

TM 3-4240-339-10

**OPERATOR'S MANUAL
FOR
CHEMICAL-BIOLOGICAL MASK: FIELD, M40**

**(4240-01-258-0061 -- SMALL)
(4240-01-258-0062 -- MEDIUM)
(4240-01-258-0063 -- LARGE)**

CHEMICAL-BIOLOGICAL MASK: FIELD, M40A1

**(4240-01-370-3821 -- SMALL)
(4240-01-370-3822 -- MEDIUM)
(4240-01-370-3823 -- LARGE)**

**This TM supersedes TM 3-4240-300-10-1, JUNE 1988
See back cover for warning distribution statement, and destruction notice.**

**HEADQUARTERS
DEPARTMENT OF THE ARMY**

1 FEBRUARY 1994

WARNING

The soldier's safety depends on proper fitting facepiece. Injury or death can occur if the following warnings are not observed:

- The mask will not be fully effective in confined spaces when the oxygen content of the air is too low. The CB mask has only been tested and verified to protect against all known military agents.
- You must check you facepiece for leaks when fitted and each time facepiece is put on. A leaky facepiece will not protect you from toxic agents.
- Stop breathing and close your eyes when putting on your facepiece. Toxic agents may be in the surrounding air. Perform the step for putting on your facepiece quickly. You must put the facepiece on before you take another breath.
- In cold weather, do not clear facepiece by exhaling a large volume of air. Moist air will frost eyelenses and impair vision.
- If you become overheated in extremely cold weather, do not remove your facepiece outdoors until your face and head have cooled and any sweat has dried. Frostbite may result if facepiece is removed while your face is still wet.
- In toxic atmosphere, do not break the seal between your facepiece and the side of your face when putting on your helmet. This could cause the facepiece to leak.

WARNING - (Cont)

- Keep face clean shaven. An unshaven face could cause a bad seal between face and facepiece.
- Soldiers shall remove all hairpins, combs, hair knots, buns, or braids that will interfere with the facepiece seal.
- Check canister mating surface of the facepiece and areas between these surfaces for dirt or foreign material which could allow contaminated air into your facepiece.
- If the drinking system leaks, pinch the external drink tube where it connects to the outlet valve body to prevent inhalation of agent vapors until a replacement facepiece is obtained or wearing of the facepiece is no longer required.
- Do not connect the drink tube to your canteen until all resting surfaces have been checked and are free of contamination. Chemical agents could be swallowed, resulting in sickness and death.
- Care should be taken not to break the facepiece seal when pressing in the outlet valve disk.

- If you feel looseness in the fit of your facepiece during the performance of your mission, adjust your straps in accordance with para 2-14.
- Do not drink if resistance is not felt, your drinking system is leaking. Notify unit maintenance to replace facepiece as soon as possible.
- Do not use facepiece if outlet valve cover or outlet valve disk is missing or damaged. The facepiece will leak.
- Do not wear contact lenses with your facepiece.
- Any solid matter (even grass) under valve disks will cause fogged eyelenses, discomfort, and leakage.
- Foreign material (dirt or debris) in carrier may cause valves in facepiece to leak.
- Do not store food in waterproof bag because of possible toxic effects.

FIRST AID

For first aid refer to FM 21-11.

WARNING

HEALTH/ENVIRONMENTAL HAZARD

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

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

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

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

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

TECHNICAL MANUAL

NO. 3-4240-339-10

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C. 1 FEBRUARY 1994

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) direct to: Technical Director, US Army Edgewood Research, Development and Engineering Center, ATTN: SCBRD-ENL-V, Aberdeen Proving Ground, MD 21010-5423. A reply will be furnished to you.

