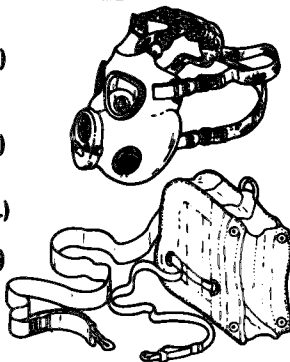


TM 3-4240-279-10

**OPERATOR'S MANUAL
FOR
MASK, CHEMICAL-BIOLOGICAL: FIELD**

This copy is a reprint which includes current pages from Change 1.

- ABC-M17** (4240-88-542-4450 — SMALL)
(4240-88-542-4451 — MEDIUM)
(4240-88-542-4452 — LARGE)
- M17A1** (4240-80-926-4199 — SMALL)
(4240-80-926-4201 — MEDIUM)
(4240-80-926-4200 — LARGE)
- M17A2** (4240-01-143-2017 — X-SMALL)
(4240-01-143-2018 — SMALL)
(4240-01-143-2019 — MEDIUM)
(4240-01-143-2020 — LARGE)



See back cover for warning, distribution statement, and destruction notice.

**HEADQUARTERS
DEPARTMENT OF THE ARMY**

5 OCTOBER 1987

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Page 1-1

EQUIPMENT DESCRIPTION
Page 1-2

**PREVENTIVE MAINTENANCE
CHECKS AND SERVICES
(PMCS) Page 2-16**

**OPERATION UNDER
USUAL CONDITIONS**
Page 2-57

**OPERATION UNDER
UNUSUAL CONDITIONS**
Page 2-99

**MAINTENANCE
INSTRUCTIONS**
Page 3-1

CHANGE

NO. 3

TM 3-4240-279-10

C3

HEADQUARTERS

DEPARTMENT OF THE ARMY

Washington, D.C., 9 May 1997

**OPERATOR'S MANUAL
FOR
MASK, CHEMICAL-BIOLOGICAL: FIELD
ABC-M17, M17A1 AND M17A2**

DISTRIBUTION STATEMENT C: Distribution authorized to U.S. Government agencies and their contractors to protect technical or operational information. This determination was made on 10 March 1987. Other requests for this document will be referred to: Director, Armament and Chemical Acquisition and Logistics Activity, ATTN: AMSTA-AC-NML, Rock Island, IL 61299-7630.

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TM 3-4240-275-10, 5 October 1987, is changed as follows:

1. The purpose of this change is to update the Preventive Maintenance Checks and Services (PMCS) to the current table format
2. Remove old pages and insert new pages as indicated below. New or changed material is indicated by a vertical bar.

Remove Pages

i and ii
1-1 and 1-2
2-15 thru 2-52.2
2-55 and 2-56
C-1 thru D-0
DA Form 2028
Back Cover

Insert Pages

i and ii
1-1 and 1-2
2-15 thru 2-52.2
2-55 and 2-56
C-1 thru D-0

Back Cover

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- Official:


JOEL B. HUDSON

*Administrative Assistant to the
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03403

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*General, United States Army
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CHANGE

NO. 2

**HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D. C., 9 December 1994**

**OPERATOR'S MANUAL
FOR
MASK, CHEMICAL-BIOLOGICAL FIELD
ABC-M17, M17A1 AND M17A2**

TM 3-4240-279-10 is changed as follows:

1. The purpose of this change is to improve Preventive Maintenance Checks and Services (PMCS) serviceability and inspection criteria. To ensure a high state of mask/combat readiness the PMCS must be performed as required.
2. Remove old pages and insert new pages as indicated below. New or changed material is indicated by a vertical bar.

Remove Pages

i and ii
2-17 and 2-18
2-23 and 2-24

Insert Pages

i and ii
2-17 and 2-18
2-23 and 2-24

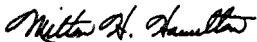
2-27 thru 2-30
2-35 thru 2-36
2-43 thru 2-46
2-51 thru 2-54
2-63 and 2-64
D-3 (D-4 blank)

2-27 thru 2-30
2-35 thru 2-36.1 (36-2 .blank)
2-43 thru 2-46
2-51 thru 2-54
2-63 and 2-64
D-3 (D-4 blank)

3. File this change sheet in front of the publication for reference purposes.

By Order of the Secretary of the Army:

Official:



MILTON H. HAMILTON

*Administrative Assistant to the
Secretary of the Army*

07830

GORDON R. SULLIVAN
*General, United States Army
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CHANGE
NO. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 10 January 1990

OPERATOR'S MANUAL
FOR
MASK, CHEMICAL-BIOLOGICAL: FIELD
ABC-M17, M17A1 AND M17A2

TM 3-4240-279-10 is changed as follows:

1. Remove old pages and insert new pages as indicated below. New or changed material is indicated by a vertical bar.

Remove Pages

c and d
2-29 thru 2-34
2-53 thru 2-58
2-91 thru 2-96
3-1 and 3-2
C-3 and D-0

Insert Pages

c thru e
2-29 thru 2-34
2-53 thru 2-58
2-91 thru 2-96
3-1 and 3-2
C-3 and D-0

2. File this change sheet in front of the publication for reference purposes.

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OFFICIAL:

WILLIAM J. MEEHAN II
Brigadier General, United States Army
The Adjutant General

DISTRIBUTION:

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WARNING

The M17/M17A1/M17A2 masks will not protect the wearer against ammonia or carbon monoxide gases. The masks will not protect the wearer in confined spaces where the oxygen content of the air is too low.

Stop breathing when putting on your facepiece assembly. Toxic agents may be in the surrounding air. Do the steps for putting on your facepiece quickly. You must don, clear, and check your facepiece before you take another breath.

The facepiece must be checked for leaks when it is initially fitted and each time it is used. A leaky facepiece will not protect you from toxic agents.

If you become overheated in very cold weather, do not remove your facepiece outdoors until your head cools and any sweat has dried. Frostbite, or other cold weather injury, may result if the facepiece is removed and the face is not immediately dried.

In cold weather, do not clear the facepiece by exhaling a large volume of air. Moist air will frost eyelenses and impair vision.

WARNING (CONT)

Do not wear contact lenses when wearing optical inserts. Contact lenses will overcorrect vision while wearing optical inserts.

Keep mask dry, Moisture could clog the filter elements and make the facepiece useless.

Any solid matter (even grass) under facepiece valve disks will cause fogged eyelenses, discomfort, and leakage.

Dirt or other foreign material on the connectors of filter elements, mating surfaces of the faceblank, or trapped between these surfaces lets contaminated air into your facepiece.

Do not use the facepiece if inlet valves, valve disks, or outlet valve disks are damaged, missing, or improperly installed. Facepiece may leak.

DS2 can damage the voicemitter of the mask, If the voicemitter has been contaminated with DS2, immediately splash the voicemitter three times with clean water. Do not wet the filter elements.

WARNING (CONT)

In toxic atmosphere, do not break the seal between your hood and facepiece and the side of your face when putting on your headgear. This could cause the facepiece to leak.

Keep face clean shaven. An unshaven face could cause a bad seal between face and facepiece.

Female soldiers shall remove all hairpens, combs, hair knots, buns, or braids that will interfere with facepiece seal.

Do not connect the quick disconnect coupling half to your canteen until all mating surfaces have been checked for chemical contamination. Chemical agents can enter your mouth, resulting in sickness or death.

If resistance is not felt when checking M17A1/M17A2 mask drinking system, your drinking system leaks. Do not drink; get a new mask.

WARNING (CONT)

When using sanitizing solution. avoid eye and facial area contact, If contact occurs. flush with water and seek medical attention.

Because of toxic effects, the M1 waterproof bag should not contact food stuffs

FIRST AID

For first aid, refer to FM 21-11

WARNING

HEALTH/ENVIROMENTAL HAZARD

Filters use ASC Whetlerite Carbon which contains Chromium VI. Chromium VI is a known carcinogen if inhaled or swallowed. Damaged or unusable filters are classified as hazardous waste:

DO NOT throw away damaged or unusable filters as ordinary trash.

DO turn in damaged or unusable filters to your hazardous waste management office or Defense Reutilization and Marketing Office (DRMO).

Filters are completely safe to handle and use if they are not damaged in such a way that carbon leaks from them. In unlikely event that carbon should leak, use protection such as a dust respirator to cover nose and mouth and put carbon in container such as self-sealing plastic bag; turn in to hazardous waste management office or DRMO.

Disposal of hazardous waste is restricted by the Resource Conservation and Recovery Act as amended (42 U.S.C.A. sec 6901 et seq). Violation of these laws is subject to severe criminal penalties.

Technical Manual

No. 3-4240-279-10

*TM 3-4240-279-10

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D.C., 5 October 1987

**Operator's Manual
For
Mask, Chemical-Biological: Field**

ABC-M17	(4240-00-542-4450 - Small)
	(4240-00-542-4451 - Medium)
	(4240-00-542-4452 - Large)
M17A1	(4240-00-926-4199 - Small)
	(4240-00-926-4201 - Medium)
	(4240-00-926-4200 - Large)
M17A2	(4240-01-143-2017 - X-Small)
	(4240-01-143-2018 - Small)
	(4240-01-143-2019 - Medium)
	(4240-01-143-2020 - Large)

*This manual supersedes TM 3-4240-279-10, 2 March 1983, including all changes in their entirety

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes, or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), direct to: Director, Armament and Chemical Acquisition and Logistics Activity, ATTN: AMSTA-AC-NML, Rock Island, IL 61299-7630. A reply will be furnished to you.

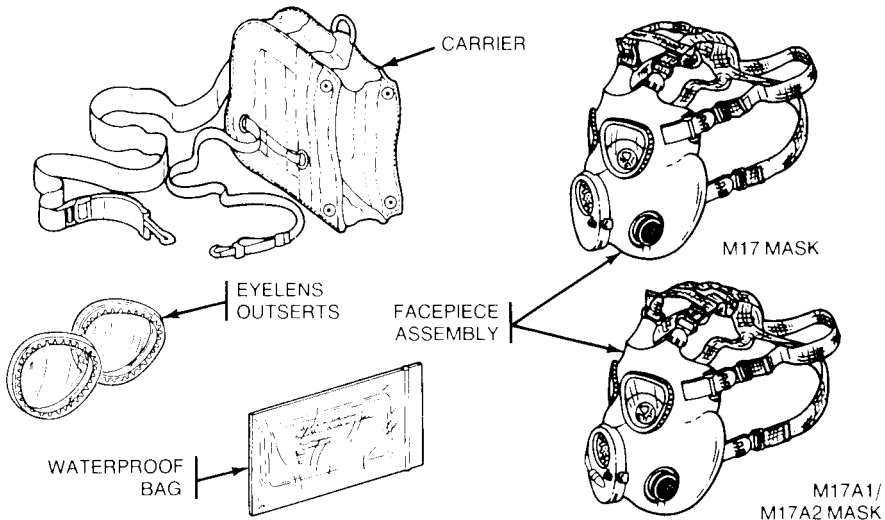
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ABC-M17 MASK, CHEMICAL-BIOLOGICAL: FIELD

M17A1 AND M17A2 MASK, CHEMICAL-BIOLOGICAL: FIELD

CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

1-1. SCOPE.

- a. *Type of Manual.* Operator's Manual
- b. *Model Numbers and Equipment Names.* ABC-M17/M17A1/M17A2 Mask, Chemical-Biological: Field
- c. *Purpose of Equipment* The mask protects your face, eyes, and lungs from field concentrations of chemical-biological (CB) agents and not control (RC) agents.
- d. *Special Limitations on Equipment.* The mask does not protect the wearer against ammonia or carbon monoxide gases. Also it is not effective in confined spaces where oxygen content of the air is too low.

1-2. MAINTENANCE FORMS AND RECORDS.

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750. The Army Maintenance Management System (TAMMS).

1-3. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIRS).

If your M17/M17A1/M17A2 mask needs improvements let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design. Put it on an SF Form 368 (Quality Deficiency Report). Mail it to us at
Commander, U.S. Army Armament Research, Development and Engineering Center, ATTN:
AMSTA-AR-QAW-A(R)/Customer Feedback Center, Rock Island, IL 61299-7300. We'll send you a reply.

Section II. EQUIPMENT DESCRIPTION

1-4. EQUIPMENT PURPOSE, CAPABILITIES, AND FEATURES.

- a. *Purpose.* The mask is used as an individual respiratory protection device.
- b. *Capabilities.* When worn with the proper filter elements installed, the mask protects face, eyes and lungs from field concentrations of chemical-biological (CB) agents and riot control (RC) agents

WARNING

The M17/M17A1/M17A2 mask will not protect the wearer against ammonia or carbon monoxide gases. It is not effective in confined spaces where the oxygen content of the air is too low.

c. Features. Major features of the mask are a rubber faceblank which provides a seal against agents, two replaceable filter elements which filter particulate matter and agents from air, and a voicemitter-outlet valve assembly which transmits the user's voice outside the mask.

1-5. DIFFERENCES BETWEEN MODELS

a. Throughout this manual, the term "mask" refers to the M17, M17A1, and M17A2 masks. When data applies to one model only, the model will be specifically identified,

b. The M17, M17A1, and M17A2 masks are identical, except the M17A1/M17A2 masks have three additional features. The voicemitter-outlet valve assemblies for the M17A1/M17A2 masks are equipped with a drinking system while the M17 mask is not equipped with this system. The M17A1/M17A2 masks also have molded-in mounting points for prong type optical inserts. The M17A2 mask is available in one additional size (extra small). Early style extra small masks have a full inturred lip while the later style (NSN 4240-01-1 43-2017) has a 3/4 inturred lip.

1-6. EQUIPMENT DATA

a. *Tabulated Data*

Weight (with carrier).

M17 mask 2.93 lb (1.33 kg)

M17A1/M17A2 mask 3.11 lb (1.41 kg)

Dimensions (in carrier) 5.5X7.5X11 in
(13.97 X 19.05 x
27.94 cm)

b. *Shipping and Storage Data*

No. and type of pack. 10 per fiberboard
or wooden box

Fiberboard box:

Weight 43 lb (19.50 kg)

Cube. 3.3 cu ft (0.09cu m)

Wooden box:

Weight 66 lb (29.94 kg)

Cube 4 cu ft(0.11 cu m)

CHAPTER 2

OPERATING INSTRUCTIONS

Section I. DESCRIPTION AND USE OF OPERATOR'S CONTROLS AND INDICATORS

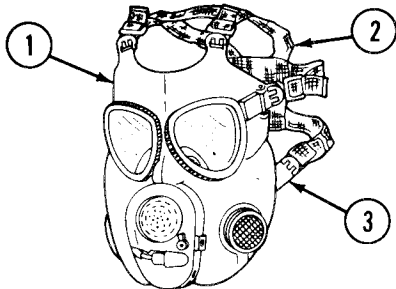
2-1. GENERAL

- Before attempting to use the mask and additionally authorized items, make certain you are familiar with the location and operation of all parts.
- Functions of NBC NCO may be performed by first line supervisors.

2-2. DESCRIPTION OF MASK

a. *Facepiece Assembly.*

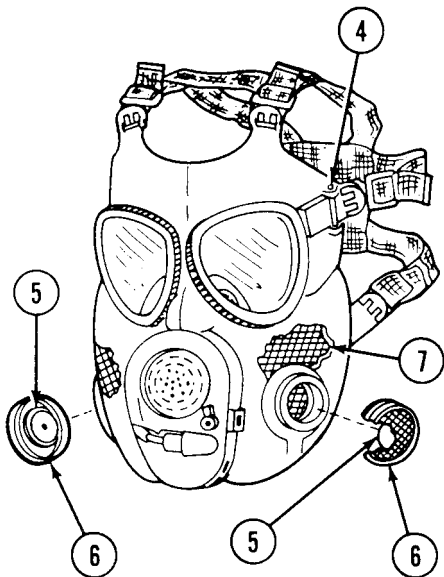
- Rubber facepiece (1) fits closely against your face to form a seal.
- Head harness (2) consists of a head pad, forehead straps, temple straps, and cheek straps. Secures facepiece to your face and chin.
- Clip and buckle assemblies (3) allow for adjustment of head harness straps.



2-2. DESCRIPTION OF MASK (CONT).

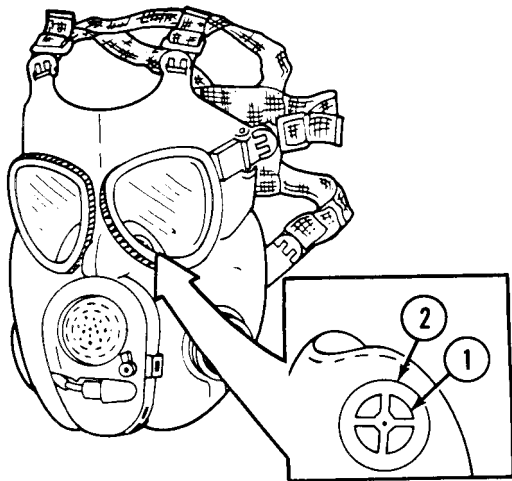
a Facepiece Assembly (Cont).

