation valve cover .....	2
012774	Inhalation Valve Discs, set of four (4) .....	3
013372	Inhalation Valve Seats, set of two (2) .....	4
012574	Nose cup for Regular M95/M110 .....	5
012575	Nose cup for Small M95/M110 .....	5
012773	Nose cup Valve Seats, set of two (2) .....	6
012598	Head harness .....	7
012594	Mouthpiece, Drinking Device (if equipped) .....	8
012597	Lid, Drinking Device (if equipped) .....	9

## ACCESSORIES

012592	Speech Diaphragm Plug .....	10
012798	Corrective Lens Holder .....	11
012593	Drinking Bottle Assembly .....	12





**REPLACEMENT PARTS FOR  
M95/M110 FULL FACEPIECE RESPIRATOR**

# NOTES

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