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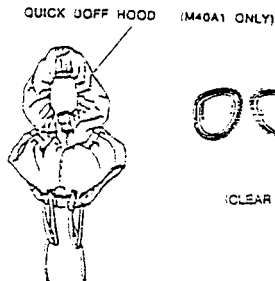
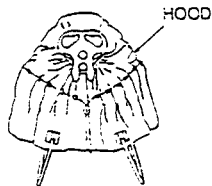
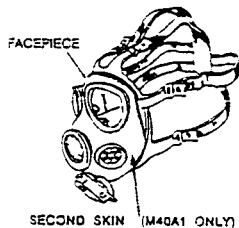
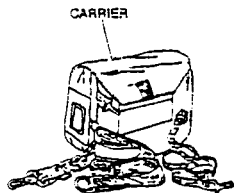
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M40/M40A1 CHEMICAL BIOLOGICAL MASK (FIELD)

CHAPTER 1 INTRODUCTION

SECTION 1. GENERAL INFORMATION

1-1. Scope

- a. Type of Manual. Operator's Manual
- b. Model Number and Equipment Name. Chemical-biological mask: field, M40/M40A1
- c. Purpose of Equipment. To protect your face, eyes, and lungs from field concentrations of chemical-biological (CB) agents, toxins and radioactive fallout particles.
- 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 DA PAM 738-750, The Army Maintenance Management System (TAMMS).

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

If your 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 or performance. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at Commander, US Army Armament, Munitions and Chemical Command, ATTN: AMSMC-QAD (R), Rock Island, IL 61299-6000. We'll send you a reply.

1-4. Corrosion Prevention and Control

Corrosion Prevention and Control (CPC) of Army materiel is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items.

While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials such as rubber and plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

If a corrosion problem is identified, it can be reported using Standard Form 368, Quality Deficiency Report. Use of key words such as "corrosion", "rust", "cracking" or "deterioration" will assure that the information is identified as a CPC problem.

The form should be submitted to Commander, U. S. Army Armament , Munitions and Chemical Command ATTN: AMSMC-QAD, Rock Island, IL 61299-6000.

Section II. EQUIPMENT DESCRIPTION

1-5. Equipment Characteristics, Capabilities, and Features

a. Characteristics.

- Lightweight.
- Transported and stored in carrier
- Facepiece is made of silicone rubber with inturned sealing surface so it can form a seal on your face.

Second skin for additional protection from liquid agents. (M40A1 only)

Quick doff hood for easy donning/doffing operations. (M40A1 only)

Includes both clear and neutral gray outserts.

Canister quickly and easily replaced.

b. Capabilities. When worn with proper canister installed, the facepiece protects face, eyes, and lungs from concentrations of Chemical-Biological (CB) agents, toxins, and radioactive fallout particles. The canister may be installed on either side of the facepiece.

c. Features. Major features of the mask are the silicone rubber facepiece which provides a seal against CB agents, a canister which filters particulate matter and agents from air, side and front voicemitters which transmit the user's voice outside the facepiece, an outlet valve, and a drink tube which allows the soldier to drink while wearing the facepiece, and quick doff hood that facilitates easy donning/doffing operations (M40A1 only).

1-6. Equipment Data

a. Tabulated Data.

Weight (with carrier) M40 and M40A1 mask	3.8 lbs. (1.73kg)
Dimensions (with carrier)	9 x 11 x 4.5 in. (22.9 x 28.0 x 11.4 cm)

b. Shipping and Storage Data

Number and type of pack	8 masks in individual fiberboard boxes per fiberboard container
Fiberboard box Dimensions . . .	12.00 x 12.00 x 9.50 in. (30.48 x 30.48 x 24.13 cm)