- Temple pins (4) hold the tabs in proper position against the facepiece assembly.
- Valve disks (5) at sides of facepiece allow contaminated air into filter elements to be filtered, and prevent moist exhaled air from entering the filter elements.
- Inlet valve assemblies (6) prevent rain, snow, and coarse particles from entering the filter elements and hold the relet valve disks.
- Filter elements (7) filter out toxic chemical agents, biological agents, and other particles from inhaled contaminated air



b. *Nosecup Assembly.*

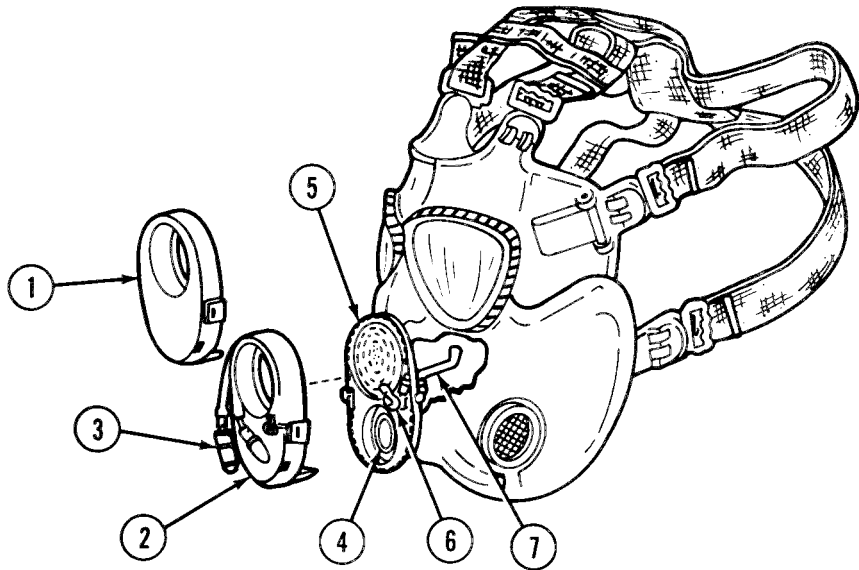
- Nosecup valve disks (1) and nosecup valve seats (2) located in the nosecup assembly allow filtered air to enter the nosecup and prevent moist exhaled air from fogging the eyelenses in cold weather.



2-2. DESCRIPTION OF MASK (CONT).

c. *Voicemitter-Outlet Valve Assembly*

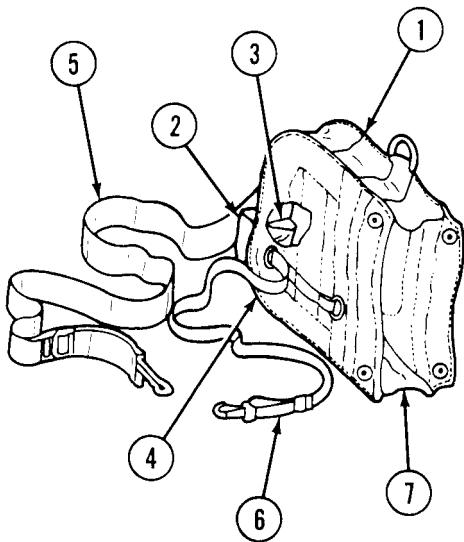
- Voicemitter-outlet valve assembly cover (M17) (1) or voicemitter-outlet valve assembly cover (M17A1/M17A2) (2) covers the outlet valve.
- Quick disconnect coupling half (M17A1/M17A2) (3) connects to the M1 canteen cap and allows you to safely drink water
- Outlet valve disk (4) releases “used air” and prevents unfiltered air from entering the facepiece.
- Voicemitter (5) transmits your voice outside of the facepiece
- Drinking tube lever (M17A1/M17A2)(6) opens and closes drinking valve and moves drinking tube (7) into and out of your mouth.



2-2. DESCRIPTION OF MASK (CONT).

d. Carrier

- Provides for storage and carrying of facepiece and additionally authorized items.
- Consists of upper pocket (1), lower outside pocket (2), inside pocket (3), bottom pocket* (4), shoulder strap (5), waist strap (6), and quick-opening flap (7).
- Quick-opening flap (7) provides ready access to the carrier's contents.



*1 Later models of carrier will not have bottom pocket.

e. *M1 Waterproof Bag*

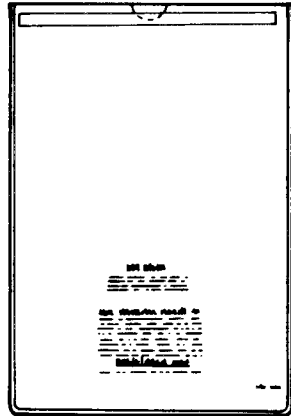
WARNING

Because of possible toxic effects, this bag should not contact food.

CAUTION

Storage of facepiece in this bag can degrade its protective capability. Use bag only for brief periods to protect facepiece from immersion in water, such as when fording streams. Remove facepiece from bag as soon as protection is no longer required.

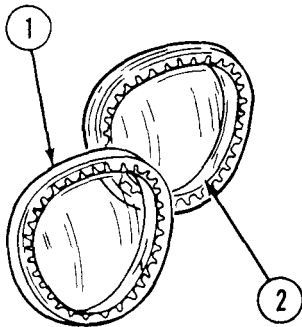
- Keeps facepiece dry when required by climate and mission.
- Includes rubberband for closure.
- Bag is stowed in carrier.



2-2. DESCRIPTION OF MASK (CONT).

f. *Eyelens Outserts*

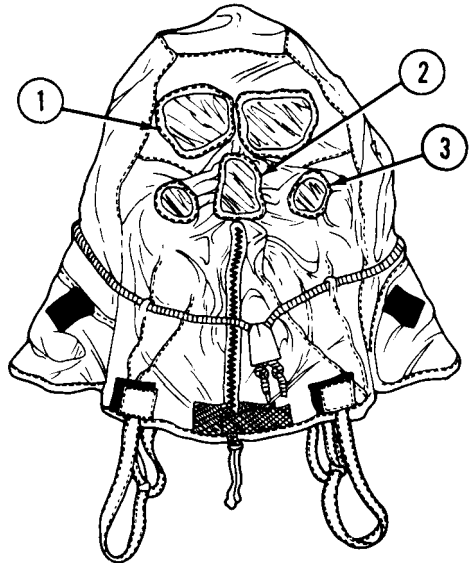
- Rubber rings (1) fit over facepiece eyelens crimping rings to secure the eyelens outserts to the facepiece.
- Transparent plastic lenses (2) protect eyelens from scratches and other damage.
- The eyelens outserts prevent eyelens from fogging in cold weather.



2-3. DESCRIPTION OF ADDITIONALLY AUTHORIZED ITEMS (APP C).

a. ABC-M6A2 Hood.

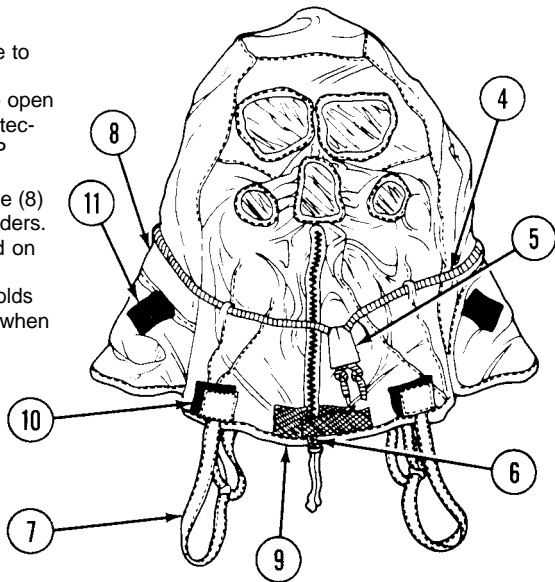
- The ABC-M6A2 hood is made of rubber-coated fabric, which protects the neck and areas of head not covered by your facepiece against CB agents.
- Eyering openings (1), voicemitter-outlet valve assembly cover opening (2), and inlet valve assembly openings (3) provide unobstructed vision and breathing.



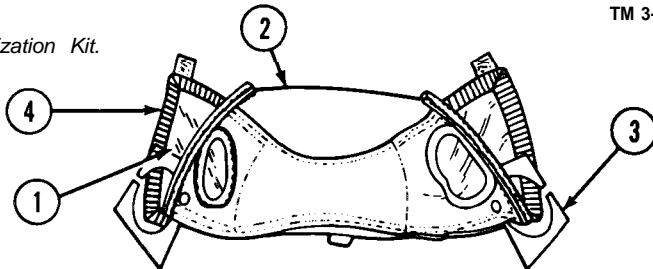
2-3. DESCRIPTION OF ADDITIONALLY AUTHORIZED ITEMS (APP C) (CONT).

a. ABC-M6A2 Hood (Cont)

- Cord (4) draws the hood close to neck by using slider (5).
- Zipper (6) permits the hood to open for ventilation or close for protection in accordance with MOPP requirements.
- Underarm straps (7) keep cape (8) and bib (9) down on the shoulders. Underarm straps are fastened on fastening cloth (10).
- Hook and pile fastener (11) holds the hood open for ventilation when MOPP permits



b. M4 Winterization Kit.



- The M4 kit is worn when the temperature is 20° F (-7°C) or below. However, the kit may be used when the temperature is above 20°F (-7°C), or if temperatures are expected to drop to that level.
- Prefilter (1) prevents frost from accumulating on inlet valve assemblies during subzero weather.
- Tape (2) positions on top of voicemitter-outlet valve assembly cover to assist in alining prefilter (1).
- Retainers (3) lock prefilter (1) to the inlet valve assemblies.
- The M4 kit is stored in the inside pocket of the carrier.
- Hook and pile fastener (4) holds prefilter (1) in position over the facepiece inlet valve assemblies, and retainers (3).
- The M4 kit is a close-fit on a facepiece with the M6A2 hood installed. Some time and care must be spent fitting the kit retainers (3) around the inlet valve assemblies.

2-3. DESCRIPTION OF ADDITIONALLY AUTHORIZED ITEMS (APP C) (CONT).

c. *Optical Inserts.*

WARNING

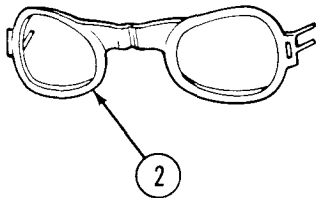
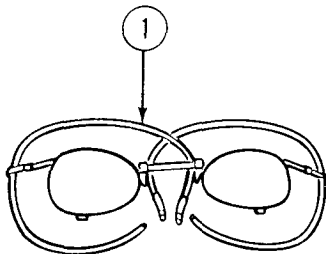
Do not wear contact lenses when wearing optical inserts. Contact lenses will overcorrect vision while wearing optical inserts.

- Optical inserts are available by medical prescription for personnel who must wear glasses.
- Wire frame optical inserts (1) fit M17 and M17A1/M17A2 masks.

NOTE

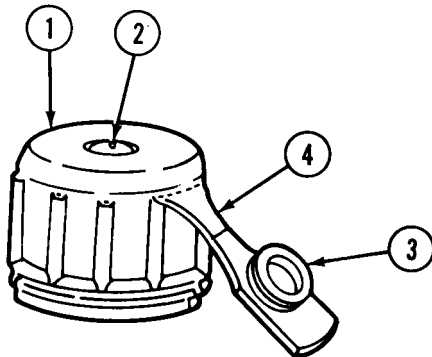
Wire frame inserts have small screws that may become loose. If they do ask a technician in your troop medical unit to tighten them and apply a drop of adhesive or clear nail polish to prevent screws from loosening again.

- Prong type optical inserts (2) with plastic frames fit only the M17A1/M17A2 masks.



d. *M1 Water Canteen Cap*

- This special canteen cap (1) is made of black plastic.
- Cap has an inlet hole (2) for insertion of quick disconnect coupling half connecting facepiece to canteen, allowing you to drink water.
- When the cap is not being used, inlet hole (2) is covered by protective cover (3), which is connected to the cap by a flexible plastic hinge (4).



2-3. DESCRIPTION OF ADDITIONALLY AUTHORIZED ITEMS (APP C) (CONT).

e. *M1A1 Waterproof Bag.*

WARNING

Because of possible toxic effects, this bag should not contact food

CAUTION

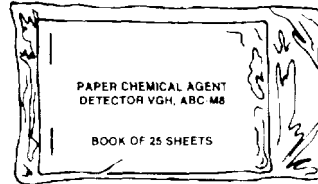
Storage of facepiece in this bag can degrade its protective capability. Use bag only for brief periods to protect facepiece from immersion in water, such as when fording streams. Remove facepiece from bag as soon as protection is no longer required.

- Keeps facepiece dry when required by climate and mission.
- Made of heavier plastic than M1 waterproof bag.
- Snap fastener for closure.
- Stowed in carrier.



f. *M8 Chemical Agent Detector Paper*

- Consists of a book of perforated sheets of chemically treated, dye-impregnated paper. A color comparison bar chart is printed inside the front cover.
- Chemicals in the paper cause specific color changes when paper contacts liquid nerve or blister agents.
- Instructions on how to use the M8 paper are found on the cover of book containing the detector paper
- The M8 paper is stored in the lower outside pocket of carrier if there is room

g. *M258A1 Decontaminating Kit*

- Consists of six packets in a plastic case
- Three packets contain gauze pads soaked with decontamination solution Three packets contain gauze pads and glass capsules filled with decontamination solution
- The M258A kit is used to decontaminate skin and individual equipment.
- Instructions for use are printed on the container and packets Refer to TM 3-4230-216-10.



Section II. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

2-4. GENERAL.

- a. *Before you Operate.* Always keep in mind CAUTIONS and WARNINGS. Perform your BEFORE PMCS on all missions.
- b. *After you Operate.* Be sure to perform your AFTER PMCS on all missions.
- c. *Weekly (in combat situations).* Be sure to perform your WEEKLY PMCS in combat-ready situations only.

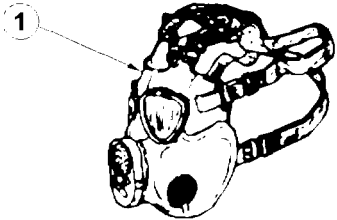
2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS).

The operator must perform scheduled services to ensure the mask will operate properly. The PMCS table lists required checks and services that must be done to ensure accurate performance of the mask and additionally authorized (AAL) items. The first column contains the item number which shall be used as a source of item numbers for the TM number column on DA Form 2404; the second column contains the PMCS interval; the third column contains the item to be inspected; the fourth column contains the inspection procedures; and the fifth column contains conditions under which the mask and AAL items are to be reported not ready.

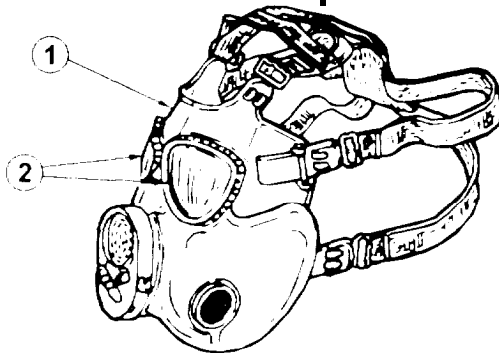
NOTE

Within designated interval, the checks in the following table are to be done in the order listed.

2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS).

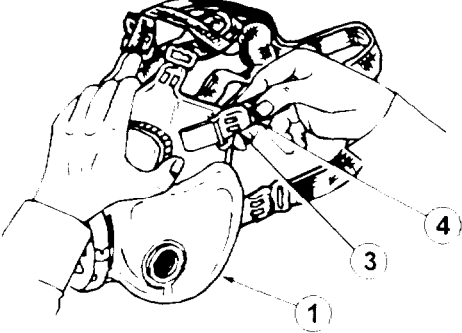
Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
1	AFTER, WEEKLY	FACEPIECE ASSEMBLY	<p>a. Visually inspect outside and Inside surfaces of facepiece (1) for dirt, mud and greasy or oily substances.</p> 	Dirt affecting mask fit or seal.

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
	AFTER, WEEKLY		d. Check rubber next to eyelenses (2) to be sure neither eyelens will pull away from facepiece (1).	Eyelens pulls away from facepiece.

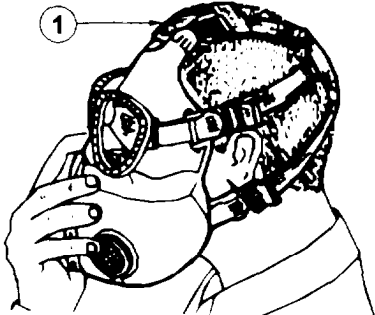


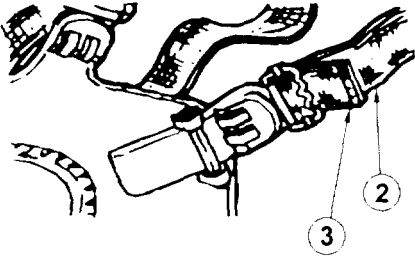
2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) (CONT).

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
1 (cont)	BEFORE, WEEKLY		<p style="text-align: center;">NOTE</p> <p>Dry rot in head harness tabs is not cause for rejection if pull check is withstood.</p> <p>e. Check for dry rot in head harness tabs. Hold facepiece as illustrated Grasp metal clip and buckle assembly (3) and inside flange of rubber tab (4) between thumb and forefinger. Pull on rubber tab (4) until it extends 1/2 inch to 3/4 inch (1.3 cm to 1.9 cm) from normal position.</p>	Pull check is not withstood.

