

OPERATOR'S MANUAL

MASK, CHEMICAL-BIOLOGICAL: FIELD,

ABC-M17 (4240-00-542-4450 - SMALL)
 (4240-00-542-4451 - MEDIUM)
 (4240-00-542-4452 - LARGE),

M17A1 (4240-01-106-0485 - X-SMALL)
 (4240-00-926-4199 - SMALL)
 (4240-00-926-4201 - MEDIUM)
 (4240-00-926-4200 - LARGE),

AND

M17A2 (4240-01-143-2017 - X-SMALL)
 (4240-01-143-2018 - SMALL)
 (4240-01-143-2019 - MEDIUM)
 (4240-01-143-2020 - LARGE)



M17



M17A1/M17A2

HEADQUARTERS
 DEPARTMENT OF THE ARMY

MARCH 1983



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. Refer to TB MED 502 for proper respiratory protection devices for other than combat use.
- Hold breath when putting on your mask. Toxic agents may be in the surrounding air. Do the steps for putting on your mask quickly. You must put on your mask before you take another breath.
- You must check the mask for leaks when fitted and each time it is put on. A leaky mask will not protect you from toxic agents.
- If you become overheated in very cold weather, do not remove your mask outdoors until your head cools and any sweat has dried. Frostbite may result if the mask is removed while your face is still wet. These precautions are not required if you are in a warm shelter.
- In cold weather, do not clear mask by exhaling a large volume of air. Moist air will frost eyelenses and impair vision.
- 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 mask useless.
- Any solid matter (even grass) under mask 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 mask.

WARNING—Continued

- Do not use mask if inlet valves, valve disks, or outlet valve disks are damaged, missing, or improperly installed. Mask may leak.
- DS2 can damage the voicemitter of the mask. When exposed to DS2, rinse your mask in clean water. Do not wet the filter elements.
- In toxic atmosphere, do not break the seal between your hood and mask and the side of your face when putting on your helmet. This could cause the mask to leak.
- Keep face clean shaven. An unshaven face could cause a bad seal between face and mask.
- Female soldiers shall remove all hairpins, combs, hair knots, buns, or braids that will interfere with mask seal.
- Use M8 or M9 detector paper to check for contamination before using M17A1/M17A2 mask drinking system. Chemical agents could 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.
- Avoid storage of mask for more than 24 hours in M1 waterproof bag. Damage to mask caused by condensation may result.
- M1 waterproof bag should not contact food stuffs because of toxic effects.

FIRST AID

For first aid refer to FM 21-11.

Technical Manual)
)
No. 3-4240-279-10*)

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HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 2 March 1983

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(4240-01-143-2019—MEDIUM)
(4240-01-143-2020—LARGE)

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, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 direct to: Commander, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAS-C, Aberdeen Proving Ground, MD 21010. A reply will be furnished to you.

*This manual supersedes TM 3-4240-279-10, 29 August 1975, including all changes in their entirety.

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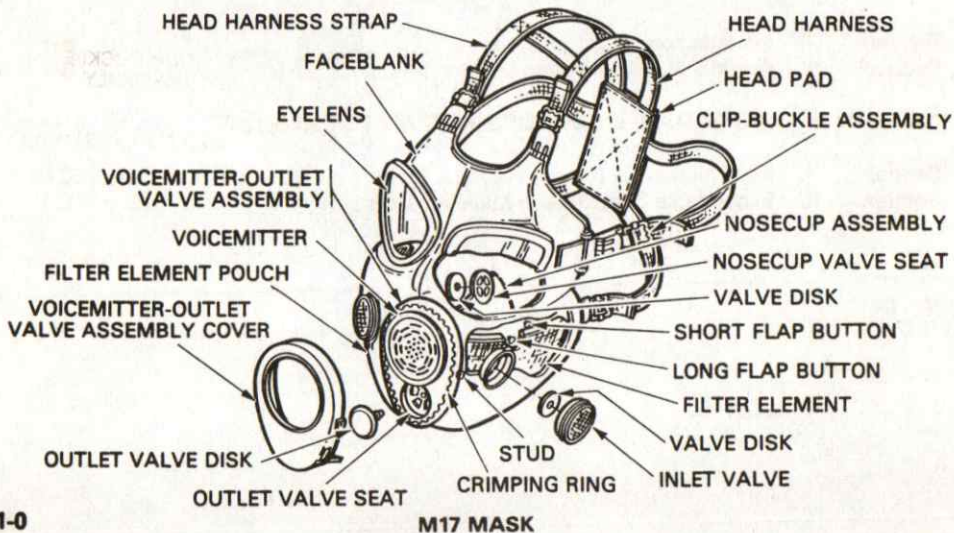
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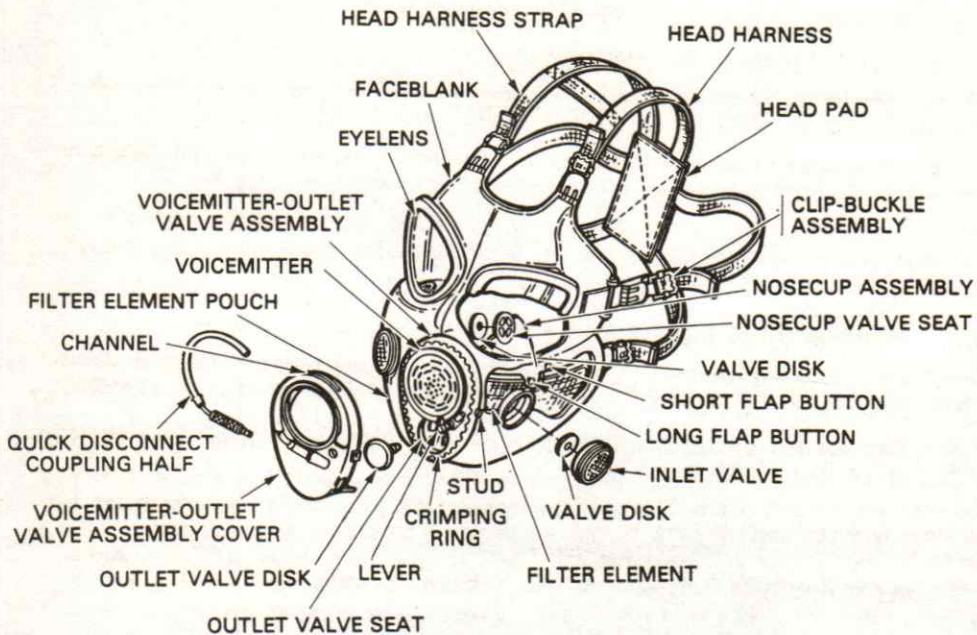
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CHAPTER 1 INTRODUCTION

Section I. GENERAL INFORMATION





M17A1/M17A2 MASK

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. To protect your face, eyes, and lungs from field concentrations of chemical-biological (CB) agents and riot control (RC) agents.
- d. Special Limitations on Equipment. Does not protect against ammonia or carbon monoxide gases. Does not protect you in closed spaces where there is not enough oxygen in the air.

1-2. Maintenance Forms and Records

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750, The Army Maintenance Management System (TAMMS).

1-3. Reporting Equipment Improvement Recommendations (EIR's)

If your M17/M17A1/M17A2 mask needs improvement, 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. Tell us why a procedure is hard to perform. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at Commander, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAY-MA, Aberdeen Proving Ground, MD 21010. 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 proper filter elements installed, the mask protects face, eyes, and respiratory tract 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. Refer to TB MED 502 for proper respiratory protection devices for other than combat use.

- c. **Features.** Major features of the mask are the 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; the M17 mask is not equipped with this system. The M17A1/M17A2 masks also have molded-in mounting points for prong type optical inserts and are available in one additional size (extra small).

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).....	5.5 x 7.5 x 11 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 (0.09 cu m)

Wooden box:

Weight 66 lb (29.94 kg)

Cube 4 cu ft (0.11 cu m)

CHAPTER 2

OPERATING INSTRUCTIONS

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

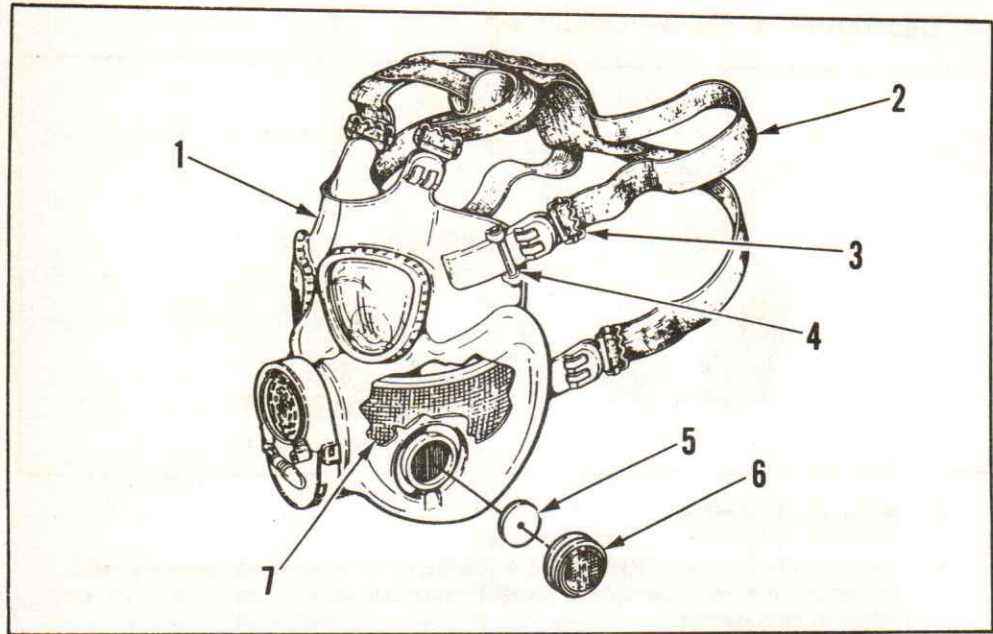
2-1. General

Before attempting to use the mask and additionally authorized items, make certain you are familiar with the location and operation of all parts.

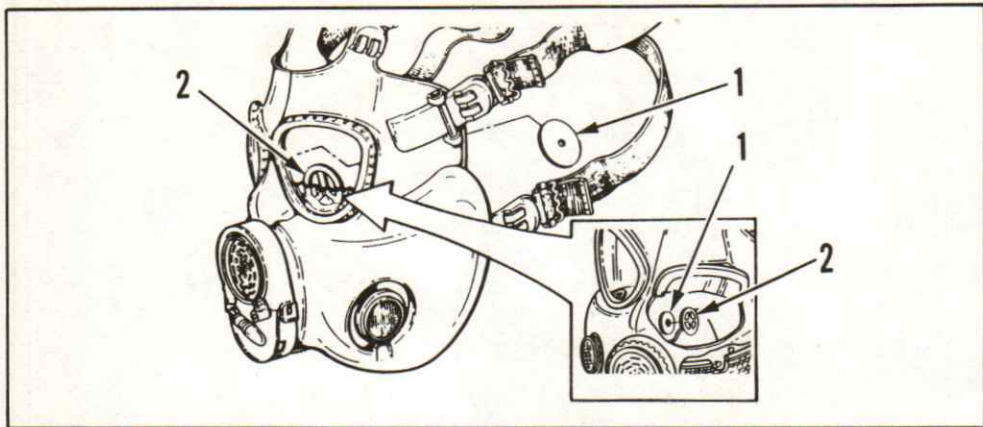
2-2. Description of Mask

a. Facepiece Assembly.

- Rubber FACEBLANK (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 mask to your face and chin.
- CLIP-BUCKLE ASSEMBLIES (3) allow for adjustment of head harness straps.
- TEMPLE PINS (4) hold the tabs in proper position against the facepiece assembly.
- VALVE DISKS (5) at sides of mask allow contaminated air into filter elements to be filtered, and prevent moist exhaled air from entering the filter elements.
- INLET VALVES (6) prevent rain, snow, and coarse particles from entering the filter elements and hold the inlet valve disks.
- FILTER ELEMENTS (7) filter out toxic chemical agents, biological agents, and other particles from inhaled contaminated air.

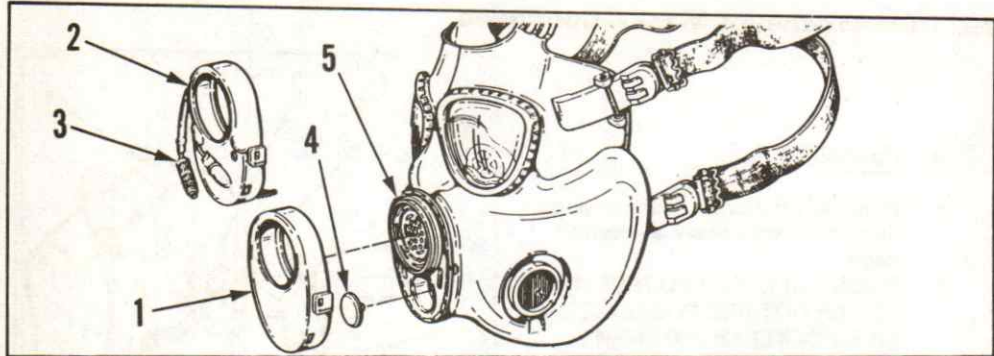


2-2. Description of Mask – Continued



b. Nosecup Assembly.

- VALVE DISKS (1) and NOSECUP VALVE SEAT (2) in nosecup assembly allow filtered air to enter nosecup and prevent moist exhaled air from fogging the eye-lenses in cold weather.



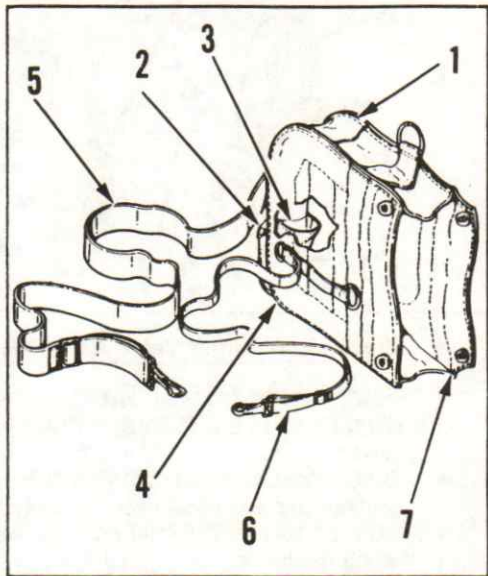
c. Voicemitter-Outlet Valve Assembly.

- 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 M1 canteen cap and allows you to safely drink water.
- OUTLET VALVE DISK (4) releases "used air" and prevents unfiltered air from entering the mask.
- VOICEMITTER (5) transmits your voice outside of the mask.

2-2. Description of Mask—Continued

d. Carrier.

- Provides for storage and carrying of mask and additionally authorized items.
- Consists of UPPER POCKET (1), LOWER OUTSIDE POCKET (2), INSIDE POCKET (3), BOTTOM POCKET* (4), SHOULDER STRAP (5), and WAIST STRAP (6).
- QUICK-OPENING FLAP (7) provides for ready access to contents.



*Later models of carrier will not have bottom pocket.

e. M1 Waterproof Bag.

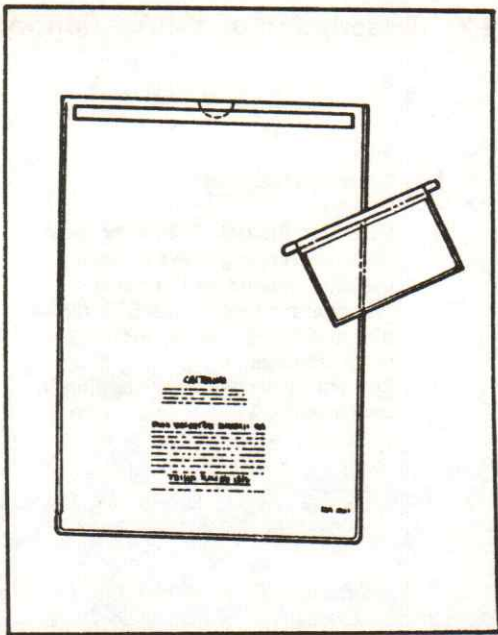
WARNING

Avoid storage of mask for more than 24 hours in this bag. Damage to mask caused by condensation may result.

This bag should not contact food stuffs because of toxic effects.

The difference between the M1 and M1A1 waterproof bags is the M1A1 is much heavier and has a snap fastener for closure. M1 has a rubber-band for closure.

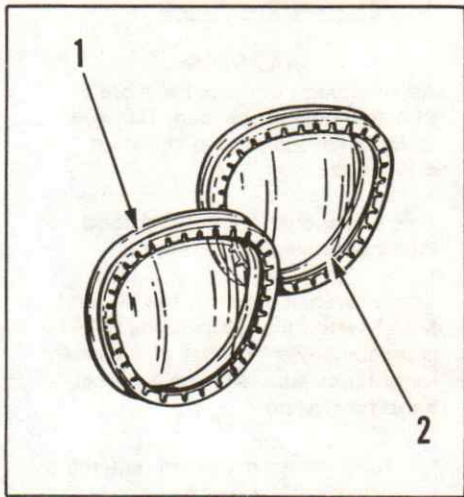
- Keeps mask dry when required by climate and mission.
- Bag is stowed in carrier.



2-2. Description of Mask—Continued

f. Eyelens Outserts.

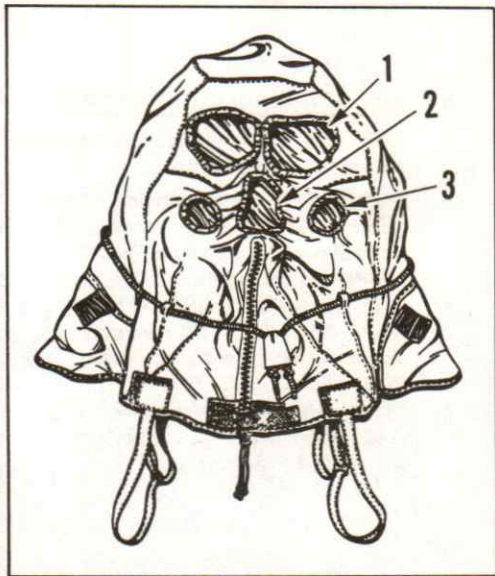
- RUBBER RINGS (1) fit over mask eyelens crimping rings to secure eyelens outserts to the mask.
- Transparent plastic LENSES (2) protect eyelenses from scratches and other damage.
- Prevent eyelenses from fogging in cold weather.



2-3. Description of Additionally Authorized Items (App B)

a. ABC-M6A2 Hood.