CHAPTER 2

OPERATING INSTRUCTIONS

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

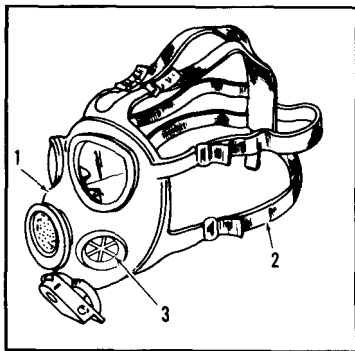
2-1. General

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

2-2. Description of Mask

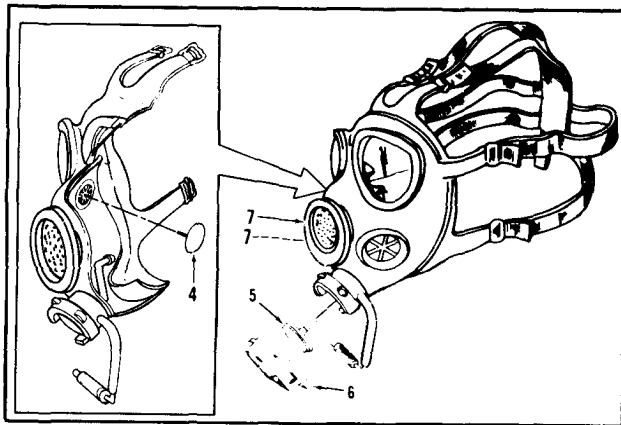
a. Facepiece Assembly.

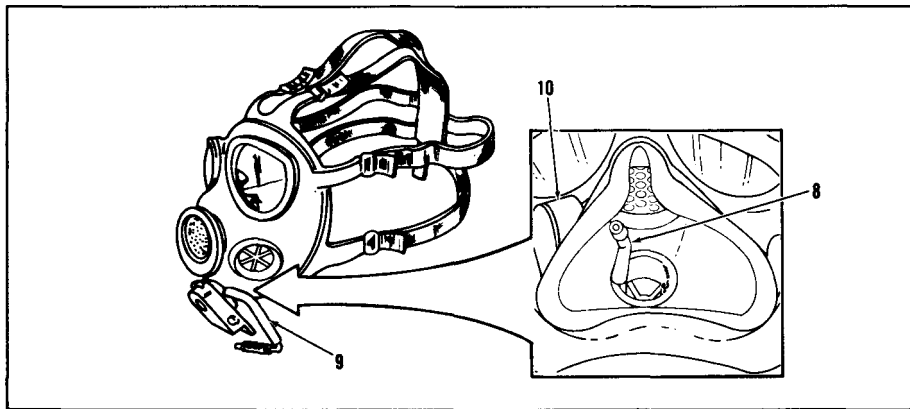
- FACEBLANK (1) fits closely against your face to form a seal. It is made of silicone rubber.
- HEAD HARNESS (2) consists of a headpad, forehead straps, temple straps, cheek straps, and donning tab. Secures facepiece to your face.
- INLET VALVE DISK (3) allows filtered air to enter the facepiece and prevents moist exhaled air from entering the canister.



2-2. Description of Mask - (Cont)

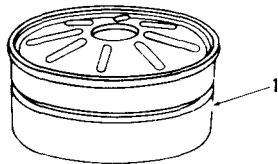
- NOSECUP VALVE DISK (4) allows filtered air to enter nosecup and prevents moist exhaled air from fogging eyelenses in cold weather.
- OUTLET VALVE DISK (5) releases exhaled air and prevents unfiltered air from entering the facepiece.
- OUTLET VALVE COVER (6) protects the outlet valve from damage.
- FRONT AND SIDE VOICEMITTERS (7) transmit your voice outside of the facepiece.





- INTERNAL DRINK TUBE (8) allows the operator to drink while wearing the facepiece.
- EXTERNAL DRINK TUBE (9) has a quick disconnect coupling which connects the facepiece to the M1 canteen cap to allow the operator to drink.
- AIRFLOW DEFLECTOR (10) directs inhaled air over eyelenses to prevent fogging.