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
	WEEKLY		 <p data-bbox="765 553 1107 692">f. Check rest of facepiece (1) for stiff areas which crumble when rubbed between fingers, and exhibit cracks that expand when the rubber is stretched.</p>	Facepiece has areas of dry rot.

2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) (CONT).

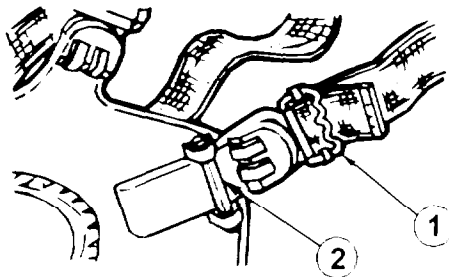
Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
2	BEFORE, AFTER, WEEKLY	HEAD HARNESS	a. Put on facepiece and check head harness (1) for loss of elasticity 	Head harness will not hold facepiece firmly against face.

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
	AFTER, WEEKLY		b Check for dirt, check straps (2) for cuts, tears, missing metal clip ends (3), or deterioration such as mildewing or fraying.  A line drawing of a head harness strap. A hand is shown holding the strap. Two callout circles are present: circle '2' points to a metal clip on the strap, and circle '3' points to the end of the strap where the clip is attached. The strap shows signs of wear, including fraying and a tear.	Head harness has cuts, frayed areas, has missing clip ends, or has deterioration.

2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) (CONT).

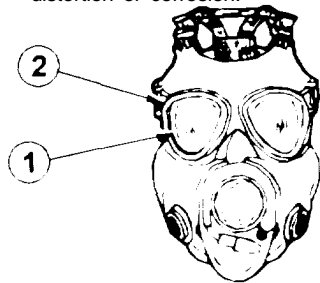
Item No	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
3	AFTER, WEEKLY	CLIP AND BUCKLE ASSEMBLY	<p>CAUTION</p> <p>Over a period of time, copper poisoning migrating into the facepiece from a clip and buckle assembly will make the entire facepiece unserviceable.</p> <p>a. Make sure finish (lacquer) on clip and buckle assembly (1) covers all clip and buckle assembly surfaces in contact with rubber.</p>	<p>Finish (lacquer) is missing at point of rubber contact. rubber is soft or sticky, the mask will not properly seal.</p>

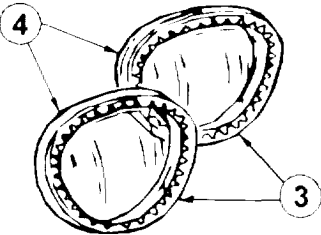
Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
	BEFORE, AFTER, WEEKLY		b. Check for missing or broken clip and buckle assemblies (1).	Clip and buckle assemblies are missing or broken.
4	AFTER, WEEKLY	TEMPLE PINS	Check for broken or missing temple pins (2)	Temple pin is missing or broken



2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) (CONT).

Item No	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable li:
	AFTER, WEEKLY	EYELENS, EYERINGS, AND EYELENS OUTSERTS	a. Check eyelenses (1) for cracks, cuts, scratches, or discoloration that affects vision.	Vision is affected by eyelenses that are racked, cut, scratched, or discolored.
	AFTER, WEEKLY		b. Check eyerings (2) for distortion or corrosion.	Eyering are bent or corroded.



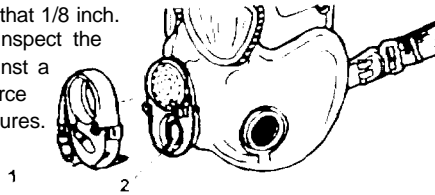
Item No	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
	AFTER, WEEKLY		<p>c. Check eyelens outserts (3) for cracks, chips, or discoloration affecting your vision Check rubber rings (4) for tears, looseness, brittle spots, soft or sticky spots, or cracked rims.</p> 	Eyelens outserts are broken, distorted, or discolored Rubber rings are torn, loose, or deteriorated.

2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) (CONT).

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
6	BEFORE, AFTER, WEEKLY	VOICEMITTER-OUTLET VALVE ASSEMBLY AND VOICEMITTER-OUTLET VALVE ASSEMBLY COVER	<p>WARNING</p> <p>Do not use facepiece if outlet valve disk is missing or damaged. The facepiece will leak.</p> <p>CAUTION</p> <p>Do not overly stretch the outlet valve disk or they will tear.</p> <p>a. Remove cover (1) (para 3-5). Check to see that outlet valve disk (2) is present and is not dusty, dirty, or wet Carefully remove any dust, dirt or debris with a damp lint-free cheesecloth (item 5, App D). Remove excess moisture with dry cheesecloth.</p>	Outlet valve disk is missing or cannot be properly cleaned and dried.

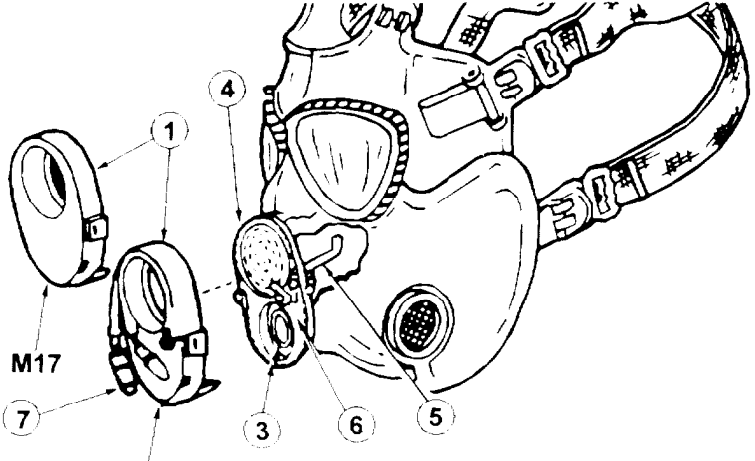
2-28 Change 3

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
	BEFORE WEEKLY		<p>b. Rotate outlet valve disk (2) to make sure it does not stick. Examine the outlet valve disk (2) for proper seating and check for sticky rubber, dirt, creases, spots, indentations, cracked or curled disks, tears or cuts. If they appear, carefully remove the outlet valve disks (2), and very carefully stretch the disks no more than 1/8 inch. Visually inspect the disk against a light source for punctures.</p>	<p>Outlet valve disk will not seat properly or is sticky cracked, curled, torn or cut.</p>



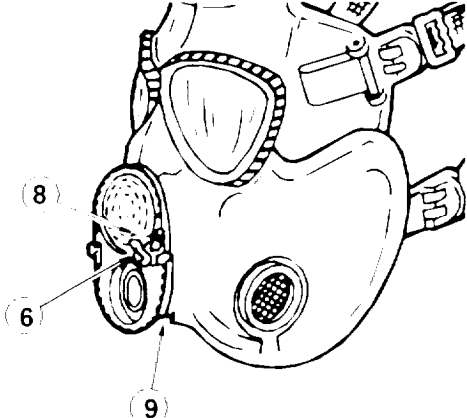
2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) (CONT).

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
6 (cont)	AFTER, WEEKLY AFTER, WEEKLY AFTER AFTER		Check outlet valve seat (3) for dirt d. Check cover (1) for cuts, tears, or holes. e. Check voicemitter housing (4) for cracks, drink tube (5) and drinking lever (6) for distortion damage, which may cause a leak path. Perform leak checks IAW para 2-8 thru 2-11. Check quick-disconnect coupling half (7) for damage or clogged opening.	Outlet valve seat is dirty. Cover has cuts, tears, or holes. Voicemitter housing is dented, cracked or twisted Drinking tube control lever bent and is not perpendicular to voicemitter or loose in its mounting. Coupling is crushed or opening is clogged with mud or dirt.

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
		 <p>M17 M17A1/M17A2</p>		

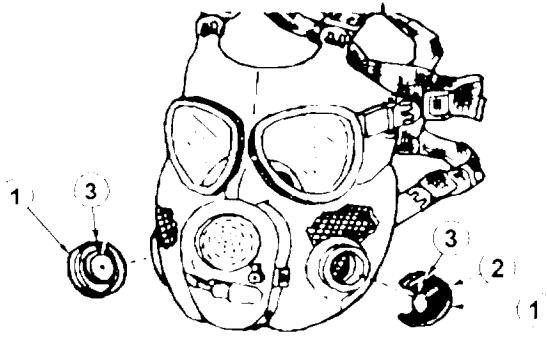
2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) (CONT).

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
6 (cont)	AFTER AFTER		g. Inspect voicemitter outlet valve assembly for missing cover studs (8) or bent crimping ring (9). h. Inspect M17A1/M17A2 mask for damaged or missing drinking lever (6). NOTE Mask must be turned in for a new mask if drinking lever is missing.	Cover studs are missing, or crimping ring is bent Drinking lever is damaged, missing, or drinking tube does not operate when lever is moved.

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
	AFTER, WEEKLY		 <p data-bbox="943 712 1292 774">Install voicemitter outlet valve assembly cover (para 3-5).</p>	

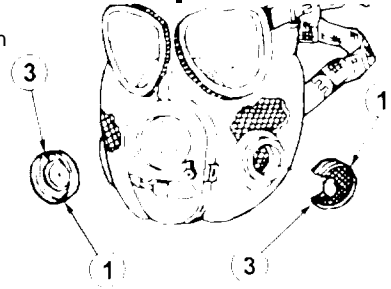
2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) (CONT).

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
7	<p>BEFORE, WEEKLY</p> <p>BEFORE, AFTER, WEEKLY</p>	INLET VALVE ASSEMBLIES	<p>WARNING</p> <p>Do not use facepiece if inlet valve assemblies or inlet valve disks are missing. Facepiece may leak.</p> <p>a. Check that inlet valve assemblies (1) are in place and mesh (2) is not worn or torn.</p> <p>b. Remove inlet valve assemblies (1) (para 3-3) and check that inlet valve disks (3) are present.</p>	<p>Inlet valve assemblies are missing or mesh is worn or torn.</p> <p>Inlet valve disks are missing.</p>

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
	BEFORE, AFTER, WEEKLY		<p>c. Rotate inlet valve disks (3) to make sure they are not stuck and are seated properly.</p> 	Inlet valve disks are stuck, or not properly seated.

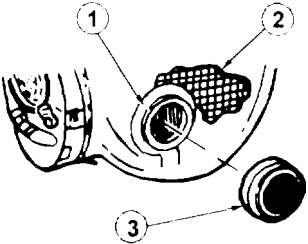
Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
			<p style="text-align: center;">NOTE</p> <p>The word TOP may be missing or Incorrectly positioned. Exact lop may be marked with a white dot See para 3-3 for removal and installation of inlet valve assemblies.</p>	

Item No	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
	BEFORE, AFTER, WEEKLY		<p>Check that both inlet valve assemblies (1) are installed with the word TOP, or white dot, on the top of the inlet valve assembly rim, and with the louvers horizontal and slanted downward when the facepiece is in the as-worn position (para 3-3).</p>	<p>Inlet valve assemblies are missing or improperly installed.</p>

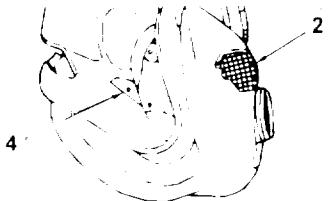


2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) (CONT).

Item No	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
8		FILTER ELEMENTS	<p>WARNING</p> <p>Dirt or other foreign material on the connectors (1) of filter elements (2). mating surfaces of the facepiece, or trapped between these surfaces lets contaminated air into your facepiece.</p>	

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
	WEEKLY		<p>a. With inlet valve assemblies (3) removed (para 3-3), check filter elements (2) for loose connectors (1) and check connector (1) surfaces for dirt or other foreign material.</p>  <p>The diagram shows a cross-section of a mechanical inlet valve assembly. Callout 1 points to a circular connector on the left side of the main housing. Callout 2 points to a mesh filter element located inside the housing. Callout 3 points to a separate cylindrical component, likely the inlet valve assembly mentioned in the text, shown below the main housing.</p>	Filter element connectors are loose, or have dirty surfaces.


2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) (CONT).

Item No	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
8 (cont)	BEFORE WEEKLY		<p style="text-align: center;">NOTE</p> <p>Flap buttons may be lubricated by moistening with water to ease buttoning</p> <p>b. Check that filter elements (2) are properly Installed. and that pouch flaps (4) are buttoned</p> 	Filter elements are not properly Installed or pouch flaps are not buttoned.


Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
	<p>WEEKLY</p> <p>BEFORE, WEEKLY</p>		<p>c. Install inlet valve assemblies (para 3-3).</p> <p>d. Put on facepiece (para 2-8). Check for excessive resistance to breathing. Filter elements (2) may be clogged with dust.</p> <p style="text-align: center;">NOTE</p> <p>Refer to paragraph 2-6 for filter element replacement criteria. Replacement will be done under supervision of your unit NBC NCO.</p>	<p>Filter elements are clogged with dust.</p>

2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) (CONT).

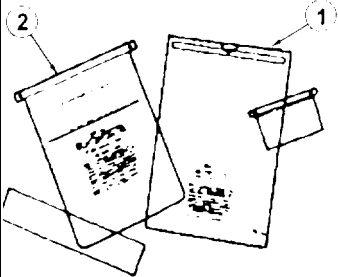
Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
9	<p>AFTER. WEEKLY</p> <p>AFTER, WEEKLY</p> <p>AFTER WEEKLY</p>	NOSECUP ASSEMBLY	<p>a. Check that nosecup assembly (1) is buttoned over long flap buttons (2). Check for torn buttonholes or missing buttons. Make sure chin portion of nosecup assembly lies over chin stop (3).</p> <p>b. Check nosecup assembly (1) and nosecup valve seats (4) for dirt.</p> <p>c. Check that nosecup assembly (1) is not pulled away from voicemitter-outlet valve assembly.</p>	<p>Nosecup assembly is not buttoned or flap buttons are missing. Buttonholes are torn through edge of flap or torn so button will not hold flap securely in place.</p> <p>Nosecup assembly or nosecup valve seats are dirty.</p> <p>Nosecup assembly is pulled out of voicemitter-outlet valve assembly.</p>

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
	<p data-bbox="483 213 590 288">BEFORE, AFTER, WEEKLY</p> <p data-bbox="483 508 590 560">AFTER, WEEKLY</p>		<p data-bbox="807 213 1157 365">d. Check that nosecup valve disks (5) are present. Rotate nosecup valve disks to be sure they are not stuck, and check that valve disks are not curled, discolored, or dirty.</p>  <p data-bbox="830 513 1143 742">Examine nosecup valve disks (5) for creases, spots, or indentations. If they appear, carefully remove nosecup valve disks (5), and very carefully stretch the disks no more than 1/8 inch. Visually inspect the disks against a light source for punctures.</p>	<p data-bbox="1178 213 1400 365">Nosecup valve disks we missing, stuck, or not properly seated. valve disks are curled, discolored, or dirty.</p> <p data-bbox="1178 508 1400 560">Nosecup valve disks are punctured or torn.</p>

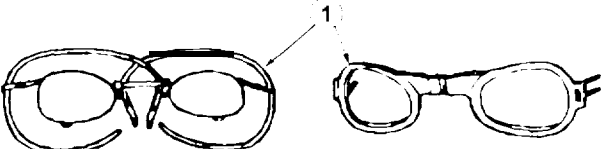
2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) (CONT)

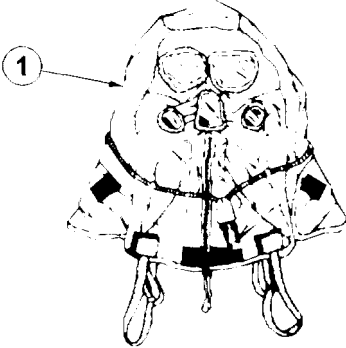
Item No	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
Text	<p>AFTER, WEEKLY</p> <p>AFTER, WEEKLY</p> <p>AFTER, WEEKLY</p>	CARRIER	<p>a. Empty carrier (1) and check for dirt, sharp edges, torn straps missing hardware or torn fabric.</p>  <p>b. Visually check for mildew or oily substances on carrier (1).</p> <p>c. Check that no pen or pencil markings are on the carrier except those changing the size or model numbers to reflect true description of mask.</p>	<p>Straps are torn fabric is torn, or hardware is missing. There are sharp edges inside the carrier which could damage the mask.</p> <p>Mildew is present or oily substances have penetrated carrier walls.</p>

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Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
11	AFTER, WEEKLY	M1 WATERPROOF BAG	<p>Check M1 waterproof bag (1) or M1A1* waterproof bag (2) for cracks, tears, holes, and brittleness.</p>  <p>*May be authorized</p>	Waterproof bag is missing, torn, or has holes.

2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) (CONT).

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
12	BEFORE, WEEKLY	ADDITIONALLY AUTHORIZED ITEMS OPTICAL INSERTS	<p>Inspect optical inserts (1), if issued, for broken lens, frame, or pins are disconnected from facepiece.</p> <p style="text-align: center;">NOTE</p> <p>If lens or frame is broken replace (app c).</p> <div style="text-align: center;">  </div>	Lens or frame is broken, or pins are disconnected.