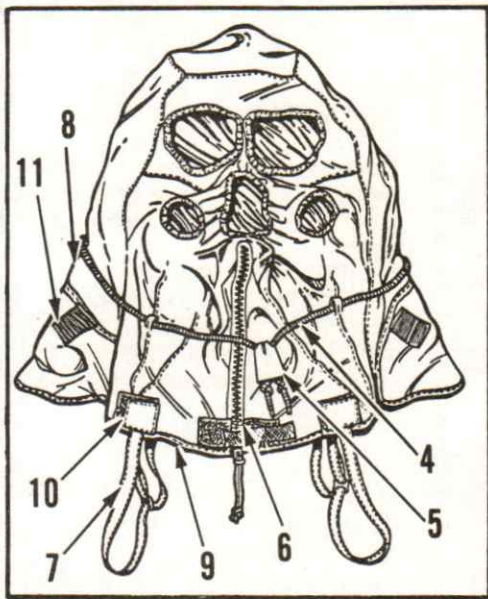
- Made of rubber-coated fabric which protects neck and areas of head not covered by your mask against CB agents.
- EYERING OPENINGS (1), VOICEMITTER-OUTLET VALVE ASSEMBLY COVER OPENING (2), and INLET VALVE OPENINGS (3) provide for unobstructed vision and breathing.

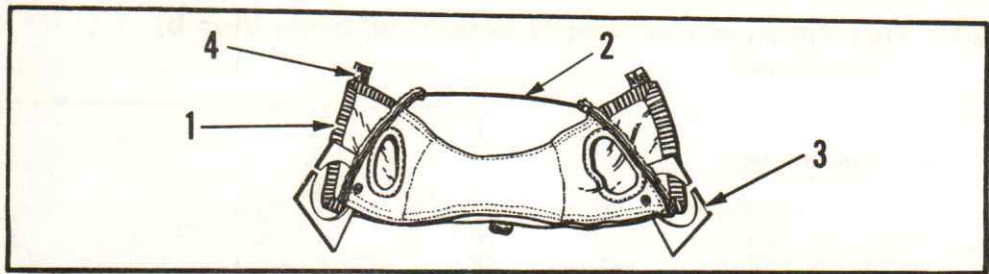


2-3. Description of Additionally Authorized Items (App B) —Continued

a. ABC-M6A2 Hood. — Continued

- CORD (4) draws hood close to neck by use of SLIDER (5).
- ZIPPER (6) permits opening of the hood for ventilation or closing for protection in accordance with MOPP requirements.
- UNDERARM STRAPS (7) keep CAPE (8) and BIB (9) down on shoulders and are fastened on FASTENING CLOTH (10).
- HOOK AND PILE FASTENER (11) holds hood open for ventilation when MOPP permits.





b. M4 Winterization Kit.

- Worn when the temperature is minus 20°F (minus 29°C) or below. However, the kit may be used when the temperature is above minus 20°F (minus 29°C) or if temperatures are expected to drop to that level.
- PREFILTER (1) prevents frost from accumulating on inlet valves during subzero weather.
- TAPE (2) positions on top of voicemitter-outlet valve assembly cover to assist in alignment of PREFILTER (1).
- RETAINERS (3) lock PREFILTER (1) to inlet valves.
- Stored in inside pocket of carrier.
- HOOK AND PILE FASTENER (4) holds prefilter (1) in position over the mask inlet valves and retainers (3).

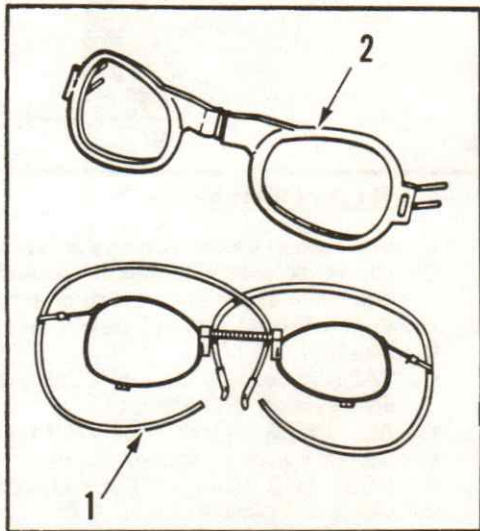
2-3. Description of Additionally Authorized Items (App B) —Continued

c. Optical Inserts.

WARNING

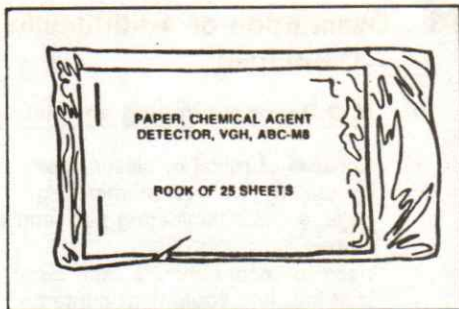
Do not wear contact lenses when wearing optical inserts. Contact lenses will overcorrect vision while wearing optical inserts.

- Available by medical prescription for personnel who must wear glasses.
- **WIRE FRAME OPTICAL INSERTS (1)** fit M17 and M17A1/M17A2 masks.
- **PRONG TYPE OPTICAL INSERTS (2)** with plastic frames fit only M17A1/M17A2 masks.



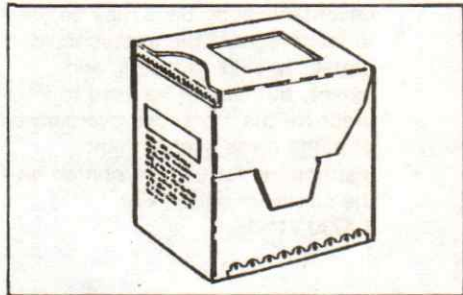
d. M8 Chemical Agent Detector Paper.

- 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 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 lower outside pocket of carrier, if there is room.



e. M9 Chemical Agent Detector Paper.

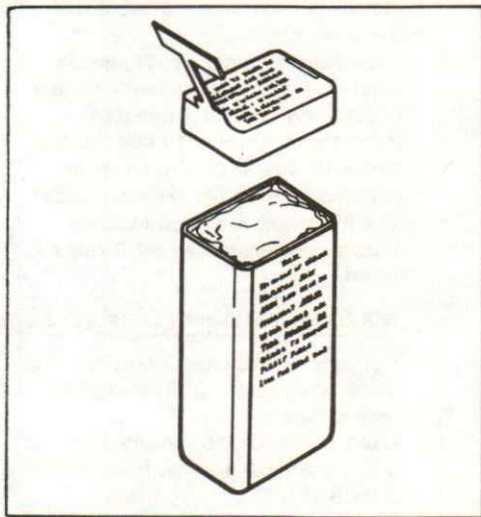
- Consists of dispenser containing roll of detector paper and resealable plastic storage bag.
- Used to detect the presence of liquid chemical agents. Refer to TM 3-6665-311-10.



2-3. Description of Additionally Authorized Items (App B) — Continued

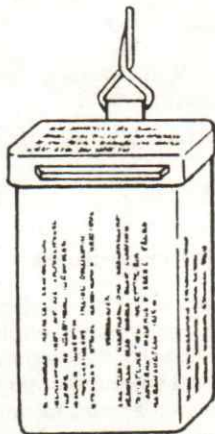
f. M13 Decontaminating and Reimpregnating Kit.

- Consists of metal or plastic case containing two decontaminating bags, a decontaminating pad, and a cutter.
- Used to decontaminate skin, outer clothing, and equipment contaminated by chemical agent. The two decontaminating bags may be used to reimpregnate the impregnated protective shirt, trousers, and gloves, but cannot be used to impregnate the protective overgarment or battle dress overgarment.
- Instructions for use are printed on the container and in TM 3-4230-211-10.



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.
- 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 (B) PMCS.
- b. After You Operate. Be sure to perform your after (A) PMCS.
- c. Semiannually (Every 6 Months). Be sure to perform your semiannual (S) PMCS.

2-5. PMCS Procedures

This PMCS table lists those required checks and services to be done to be sure of accurate performance of the mask and additionally authorized 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 and inspection procedures; and the fourth column contains conditions under which the mask and additionally authorized 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.

**TABLE 2-1. PREVENTIVE MAINTENANCE CHECKS
AND SERVICES (PMCS)***

B—Before

A—After

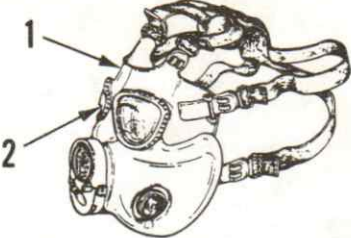
S—Semiannual

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
1				 <p><u>Faceblanket.</u></p> <ul style="list-style-type: none"> • a. Clean. 	Dirty.

*Weekly, in combat situations.

2-5. PMCS Procedures—Continued

TABLE 2-1. PREVENTIVE MAINTENANCE CHECKS
AND SERVICES (PMCS)*—Continued

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
1	•			 <p><u>Faceblank.</u>—Continued</p> <p>b. Check faceblank (1) for permanent set which may affect fit of mask. Signs of permanent set are:</p>	Faceblank has taken a permanent set.

*Weekly, in combat situations.

B—Before


A—After

S—Semiannual

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
				<p>(1) Faceblank (1) is difficult to spread open.</p> <p>(2) Unusual or too much stiffness in sealing area of faceblank (1).</p> <p>• • c. Check faceblank (1) for holes, tears, splits, soft or sticky spots.</p> <p>• • d. Check rubber next to eyelenses (2) to be sure eyelenses will not pull away from faceblank (1).</p>	<p>Rubber has deteriorated or has holes, tears, or splits which will allow air to enter faceblank.</p> <p>Eyelenses pull away from faceblank.</p>

2-5. PMCS Procedures—Continued

TABLE 2-1. PREVENTIVE MAINTENANCE CHECKS
AND SERVICES (PMCS)*—Continued

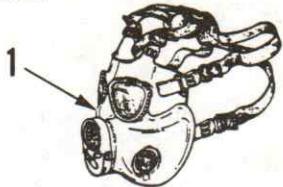
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
1				 <p><u>Faceblank.</u>—Continued</p> <p>NOTE Dry rot in head harness tabs is not cause for rejection if pull check is withstood.</p>	

*Weekly, in combat situations.

B—Before

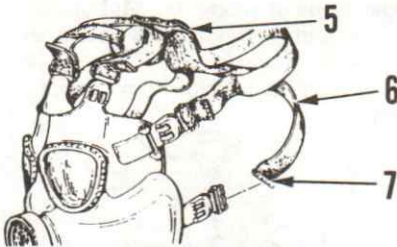
A—After

S—Semiannual

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
	•		•	<p>e. Check for dry rot in head harness tabs. Hold mask as illustrated. Grasp metal clip-buckle assembly (3) and inside flange of rubber tab (4) between thumb and forefinger. Pull on rubber tab (4) until it extends 1/2 in. to 3/4 in. (1.3 cm to 1.9 cm) from normal position.</p>  <p>f. Check rest of faceblank (1) for stiff areas which crumble when rubbed between fingers and exhibit cracks which expand when rubber is stretched.</p>	<p>Pull check is not withstood.</p> <p>Mask has areas of dry rot.</p>

2-5. PMCS Procedures—Continued

**TABLE 2-1. PREVENTIVE MAINTENANCE CHECKS
AND SERVICES (PMCS)*—Continued**


Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
2	•	•	•	 <p><u>Head Harness.</u></p> <p>a. Check head harness (5) for loss of elasticity.</p>	Head harness will not hold mask firmly against face.

*Weekly, in combat situations.

B—Before

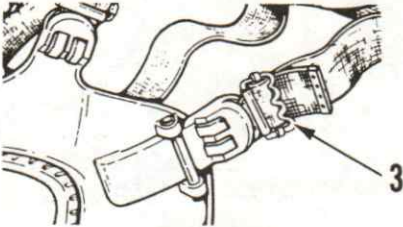
A—After

S—Semiannual

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
3		•	•	<p>b. Check for dirt. Check straps (6) for cuts, tears, missing metal clips (7), or deterioration such as mildewing or fraying.</p>  <p><u>Clip-Buckle Assembly.</u></p> <p>CAUTION</p> <p>Copper poisoning migrating into the mask from clip-buckle assembly will make entire mask unserviceable.</p> <p>a. Make sure finish (lacquer) on clip-buckle assembly (3) covers all clip-buckle assembly surfaces.</p>	<p>Head harness is cut, torn, frayed, has missing parts, or has deteriorated.</p> <p>Finish (lacquer) is missing.</p>

2-5. PMCS Procedures—Continued

TABLE 2-1. PREVENTIVE MAINTENANCE CHECKS
AND SERVICES (PMCS)*—Continued

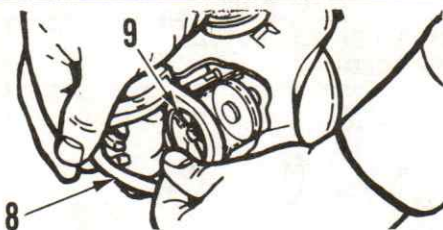
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
3	•	•		 <p><u>Clip-Buckle Assembly.</u>—Continued</p> <p>b. Check for missing or broken clip-buckle assemblies (3)</p>	Clip-buckle assemblies are missing or broken.

*Weekly, in combat situations.

B—Before

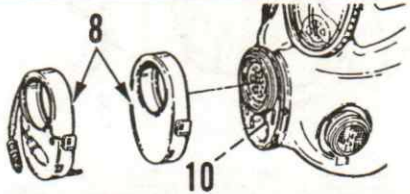
A—After

S—Semiannual

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
4				 <p><u>Voicemitter-Outlet Valve Assembly and Voicemitter-Outlet Valve Assembly Cover.</u></p> <p>WARNING</p> <p>Do not use mask if outlet valve disk is missing or damaged. The mask will leak.</p> <p>a. Remove cover (8) and check to see if outlet valve disk (9) is present and is not curled or distorted.</p>	<p>Outlet valve disks are missing or distorted.</p>

2-5. PMCS Procedures—Continued

TABLE 2-1. PREVENTIVE MAINTENANCE CHECKS
AND SERVICES (PMCS)*—Continued

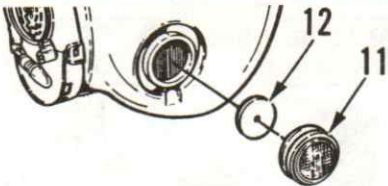
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
4				 <p><u>Voicemitter-Outlet Valve Assembly and Voicemitter-Outlet Valve Assembly Cover.</u> —Continued</p> <ul style="list-style-type: none"> • • b. Check outlet valve seat (10) for dirt. • • c. Check cover (8) for cuts, tears, or holes. 	<p>Outlet valve seat is dirty.</p> <p>Cover is cut, torn, or has holes.</p>

*Weekly, in combat situations.

B—Before

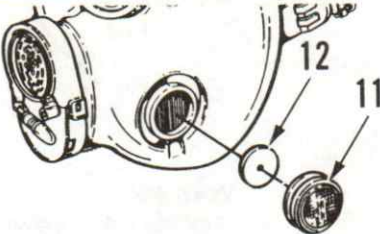
A—After

S—Semiannual

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
5				 <p><u>Inlet Valves.</u></p> <p>WARNING Do not use mask if inlet valves or valve disks are missing. Mask may leak.</p> <p>a. Check that inlet valves (11) are in place.</p> <p>b. Remove inlet valves (11) and check that valve disks (12) are present.</p>	<p>Inlet valves are missing.</p> <p>Valve disks are missing.</p>

2-5. PMCS Procedures—Continued

TABLE 2-1. PREVENTIVE MAINTENANCE CHECKS
AND SERVICES (PMCS)*—Continued

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
5	•	•	•	 <p><u>Inlet Valves.</u>—Continued</p> <p>c. Rotate valve disks (12) to make sure they are not stuck.</p>	Valve disks are stuck.

*Weekly, in combat situations.

B—Before


A—After

S—Semiannual

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
		•	•	d. Check for curled, discolored, or dirty valve disks (12).	Valve disks are curled or dirty.
	•	•	•	e. Check that both inlet valves (11) are installed with the word TOP on the rim of the inlet valve at the top when mask is in the as-worn position.	Inlet valves are missing or improperly installed.

2-5. PMCS Procedures—Continued

TABLE 2-1. PREVENTIVE MAINTENANCE CHECKS
AND SERVICES (PMCS)*—Continued

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
6				 <p><u>Filter Elements.</u></p> <p>WARNING Dirt or other foreign material on the connectors of filter elements (13), mating surfaces of the faceblank, or trapped between these surfaces lets contaminated air into your mask.</p>	


*Weekly, in combat situations.

B—Before**A—After****S—Semiannual**

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
				<ul style="list-style-type: none">a. Remove filter elements (13) and check for loose connectors and torn mesh screening. Check that filter elements are a matched set. (Lot numbers must be the same on both filter elements.) Check connector surfaces of filter elements.	Filter elements have been crushed or wetted, have splits or cuts in outer edges of connectors, have dirty connector surfaces, or torn mesh screening. Filter elements are not a matched set.

2-5. PMCS Procedures—Continued

**TABLE 2-1. PREVENTIVE MAINTENANCE CHECKS
AND SERVICES (PMCS)*—Continued**

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
6	•		•	 <p><u>Filter Elements.</u>—Continued</p> <p>NOTE Flap buttons may be lubricated by moistening with water to ease buttoning.</p> <p>b. Check that filter elements (13) are properly installed and that pouch flaps (14) are buttoned.</p>	Filter elements are not properly installed or pouch flaps are not buttoned.


*Weekly, in combat situations.

B—Before**A—After****S—Semiannual**

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
	•			<p>c. Put on mask. Check for excessive resistance to breathing. Filter elements may be clogged with dust.</p> <p>NOTE Refer to page 2-43 for filter element replacement criteria.</p>	<p>Filter elements are clogged with dust. Replace filter elements.</p>

2-5. PMCS Procedures—Continued

TABLE 2-1. PREVENTIVE MAINTENANCE CHECKS
AND SERVICES (PMCS)*—Continued

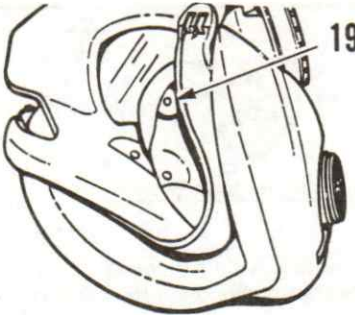
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
7		•	•	 <p><u>Nosecup Assembly.</u></p> <p>a. Check that nosecup assembly (15) is buttoned over long flap buttons (16). Check for torn buttonholes or missing buttons. Check nosecup valve seats (17) for dirt. Make sure chin</p>	Nosecup assembly is not buttoned. Buttonholes are torn or flap buttons are missing.