2-2 Description of Mask - (Cont)

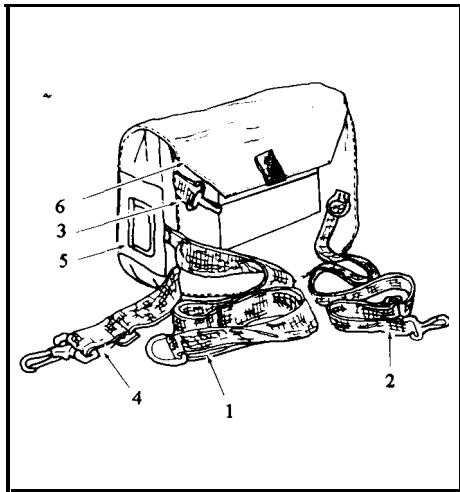


b. Canister.

- CANISTER (1) filters out CB agents and other particles from contaminated air.
- Screws on either left or right side of FACEPIECE ASSEMBLY.

c. Carrier.

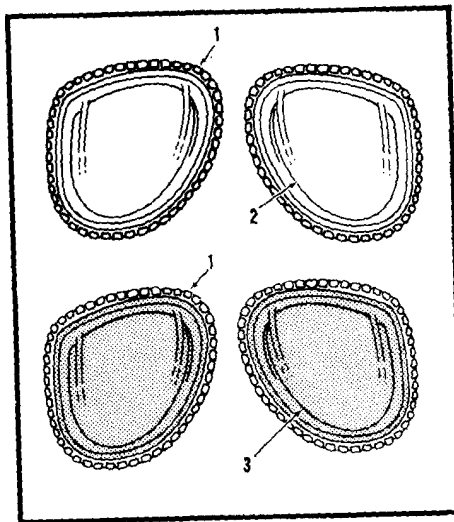
- Provides for storage and carrying of mask and additionally authorized items.
- Consists of a SHOULDER STRAP (1), WAIST STRAP (2), SHORT STRAP (3) HORT ADJUSTABLE STRAP (4), and ID PLATE (5).
- QUICK-OPENING FLAP (6), with hook and pile fastener, provides for ready access to contents.



2-2. Description of Mask - (Cont)

d. Outserts.

- RUBBER RINGS (1) fit over facepiece eyelens rings to secure outserts to the facepiece.
- Clear and neutral gray outserts are provided.
- Clear plastic OUTSERTS (2) protect eyelenses from scratches and other damage.
- Neutral gray OUTSERTS (3) reduce sun glare.
- Prevent eyelenses from fogging in cold weather.
- Separate outserts for left and right eyelenses.



e. M1 Waterproof Bag.

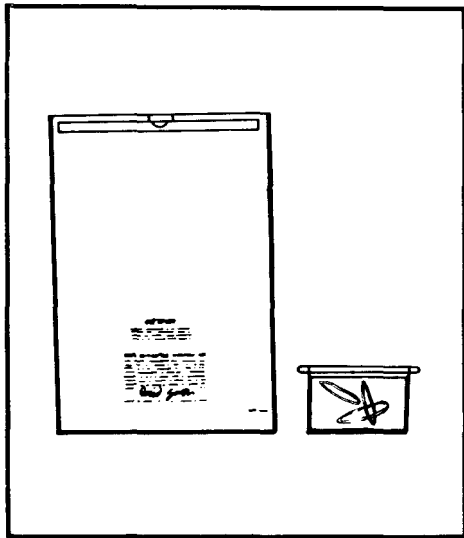
WARNING

Do not allow food to come in contact with the waterproof bag because of possible toxic effects.

CAUTION

Storage of mask in waterproof bag can degrade the protective capability of the facepiece. Remove facepiece from waterproof bag as soon as protection of mask is no longer required.