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
13	BEFORE, AFTER, WEEKLY	ABC-M6A2 HOOD	<p>a. Examine hood (1) (not in front of a light source) for the defects listed in the following steps b thru f.</p> 	Hood has more than two pin holes in any one panel.

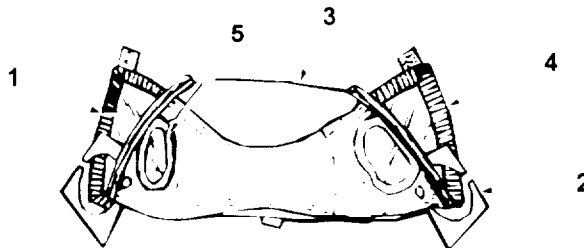
2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) (CONT).

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
13 (cont)			<p style="text-align: center;">NOTE</p> <p>Needle holes at the seams are acceptable.</p> <p>b. Cuts, holes, or tears.</p> <p>c. Sticky or gummy area.</p> <p>d. Peeled or worn coating.</p> <p>e. Straps, cord, or hardware is missing, frayed, or torn.</p>	<p>Hood has cuts, holes, or tears.</p> <p>Fabric is sticky, gummy peeling, or worn.</p> <p>Straps, cord, or hardware is missing, frayed, or torn.</p>

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
			<p>Zipper is torn, broken, or inoperative.</p> <p>NOTE</p> <p>Hoods that are unserviceable for combat or toxic agent protection may be used for training purposes, provided the training does not involve the use of toxic agents. These hoods must be identified for training use only, so that they will not be used in combat. Identification for training use only will be according to local SOP. If hood is totally unserviceable, replace hood, (app C).</p>	<p>Zipper is torn, broken, or inoperative.</p>


2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) (CONT).

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
14	AFTER, WEEKLY	M4 WINTERIZATION KIT	<p>Check prefilter (1) for dirt or tears. Check retainers (2) for cracks. Check that tape (3) is secured at top of winterization kit. Check that hook and pile fasteners (4) will secure prefilter cheek flaps over inlet valve openings (5).</p>	Winterization kit has cracked retainers or torn prefilters.

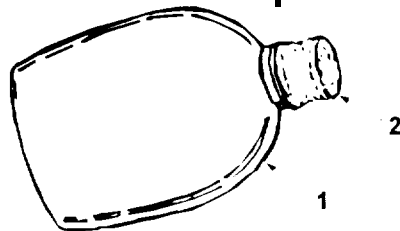


Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
15	BEFORE, AFTER, WEEKLY	M8 CHEMICAL AGENT DETECTOR PAPER	Check M8 paper (1) for dampness or water damage.	M8 paper is damp or water damaged.

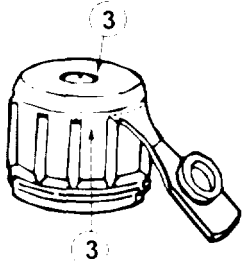
2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) (CONT)

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
16	BEFORE, AFTER, WEEKLY	M256A1 DE-CONTAMINATING KIT	<p data-bbox="833 215 1161 332">Refer to TM 3-4230-216-10 for complete instructions on the M258A1 and M58A1 decontaminating kits.</p> 	

Item No.	Interval	item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
17	<p>BEFORE, AFTER, WEEKLY</p> <p>BEFORE, AFTER, WEEKLY</p>	CANTEEN AND M1 CAP	<p>a. Inspect canteen body (1) for cracks or holes.</p> <p>b. Check canteen neck lip or cap mating surfaces (2) for cracks, chips, or deformities.</p>	<p>Cracks or holes in canteen body.</p> <p>Cracked or deformed canteen neck or chipped mating surfaces.</p>



2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) (CONT).

Item No.	Interval	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
17 (cont)	BEFORE AFTER, WEEKLY		<p>c. Inspect M1 cap's mating surfaces (3) with the canteen and quick-disconnect coupling for dirt, rust deformity, cracks, or chips.</p> 	Cap deformed cracked, chipped mating surfaces, rusty, or jammed with dirt.

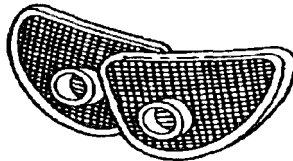
2-6. FILTER ELEMENT REPLACEMENT CRITERIA.

WARNING

When changing contaminated filter elements, wear protective mask and clothing according to your unit SOP.

NOTE

Filter element replacement will be done under supervision of your unit NBC NCO. Install only matched sets of the same lot number. Filter elements are marked either right or left, and must be identically matched by the lot number embossed on the filter elements edge along with color matched connectors. The airflow resistance marking on the edge of filter element must not differ more than ± 5 mm to have a matched set.



2-6. FILTER ELEMENT REPLACEMENT CRITERIA (CONT).

a. Combat zone, rapid deployment assignment (24 hours or less), and special mission (e.g., explosive ordnance disposal, technical escort, chemical or nuclear accident response teams, surety sites) units replace filter elements if one or more of the following conditions exist:

(1) See table on following page for peacetime filter element replacement intervals, by climate, for the above type units only.

(2) Filter elements have been immersed in water.

(3) Filter elements have splits or cuts in filter or edge seal, or a bent or split connector.

(4) Filter elements have been crushed.

(5) You feel excessive resistance to breathing, and inspection shows that the filter elements are clogged.

(6) Unit maintenance informs you that the filter element has been reported as unserviceable in SB 3-30-2.

(7) Unit Commander directs replacement of filter elements.

(8) Every 30 days after exposure to toxic agents and after each confirmed attack with blood agents.

(9) in an area where no chemical attacks have occurred, and there is a blood agent threat, replace filters in accordance with the table below:

M13A2 FILTER ELEMENTS REPLACEMENT INTERVALS BY CL/MATE

Climate	Replacement Intervals (Weeks)*
Hot Humid	10
Hot Dry	39
Warm Moderate	52
Cold Humid	52

*Filter elements that exceed these intervals remain serviceable for training only.

(10) In an area where no chemical attacks have occurred, and no blood agent threat exists, replace the filter annually.

b. For all other units not defined in step a replace filter elements if one or more of the following conditions exist:

- (1) Upon notification of deployment into a combat zone.
- (2) Same as step a.(2) thru a.(10).

2-6. FILTER ELEMENT REPLACEMENT CRITERIA (CONT).

c. Turn in damaged or unusable filters to your Hazardous Waste Management Office or Defense Reutilization and Marketing Office (DRMO).

d. Refer to the table below when replacing filter elements in your facepiece.

SPECIFICATION FOR FILTER ELEMENTS

Filter Element Model Number	National Stock Number	Connector Color	Useable For
M13A2	4240-00-165-5026	Green	All known CB agents and riot control agents

*Refer to SB 3-30-2 for latest information.

Section III. OPERATION UNDER USUAL CONDITIONS

2-7. GENERAL.

WARNING

DS2 can damage the voicemitter of the mask. If the voicemitter has been contaminated with DS2, immediately splash the voicemitter three times with clean water. Do not wet the filter elements.

This section contains operator's instructions to put on and use the mask and additionally authorized items under normal conditions. For operation under unusual conditions, see paragraphs 2-22 thru 2-26.

2-8. PUTTING ON YOUR FACEPIECE FOR FIT AND LEAK CHECK.

NOTE

A trained unit NBC NCO will supervise size selection and initial fitting of your facepiece. However, it's your responsibility to make sure your facepiece fits properly, has a good seal, and is as comfortable as possible. Your NBC NCO has already adjusted your forehead and temple straps at the initial fitting. Do NOT change their adjustment. If adjustments become altered see your NBC NCO.

- a. Loosen cheek straps within 1 inch (2.5 cm) of metal clip ends.
- b. If you are wearing them, remove headgear and eyeglasses.

Change 1

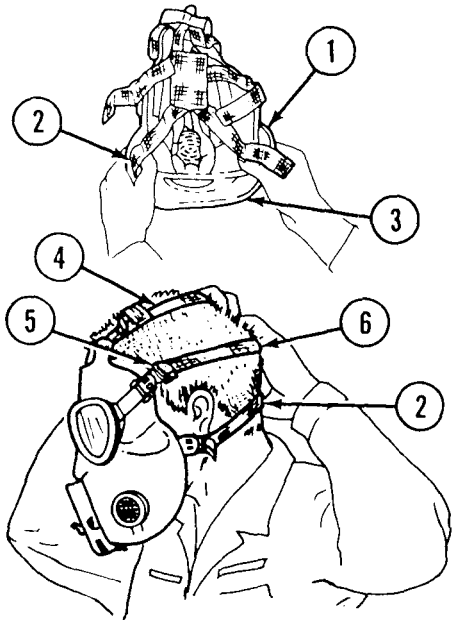
2-57

2-8. PUTTING ON YOUR FACEPIECE FOR FIT AND LEAK CHECK (CONT).

NOTE

Illustrated without hood for clarity.

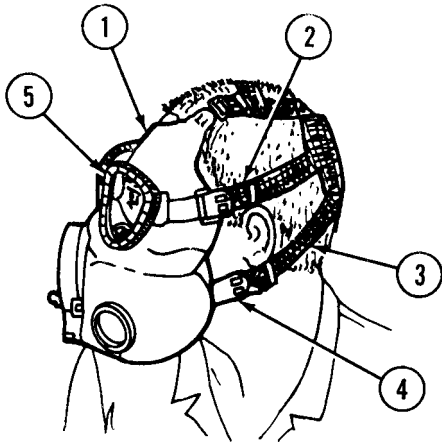
- c. Open facepiece assembly (1) with thumbs under cheek straps (2).
- d. Put chin in facepiece chin pocket (3).
- e. Using both hands, slip head harness (4) over your head as you pull facepiece up onto your face. Be sure your ear is between temple straps (5) and cheek straps (2), and that head pad (6) is centered on the back of your head.
- f. Grasp cheek straps (2) with both hands and adjust with a short jerky motion.



2-9. CHECKING THE FIT OF YOUR FACEPIECE.

Check for proper fit according to the following criteria:

- Edge (1) of facepiece comes well up on your forehead, but not into the hairline, and within 1 inch (2.5 cm) of your ear.
- Temple straps (2) and cheek straps (3) do not cut into your ears.
- Head harness straps are flat against head, and are in a straight line with tabs (4).
- Pupils of your eyes are near center of eye-lenses (5).
- Facepiece does not press flesh so tightly that eyes partly close.
- Facepiece does not leak around edges (para 2-10).

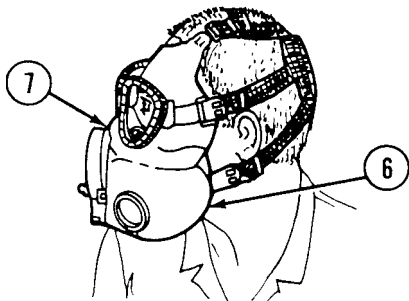


2-9. CHECKING THE FIT OF YOUR FACEPIECE (CONT).

- g. Bottom (6) of facepiece does not cut into your throat.
- h. Nosecup assembly (7) does not obscure your vision, or press painfully on your nose.

NOTE

If your facepiece does not fit properly, contact your unit NBC NCO for fitting with another size facepiece.



2-10. CHECKING YOUR FACEPIECE FOR LEAKS.

WARNING

The facepiece must be checked for leaks when it is initially fitted and each time it is used. A leaky facepiece will not protect you from toxic agents.

Keep face clean shaven An unshaven face could cause a bad seal between face and facepiece.

Female soldiers shall remove all harpins, combs, hair knots, buns, or braids that will interfere with facepiece seal.



- a. Press your palms firmly over inlet valve assemblies (1) at the sides of facepiece. Do not press so hard that you distort facepiece and cause leaks.

2-10. CHECKING YOUR FACEPIECE FOR LEAKS (CONT).

NOTE

Time specified in step b is for leak check procedure only, and is not used when donning your facepiece during training or combat

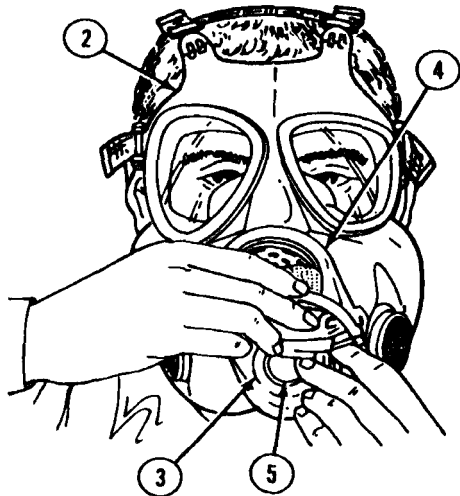
- b. Then inhale lightly and hold your breath for approximately 10 seconds. Note the following:
 - (1) If facepiece (2) collapses and remains collapsed during this time, your facepiece is effectively airtight.
 - (2) If facepiece (2) does not collapse and remain so, locate and correct leak by doing the following steps as necessary
- c. Leaks around the edge of your facepiece are usually caused by Improper fit or the wrong size. You may find a leak by feeling in commg air on your face. or you may feel a bulge at the edge of your facepiece with your finger, or a buddy may see a bulge. Contact your NBC NCO for fitting with correct size facepiece.

d. An air leak may be caused by an outlet valve (3) that is faulty or held open by dirt. Do the following steps:

- (1) Breathe out forcefully several times; this will usually remove the dirt.
- (2) If not, pull up voicemitter-outlet valve assembly cover (4), lift up outlet valve disk (5), and carefully wipe underside of outlet valve disk (5) with a damp lint-free cheesecloth (item 5, app D). Remove excess moisture with a dry cheesecloth.
- (3) If outlet valve disk (5) is sticking, massage lightly with one finger.

NOTE

If you still have a bad seal and cannot stop the leak, see your NBC NCO for assistance.



2-11 CHECKING DRINKING SYSTEM FOR LEAKS (M17A1/M17A2 ONLY).

WARNING

Drinking tube is inoperable when drinking tube lever parts are missing or bent more than 1/8 inch off center, if gaps are between metal seal and voicemitter plate, and retaining nut is loose, turn in your mask.

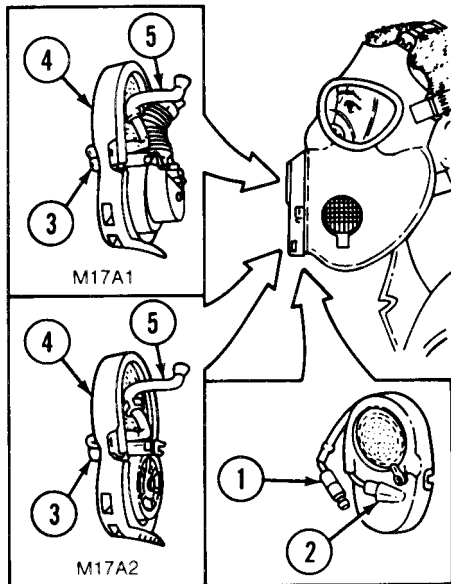
- a. Steady facepiece, withdraw quick disconnect coupling half (1) from pocket (2), and let it hand freely.
- b. Open your mouth and turn lever (3) all the way toward voicemitter (4).



WARNING

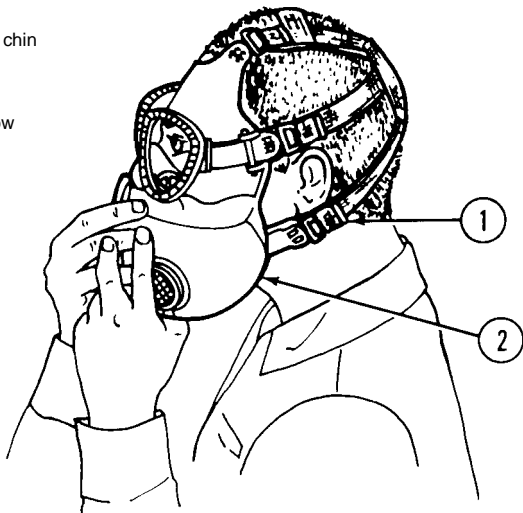
If resistance is not felt when checking drinking system, your drinking system leaks. Do not drink, get a new mask.

- c. Keeping lever (3) turned, hold drinking mouthpiece (5) between your teeth and blow into drinking mouthpiece (5). You should feel positive pressure (resistance). If not, drinking system is defective and mask must be replaced.
- d. Release drinking mouthpiece (5), and return lever (3) to vertical position.
- e. Return quick disconnect coupling half (1) to pocket (2), and press tube into channel.



2-12. REMOVING YOUR FACEPIECE.

- a. Roll cheek strap clip and buckle assemblies (1) forward to relieve tension.
- b. Grasp facepiece with both hands at chin pocket (2). Pull facepiece out, away from face, and then up to remove.
- c. Install your hood (para 2-20) and stow facepiece with hood in carrier (para 2-17).



2-13. MARKING YOUR FACEPIECE FOR IDENTIFICATION.

NOTE

Although a mask will be used only by the individual to whom it is issued and fitted, do not make permanent identification markings on either the facepiece or carrier (AR 700-84).

- a. Under supervision of your unit NBC NCO, attach a removable tape or tag marked with your name or a code number to your mask carrier.
- b. The code number may include date the facepiece was fitted and tested. Code number must not identify parent organization or be similar to a neighboring unit.

2-14. PUTTING ON YOUR FACEPIECE, WITH HOOD, IN TRAINING OR COMBAT.