*Weekly, in combat situations.

B—Before


A—After

S—Semiannual

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
				<p>portion of nosecup assembly lies over chin stop (18).</p>  <p>The diagram shows a side view of a nosecup assembly. A valve disk, labeled '19', is located at the top of the assembly where it meets the chin stop. An arrow points to this valve disk.</p>	
	•	•	•	<p>b. Check that nosecup valve disks (19) are present. Rotate valve disks to be sure they are not stuck and check that valve disks are not curled.</p>	<p>Valve disks are missing, distorted, discolored, or do not operate properly.</p>

2-5. PMCS Procedures—Continued

TABLE 2-1. PREVENTIVE MAINTENANCE CHECKS
AND SERVICES (PMCS)*—Continued

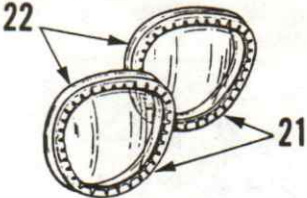
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
8				 <p><u>Eyelenses, Eyerings, and Eyelens Outserts.</u></p> <ul style="list-style-type: none"> a. Check eyelenses (2) for cracks, cuts, scratches, or stains that affect vision. b. Check eyerings (20) for distortion or corrosion. 	<p>Eyelenses are cracked, cut, scratched, or stained.</p> <p>Eyerings are bent or corroded.</p>

*Weekly, in combat situations.

B—Before

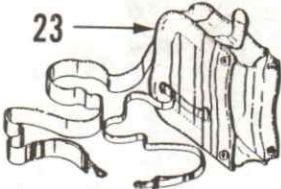
A—After

S—Semiannual

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
				 <p>c. Check eyelens outserts (21) for cracks, chips, or discoloration that affects wearer's vision. Check rubber rings (22) for tears, looseness, brittle spots, soft or sticky spots, or cracked rims.</p>	<p>Eyelens outserts are broken or distorted. Rubber rings are torn, loose, or deteriorated.</p>

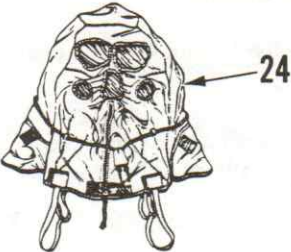
2-5. PMCS Procedures—Continued

TABLE 2-1. PREVENTIVE MAINTENANCE CHECKS
AND SERVICES (PMCS)*—Continued

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
9				<p style="text-align: center;">  </p> <p><u>Carrier.</u></p> <p>a. Empty carrier (23) and check for dirt, sharp edges, torn straps, or missing hardware.</p>	<p>Straps are torn or hardware is missing. There are sharp edges inside carrier that could damage mask.</p>

*Weekly, in combat situations.

B—Before**A—After****S—Semiannual**

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment Is not Ready/Available If:
	B	A	S		
10			•	b. Check for mildew.  <u>ABC-M6A2 Hood.</u>	Mildew is present.
	•	•	•	Examine hood (24) for: a. Cuts, holes or tears.	Hood has more than two pin holes in any one panel. Hood has

**May be authorized.

2-5. PMCS Procedures—Continued

TABLE 2-1. PREVENTIVE MAINTENANCE CHECKS
AND SERVICES (PMCS)*—Continued

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
10	•	•	•	<p><u>ABC-M6A2 Hood.</u>—Continued</p> <p style="text-align: center;">NOTE</p> <p style="text-align: center;">Needle holes at the seams are acceptable.</p> <p>b. Sticky or gummy area.</p> <p>c. Peeled or worn coating.</p> <p>d. Straps, cord, or hardware missing, frayed, or torn.</p>	<p>cuts, holes, or tears. Fabric is sticky, gummy, peeling, or worn. Straps, cord, or hardware missing, frayed, or torn. Zipper is torn, broken, or inoperative.</p>

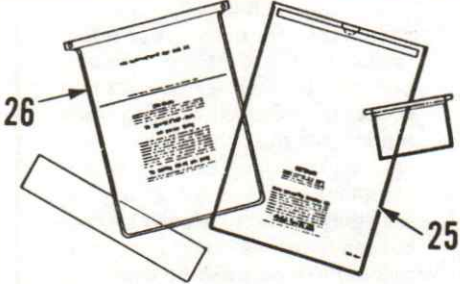
*Weekly, in combat situations.

B—Before**A—After****S—Semiannual**

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
				<p>e. Zipper torn, broken, inoperative.</p> <p>NOTE</p> <p>Hoods that are unserviceable for combat or for 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 by combat-ready troops. Identification for training use only will be according to local SOP.</p>	

2-5. PMCS Procedures—Continued

**TABLE 2-1. PREVENTIVE MAINTENANCE CHECKS
AND SERVICES (PMCS)*—Continued**

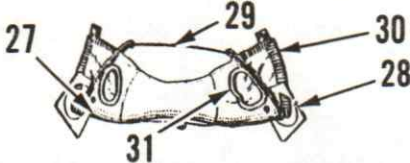
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
11				 <p><u>M1 Waterproof Bag.</u></p> <ul style="list-style-type: none"> • Check M1 waterproof bag (25) for cracks, tears, holes, and brittleness. 	M1 waterproof bag is torn or has holes.

*Weekly, in combat situations.

B—Before

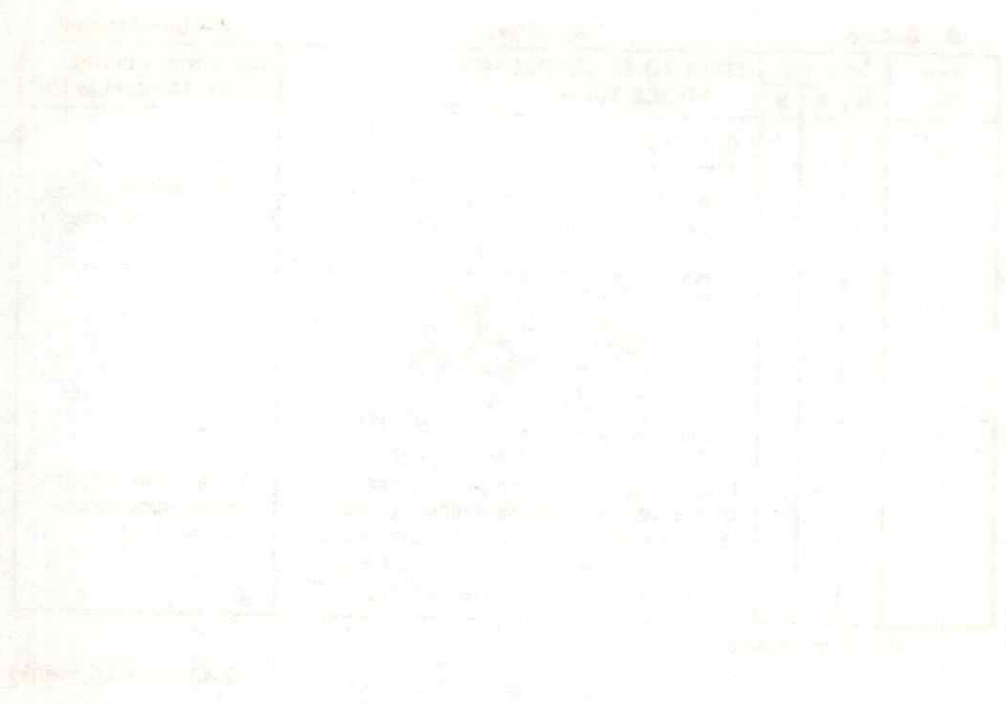
A—After

S—Semiannual

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available If:
	B	A	S		
12				<p><u>M1A1 Waterproof Bag.**</u></p> <p>• Check M1A1 waterproof bag (26) for cracks, tears, holes, and brittleness.</p> 	M1A1 waterproof bag is torn or has holes.
13				<p><u>M4 Winterization Kit.</u></p> <p>• Check prefilter (27) for dirt or tears. Check retainers (28) for cracks. Check that tape (29) is secured at top of winterization kit. Check that cheek flaps (30) will secure over inlet valve openings (31).</p>	Winterization kit has cracked retainers or torn prefilters.

**May be authorized.

2-42.3/(2-42.4 blank)



2-6. Filter Element Replacement Criteria

NOTE

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.

a. Replace filter elements if one or more of the following conditions exist. See table 2-2 (p 2-44) for filter element replacement intervals by climate.

(1) When and if chemical or biological warfare becomes a threat, immediately install M13A2 filter elements (green connector) and replace every 30 days, unless directed otherwise.

(2) Filter elements have been immersed in water.

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

2-6. Filter Element Replacement Criteria—Continued

(4) Filter elements have been crushed.

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

(6) Filter elements are listed as unserviceable in SB 3-30-2.

(7) Unit commander directs replacement of filter elements.

TABLE 2-2. M13A2 FILTER ELEMENTS—REPLACEMENT INTERVALS BY CLIMATE

Climate	Climate Categories*	Replacement Intervals (Months)**
Tropic	1, 2, and 3	2
Temperate	4, 5, and 6	12
Arctic	7 and 8	24

*Climate categories are defined by AR 70-38.

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

b. In tactical wartime situations, dispose of contaminated or uncontaminated filter elements by crushing connectors and burying the filter elements under at least 6 in. (15 cm) of earth. In peacetime, turn in used filter elements to organizational maintenance for disposal.

c. Refer to table 2-3 when replacing filter elements in your mask.

TABLE 2-3. SPECIFICATIONS FOR FILTER ELEMENTS

Filter Element Model Number	National Stock Number	Connector Color	Protects Against*
M13	4240-00-678-8474	Black	TRADOC training activities only.
M13A1	4240-00-934-7854	Black	TRADOC training activities only.
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. When exposed to DS2, rinse your mask in 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 page 2-98.

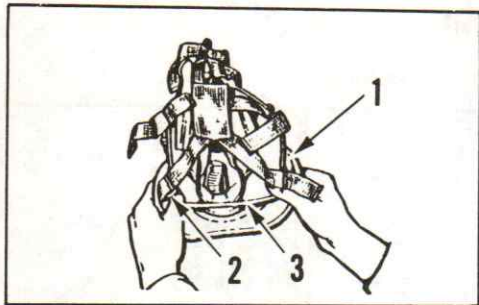
2-8. Operating Procedure

a. Putting On and Adjusting Your Mask.

NOTE

It's your responsibility to make sure your mask fits properly, to get a good seal, and to be as comfortable as possible. A qualified person will supervise initial fitting of your mask.

- (1) Loosen all straps within 1 inch (2 cm) of metal tip.
- (2) Remove headgear.

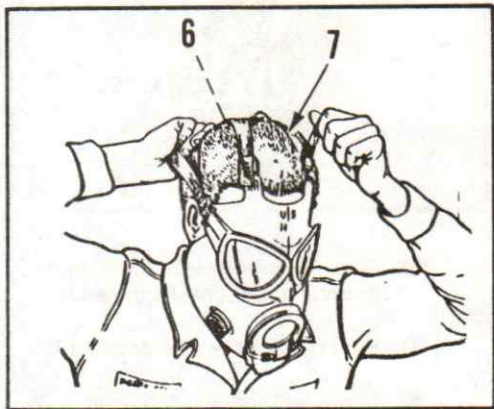
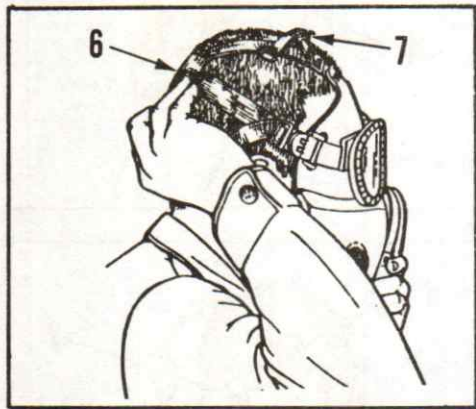


- (3) Open facepiece assembly (1) with thumbs under cheek straps (2).
- (4) Put chin in mask chin pocket (3).
- (5) Using both hands, slip head harness (4) over your head as you pull mask up onto your face. Be sure your ear is between the temple straps (5) and cheek straps (2).



2-8. Operating Procedure—Continued

a. Putting On and Adjusting Your Mask.—Continued



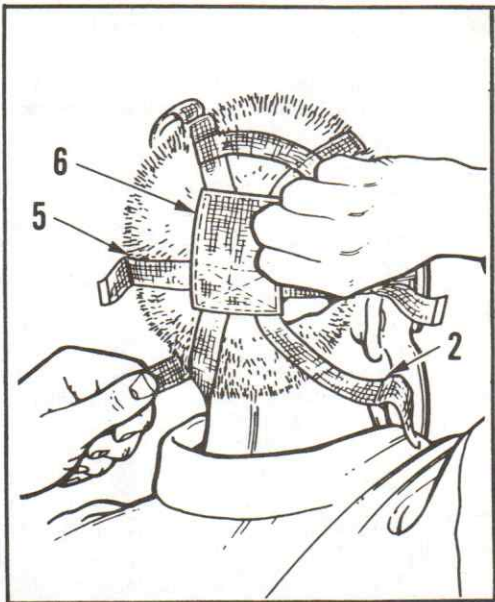
(6) To adjust mask, hold it against your chin and center head pad (6) at back of head.

(7) Release mask. Hold head pad (6) and forehead straps (7).

NOTE

Adjust all straps with a short jerky motion (not a steady pull).

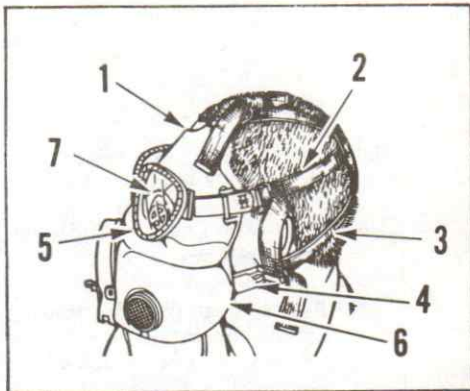
- (8) Still holding head pad (6), adjust cheek straps (2).
- (9) Release head pad (6). Adjust temple straps (5). Temple straps should not touch your ears.



2-8. Operating Procedure—Continued

b. **Fitting Your Mask.** Check for proper fit according to the following criteria.

- Edge (1) of mask comes well up on your forehead and within 1 inch (2 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 the tabs (4).
- Pupils of your eyes are near center of eyelenses (5).
- Mask does not press flesh so tightly that eyes partly close.
- Mask does not leak around edges (p 2-51).
- Bottom (6) of mask does not cut into your throat.



- Nosecup assembly (7) does not obscure your vision or press painfully on your nose.

NOTE

If the first size mask you try is difficult to fit, try another size mask (extra small (M17A1/M17A2 only), small, medium, or large).

c. Checking Your Mask for Leaks.

WARNING

You must check your mask for leaks when fitted and each time it is put on. A leaky mask will not protect you from toxic agents.

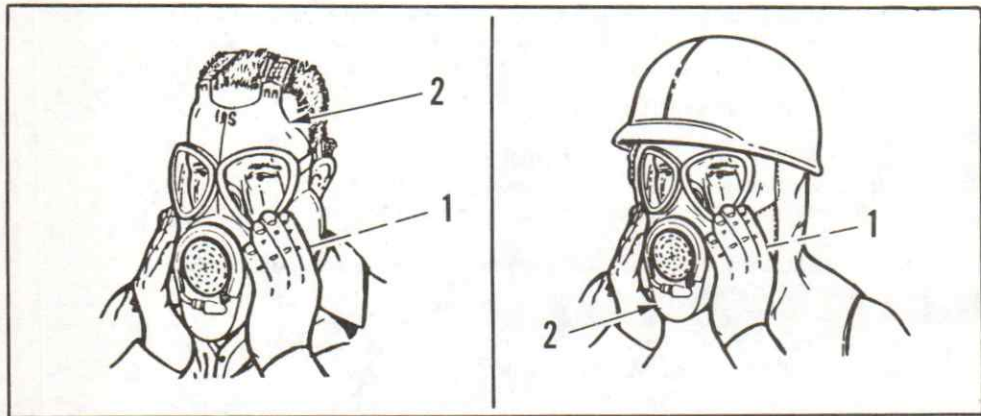
Keep face clean shaven. An unshaven face could cause a bad seal between face and mask.

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

- (1) Check that you have the right size mask.

2-8. Operating Procedure—Continued

c. Checking Your Mask for Leaks.—Continued



- (2) Press your palms firmly over inlet valves (1) at sides of mask. Do not press so hard that you distort facepiece and cause leaks.

- (3) Then inhale lightly and hold your breath for approximately 10 seconds. Note the following:
- If facepiece (2) collapses and remains collapsed during this time, your mask is effectively airtight.
 - If facepiece (2) does not collapse and remain so, locate and eliminate leak by doing the following steps as necessary.

NOTE

Leaks around the edge of your mask are usually caused by improper fit or wrong size of mask. You may find a leak by feeling incoming air on your face or you may feel a bulge at the edge of your mask with your finger, or a buddy may see a bulge.

- (4) Check for leaks at mask's edge by feeling for incoming air on your face.
- (5) Check for bulge by running finger around edge of your mask.

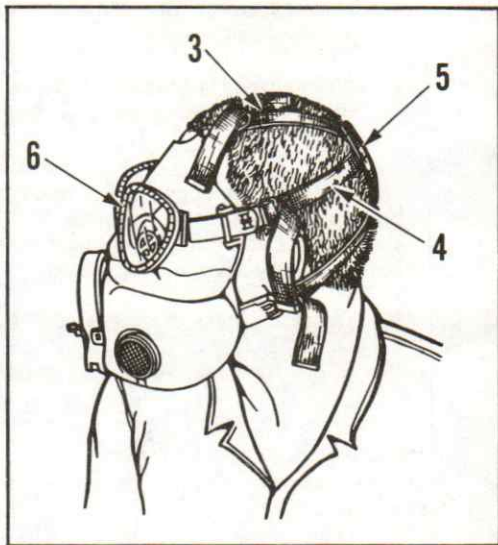
2-8. Operating Procedure—Continued

c. Checking Your Mask for Leaks.—Continued

NOTE

After each corrective action, retest.

- (6) If mask leaks at temple, adjust forehead straps (3) and temple straps (4).
- (7) If mask leaks at forehead, adjust temple straps (4).
- (8) If mask leaks at cheek, lift head pad (5) higher on your head and adjust forehead straps (3).
- (9) If mask leaks at throat or under chin, grasp eyerings (6) and lift mask higher on your head and adjust forehead straps (3).