WARNING

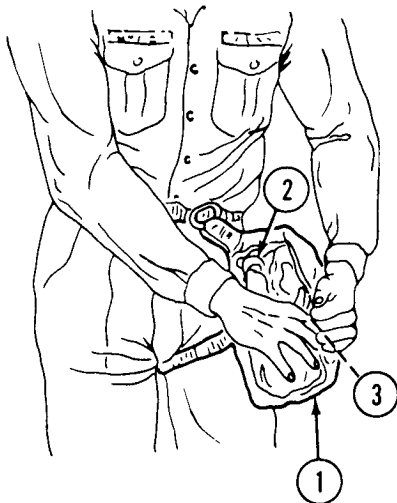
Stop breathing when putting on your facepiece assembly. Toxic agents maybe in the surrounding air. Do the steps for putting on your facepiece quickly. The facepiece must be on before taking another breath. No one should be wearing contacts.

2-14. PUTTING ON YOUR FACEPIECE, WITH HOOD, IN TRAINING OR COMBAT (CONT).

CAUTION

Care must be taken not to scratch the clear plastic eyelenses when handling the facepiece.

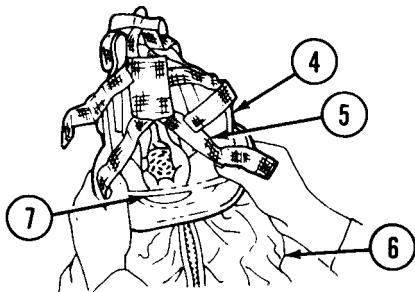
- a. Stop breathing.
- b. Remove your headgear. Put headgear between your legs (above the knees), or hold your rifle between your legs and put headgear on the muzzle. If you drop your headgear, keep on masking; you can pick up your headgear later.
- c. If you are wearing them, take off and stow your glasses.
- d. With your left hand, open carrier (1) and hold it open.
- e. With your right hand, grasp facepiece (2) just below eyelenses (3) and remove from earner (1).



CAUTION

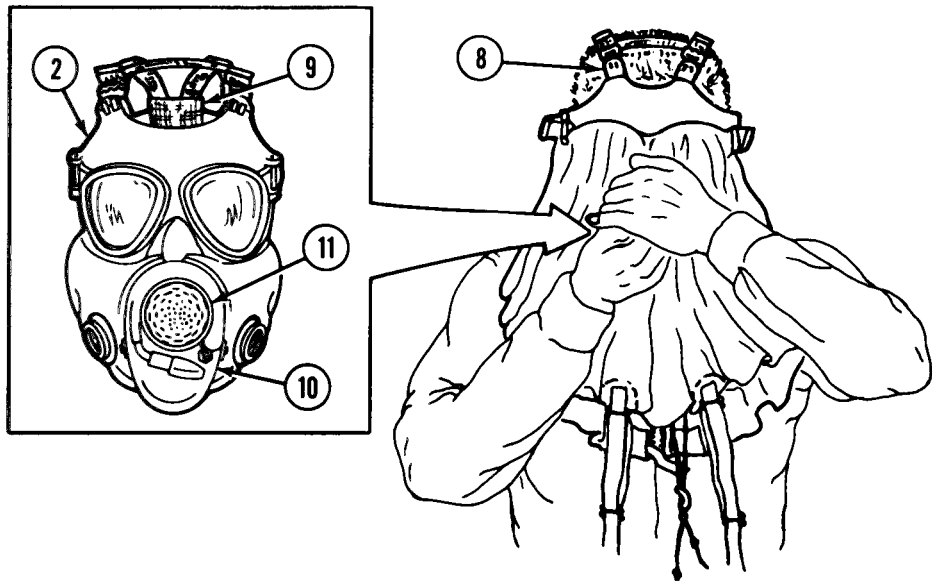
Do not snap facepiece assembly (4) wide open, especially in freezing temperatures. This may damage the facepiece. Open facepiece assembly (4) gently.

- f. Grasp the left side of facepiece assembly (4) with the left hand, and grasp the right side with the right hand. Slip the thumbs under cheek straps (5), and open facepiece assembly (4). Allow hood (6) to hang inside out in front of facepiece.
- g. Put your chin in chin pocket (7).



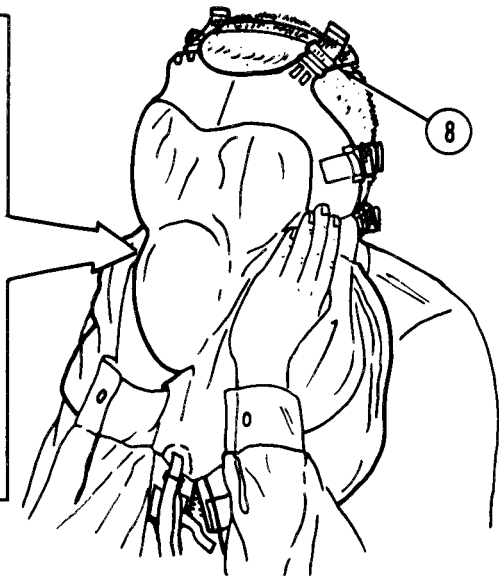
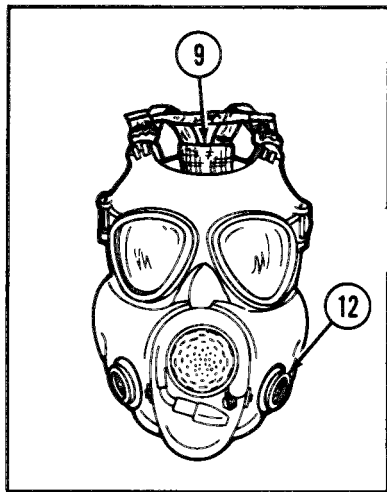
2-14. PUTTING ON YOUR FACEPIECE, WITH HOOD, IN TRAINING OR COMBAT (CONT).

- h. Pull head harness (8) up over your head, Make sure head pad (9) is centered at the top back of your head, and facepiece (2) is smooth against your face and forehead.
- i. Grasp cheek straps with both hands, and adjust with a short jerky motion
- j. Position hand(s) to clear facepiece (2). Seal voicemitter-outlet valve assembly cover (10) and voicemitter (11) by cupping the heel of one hand over voicemitter-outlet valve assembly cover (10) and the other over voicemitter (11), and applying pressure.
- k. Forcefully expel the air held in your lungs so that it escapes around the edges of facepiece (2) You should feel the air escaping around the edges of the facepiece.



2-14. PUTTING ON YOUR FACEPIECE, WITH HOOD, IN TRAINING OR COMBAT (CONT).

- l. Seal inlet valve assemblies(12) by placing the palms of your hands over them and applying pressure
- m. Inhale your breath and hold lf. If there are no leaks, your facepiece will cave towards your face and stay that way until you breathe out If your facepiece has no leaks, go to step p If your facepiece does not cave in, stop breathing and do the following:
 - (1) Check for hair or clothing between your face and the facepiece.
 - (2) Remove anything that will keep the facepiece from sealing against your face.
 - (3) Make sure head harness (8) and head pad (9) are not twisted Tighten head harness straps, if necessary.
- n. Clear your facepiece again (steps j and k).
- o. Recheck your facepiece for leaks (steps l and m).
- p. Start breathing normally.



2-14. PUTTING ON YOUR FACEPIECE, WITH HOOD, IN TRAINING OR COMBAT (CONT).

- q. Carefully pull the back of the hood over the head so that the hood covers the head, neck, and shoulders.
- r. Zip the front closed and fasten tab (13).

NOTE

Have a buddy check to see if neck cord (14) is around the back of your neck.

- s. Pull slider (15) snug.

NOTE

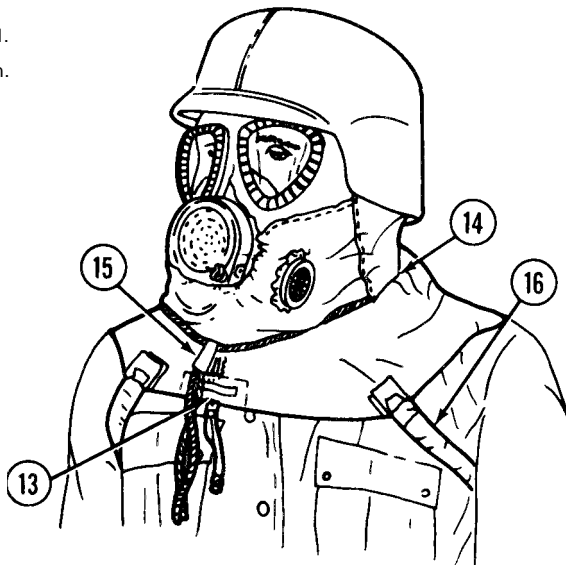
After you have adjusted the underarm straps on your hood, do not loosen them.

- t. Fasten and adjust underarm straps (16). If unable to fasten, ask a buddy for help.
- u. Check zipper, tab, slider, and underarm straps to make sure that they are properly secured.

WARNING

Be careful not to break the seal between your hood and facepiece and the side of your face when putting on your headgear. This could cause leakage of toxic agents into facepiece assembly.

- v. Put on headgear.
- w. Snap carrier closed.
- x. Continue your mission.



2-15. CONNECTING AND USING M17A1/M17A2 MASK DRINKING SYSTEMS.

WARNING

Do not connect the quick disconnect coupling half to your canteen until all mating surfaces and your chemical protective gloves have been checked for chemical contamination. Chemical agents can enter your mouth, resulting in sickness or death.

NOTE

To use the M17A1/M17A2 mask drinking system, your canteen must be equipped with an M1 canteen cap.

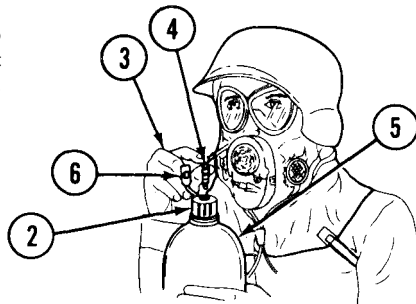
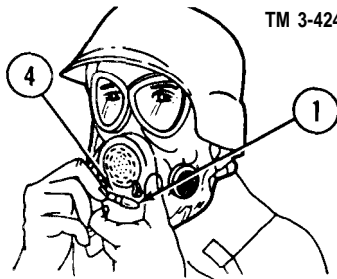
- a. Fill your plastic water canteen before entering contaminated area, or in a protective shelter when in a contaminated area.
- b. Use M8 detector paper to check around pocket (1), canteen cap (2), and chemical protective gloves set (3).
- c. If contaminated, decontaminate using the M258A1 decontaminating kit.

- d. Steady facepiece and withdraw quick disconnect coupling half (4) from pocket (1).
- e. Remove canteen (5) from its protective carrier, flip open protective cover (6) of canteen cap (2), and hold canteen (5) near your facepiece.

NOTE

If pin in cap is off center, insert quick disconnect coupling half at angle to pick up pin.

- f. Push and turn quick disconnect coupling half (4) in past lip to connect it to canteen cap (2). Check that connection is tight.

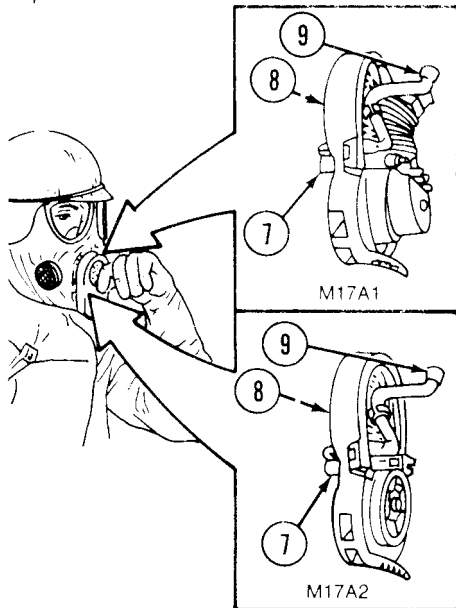


2-15. CONNECTING AND USING M17A1/M17A2 MASK DRINKING SYSTEMS (CONT).

- g. Turn and hold lever (7) all the way toward voicemitter (8). Open your mouth and hold drinking tube mouth-piece (9) between your teeth. Blow to create positive pressure. You should feel some resistance.

WARNING

If resistance is not felt, your drinking system leaks. Do not drink. Replace mask as soon as possible.



NOTE

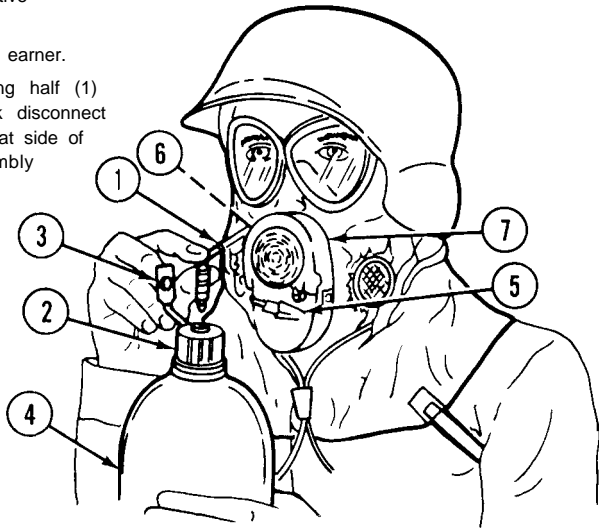
Do not tilt head back while drinking.

- h. If system does not leak, raise and invert canteen (5), keeping lever (7) turned, and drink water from canteen (5).
- i. After several swallows, blow into the drinking tube mouthpiece to create positive pressure in canteen (5). Repeat this procedure, as required.
- j. When finished, turn canteen (5) upright and blow into drinking tube mouthpiece. Return lever (7) to vertical position.



2-16. DISCONNECTING M17A1/M17A2 MASK DRINKING SYSTEMS.

- a. Pull quick disconnect coupling half (1) from cap (2), and close protective cover (3).
- b. Stow canteen (4) in protective earner.
- c. Return quick disconnect coupling half (1) to pocket (5), and press quick disconnect coupling half (1) in channel (6) at side of voicemitter-outlet valve assembly cover (7).



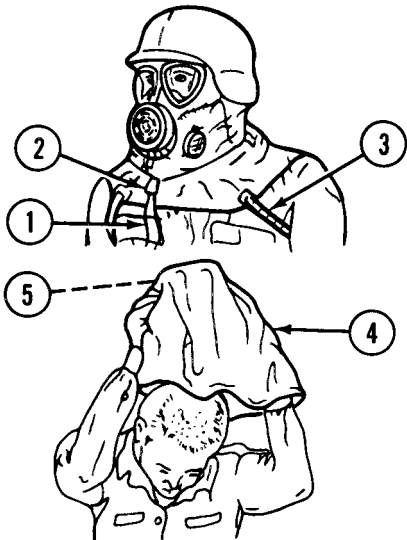
2-17. REMOVING AND STOWING YOUR HOOD AND FACEPIECE.

- a. Remove headgear, unfasten tab (1), loosen cord (2), and unfasten underarm straps (3).

CAUTION

Be very careful in removing hood. The hood could snag on the buckles of the head harness and tear.

- b. Unzip front and gently pull back of hood (4) completely over front of facepiece (5). Roll cheek strap clip and buckle assemblies forward to relieve tension and remove facepiece with hood attached.

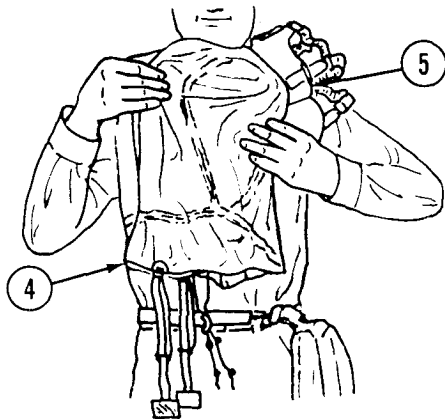


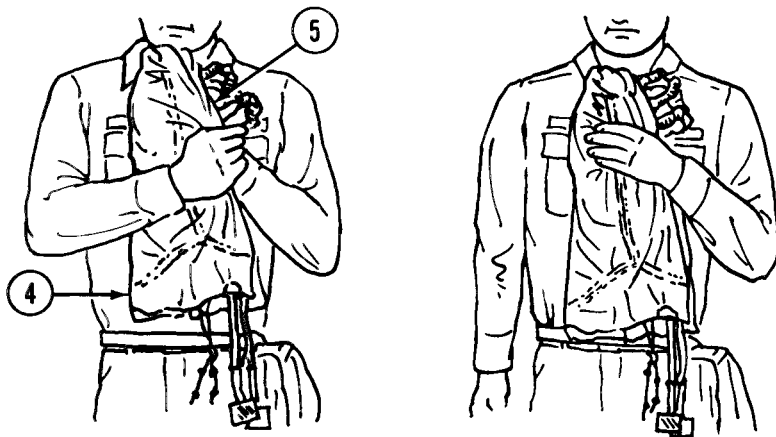
2-17. REMOVING AND STOWING YOUR HOOD AND FACEPIECE (CONT).

CAUTION

Do not force the head harness into the faceblank. The head harness should be stowed outside the facepiece assembly.

- c. Check that your mask is dry and free of oil or solvents before stowing.
- d. Keep interior of carrier free of unauthorized items, dirt, and trash.
- e. Store your facepiece in carrier with eye-lens outserts installed to protect eye-lenses.
- f. Hold the edges of facepiece (5) with one hand. With the other, gently pull hood (4) over the front of the facepiece.





g. Fold hood (4) over the facepiece (5). Hold facepiece (5) and hood (4) with one hand as shown.

2-17. REMOVING AND STOWING YOUR HOOD AND FACEPIECE (CONT).

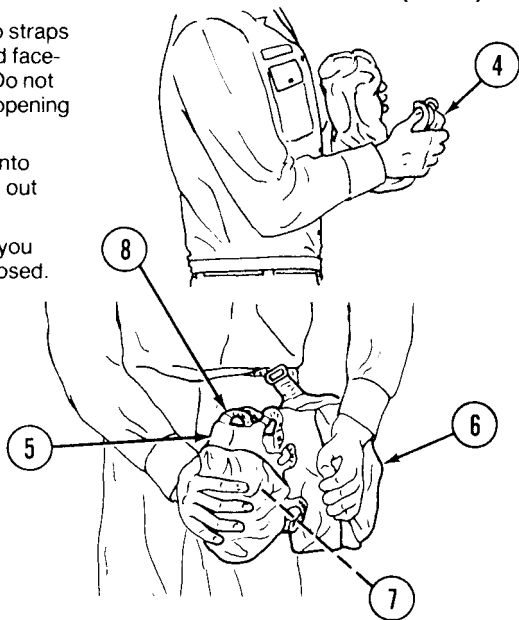
- h. Fold up the hanging part of hood (4) so straps are inside the fold, enabling you to hold facepiece (5) and hood (4) with one hand. Do not let any part of hood (4) cover the chin opening of facepiece (5).
- i. Put facepiece (5) with folded hood (4) into carrier (6) with lenses (7) up and facing out toward the carrier opening.
- j. Let head harness (8) swing free when you store the facepiece. Snap carrier (6) closed.

WARNING

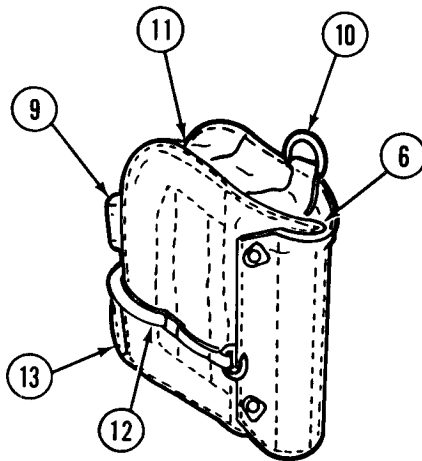
Any solid matter (even grass) under valve disks will cause fogged eye-lenses, discomfort, and leakage.

CAUTION

Abrasives such as sand and grit will scratch eyelenses.



- k. Store your facepiece in closed carrier (6) in a cool, dark, dry place.
- l. It is preferable to hang carrier (6) by shoulder strap (9) or D-ring (10) on short strap on top of carrier.
- m. Stow straps in one of two ways. Shoulder strap (9) may be stowed in upper pocket (11), waist strap (12) in bottom pocket (13), or both straps may be hooked to D-ring (10) by their snaphooks.



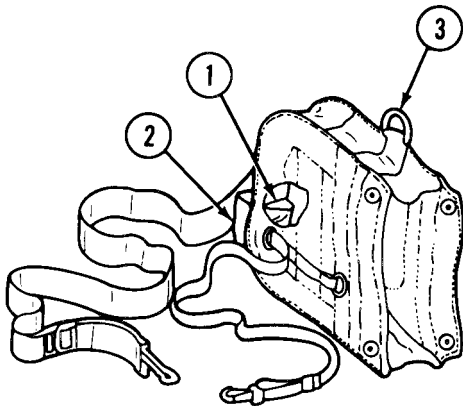
2-18. STOWING ITEMS IN CARRIER POCKETS.

CAUTION

To avoid damage to facepiece, put only authorized items in your carrier.

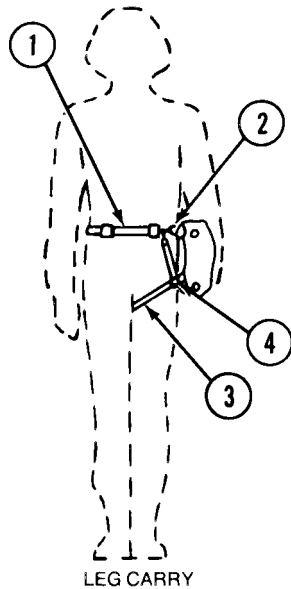
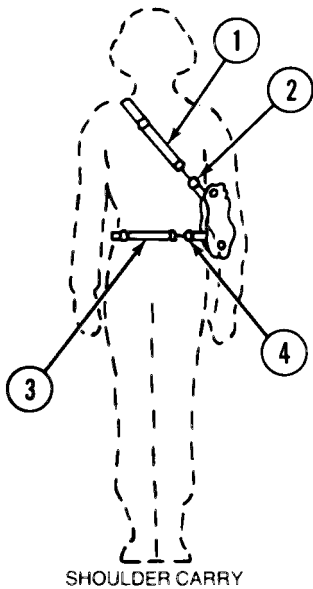
- a. Stow the M1 waterproof bag and the operator's manual in inside pocket (1).
- b. When stowing the M1A1 waterproof bag, when provided, roll up, slide into sleeve, bend in a U-shape, and stow in inside pocket (1).
- c. If issued the following items, stow as follows:

- (1) *Detector paper.* Stow in lower outside pocket (2) or inside pocket (1).
- (2) *Winterization kit.* Stow in inside pocket (1).
- (3) *M258A1 decontaminating kit.* Hang by hook from D-ring (3), or stow in lower outside pocket (2).

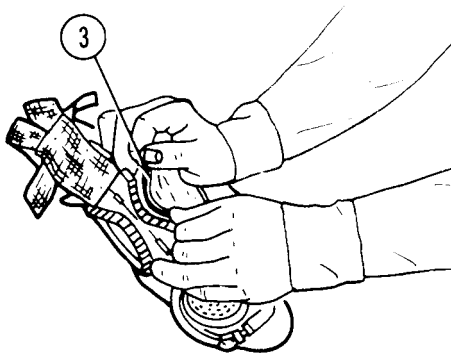
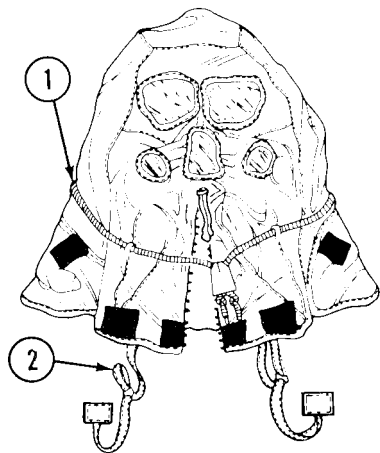


2-19. WEARING YOUR CARRIER (TWO WAYS).

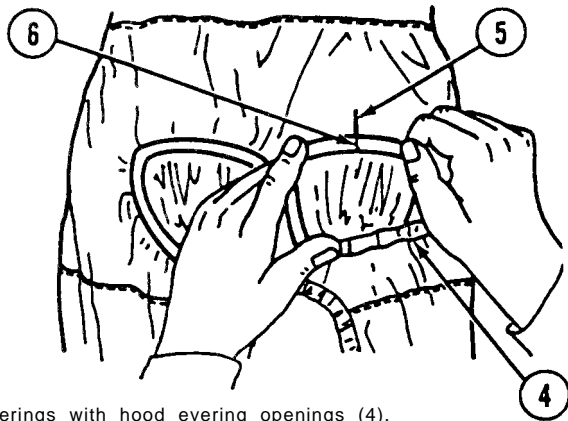
- a. The shoulder carry method is done as follows:
 - (1) Hook shoulder strap (1) to D-ring (2) and adjust.
 - (2) Hook waist strap (3) to round ring (4) and adjust.
- b. The leg carry method is done as follows:
 - (1) Put shoulder strap (1) around waist and hook to D-ring (2). Adjust.
 - (2) Bring waist strap (3) from back to front around inside of leg.
 - (3) Pass waist strap (3) through round ring (4), and up to hook to D-ring (2). Adjust.



2-20. INSTALLING YOUR HOOD.



- a. Unfold hood, unzip it, lay flat flat, loosen cord (1), and unfasten underarm straps (2).
- b. Remove eyelens outserts (3) (para 3-4).



- c. Insert facepiece in hood, and aline eyerings with hood eyering openings (4).
- d. Aline black line (5) on hood with dimple (6) in top of facepiece eyering.

CAUTION

Undue force in doing the next step could tear fabric along sewn seams.

- e. Starting at the top of the facepiece eyerings, gently slip hood eyering openings (4) over facepiece eyerings by pulling hood fabric along sewn seams, and bending facepiece at eyelenses.

2-20. INSTALLING YOUR HOOD (CONT).

CAUTION

Inlet valve openings in hood are smaller than top outside diameter of inlet valve assemblies. If hood is "used," even a modest attempt to stretch hood over inlet valve assemblies results in damage to hood.

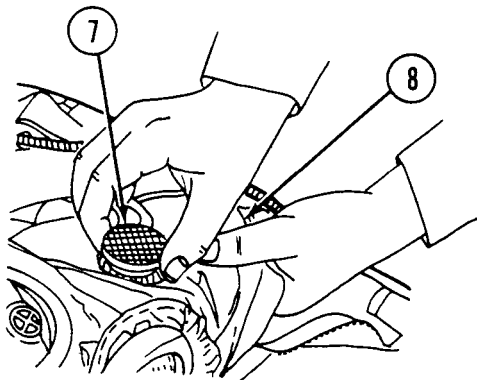
f. Avoid damage to hood by doing the following:

- (1) Remove inlet valve assemblies (7) (para 3-3).

CAUTION

Be careful not to tear hood or displace disk when you slip the inlet valve assembly into the hood.

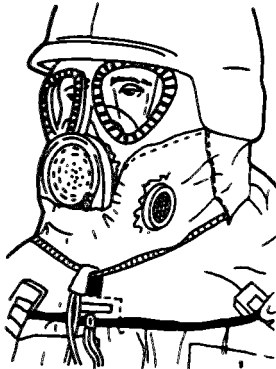
- (2) Slip base of inlet valve assemblies (7) through inlet valve openings (8) in hood.



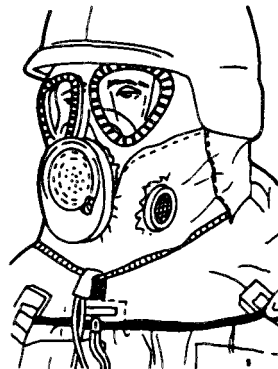
- (3) Install inlet valve assemblies (7) (with top up) with hood attached to facepiece. (See para 3-3.)

NOTE

At temperatures above 32°F (0°C), hood will cover bottom of voicemitter-outlet valve assembly cover to keep positive pressure inside hood. Below 32°F (0°C), hood will be below voicemitter-outlet valve assembly cover to prevent moisture from wetting inner clothing.



ABOVE 32°F (0°C)



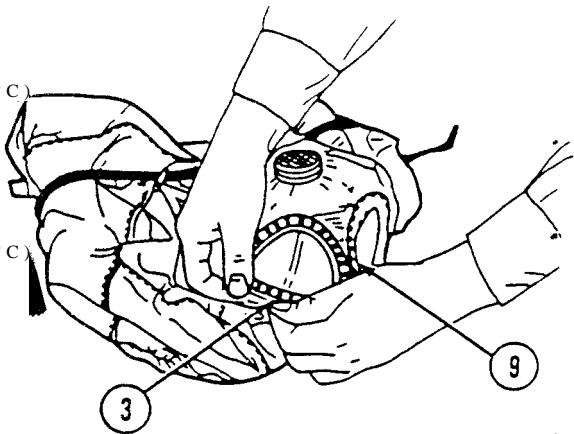
BELOW 32°F (0°C)

2-20. INSTALLING YOUR HOOD (CONT).

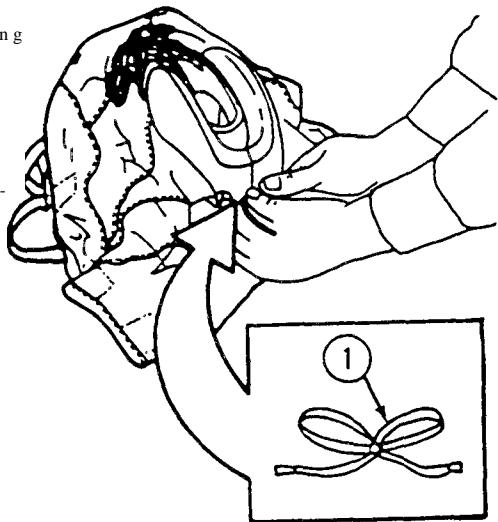
g. Fit upper part of voicemitter-outlet valve assembly cover opening (9) in hood over upper part of voicemitter-outlet valve assembly cover.

h. At temperatures above 32°F (0°C) cover the bottom half of the voicemitter outlet valve assembly as illustrated on page 2-93; proceed to step k.

i. At temperatures below 32°F (0°C) expose the entire voicemitter outlet valve assembly as illustrated on page 2-93.



- j. Lift hood and tie the cord (1) with a bow knot under voicemitter-outlet valve assembly cover behind crimping ring.
- k. Install eyelens outserts (3) (para 3-4).
- l. Lower hood and check that installation is correct. Unzip front.



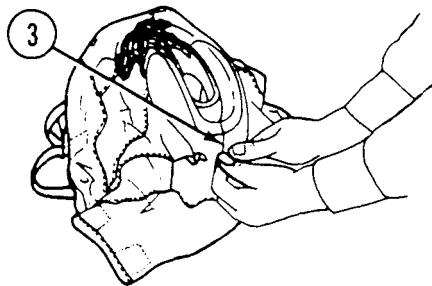
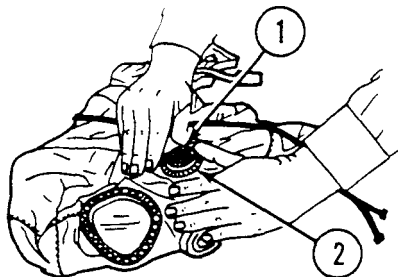
2-21. DETACHING HOOD FROM FACEPIECE.

CAUTION

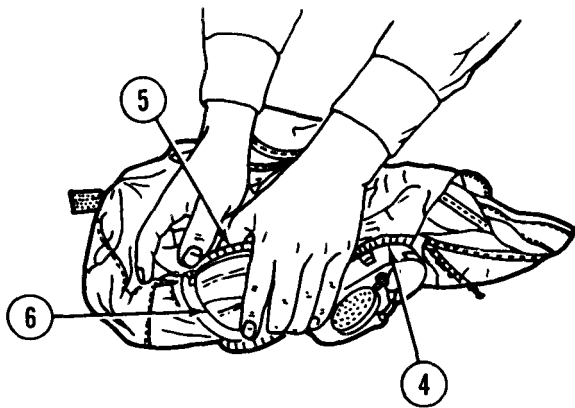
Undue force while detaching hood could tear fabric along seams.

If hood is not needed, remove it from mask as follows:

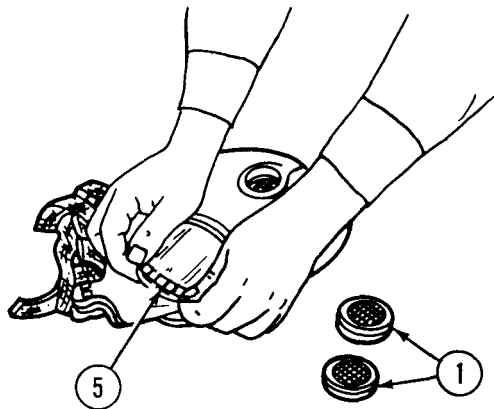
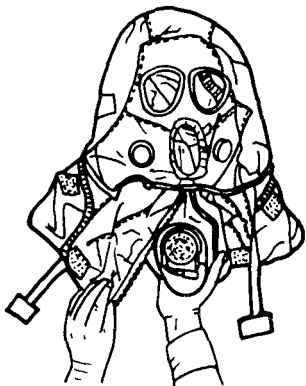
- Remove inlet valve assemblies (1) before removing hood to avoid damage to hood.
- Carefully pull relet valve openings (2) in hood from relet valve assemblies (1).
- Lift hood and untie cord (3) under voicemitter-outlet valve assembly cover.



- d. Remove voicemitter-outlet valve assembly cover opening (4) in hood from facepiece.
- e. Remove eyelens outserts (5) (para 3-4) and eyering openings (6) in hood from facepiece.



2-21. DETACHING HOOD FROM FACEPIECE (CONT).



f. Gently pull facepiece out of hood.

g Install eyelens outserts (5) (para 3-4), and inlet valve assemblies (1) (para 3-3) on facepiece.

Section IV. OPERATION UNDER UNUSUAL CONDITIONS

2-22. PUTTING ON YOUR FACEPIECE, WITH HOOD, IN COLD WEATHER.