(10) An air leak may be caused by an outlet valve (7) that is faulty or held open by dirt. Do the following steps.

- Breathe out forcefully several times; this will usually remove the dirt.
- If not, pull up voicemitter-outlet valve assembly cover (8), lift up outlet valve disk (9), and wipe underside of outlet valve disk (9) with a dry lint-free cheesecloth (item 5, App C).
- If outlet valve disk (9) is sticking, massage lightly with one finger.

NOTE

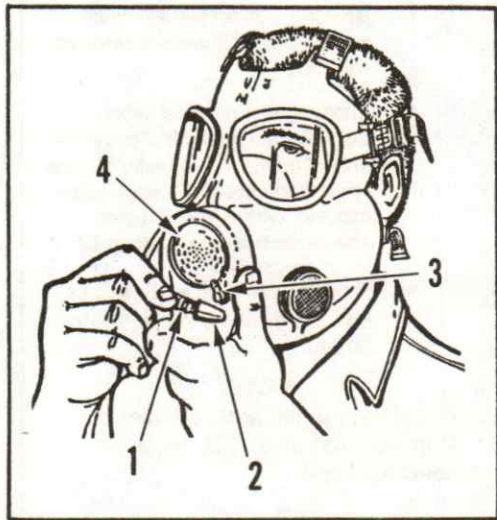
If you have a bad seal and cannot stop leak, see your NBC NCO for banana oil test.



2-8. Operating Procedure—Continued

d. Checking Drinking System for Leaks (M17A1/M17A2 Only).

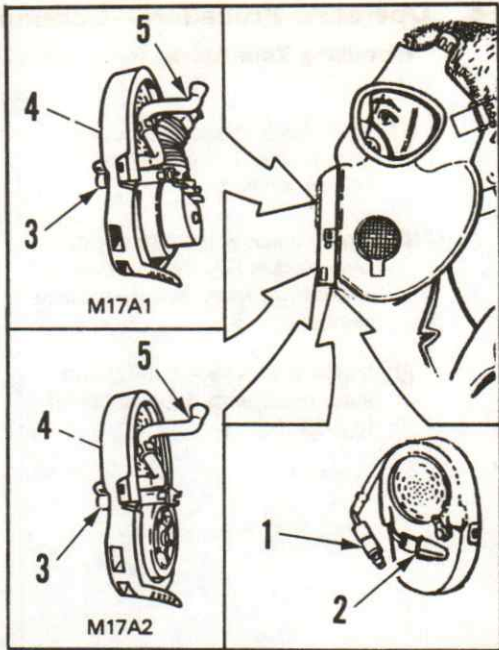
- (1) Steady mask, withdraw quick disconnect coupling half (1) from pocket (2), and let it hang freely.
- (2) Open your mouth and turn lever (3) all the way toward voicemitter (4).



WARNING

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

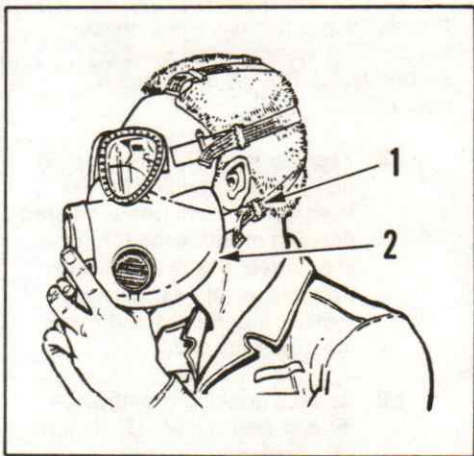
- (3) Keeping lever (3) turned, hold drinking mouthpiece (5) between your teeth and blow into drinking mouthpiece (5). You should feel positive pressure (resistance). If not, drinking system is defective and mask must be replaced.
- (4) Release drinking mouthpiece (5) and return lever (3) to vertical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



2-8. Operating Procedure—Continued

e. Removing Your Mask.

- (1) Roll cheek straps clip-buckle assemblies (1) forward to relieve tension.
- (2) Grasp mask with both hands at chin pocket (2). Pull mask out, away from face, and then up to remove.
- (3) Install your hood (p 2-72) and stow mask with hood in carrier (p 2-68).



f. **Putting On Your Mask.**

WARNING

Hold breath when putting on your mask. Toxic agents may be in the surrounding air. Do the steps for putting on your mask quickly. The mask must be on before taking another breath.

CAUTION

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

- (1) Hold your breath.
- (2) Open carrier (1) with left hand, holding flap (2) between snap fasteners. With right hand, grasp mask by front of face-piece assembly (3) and withdraw mask from carrier.



2-8. Operating Procedure—Continued

f. Putting On Your Mask.—Continued

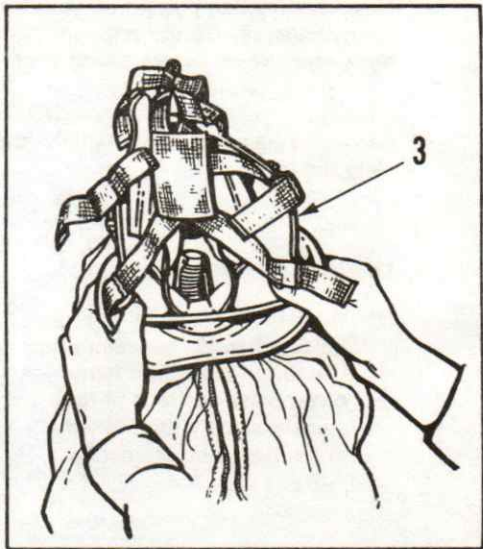
CAUTION

Do not snap facepiece assembly (3) wide open, especially in freezing temperatures. This may damage the mask. Open facepiece assembly gently.

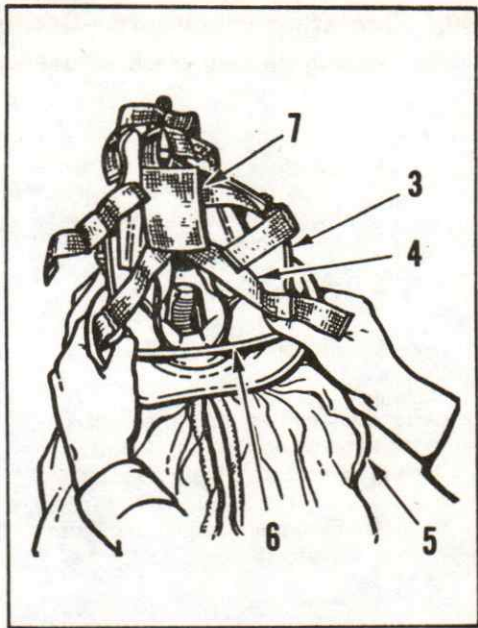
NOTE

Where hood is attached to your mask, let it hang inside out on the facepiece assembly.

- (3) To put on mask with hood, do the following:
- Remove headgear.



- Grasp the left side of the facepiece assembly with the left hand, and grasp the right side with right hand. Slip the thumbs under the cheek straps (4) and open the facepiece assembly (3). Allow hood (5) to hang inside out in front of mask.
- Seat chin in the chin pocket (6). Then slip the head harness (7) over the head to pull the mask up onto the face.
- Use both hands to position head harness straps and head pad flat against your head.
- Grasp cheek straps with both hands and adjust with a moderate jerk.



2-8. Operating Procedure—Continued

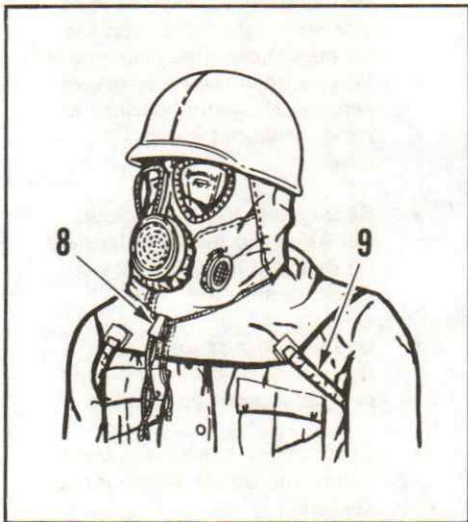
f. Putting On Your Mask.—Continued

- Carefully pull the back of the hood over the head so that the hood covers the head, neck, and shoulders.
- Zip front closed.
- Pull slider (8) snug.

NOTE

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

- (4) Fasten and adjust underarm straps (9).



- (5) Clear your mask by doing the following:
- Place one palm over openings at bottom of voicemitter-outlet valve assembly cover (10) and the other over the voicemitter (11).
 - Expel air held in your lungs forcefully so that it escapes around facepiece assembly.
- (6) Check your mask for leaks by doing the steps on page 2-51.
- (7) Resume normal breathing.



2-8. Operating Procedure—Continued

f. Putting On Your Mask.—Continued

WARNING

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

(8) Put on headgear.

(9) Snap carrier closed.

g. Connecting M17A1/M17A2 Mask Drinking System.

WARNING

Use M8 or M9 detector paper to check for contamination before using the M17A1/M17A2 mask drinking system. Do not connect the quick disconnect coupling half to your canteen until all mating surfaces have been checked. Chemical agents could 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.

- (1) Fill your plastic water canteen before entering contaminated area.

2-8. Operating Procedure—Continued

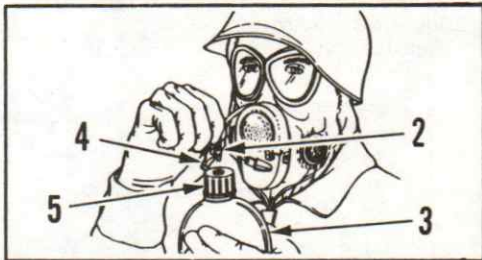
g. Connecting M17A1/M17A2 Mask Drinking System.—Continued

- (2) Steady mask and withdraw quick disconnect coupling half (1) from pocket (2).
- (3) Remove canteen (3) from its cover, flip open protective cover (4) of cap (5), and hold canteen (3) near your mask.

NOTE

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

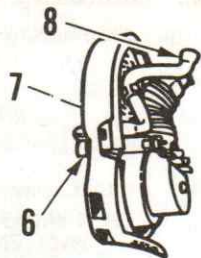
- (4) Push quick disconnect coupling half (1) in and turn to connect it to cap (5). Check that connection is tight.



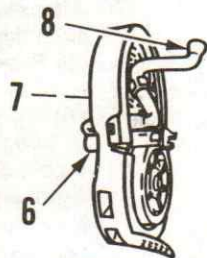
- (5) Turn and hold lever (6) all the way toward voicemitter (7). Open your mouth and hold drinking tube mouthpiece (8) between your teeth. Blow to create positive pressure. You should feel some resistance.

WARNING

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



M17A1



M17A2

2-8. Operating Procedure—Continued

g. Connecting M17A1/M17A2 Mask Drinking System.—Continued

NOTE

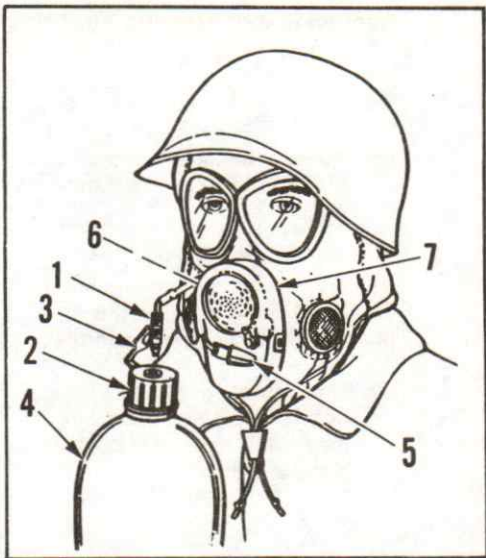
Do not tilt head back while drinking.

- (6) If system does not leak, raise and invert canteen (3), keeping lever (6) turned, and drink water from canteen (3).
- (7) After several swallows, allow air in mask to enter canteen (3). Repeat this as required.
- (8) When finished, turn canteen (3) upright and blow into drinking mouthpiece. Return lever (6) to vertical position.



h. Disconnecting M17A1/M17A2 Mask Drinking System.

- (1) Pull quick disconnect coupling half (1) from cap (2) and close protective cover (3).
- (2) Stow canteen (4).
- (3) 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).



2-8. Operating Procedure—Continued

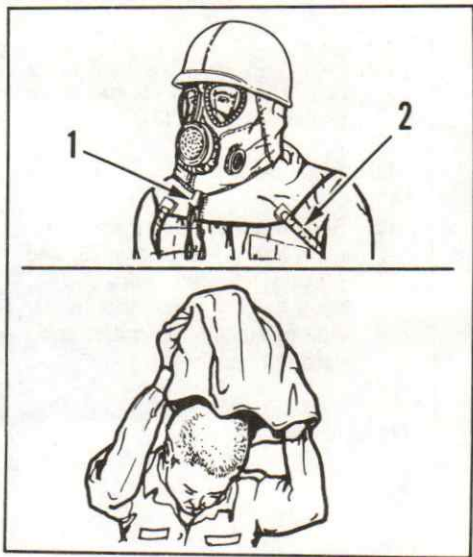
i. Removing and Stowing Your Hood and Mask.

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

CAUTION

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

- (2) Unzip front, gently pull back of hood completely over front of mask, and remove mask with hood attached.



CAUTION

Put only authorized items in carrier.

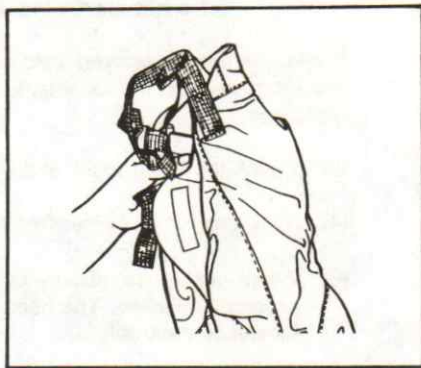
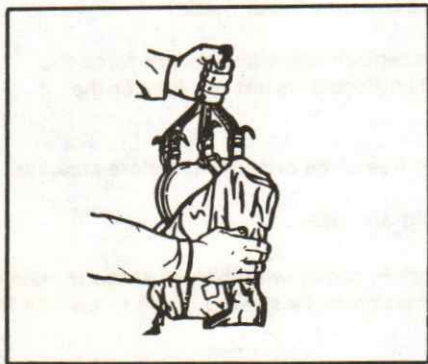
Do not store other items on top of your mask.

If head harness is stowed inside of facepiece assembly, do not force the head harness into the faceblank. Forcing could distort the tabs or the facepiece.

- (3) Check that your mask is dry and free of oil or solvents before stowing.
- (4) Keep interior of carrier free of dirt and trash.
- (5) When not in use, stow your mask in carrier with eyelens outserts installed to protect eyelenses. The head harness may be stowed inside or outside the facepiece assembly.

2-8. Operating Procedure—Continued

i. Removing and Stowing Your Hood and Mask.—Continued



- (6) Hold front of mask in a horizontal position and smooth the hood over it.
- (7) Fold the two edges of the hood over the inlet valve to create a "V" in the front of the hood. Store the underarm straps and cord inside the "V."

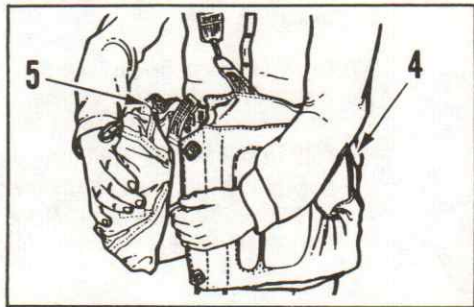
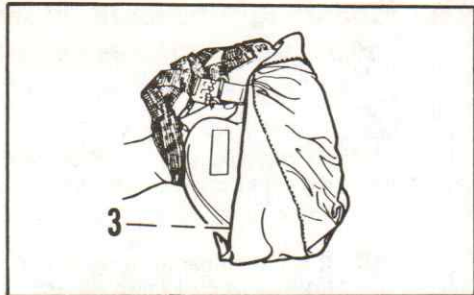
- (8) Fold the "V" upward to the left side of the mask if you are right-handed, and to the right side if you are left-handed. Do not let the hood cover the chin opening (3).
- (9) Hold the mask upright and put it in the carrier (4) facing out the carrier opening.
- (10) Let the head harness (5) swing free when you store the mask in the carrier.

WARNING

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

CAUTION

Abrasives such as sand and grit will scratch eyelenses.



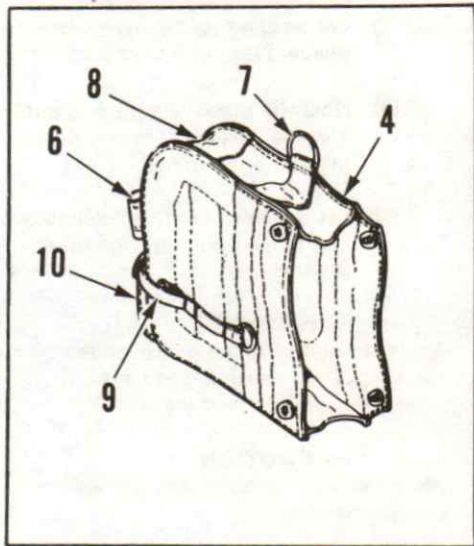
2-8. Operating Procedure—Continued

i. Removing and Stowing Your Hood and Mask.—Continued

(11) Store your mask in closed carrier (4) in a cool, dark, dry place.

(12) It is preferable to hang carrier (4) by shoulder strap (6) or D-ring (7) on short strap on top of carrier.

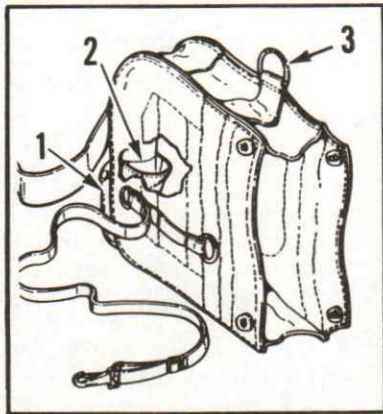
(13) Stow straps in one of two ways. Shoulder strap (6) may be stowed in upper pocket (8), waist strap (9) in bottom pocket (10), or both straps may be hooked to the D-ring (7) by their snaphooks.



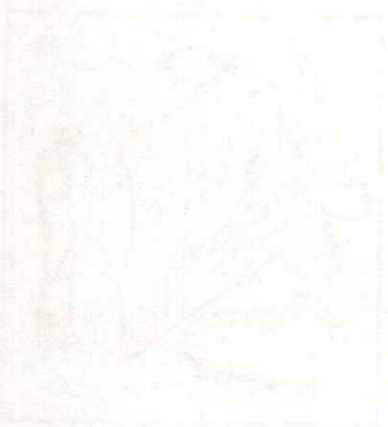
j. Stowing Items in Carrier Pockets.