- a. Stop breathing.
- b. Remove headgear, mittens, gloves, and eyeglasses, if you are wearing them, as necessary to put on your mask properly.
- c. Open outer garment (1) at neck, 6 to 8 inches (15 to 20 cm). Put on facepiece with hood (steps d thru n, para 2-14).

WARNING

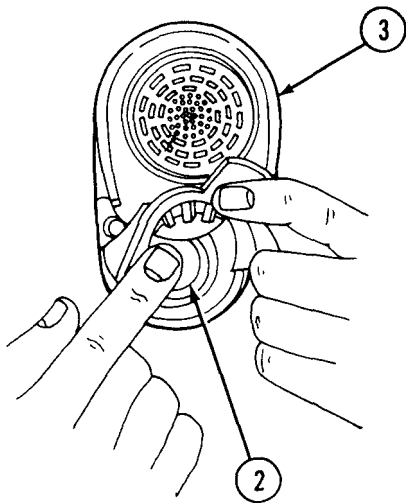
In cold weather, do not clear facepiece by exhaling a large volume of air. Moist air will frost eyelenses and impair vision.

- d. Exhale slowly and lightly to clear facepiece, and check function of outlet valve disk.

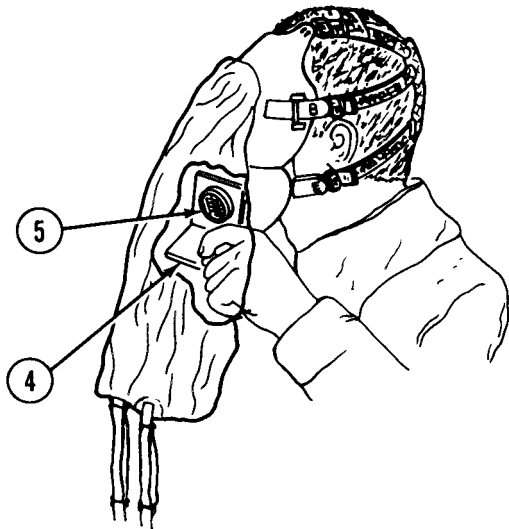


2-22. PUTTING ON YOUR FACEPIECE, WITH HOOD, IN COLD WEATHER (CONT).

- e. If outlet valve disk (2) sticks to outlet valve seat, do the following:
- (1) Lift bottom of voicemitter-outlet valve assembly cover (3).
 - (2) Massage outlet valve disk (2) with one finger, only when you exhale, until outlet valve disk (2) functions properly.
 - (3) Reseat bottom of voicemitter-outlet valve assembly cover (3).



- g. When winterization kit is installed (para 2-24) and cheek flaps (4) are over inlet valve assemblies (5), pull cheek flaps (4) down to expose inlet valve assemblies (5).
- h. Check your facepiece for leaks (steps 1 and m, para 2-14).
- i. Fasten cheek flaps (4).
- j. Resume normal breathing.



2-22. PUTTING ON YOUR FACEPIECE, WITH HOOD, IN COLD WEATHER (CONT).

- k. Fasten outer garment, and position and secure hood (steps q thru u, para 2-14).

WARNING

In toxic atmosphere, do not break the seal between your hood and facepiece and the side of your face when putting on your headgear. This could cause the facepiece to leak.

- l. Put on gloves, mittens, and headgear as necessary.

NOTE

When wearing a facepiece in extremely cold weather, you will probably feel resistance to your breathing. This will lessen as you become accustomed to the facepiece. Resistance may increase while you are working and appear higher when you are tired.



2-23. REMOVING YOUR FACEPIECE WITH HOOD IN COLD WEATHER.**WARNING**

If you become overheated in extremely cold weather, do not remove your facepiece outdoors until your face and head have cooled and any sweat has dried. Frostbite, or other cold weather injury, may result if the facepiece is removed and the face is not dried immediately.

- a. Remove mittens and gloves as necessary.
- b. Remove headgear, hood, and facepiece (steps a and b, para 2-17).
- c. Shake ice accumulation from face piece.
- d. Stow facepiece in carrier and snap carrier closed (steps c thru m, para 2-17).
- e. Put on headgear and fasten outer garment.
- f. Put on gloves and mittens.

2-24. INSTALLING YOUR WINTERIZATION KIT ON FACEPIECE WITH HOOD.

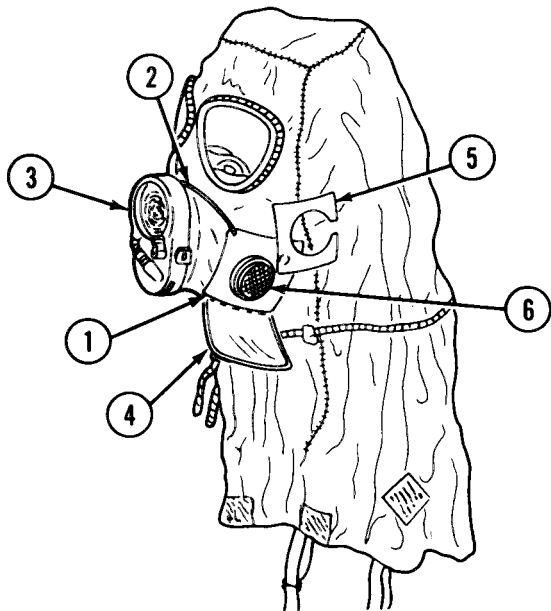
CAUTION

The fit of the winterization kit when used with the M6A2 hood is rather tight. Extra care must be taken during installation to avoid tearing the hood.

NOTE

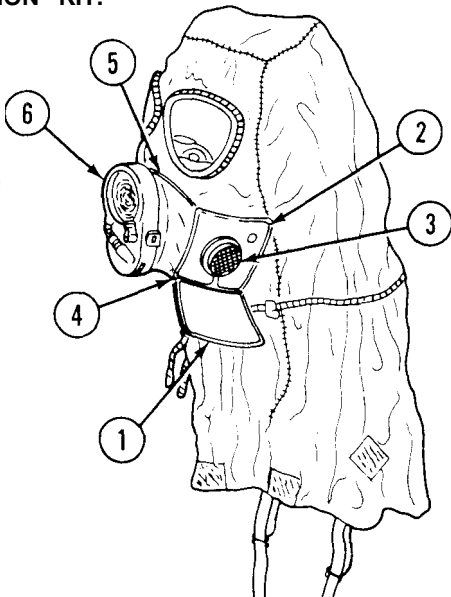
When temperature is 20°F (-7°C) or below, you will install the winterization kit on your facepiece. The kit may be used at temperatures above 20° F (-7°C) if environmental conditions make its use necessary.

- a. Fit prefilter (1) under chin with tape (2) over voicemitter-outlet valve assembly cover (3).
- b. With prefilter cheek flaps (4) down, rotate retainers (5) back and fit prefilter openings around inlet valve assemblies (6).
- c. Rotate retainers (5) forward and carefully fit them around inlet valve assemblies (6).
- d. Raise and fasten prefilter cheek flaps (4).



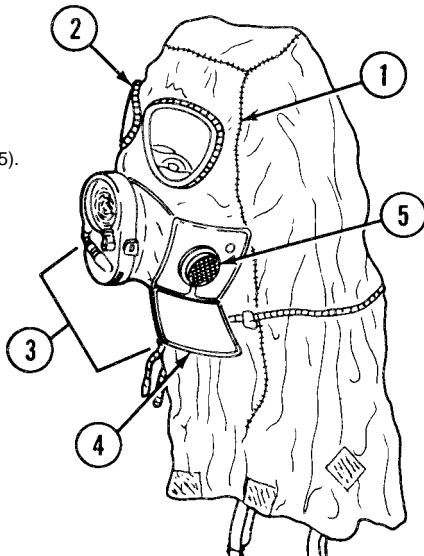
2-25. REMOVING YOUR WINTERIZATION KIT.

- a. Unfasten prefilter cheek flaps (1).
- b. Rotate retainers (2) off of inlet valve assemblies (3).
- c. Remove prefilter openings from around inlet valve assemblies (3) to release prefilter (4).
- d. Remove tape (5) from over voicemitter-outlet valve assembly cover (6).
- e. Fold winterization kit into thirds and stow in inside pocket of carrier.



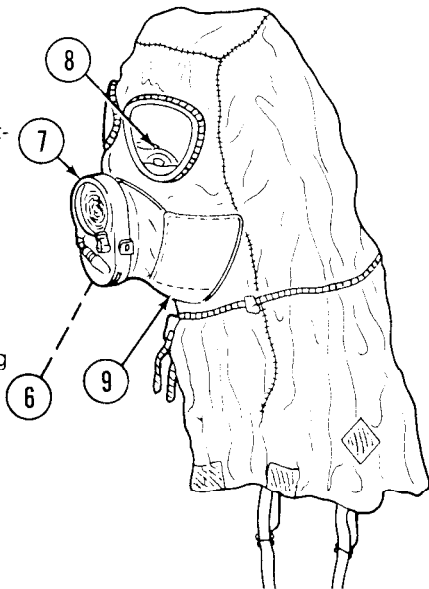
2-26. CARING FOR YOUR MASK IN COLD WEATHER.

- a. Check for proper installation of hood (1) (para 2-20), eyelens outserts (2) (para 3-4), and winterization kit (3) (para 2-24).
- b. When winterization kit (3) is installed, face-piece can be stored in carrier with prefilter cheek flaps (4) over inlet valve assemblies (5).
- c. Between repeated uses, remove your face-piece from carrier and carefully flex face-piece.



2-26. CARING FOR YOUR MASK IN COLD WEATHER (CONT).

- d. Warm facepiece when you can, but do not hang it near a heater or open flame.
- e. In warm indoor area, dry facepiece with a cheesecloth (item 5, app D); do not use paper. Dry outlet valve (6) in voicemitter-outlet valve assembly (7) and valve disks (8) in nosecup assembly.
- f. Remove any dirt from facepiece and carrier before stowing mask.
- g. Before entering warm area from subzero temperature, remove frost and snow from facepiece.
- h. Dry facepiece and prefilter (9) before putting on facepiece and reentering freezing area.



CHAPTER 3

MAINTENANCE INSTRUCTIONS

Section I. LUBRICATION INSTRUCTIONS

No lubrication is required for the M17 and M17A1/M17A2 masks.

Section II. MAINTENANCE PROCEDURES

3-1. GENERAL.

a. This section contains step-by-step procedures for maintaining the mask and additionally authorized items.

b. You, the operator, are authorized to inspect and service the mask and additionally authorized items. It is your responsibility to notify your NCO or officer of all defects and of maintenance part requirements not authorized in this manual.

3-2. FILTER ELEMENTS - SERVICING.

WARNING

Dirt or other foreign material on the connectors of filter elements, mating surfaces of the faceblank, or trapped between these surfaces lets contaminated air into your facepiece.

Replacement of filter elements, when required, will be accomplished under direction of your unit NBC NCO.

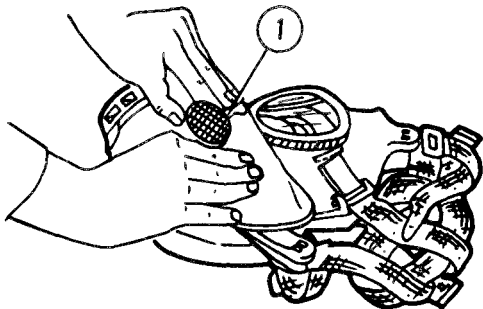
3-3. INLET VALVE ASSEMBLIES - REMOVAL AND INSTALLATION.

a. *Removal.*

NOTE

The following procedure is for the removal of one inlet valve assembly and should be repeated for the other inlet valve assembly.

Remove inlet valve assembly (1) from the facepiece by pushing up on bottom edge of inlet valve assembly with thumbs.



3-3. INLET VALVE ASSEMBLIES-REMOVAL AND INSTALLATION (CONT).

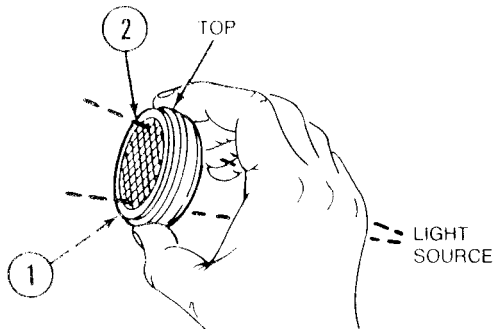
b. *Installation*

NOTE

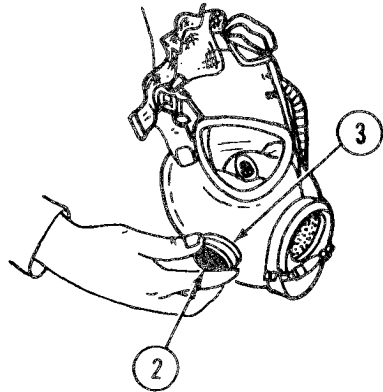
The following procedure is for the installation of one inlet valve assembly and should be repeated for the other inlet valve assembly.

Install inlet valve assembly so that the word TOP, or the white dot, is directly opposite the groove below the inlet valve assembly opening on the faceblank. The word TOP may be missing or incorrectly positioned. Exact top may be marked with a white dot. The word TOP or dot indicates the louvers are horizontal and slanted down away from the filter elements. Contact your unit NBC NCO if these marks are missing.

- (1) Check position of louvers (1) by holding inlet valve assembly (2), with mesh side facing you, to a light source. Tilt bottom of inlet valve assembly (2) towards you. Light source should be visible with louvers (1) horizontal.



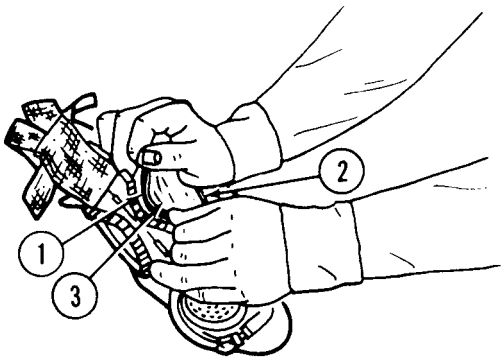
- (2) Position inlet valve assembly (2) over one side of filter element connector flange (3) with the word TOP, or white dot, toward top of facepiece when the facepiece is in the as-worn position or until the louvers are horizontal and slanted down away from the filter element.
- (3) Snap inlet valve assembly (2) into place.



3-4. EYELENS OUTSERTS - SERVICING.

a. Removal.

- (1) Lift rubber ring (1) of eyelens outsert (2) from behind eyenng (3).
- (2) Pull eyelens outsert (2) from face-piece.
- (3) Repeat steps (1) and (2) for other eyelens outsert.

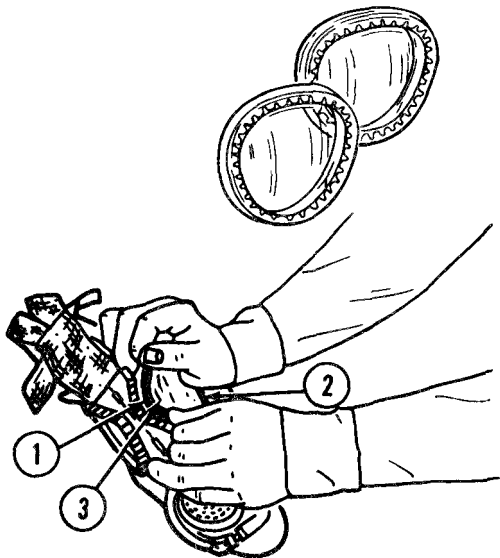


b. Servicing

Clean and polish eyelens outserts with plastic polish (item 8, app D) or optical lens cleaning compound (item 4, app D).

c. Installation

- (1) Fold rubber ring (1) forward all around edge of eyelens outsert (2).
- (2) Lay eyelens outsert (2) over eyering (3), and turn rubber ring (1) down all around eyering (3).
- (3) Repeat steps (1) and (2) for other eyelens outsert.



3-5. MASK - SERVICING.

a. Decontarmation.

WARNING

DS2 can damage the voicemitter of the mask. If the voicemitter has been contaminated with DS2, immediately splash the voicemitter three times with clean water. Do not wet the falter elements.

Use the M258A1 skin decontaminating kit to minimize the dangers of agents which may get into your facepiece while you are wearing it. Instructions for use are in TM3-4230-216-10.

b. Cleaning.

NOTE

When you clean your mask, use only potable water. See your NCO or officer for supplies or assistance if needed.

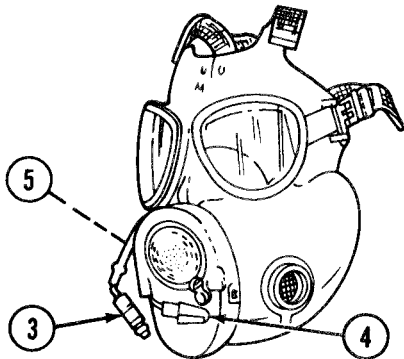
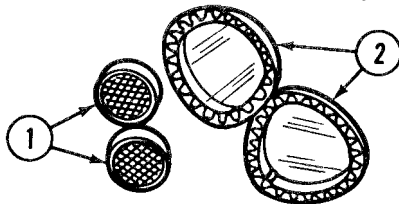
Winterization kit, hood, and eyelens inserts must be removed, if installed.

- (1) Remove inlet valve assemblies (1) (para 3-3) and eyelens outserts (2) (para 3-4).