- (1) Stow the M1 waterproof bag in lower outside pocket (1).
- (2) When stowing the M1A1 waterproof bag, when provided, roll up, slide into sleeve, bend in a U-shape, and stow in bottom of carrier.
- (3) If issued the following items, stow as follows:

- M13 decontaminating and reimpregnating kit. Stow in lower outside pocket (1).
- Detector paper. Stow in lower outside pocket (1) or inside pocket (2).
- Winterization kit. Stow in inside pocket (2).
- M258A1 decontaminating kit. Hang by hook from D-ring (3).



2-70.3/(2-70.4 blank)



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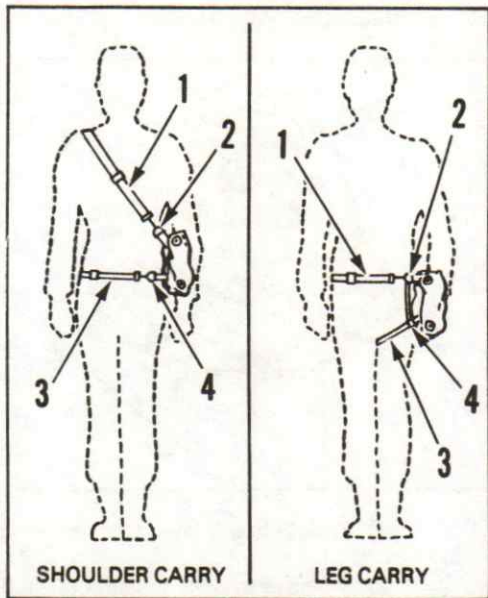
k. Wearing Your Carrier (Two Ways)

(1) The shoulder carry method is done as follows:

- Hook shoulder strap (1) to D-ring (2) and adjust.
- Hook waist strap (3) to round ring (4) and adjust.

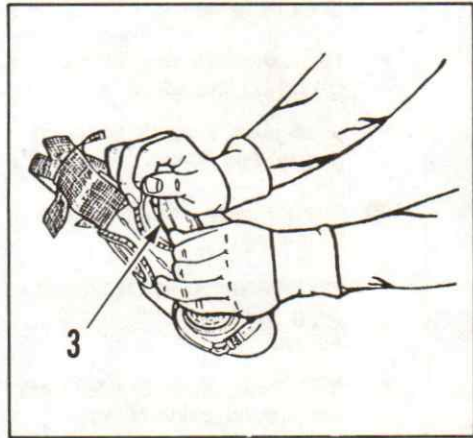
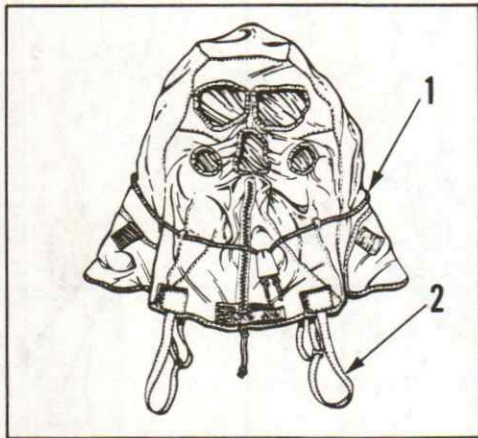
(2) The leg carry method is done as follows:

- Put shoulder strap (1) around waist and hook to D-ring (2). Adjust.
- Bring waist strap (3) from back and around inside of leg.
- Pass waist strap (3) through round ring (4), back around inside of leg, and hook to D-ring (2). Adjust.



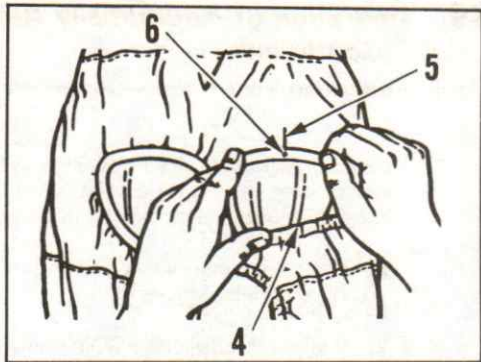
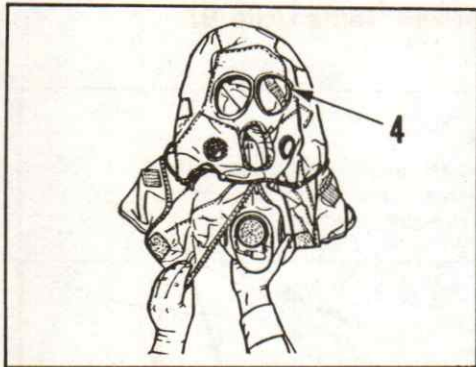
2-9. Operation of Additionally Authorized Items (App B)

a. Installing Your Hood.



(1) Unfold hood, lay it flat, loosen cord (1) and unfasten underarm straps (2).

(2) Remove eyepiece outserts (3) (p 3-20).



(3) Insert mask in hood and aline eyerings with eyering openings (4).

(4) Aline black line (5) on hood with dimple (6) in top of mask eyering.

CAUTION

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

(5) Gently slip eyering openings (4) over mask eyerings by pulling hood fabric along sewn seams, and bending mask at eyelens.

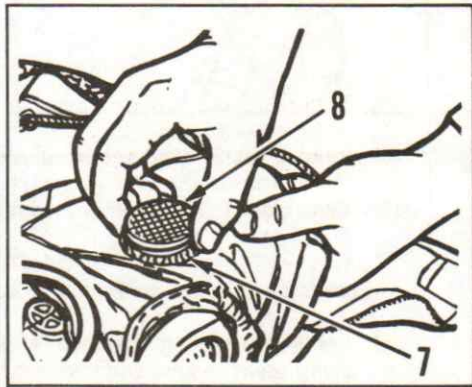
2-9. Operation of Additionally Authorized Items (App B) —Continued

a. Installing Your Hood.—Continued

CAUTION

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

- (6) Gently slip inlet valve openings (7) over inlet valves (8).
- (7) If inlet valve openings (7) in hood are smaller than outside diameter of inlet valves (8), avoid damage to hood by doing the following:
- Remove inlet valves (8). (See page 3-12.)
 - Slip base of inlet valves (8) through inlet valve openings (7) in hood.



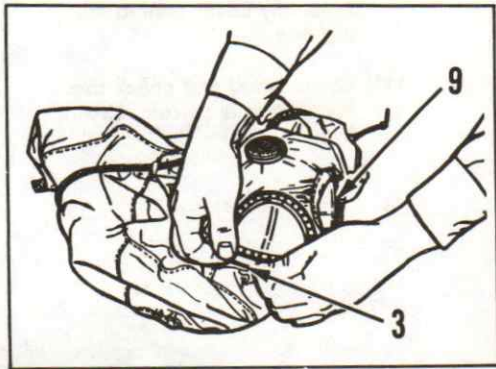
- Rotate inlet valves to ensure proper position of louvers (p 3-13).
- Install inlet valves (8) with hood attached to mask. (See page 3-13.)

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.

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

(9) Install eyelens outserts (3) (p 3-21).

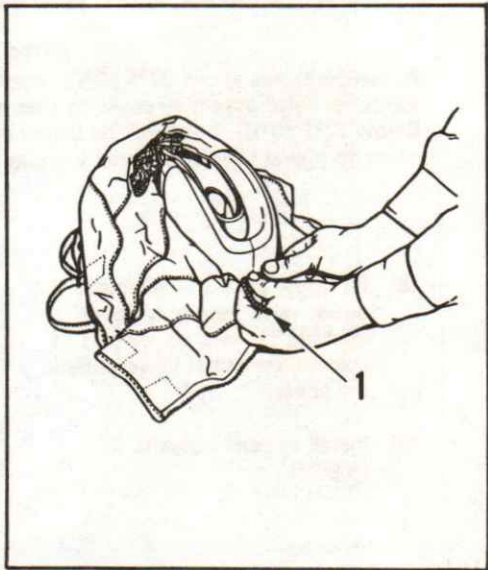


2-9. Operation of Additionally Authorized Items (App B) —Continued

a. Installing Your Hood.—Continued

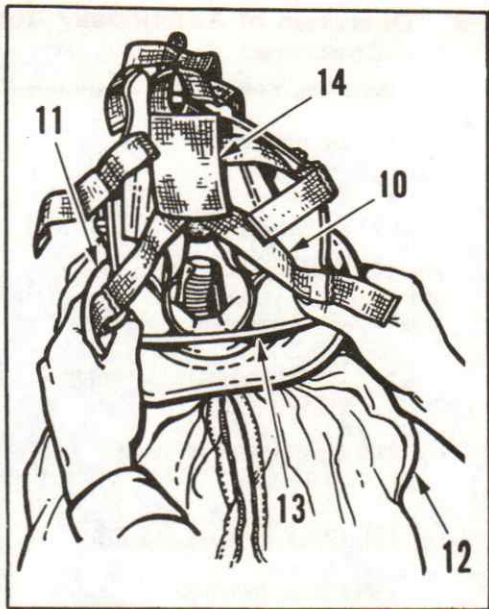
(10) Lift hood and tie the cord (1) under voicemitter-outlet valve assembly cover behind crimping ring.

(11) Lower hood and check that installation is correct. Unzip front.



(12) To put on mask with hood, do the following:

- Remove headgear.
- Grasp the left side of the facepiece assembly with the left hand, and grasp the right side with right hand. Slip the thumbs under the cheek straps (10) and open the facepiece assembly (11). Allow hood (12) to hang inside out in front of mask.
- Seat chin in the chin pocket (13). Then slip the head harness (14) over the head to pull the mask up onto the face.
- Carefully pull the back of the hood over the head so that the hood covers the head, neck, and shoulders.



2-9. Operation of Additionally Authorized Items (App B) —Continued

a. Installing Your Hood.—Continued

- Zip front closed.
- Pull slider (15) snug.

NOTE

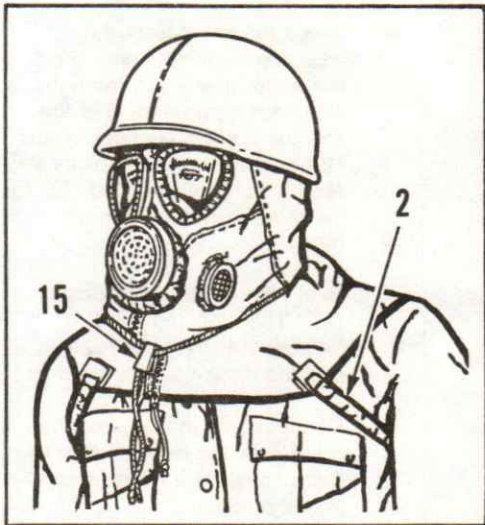
After you have adjusted the underarm straps on your hood, do not loosen them. Leave them adjusted.

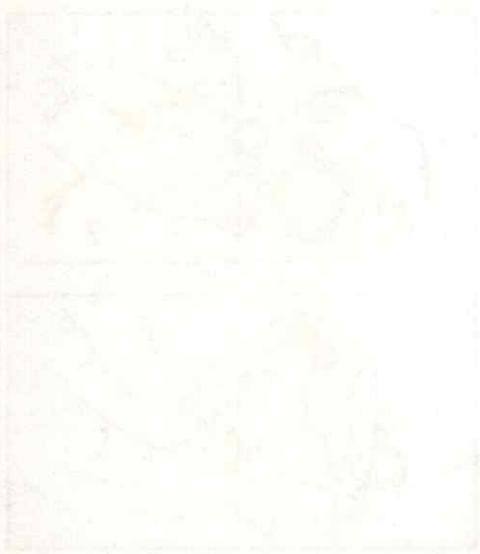
- Fasten and adjust underarm straps (2).

(13) Clear mask with hood
(p 2-62.1).

(14) Check for leaks (p 2-51).

(15) Put on headgear.



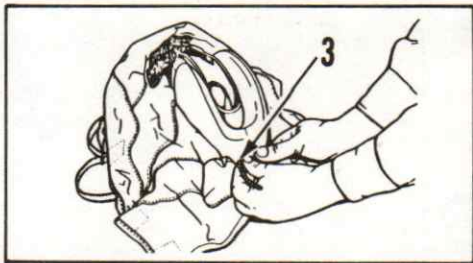
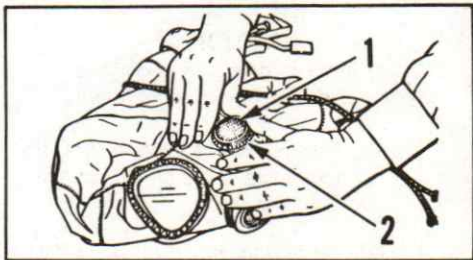


1. The orange-colored area represents the...
2. The yellow-colored area represents the...
3. The green-colored area represents the...
4. The blue-colored area represents the...

2-9. Operation of Additionally Authorized Items (App B) —Continued

b. **Detaching Hood From Mask.** If hood is not needed, remove from mask as follows:

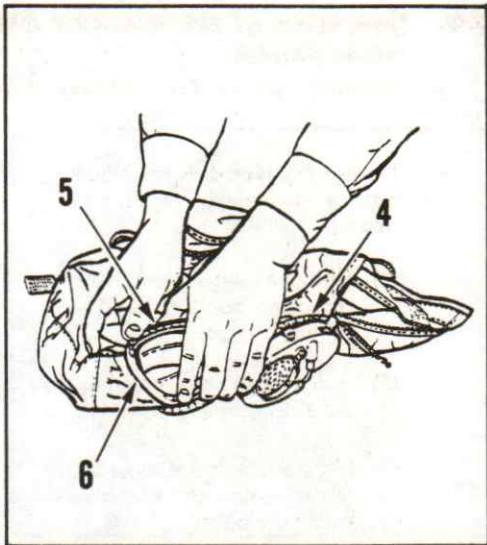
- (1) Remove inlet valves (1) before removing hood to avoid damage to hood.
- (2) Pull inlet valve openings (2) in hood from inlet valves (1).
- (3) Lift hood and untie cord (3) under voicemitter-outlet valve assembly cover.



CAUTION

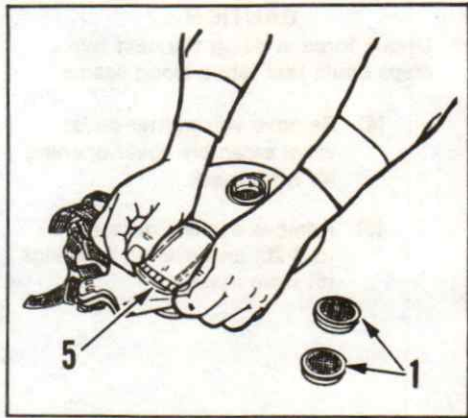
Undue force in doing the next two steps could tear fabric along seams.

- (4) Remove voicemitter-outlet valve assembly cover opening (4) from mask.
- (5) Remove eyelens outserts (5) (p 3-20) and eyering openings (6) from mask.



2-9. Operation of Additionally Authorized Items (App B) —Continued

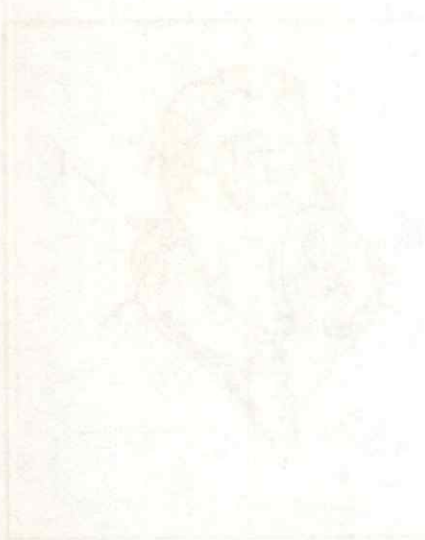
b. Detaching Hood From Mask.—Continued



(6) Gently pull mask out of hood.

(7) Install eyelens outserts (5) (p 3-21) and inlet valves (1) (p 3-13), if removed, on mask.

The Board of Directors of the University of California met on the 15th day of June, 1954, at the University Administration Building, Los Angeles, California.



The following report was presented by the Board of Directors of the University of California for the year ending June 30, 1954:

The Board of Directors of the University of California has the honor to acknowledge the receipt of the report of the Board of Regents of the University of California for the year ending June 30, 1954. The Board of Directors has reviewed the report and has approved the same for its own information.

The Board of Directors of the University of California has the honor to acknowledge the receipt of the report of the Board of Regents of the University of California for the year ending June 30, 1954. The Board of Directors has reviewed the report and has approved the same for its own information.

Section IV. OPERATION UNDER UNUSUAL CONDITIONS

2-10. Operation in Unusual Weather

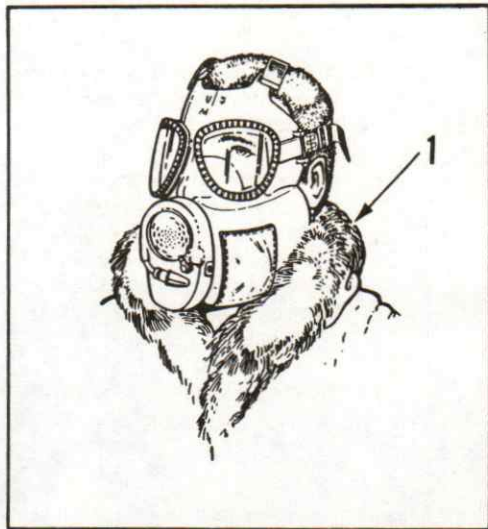
a. Putting on Your Mask in Cold Weather.

- (1) Stop breathing.
- (2) Remove headgear, mittens, and gloves as necessary to put on your mask properly.
- (3) Open outer garment (1) at neck 6 to 8 in. (15 to 20 cm). Put on mask.

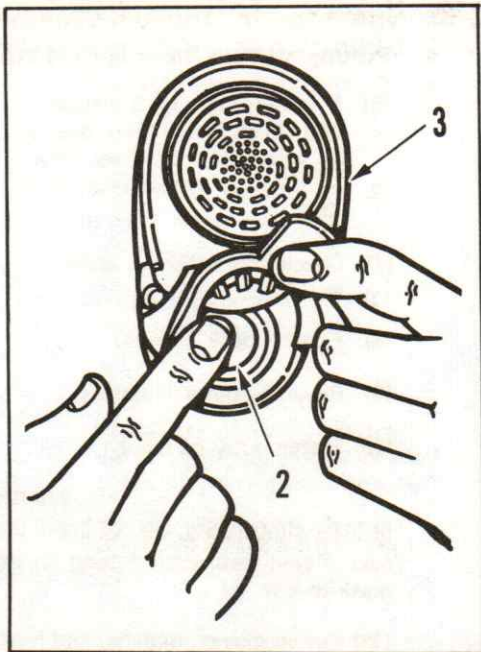
WARNING

Do not clear mask by exhaling a large volume of air. Moist air will frost eyelenses and impair vision.

- (4) Exhale slowly and lightly.



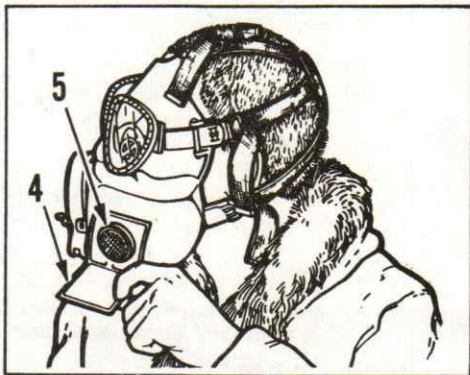
- (5) If outlet valve disk (2) sticks to outlet valve seat, do the following:
- Lift bottom of voicemitter-outlet valve assembly cover (3).
 - Massage outlet valve disk (2) with one finger, only when you exhale, until outlet valve disk (2) functions properly.
 - Reseat bottom of voicemitter-outlet valve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



2-10. Operation in Unusual Weather—Continued

a. Putting on Your Mask in Cold Weather.—Continued

- (6) If winterization kit is installed and cheek flaps (4) are over inlet valves (5), pull cheek flaps (4) down to expose inlet valves (5).
- (7) Check your mask for leaks (p 2-51).
- (8) Fasten cheek flaps (4).
- (9) Resume normal breathing.
- (10) Fasten outer garment.



WARNING

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

- (11) Put on gloves, mittens, and headgear as necessary.

NOTE

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

b. Removing Your Mask in Cold Weather.

WARNING

If you become overheated in extremely cold weather, do not remove your mask outdoors until your face and head have cooled and any sweat has dried. Frostbite may result if the mask is removed while your face is still wet. This is not necessary if you are in a warm shelter.

- (1) Remove mittens and gloves as necessary.
- (2) Unfasten outer garment at neck and remove headgear.
- (3) Unmask and shake ice accumulation from mask.
- (4) Stow mask (p 2-68) in carrier and snap carrier closed.
- (5) Put on headgear and fasten outer garment.
- (6) Put on gloves and mittens.

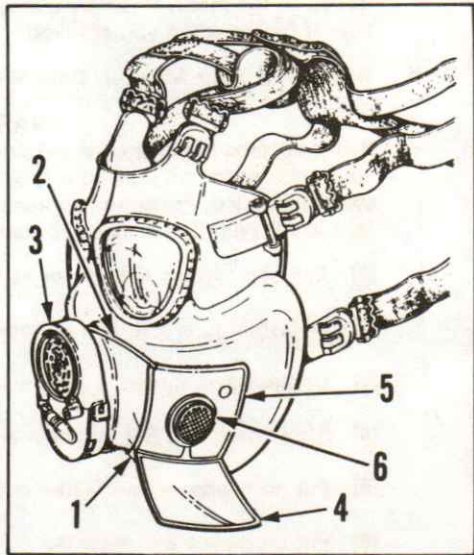
2-10. Operation in Unusual Weather—Continued

c. Installing Your Winterization Kit.

NOTE

When temperature is minus 20°F (minus 29°C) or below, you will install the winterization kit on your mask. The kit may be used at temperatures above minus 20°F (minus 29°C) if environmental conditions make its use necessary.

- (1) Fit prefilter (1) under chin with tape (2) over voicemitter-outlet valve assembly cover (3).
- (2) With cheek flaps (4) down, rotate retainers (5) back and fit prefilter openings around inlet valves (6).



(3) Rotate retainers forward and fit them around inlet valves.

(4) Raise and fasten cheek flaps.

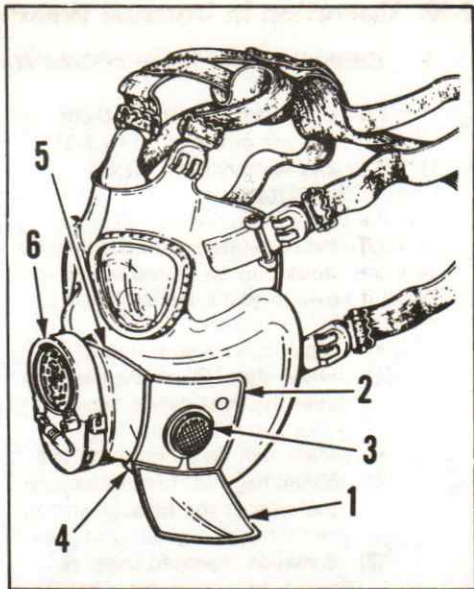
d. Removing Your Winterization Kit.

(1) Unfasten cheek flaps (1).

(2) Rotate retainers (2) off of inlet valves (3).

(3) Remove prefilter openings from around inlet valves (3) to release prefilter (4).

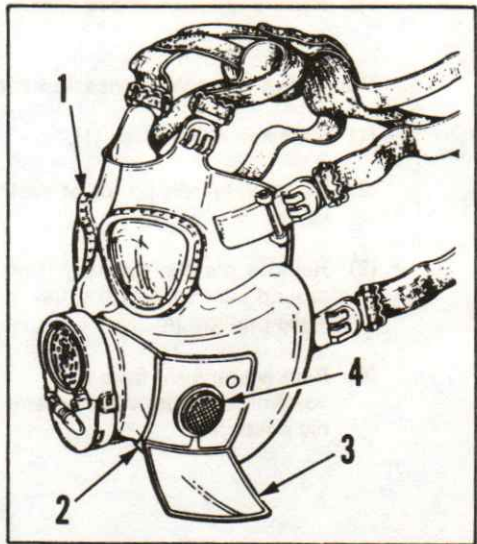
(4) Remove tape (5) from over voicemitter-outlet valve assembly cover (6).



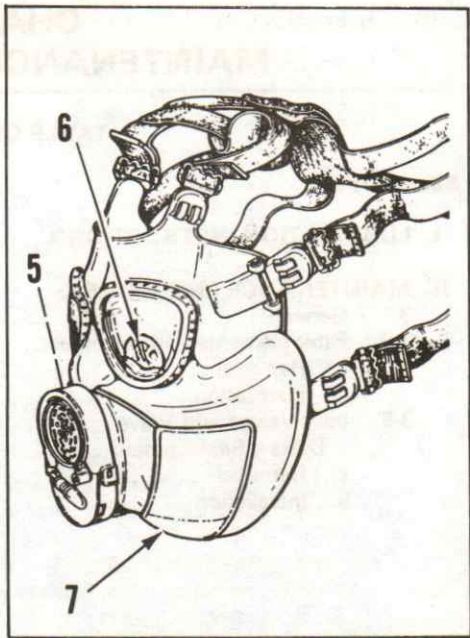
2-10. Operation in Unusual Weather—Continued

e. Caring for Your Mask in Cold Weather.

- (1) Check for proper installation of eyelens outserts (1) (p 3-21) and winterization kit (2) (p 2-102).
- (2) When winterization kit is used, mask can be stored in carrier one of two ways as follows:
 - Mask can be stored with the cheek flaps (3) of the prefilter over the inlet valves (4).
 - Mask can be stored with the cheek flaps (3) fastened under the chin of the mask.
- (3) Between repeated uses, remove your mask from carrier and flex and jar mask.



- (4) Warm mask when you can, but do not hang it near a heater or open flame.
- (5) In warm indoor area, dry mask with a cheesecloth (item 5, App C); do not use paper. Especially dry outlet valve (5) in voicemitter-outlet valve assembly and valve disks (6) in nose-cup assembly.
- (6) Remove any dirt from mask and carrier before stowing mask.
- (7) Before entering warm area from subzero temperature, remove frost and snow from mask.
- (8) Dry mask and prefilter (7) before putting on mask and reentering freezing area.



CHAPTER 3

MAINTENANCE INSTRUCTIONS

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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 requirements not authorized in this manual.

3-2. Filter Elements—Replacement

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 mask.

CAUTION

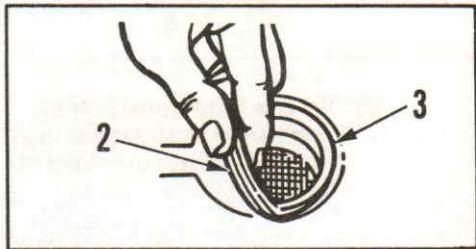
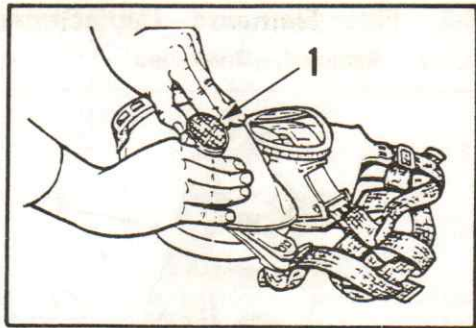
Remove hood prior to removal of filter elements to reduce the chance of damaging hood.

NOTE

To determine whether filter element replacement is required, refer to page 2-43.

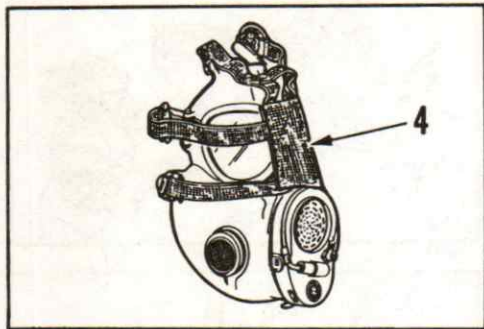
a. Removal.

- (1) Remove inlet valve (1) from the side of the mask by pushing up on bottom edge of inlet valve with thumbs.
- (2) Work collar (2) from under filter element connector flange (3).

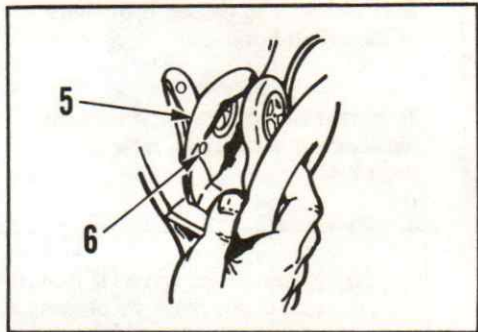


3-2. Filter Elements—Replacement—Continued

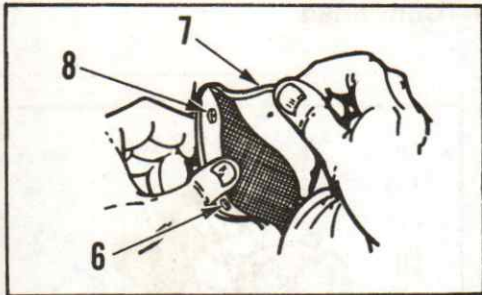
a. Removal.—Continued



- (3) Reverse head harness (4) by lengthening all straps and looping head harness over front of mask.



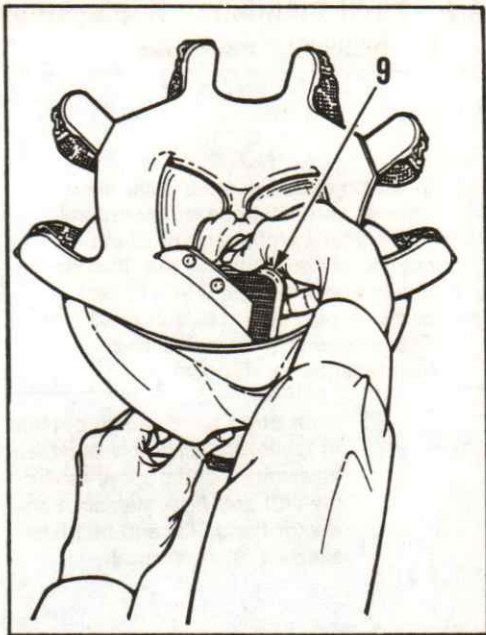
- (4) Unbutton nosecup assembly flaps (5) from two long flap buttons (6).



CAUTION

To avoid tears, do not stretch rubber any more than necessary to remove or install parts.

- (5) Unbutton two pouch flaps (7) from two long flap buttons (6) and two short flap buttons (8).
- (6) Grasp upper part of filter element (9) between fingers and thumb.



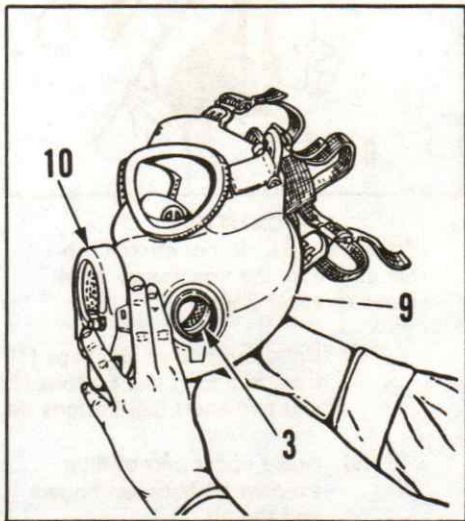
3-2. Filter Elements—Replacement—Continued

a. Removal.—Continued

NOTE

In wartime tactical situations, dispose of contaminated or uncontaminated filter elements by crushing connectors and burying the filter elements under at least 6 in. (15 cm) of earth. In peacetime, turn in used filter elements to organizational maintenance for disposal.

- (7) With other hand, grasp outside of facepiece assembly between voicemitter-outlet valve assembly (10) and filter element connector flange (3) and pull filter element (9) from mask.

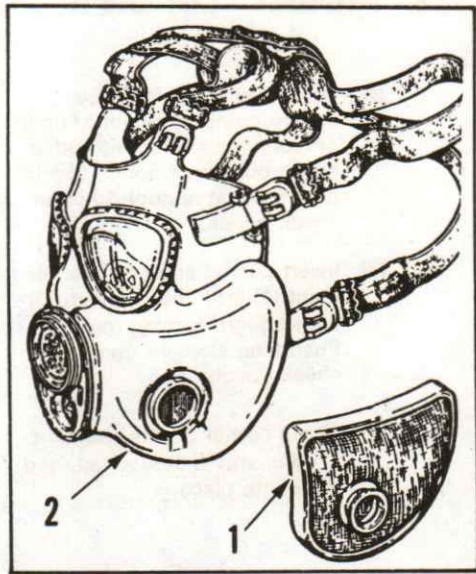


b. Installation.

NOTE

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 element's edge.

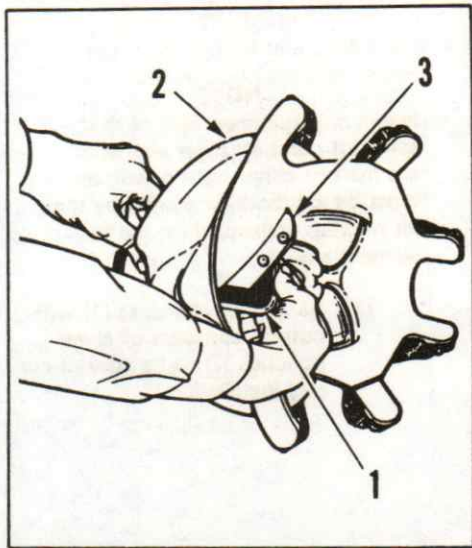
- (1) Aline filter elements (1) with outside contours of cheek pouches (2) to be sure of correct installation.



3-2. Filter Elements—Replacement—Continued

b. Installation.—Continued

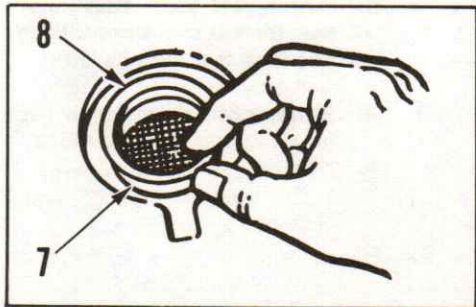
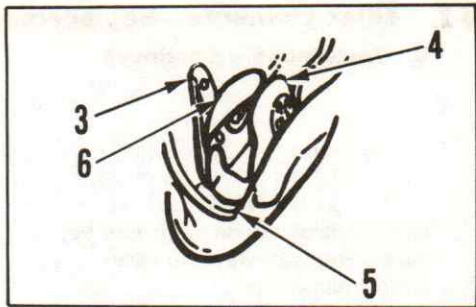
- (2) Hold filter element (1) by square corner with your fingers on connector side; with other hand, pull lower pouch flap (3) outward just enough to open cheek pouch.
- (3) Insert curved edge of filter element (1) into cheek pouch (2) with a slight turning motion. Push filter element up into cheek pouch (2).
- (4) Grasp corner of filter element (1) that was first inserted, and work into place.



CAUTION

Make sure that bottom of nosecup assembly (4) is positioned on top of chin stop (5) so moist exhaled air does not enter cheek pouches and damage filter elements.

- (5) Allow nosecup assembly flaps (6) and pouch flaps (3) to fall into normal position.
- (6) Work collar (7) under filter element connector flange (8) and recheck filter element position.
- (7) Adjust if necessary.



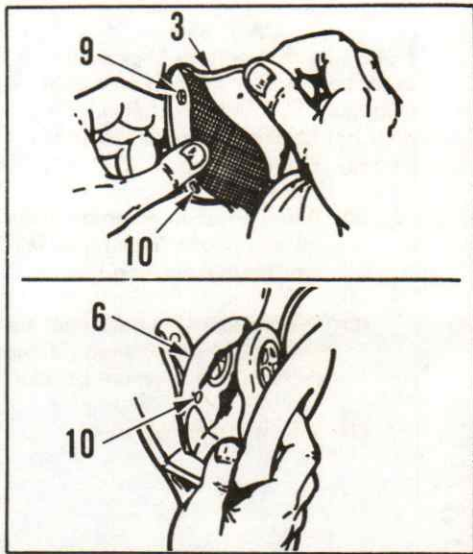
3-2. Filter Elements—Replacement—Continued

b. Installation.—Continued

NOTE

Flap buttons may be lubricated by moistening with water to ease buttoning.

- (8) Button two pouch flaps (3) on two short flap buttons (9) and two long flap buttons (10).
- (9) Button nosecup assembly flaps (6) on two long flap buttons (10).