NOTE

Quick disconnect coupling half is used only on M17A1/M17A2 mask.

- (2) Pull quick disconnect coupling half (3) out of pocket (4) and channel (5).



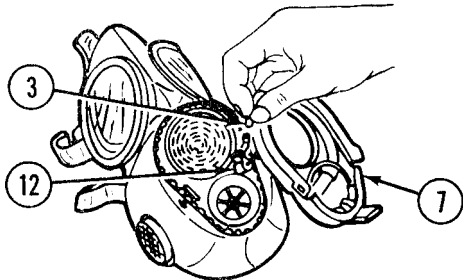
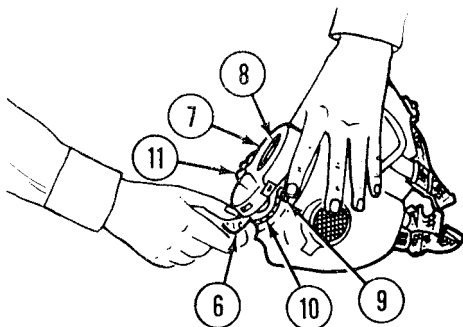
3-5. MASK - SERVICING (CONT).

b. Cleaning (Cont).

NOTE

For removal of voicemitter-outlet valve assembly cover follow step (3) for M17 mask, or steps (3), (4), and (5) for M17A1/M17A2 mask.

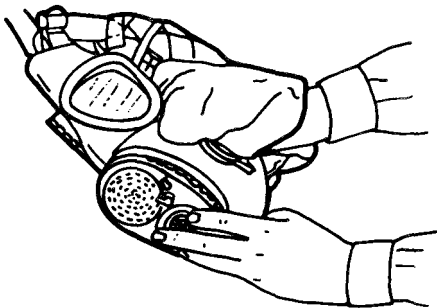
- (3) Grasp tab (6) of voicemitter-outlet valve assembly cover (7) and lift away from voicemitter-outlet valve assembly (8). Disconnect from studs (9) and disengage cover (7) from crimping ring (10) (M17 cover is removed).
- (4) Pull voicemitter-outlet valve assembly cover (7) off of lever (11).
- (5) Detach quick disconnect coupling half (3) from adapter (12), and remove voicemitter-outlet valve assembly cover (7).



- (6) If needed, remove greasy or oily substances from your facepiece with alcohol (item 6, app D), and clean cheesecloth (item 5, app D).

CAUTION

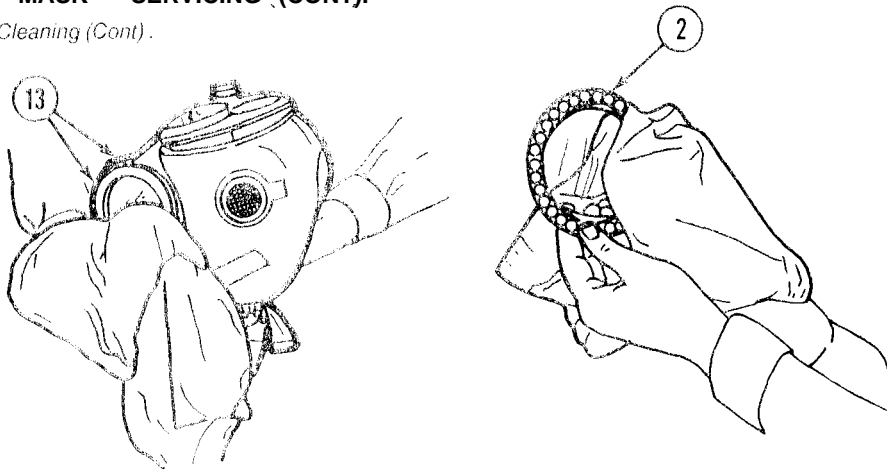
Wash carefully so filter elements do not get wet.



- (7) Clean your facepiece inside and out using clean cheesecloth (item 5, app D) and soap (item 9, app D). Dip the cheesecloth in warm soapy water in utility pail (item 7, app D) and wring cloth almost dry. A soft brush (item 2, app D) may also be used.
- (8) Rinse by wiping with a clean cheesecloth (item 5, app D) that has been dipped in warm clean water and wrung almost dry.

3-5. MASK - SERVICING (CONT).

b. *Cleaning (Cont).*



- (9) Dry facepiece with cheesecloth (item 5, app D), or allow to air-dry.
- (10) To clean and polish eyelenses (13) and eyelens outserts (2), use plastic polish (item 8, app D) or optical lens cleaning compound (item 4, app D).

CAUTION

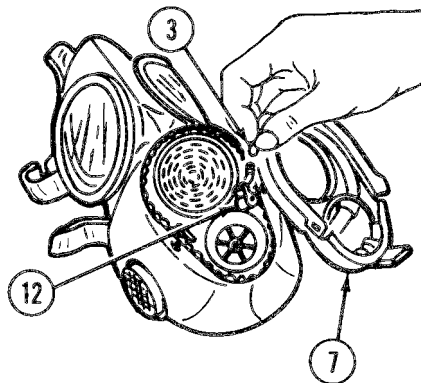
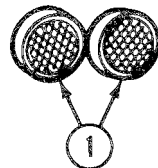
Do not brush inlet valve assemblies too hard or you will tear the mesh.

- (11) Using brush (item 1, app D), gently brush mesh of inlet valve assemblies (1) to remove dirt.

NOTE

To reassemble voicemitter-outlet valve assembly cover, follow steps (12) thru (15) for M17A1/M17A2 mask or step (14) for M17 mask.

- (12) Moisten end of quick disconnect coupling half (3) with water, and attach quick disconnect coupling half (3) through voicemitter-outlet valve assembly cover (7) to adapter (12).



3-5. MASK - SERVICING (CONT).

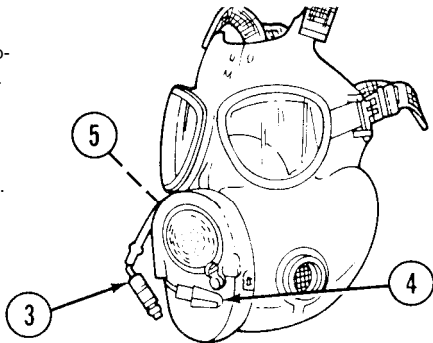
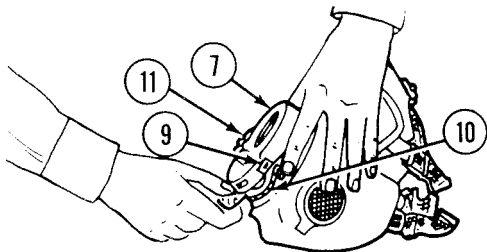
b. *Cleaning (Cont).*

- (13) Install voicemitter-outlet valve assembly cover (7) over lever (11).

NOTE

The M17 voicemitter cover has a rubber ridge on the opening surrounding the voicemitter. Use a dog tag or other blunt device to press this rubber ridge under the voicemitter crimping ring.

- (14) Fit top portion of voicemitter-outlet valve assembly cover (7) over crimping ring (10) and secure to studs (9). Pull bottom portion over crimping ring (10).
- (15) Place quick disconnect coupling half (3) in pocket (4), and channel (5).



- (16) Install eyelens outserts (2) (para 3-4)
and inlet valve assemblies (1) (para 3-3).

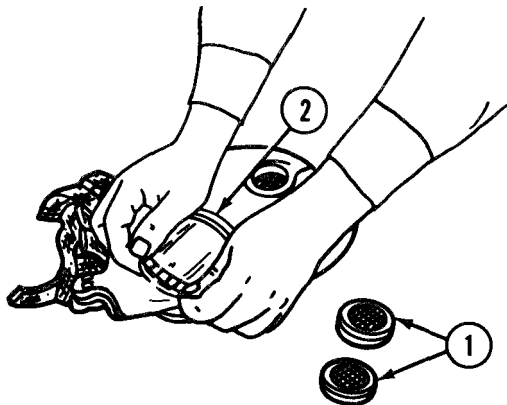
WARNING

Foreign material in carrier may prevent valves from functioning.

CAUTION

Abrasive material in carrier will scratch lenses.

Do not soak carrier, and do not use hot water, bleach, or detergent to clean it. This will reduce water and mildew resistance of carrier.



3-5. MASK - SERVICING (CONT).

b. Cleaning (Cont).

NOTE

Before using a stiff bristled brush to clean carrier, soak brush in cool water. Remove from water and let excess water drain from brush.

(17) Check that carrier is free of any foreign matter. Clean soiled carrier with stiff bristled brush (item 3, app D) and clear water.

c. Sanitizing.

Sanitizing your mask, if required, will be done under the direction of unit maintenance personnel. See your NBC NCO or officer for assistance.

APPENDIX A

REFERENCES

A-1 . SCOPE.

This appendix lists all forms, technical manuals, and miscellaneous publications referenced in this manual.

A-2. FORMS.

DA Form 2028 Recommended Changes to Publications and Blank Forms
DA Form 2404 Equipment Inspection and Maintenance Worksheet
SF 368Product Quality Deficiency Report

A-3. FIELD MANUALS.

FM21-11 First Aid for Soldiers

A-4. TECHNICAL MANUALS.

TM 3-4230-216-10 Decontaminating Kit, Skin, M258A1

A-5. MISCELLANEOUS PUBLICATIONS.

AR 40-63	Ophthalmic Services
AR 70-38	Research, Development, Test, and Evaluation of Materiel for Extreme Climatic Conditions
AR 700-84	Issue and Sale of Personal Clothing
CTA 8-100	Army Medical Department Expendable/Durable Items
CTA 50-970	Expendable/Durable Items (Except: Medical, Class V, Repair Parts, and Heraldic Items)
DA PAM 738-750	The Army Maintenance Management System (TAMMS)
SB 3-30-2	Chemical-Biological Canisters and Filter Elements: Serviceability Lists

APPENDIX B

COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LIST

Section I. INTRODUCTION

B-1. SCOPE.

This appendix lists components of end item and basic issue items for the M17/M17A1/M17A2 masks to help you inventory items required for safe and efficient operation.

B-2. GENERAL.

The components of End Item and Basic Issue items Lists are divided into the following sections:

a. *Section II. Components of End Item.* This listing is for informational purposes only, and is not authority to requisition replacements. These items are part of the end item, but are removed and separately packaged for transportation or shipment. As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Illustrations are furnished to assist you in identifying the items.

b. *Section III. Basic Issue Items.* These are the minimum essential items required to place the M17/M17A1/M17A2 in operation, to operate it, and to perform emergency repairs. Although shipped separately packaged, BII must be with the M17/M17A1/M17A2 during operation and whenever it is transferred between property accounts. The Illustrations will assist you with hard-to-identify items. This manual is your authority to request/requisition replacement BII, based on TOE/MTOE authorization of the end item

B-3. EXPLANATION OF COLUMNS.

The following provides an explanation of columns found in the tabular listings:

- a. *Column (1) - Illustration Number (Illus Number).* This column indicates the number of the illustration in which the item is shown.
- b. *Column (2) - National Stock Number.* Indicates the National stock number assigned to the item and will be used for requisitioning purposes.
- c. *Column (3) - Description.* Indicates the Federal item name and, if required, a minimum description to identify and locate the item. The last line for each item indicates the FSCM (in parentheses) followed by the part number. If item needed differs for different models of this equipment, then model is shown under the "Usable On" heading in this column. These codes are identified as:

<i>Code</i>	<i>Used On</i>
09A, 09B, 309	M17
410, 10A, 10B, 10C	M17A1
Y08, 08A, 08B, 08C	M17A2

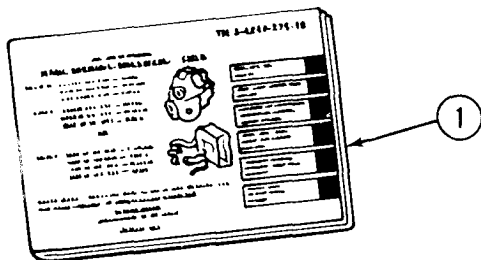
d. *Column (4) - Unit of Measure (U/M)*. Indicates the measure used in performing the actual operational/maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in., pr).

e. *Column (5) - Quantity required (Qty rqr)*. Indicates the quantity of the item authorized to be used with/on the equipment.

Section II. COMPONENTS OF END ITEM

There are no components of end item required.

Section III. BASIC ISSUE ITEMS LIST



(1) Illus Number	(2) National Stock Number	(3) Description FSCM and Part Number Usable On Code	(4) U/M	(5) Qty Rqr
1		Operator's Manual, Mask, Chemical- Biological: Field TM3-4240-279-10	EA	1

APPENDIX C
ADDITIONAL AUTHORIZATION LIST

Section I. INTRODUCTION

C-1. SCOPE.

This appendix list additional items you are authorized for the support of the mask.

C-2. GENERAL.

This list identifies items that do not have to accompany the mask and that do not have to be turned in with it. These items are all authorized to you by CTA, MTOE, TDA, or JTA

C-3. EXPLANATION OF LISTING.

National stock numbers, descriptions, and quantities are provided to help you identify and request the additional items you require to support the equipment. These items are listed in alphabetical sequence by item name under the type document (i.e., CTA, MTOE, TDA, or JTA) which authorizes the item(s) to you.

Section II. ADDITIONAL AUTHORIZATION LIST

(1)	(2)	(3)	(4)
National Stock Number	Description FSCM and Part Number	Usable Qty on Code	U/M Auth
CTA AUTHORIZED ITEMS			
4240-00-803-5839	BAG, WATERPROOF, M1A1 181361) D5-75-13	EA	1
8465-00-930-2077	CANTEEN CAP, WATER, MI (81349) MIL-C-51278	EA	1
8465-01-115-0026	CANTEEN, WATER W/M1 CANTEEN CAP (81349) MIL-C-43103	EA	1
4230-01-101-3984	DECONTAMINATING KIT, SKIN, M258A1 181361) MIL-D-51468	EA	1
4240-00-999-0420	HOOD, CHEMICAL-BIOLOGICAL MASK, ABC-M6A2 (81349) MIL-H-51291	EA	1

C-2 Change 3

(1) National Stock Number	(2) Description FSCM and Part Number	(3) Usable Qty on Code U/M	(4) Auth
CTA AUTHORIZED ITEMS			
	INSERTS, OPTICAL'	PR	1
6665-00-050-8529	PAPER, CHEMICAL AGENT DETECTOR, M8 (81361) D5-67-266	BK	1
4240-00065-0319	WINTERIZATION KIT, M4, CHEMICAL- BIOLOGICAL MASK (81361) D5-77-944	EA	1

* Available by prescription of a medical officer or optometrist (AR 40-63).

APPENDIX D
EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

D-1. SCOPE.

This listing is for informational purposes only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970, Expendable/Durable Items (except Medical, Class V, Repair Parts, and Heraldic Items), or CTA 8-100, Army Medical Department Expendable/Durable Items.

D-2. EXPLANATION OF COLUMNS.

a. *Column (1) - Item Number.* This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., "Use isopropyl rubbing alcohol, item 6, app D").

b. *Column (2) - Level.* This column identifies the lowest level of maintenance that requires the listed item.

C - Operator/Crew

D-0

PIN: 024207-003

c. *Column (3) - National Stock Number.* This is the National stock number assigned to the item; use it to request or requisition the item.

d. *Column (4) - Description.* Indicates the Federal item name and, if required, a description to identify the item. The last line for each item indicates the Federal Supply Code for Manufacturer (FSCM) in parentheses followed by the part number.

e. *Column (5) - Unit of Measure (U/M).* Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in., pr). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

Section II. EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
1	C	1005-00-494-6602	BRUSH, CLEANING SMALL (19204) 8448462	EA
2	C	7920-00-205-0565	BRUSH, DUSTING, LENS AND PHOTOGRAPHIC NEGATIVE: camels hair, wood handle (81348) H-B-1654	EA
3	C	7920-00-061-0037	BRUSH, SCRUB: nylon bristle (81348) H-B-1490	EA
4	C	6850-00-592-3283	CLEANING COMPOUND, OPTICAL LENS: liquid (04019) LENSWICK	CT
5	C	8305-00-222-2423	CLOTH, CHEESECLOTH: cotton, basic, type 1, class 1 (81348) CCC-C-440	YD

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
6	C	6505-00-655-8366	ISOPROPYL RUBBING ALCOHOL: bottle, plastic container (56287) PUREPAC	PT
7	C	7240-01-094-4305	PAIL, UTILITY: plastic, snap-on lid, 5.00 gal (18.93 l) (58536) A-A-332	EA
8	C	7930-00-935-3794	POLISH, PLASTIC: Liquid, type 1 (81348) P-P-560 24 ea bx	PT
9	C	8520-00-228-0598	SOAP, TOILET nonmedicated, liquid, type 1 (81348) P-S-624 (or equivalent)	GL
10	C	4240-01-372-3078	WIPES, RESPIRATOR CLEANING (50378) 504	BX

By Order of the Secretary of the Army:

CARL E. VUONO
General, United States Army
Chief of Staff

Official:

R. L. DILWORTH
Brigadier General, United States Army
The Adjutant General

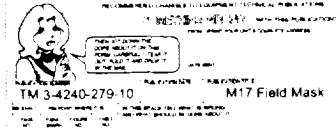
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