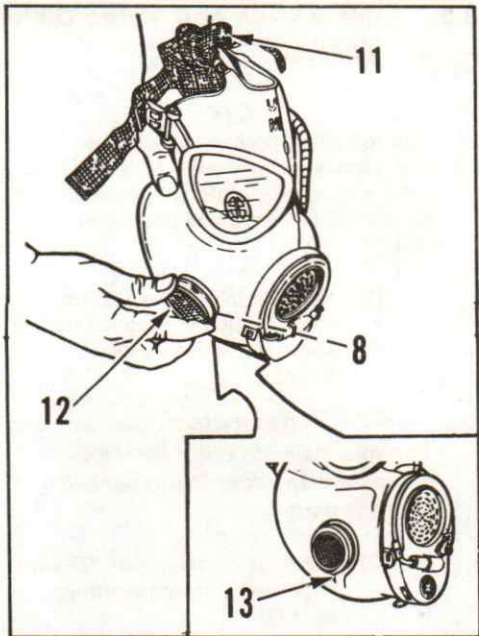


- (10) Return head harness (11) to normal position and adjust head harness straps as required.
- (11) Position inlet valve (12) over filter element connector flange (8) with the word TOP toward top of mask or until louvers are horizontal and pointing away from filter element.

NOTE

Install inlet valve so that the word TOP is directly opposite the groove (13) below the inlet valve opening on the faceblank. The word TOP may be missing or incorrectly positioned. Exact top may be marked with a white dot.

- (12) Snap inlet valves (12) into place.



3-3. Inlet Valves and Valve Disks—Replacement

a. Removal.

NOTE

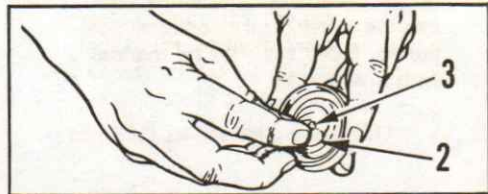
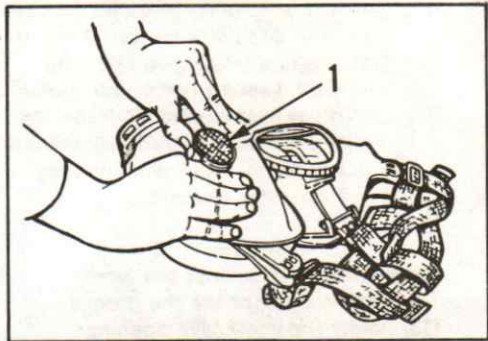
The following procedures are for the removal of one inlet valve and valve disk, and should be repeated for the other inlet valve and valve disk.

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

CAUTION

To avoid tears, do not stretch rubber more than necessary to remove or install parts.

- (2) Lift edge of valve disk (2) with fingernail and remove from stud (3).



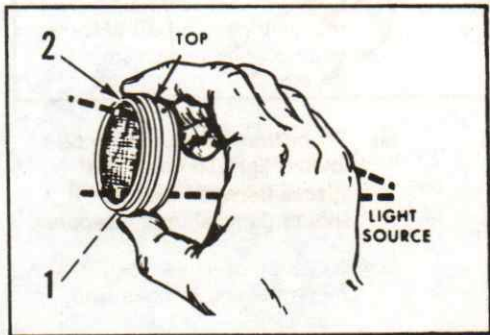
b. Installation.

NOTE

The following procedures are for the installation of one inlet valve and valve disk, and should be repeated for the other inlet valve and valve disk.

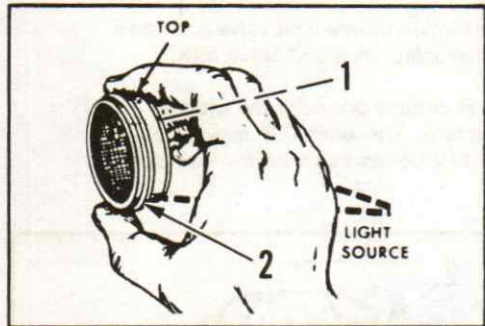
Install inlet valve so that the word **TOP** is directly opposite the groove below the inlet valve opening on the faceblank. The word **TOP** may be missing or incorrectly positioned. Exact top may be marked with a white dot.

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

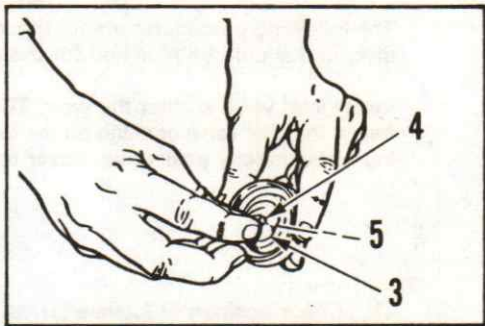


3-3. Inlet Valves and Valve Disks—Replacement—Continued

b. Installation.—Continued



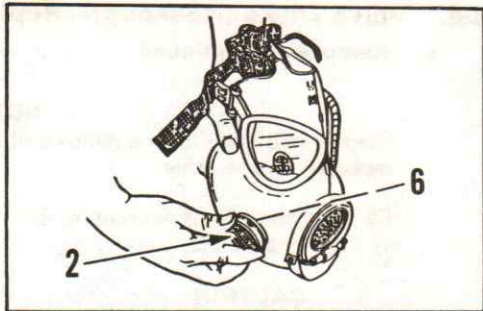
- (2) Tilt bottom of inlet valve (2) toward light source. Light spaces between louvers (1) should diminish and disappear.



- (3) Install valve disk (3) by using thumb and forefinger to stretch edge of hole over stud (4) of inlet valve.
- (4) Rotate to be sure valve disk (3) is not sticking and rests flat on inlet valve seat (5).

(5) Position inlet valve (2) over one side of filter element connector flange (6) with the word TOP, if located correctly, toward top of mask or until louvers are horizontal.

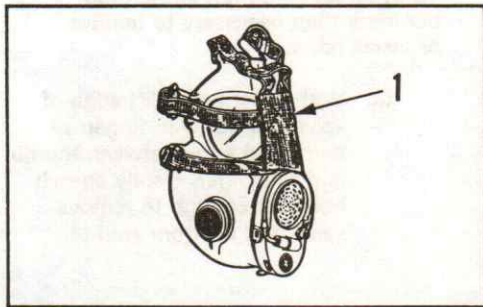
(6) Snap inlet valve (2) into place.



3-4. Valve Disks (Nosecup)—Replacement

a. Removal.

(1) Reverse head harness (1) by lengthening all straps and looping head harness over front of mask.



3-4. Valve Disks (Nosecup) — Replacement — Continued

a. Removal. — Continued

NOTE

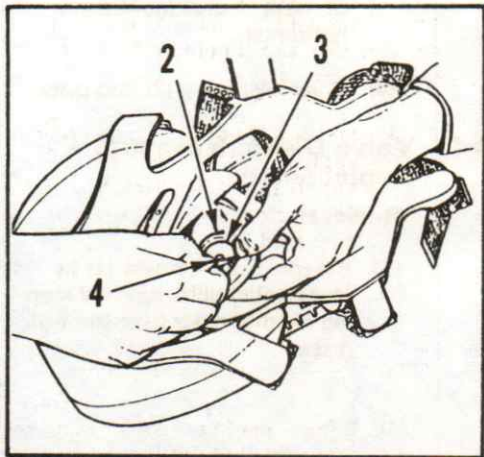
Steps 2 and 3 are for the removal of one valve disk and should be repeated for the other.

- (2) Curl back lip of nosecup to expose valve (2).

CAUTION

To avoid tears, do not stretch rubber more than necessary to remove or install parts.

- (3) With other hand, lift edge of valve disk (3) with fingernail and grasp edge between thumb and forefinger. Gently stretch hole just enough to remove valve disk (3) from stud (4).



b. Installation.

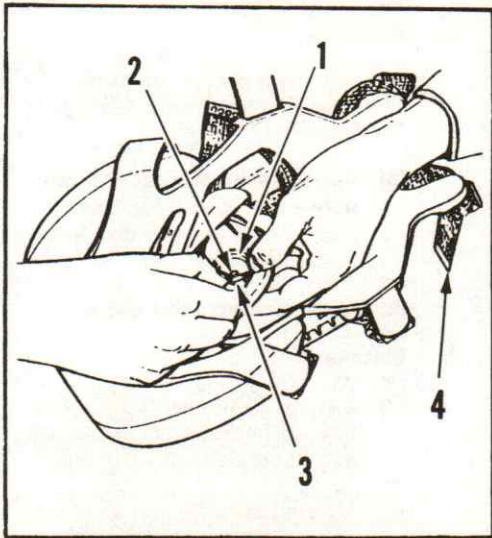
CAUTION

To avoid tears, do not stretch rubber more than necessary to remove or install parts.

NOTE

Steps 1 and 2 are for removal of one valve disk and should be repeated for the other.

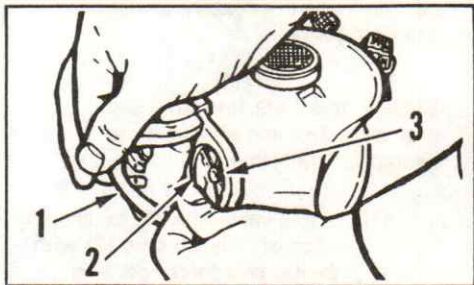
- (1) Install valve disk (1) by slipping edge of hole on stud (2) with thumb and forefinger and gently stretching valve disk (1) over stud (2).
- (2) Be sure that valve disk (1) is flat on nosecup valve seat (3).
- (3) Return lip to normal position.
- (4) Return head harness (4) to normal position and adjust head harness straps. See page 2-48 for procedure to adjust head harness straps.



3-5. Outlet Valve Disk – Replacement

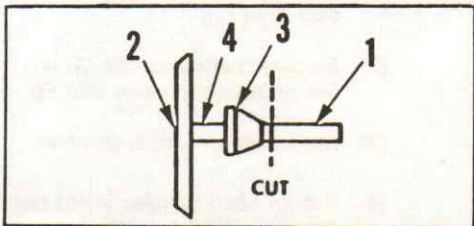
a. Removal.

- (1) Lift lower portion of voice-mitter-outlet valve assembly cover (1).
- (2) Pinch outlet valve disk (2) between thumb and forefinger and pull outlet valve disk from outlet valve seat (3).
- (3) Discard outlet valve disk (2).



b. Installation.

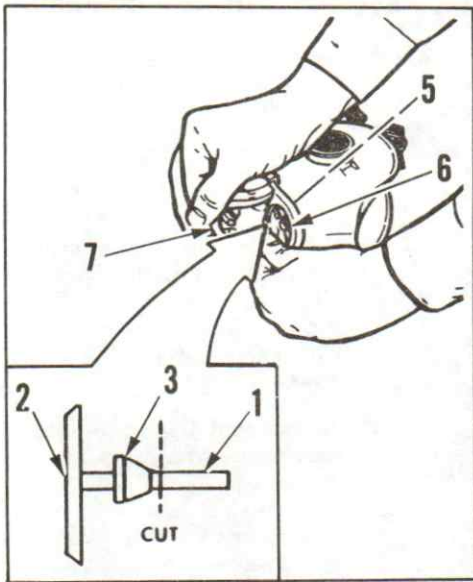
- (1) Cut tail (1) of new outlet valve disk (2) back almost to tapered end of cone (3) (M17A1 only).
- (2) Moisten cone (3) and stem (4) of new outlet valve disk (2) with water or saliva.



NOTE

When installing outlet valve disk on M17 or M17A2 mask, the tail (1) may be used to pull the outlet valve disk into place from the inside of mask.

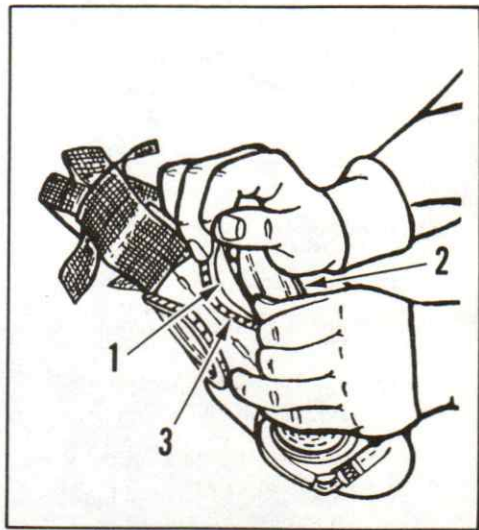
- (3) Start tail (1) of new outlet valve disk (2) through hole (5) in middle of outlet valve seat (6).
- (4) With rotating motion, press the new outlet valve disk (2) in until shoulder of cone (3) slips through hole in outlet valve seat (6).
- (5) Check that new outlet valve disk (2) lies flat and smooth and has continuous contact with outlet valve seat (6).
- (6) Reseat voicemitter-outlet valve assembly cover (7).



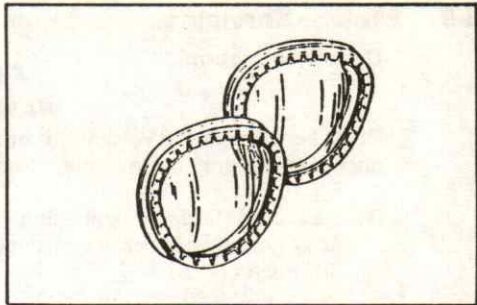
3-6. Eyelens Outserts—Servicing and Replacement

a. Removal.

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

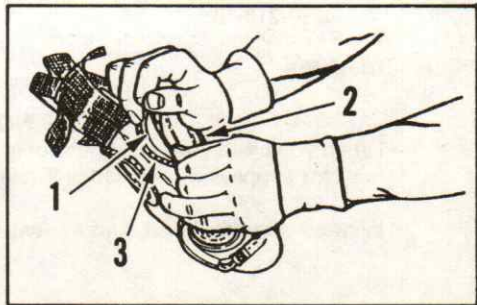


- b. Servicing.** Clean and polish eyelens outserts with polish (item 8, App C) or optical lens cleaning compound (item 4, App C).



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.



3-7. Mask—Servicing

a. Decontamination.

WARNING

DS2 can damage the voicemitter of the mask. When exposed to DS2, rinse your mask in clean water. Do not wet the filter elements.

- (1) Use the M13 decontaminating kit to minimize the dangers of agent which may get on your mask while you are wearing it. Refer to TM 3-4230-211-10 for instructions.
- (2) Use the M258A1 skin decontaminating kit according to instructions in TM 3-4230-216-10.

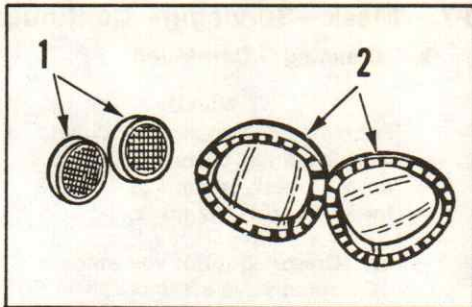
b. Cleaning.

NOTE

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

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

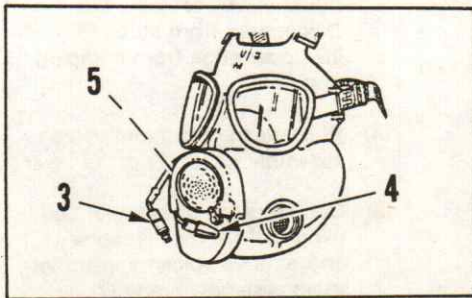
- (1) Remove inlet valves (1) (p 3-12) and eyelens outserts (2) (p 3-20).



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).



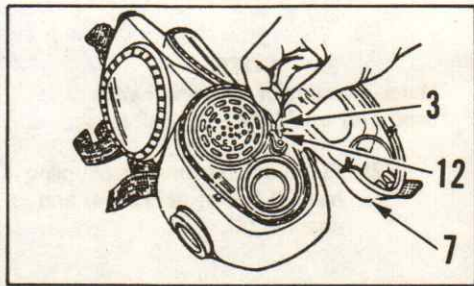
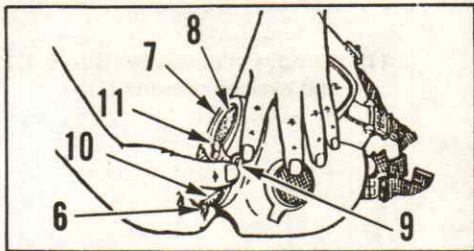
3-7. Mask—Servicing—Continued

b. Cleaning.—Continued

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.

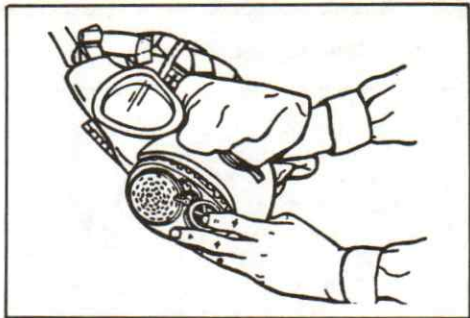
- (3) Grasp tab (6) of voicemitter-outlet valve assembly cover (7) and lift away from voicemitter-outlet valve assembly (8). Disconnect from studs (9) and lift upper edge from crimping ring (10).
- (4) Pull voicemitter-outlet valve assembly cover (7) off of lever (11).
- (5) Detach quick disconnect coupling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



- (6) If needed, remove greasy or oily substances from your mask with rubbing alcohol (item 6, App C) and clean cheesecloth (item 5, App C).

CAUTION

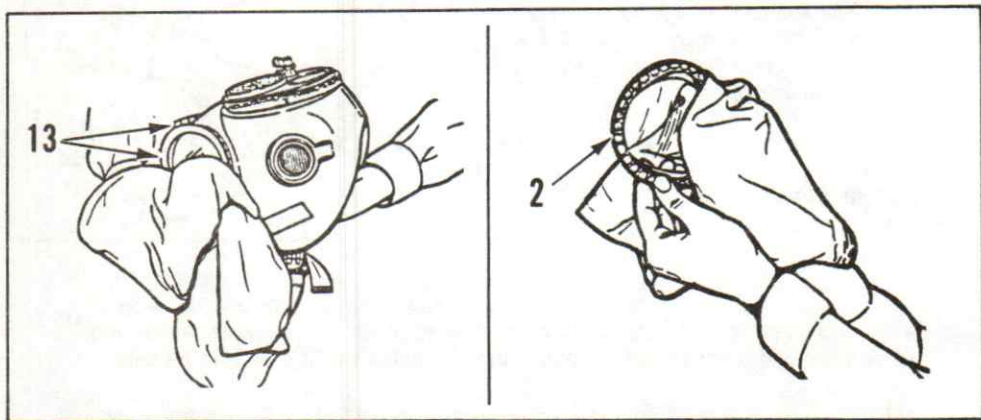
Wash carefully so that filter elements do not get wet.



- (7) Clean your mask inside and out, using clean cheesecloth (item 5, App C) and soap (item 9, App C). Dip the cheesecloth in warm soapy water and wring cloth almost dry. A soft brush (item 1, App C) may also be used.
- (8) Rinse by wiping with a clean cheesecloth (item 5, App C) that has been dipped in warm clear water and wrung almost dry.

3-7. Mask—Servicing—Continued

b. Cleaning.—Continued



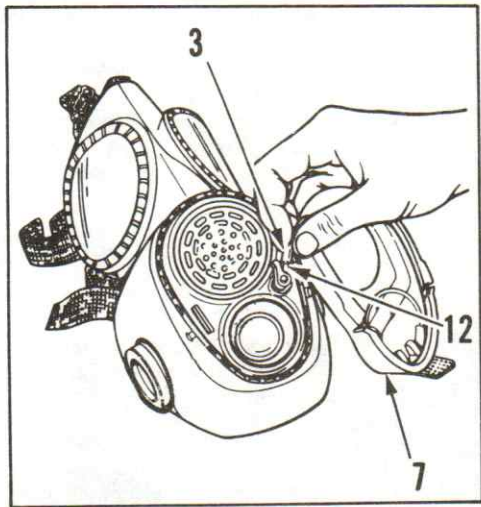
(9) Dry mask with cheesecloth (item 5, App C) or allow to air-dry.

(10) To clean and polish eyelenses (13) and eyelens outserts (2), use polish (item 8, App C) or optical lens cleaning compound (item 4, App C).

NOTE

To reassemble voicemitter-outlet valve assembly cover, follow steps 11 thru 14 for M17A1/M17A2 mask or step 13 for M17 mask; then proceed to step 15.

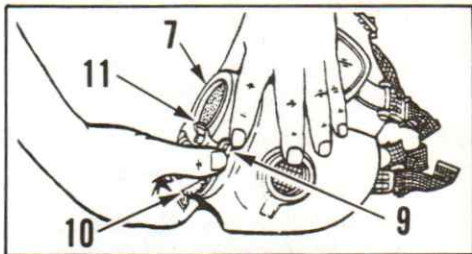
- (11) Moisten end of quick disconnect coupling half (3) with water and attach quick disconnect coupling half (3) through voicemitter-outlet valve assembly cover (7) to adapter (12).



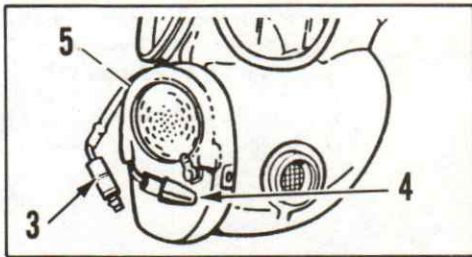
3-7. Mask—Servicing—Continued

b. Cleaning.—Continued

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



- (14) Place quick disconnect coupling half (3) in pocket (4) and channel (5).



- (15) Install eyelens outserts (2)
(p 3-21) and inlet valves (1)
(p 3-13).

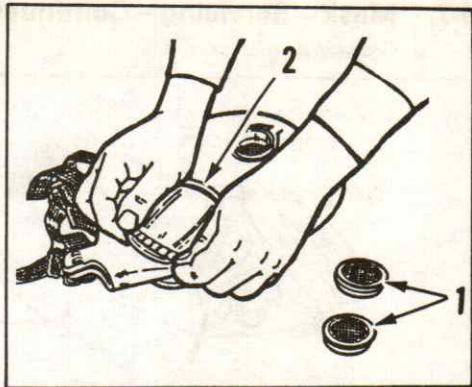
WARNING

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.



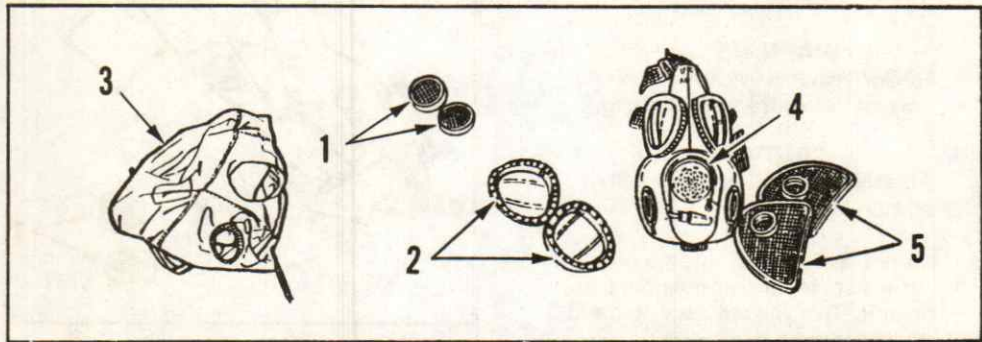
NOTE

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

- (16) Check that carrier is free of any foreign matter. Clean soiled carrier with stiff bristled brush (item 2, App C) and clear water.

3-7. Mask—Servicing—Continued

c. Sanitizing.



NOTE

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

- (1) Remove inlet valves (1) (p 3-12), eyelens outserts (2) (p 3-20), hood (3) (p 2-82), voicemitter-outlet valve assembly cover (4) (steps 2 thru 5, p 3-23), and filter elements (5) (p 3-3).

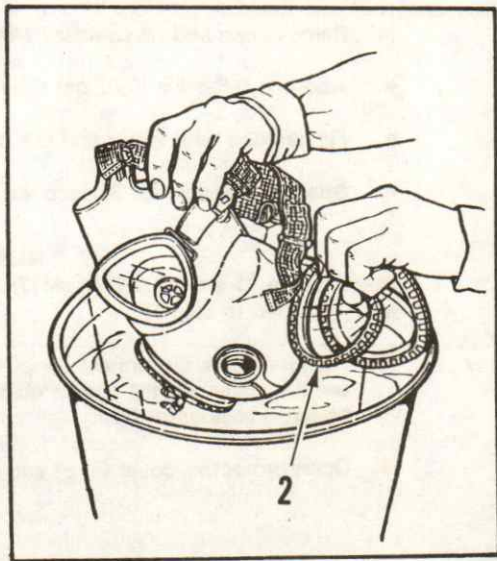
CAUTION

Set filter elements aside so they will not get wet or damaged.

NOTE

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

- (2) Using a utility pail (item 7, App C), immerse mask and eyelens inserts (2) in warm, soapy water, using soap (item 9, App C).
- (3) Agitate for 2 or 3 minutes. Rinse twice in clear, warm water, agitating 2 or 3 minutes each time. Remove mask and dry with clean cheesecloth (item 5, App C).



3-7. Mask—Servicing—Continued

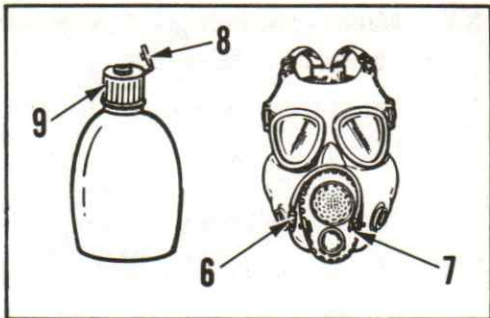
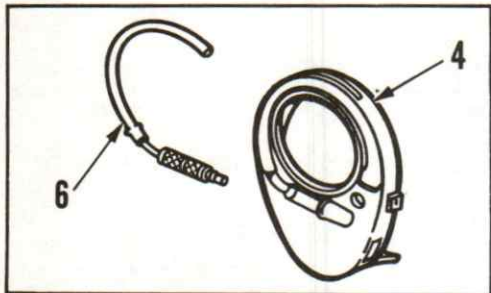
c. Sanitizing.—Continued

- (4) Remove cap and fill standard 1-quart (0.95-l) canteen half-full with water.
- Add one 0.5-gram (0.02 oz) tube of calcium hypochlorite (item 3, App C).
 - Fill canteen with water and put cap on canteen.
 - Shake vigorously for 30 seconds to dissolve calcium hypochlorite.

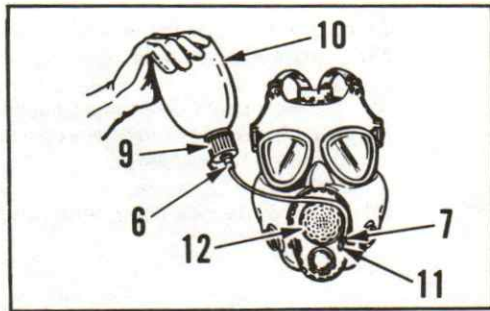
NOTE

Steps 5 thru 11 are for M17A1/M17A2 masks only. If your mask is an M17, proceed to step 12.

- (5) Remove quick disconnect coupling half (6) from voicemitter-outlet valve assembly cover (4), dip end of quick disconnect coupling half (6) in water, and attach it to adapter (7).
- (6) Open protective cover (8) of cap (9) and position mask face-up.



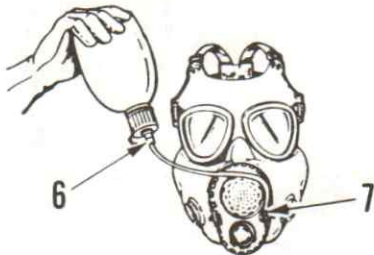
- (7) Attach quick disconnect coupling half (6) to cap (9).
- (8) Invert canteen (10) above mask; turn lever (11) toward voicemitter (12) and hold while sanitizing solution flows through quick disconnect coupling half (6).
- (9) Lower canteen (10) to upright position or squeeze sides to vent canteen (10).



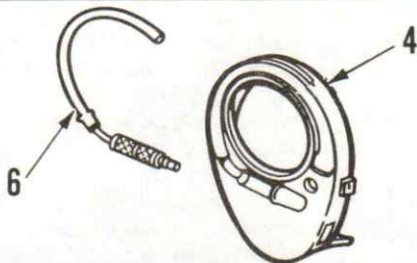
3-7. Mask—Servicing—Continued

c. Sanitizing.—Continued

(10) Use entire contents and rinse twice with clear water in this same way.



(11) Disconnect quick disconnect coupling half (6) from adapter (7) and install quick disconnect coupling half (6) through hole at top of voicemitter-outlet valve assembly cover (4).

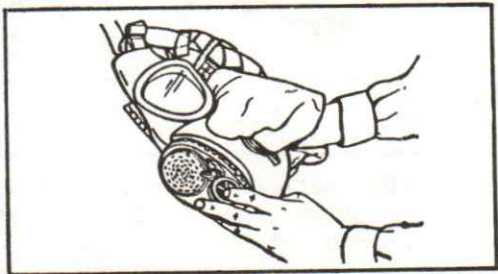
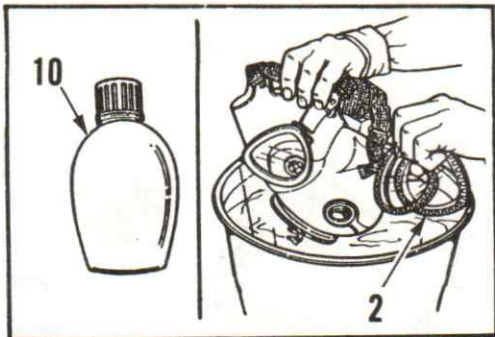


- (12) Using canteen (10), prepare enough sanitizing solution to cover mask and eyelens outserts (2). (See step 4 on p 3-32.) Empty sanitizing solution into utility pail (item 7, App C).

CAUTION

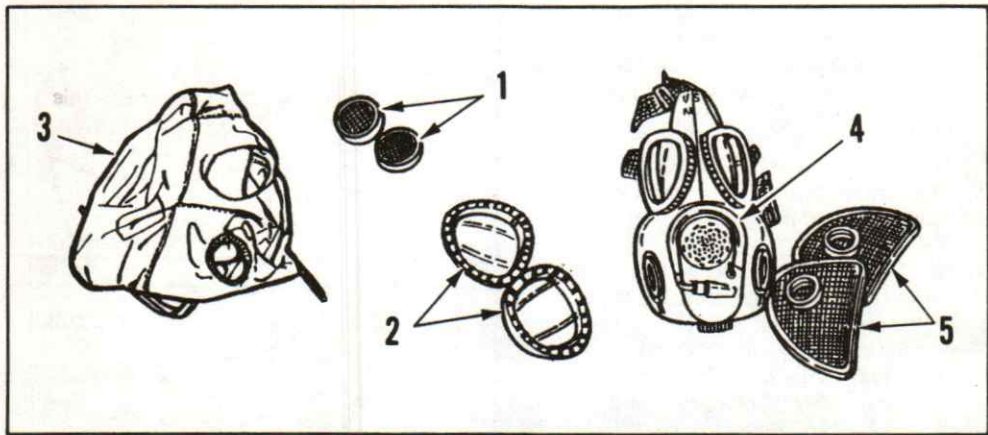
Do not attempt to turn mask inside out; it may damage the mask.

- (13) Immerse and agitate mask and eyelens outserts (2) for 5 minutes.
- (14) Rinse twice in clear, warm water, agitating 2 or 3 minutes each time.
- (15) Dry all mask parts with clean cheesecloth (item 5, App C) or allow to air-dry.



3-7. Mask—Servicing—Continued

c. Sanitizing.—Continued



(16) Install filter elements (5) (p 3-7), voicemitter-outlet valve assembly cover (4) (steps 11 thru 14, p 3-27), hood (3) (p 2-72), eyelens outserts (2) (p 3-21), and inlet valves (1) (p 3-13).

APPENDIX A REFERENCES

A-1. Scope

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

A-2. Forms

Equipment Inspection and Maintenance

Worksheet	DA Form 2404
Quality Deficiency Report	SF 368
Recommended Changes to Equipment	
Technical Manuals	DA Form 2028-2
Recommended Changes to Publications and	
Blank Forms	DA Form 2028

A-3. Technical Bulletins (TB)

Respiratory Protection Program	TB MED 502
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A-4. Technical Manuals (TM)

The Army Maintenance Management System (TAMMS)	TM 38-750
Decontaminating and Reimpregnating Kit, Individual, ABC-M13	TM 3-4230-211-10
Decontaminating Kit, Skin, M258A1	TM 3-4230-216-10
Paper, Chemical Agent Detector, M9	TM 3-6665-311-10

A-5. Miscellaneous Publications

Chemical-Biological Canisters and Filter Elements: Serviceability Lists	SB 3-30-2
Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items)	CTA 50-970
First Aid for Soldiers	FM 21-11
Medical, Dental, and Veterinary Care	AR 40-3
Research, Development, Test, and Evaluation of Materiel for Extreme Climatic Conditions	AR 70-38

APPENDIX B

ADDITIONAL AUTHORIZATION LIST

Section I. INTRODUCTION

B-1. Scope

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

B-2. General

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

B-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 this equipment. The 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) National Stock Number	(2) Description		(3)	(4)
	FSCM & Part Number	Usable on Code	U/M	Qty Auth
<u>CTA AUTHORIZED ITEMS</u>				
4230-00-907-4828	DECONTAMINATING AND RE-IMPREGNATING KIT, INDIVIDUAL, ABC-M13 (81361) C5-77-763		EA	1
4230-01-101-3984	DECONTAMINATING KIT, SKIN, M258A1 (81361) MIL-D-51468		EA	1
4240-00-999-0420	HOOD, CHEMICAL-BIOLOGICAL MASK, ABC-M6A2 (81349) MIL-H-51291		EA	1

(1) National Stock Number	(2) Description FSCM & Part Number Usable on Code		(3) U/M	(4) Qty Auth
<u>CTA AUTHORIZED ITEMS</u>				
	INSERTS, OPTICAL*		PR	1
6665-00-050-8529	PAPER, CHEMICAL AGENT DETECTOR, M8 (81361) D5-67-266		BK	1
6665-01-049-8982	PAPER, CHEMICAL AGENT DETECTOR, M9 (81361) D5-67-271		EA	1
4240-00-065-0319	WINTERIZATION KIT, M4, CHEMICAL-BIOLOGICAL MASK (81361) D5-77-944		EA	1

*Available by prescription of a medical officer or optometrist (AR 40-3).

B-3

APPENDIX C

EXPENDABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

C-1. Scope

This appendix lists expendable supplies and materials you will need to operate and maintain the mask. These items are authorized to you by CTA 50-970, Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items).

C-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 cleaning compound (item 5, App C)").

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

C - Operator/Crew

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 SUPPLIES AND MATERIALS LIST

(1) Item Number	(2) Level	(3) National Stock Number	(4) Description	(5) U/M
1	C	7920-00-205-0565	BRUSH, DUSTING, LENS AND PHOTOGRAPHIC NEGATIVE: camels hair, wood handle (81348) H-B-1654	EA

EXPENDABLE SUPPLIES AND MATERIALS LIST—Continued

(1) Item Number	(2) Level	(3) National Stock Number	(4) Description	(5) U/M
2	C	7920-00-061-0037	BRUSH, SCRUB: nylon bristle (81348) H-B-1490	EA
3	C	6810-00-266-6979	CALCIUM HYPOCHLORITE, TECHNICAL: granular, 0.5-g (0.02-oz) tube	EA
4	C	6850-00-592-3283	CLEANING COMPOUND, OPTICAL LENS: liquid (04019)	CT

(1) Item Number	(2) Level	(3) National Stock Number	(4) Description	(5) U/M
5	C	8305-00-222-2423	CLOTH, CHEESECLOTH: cotton basic, type I, class 1 (81348) CCC-C-440	YD
6	C	6505-00-682-6529	ISOPROPYL RUBBING ALCOHOL: bottle, plastic container	PT
7	C	7240-01-094-4305	PAIL, UTILITY: plastic, snap-on lid, 5.00 gal. (18.93 l)	EA
8	C	7930-00-634-5340	POLISH, PLASTIC: liquid, type 1 (81348) P-P-560	PT

EXPENDABLE SUPPLIES AND MATERIALS LIST—Continued

(1) Item Number	(2) Level	(3) National Stock Number	(4) Description	(5) U/M
9	C	8520-00-228-0598	SOAP, TOILET: nonmedicated, liquid, type 1 (81348) P-S-624 (or equivalent)	GL

By Order of the Secretary of the Army:

E. C. MEYER
General, United States Army
Chief of Staff

Official:

ROBERT M. JOYCE
Major General, United States Army
The Adjutant General

DISTRIBUTION:

To be distributed in accordance with DA Form 12-28
(qty req block no. 433) requirements for Field Masks.