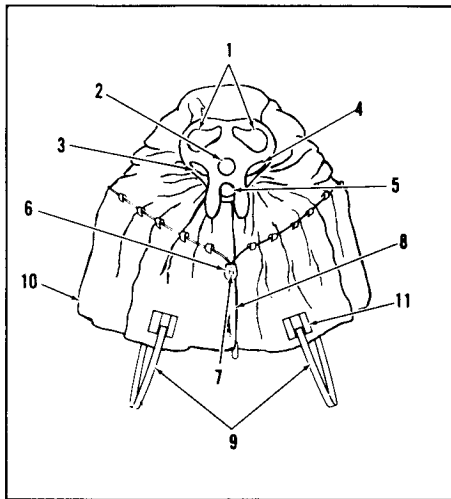
- Keeps mask dry when required by climate and mission.
- Stowed in left end pocket of carrier.
- Includes rubber bands for sealing.



2-2. Description of Mask - (Cont)

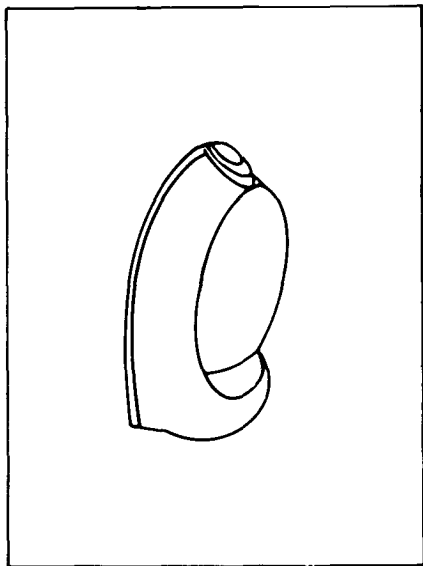
f. Hood.

- Made of rubber-coated fabric which protects neck and areas of head not covered by your mask against C-B agents.
- EYELENS OPENINGS (1) , FRONT VOICE-MITTER OPENING (2), SIDE VOICE-MITTER OPENING (3), INLET VALVE OPENING (4), and OUTLET VALVE OPENING (5) provide for unobstructed vision and breathing.
- CORD (6) draws hood close to neck by use of SLIDER (7).
- ZIPPER (8) permits opening of the hood for ventilation or closing for protection in accordance with Mission Oriented Protection Posture (MOPP) requirements.
- UNDERARM STRAPS (9) keep HOOD (10) down on shoulders and are fastened on HOOK AND PILE FASTENERS (11).



g. Faceform.

- Holds facepiece in proper shape when stored longer than 30 days.



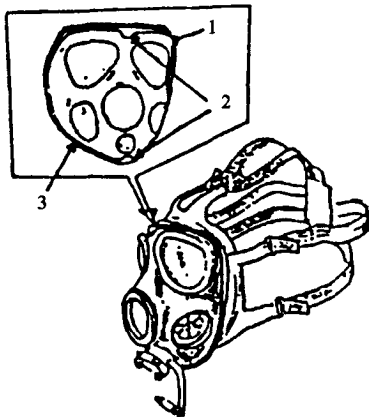
2.2 Description of Mask - (Cont)

h. Second Skin. (M40A1 only)

Second Skin (1) is made of butyl rubber, and covers facepiece to protect from chemical-biological (CB) agents, toxins, and radioactive fallout particles.

RUBBER CATCHES (2) are used for retention of the quick doff hood and second skin on the facepiece; located at the top and bottom of the second skin.

RIDGE (3) is used as a secondary source of retention for the quick doff hood.



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 on all missions.
- b. After You Operate. Be sure to perform your after (A) PMCS on all missions.
- c. Weekly (in Combat Situation). Be sure to perform your weekly (W) PMCS in combat situations only.

2-5. PMCS Procedure

- a. Your preventive maintenance checks and services table lists the inspections and care of your equipment required to keep it in good operating condition.
- b. The Item No. column is used as a source of item numbers for the TM Number column on DA Form 2404 in recording results of PMCS.
- c. The interval column of your PMCS table tells you when to do a certain check or procedure.

- d. The Procedure column of your PMCS table tells you how to do the required checks and services. Carefully follow these instructions. If you do not have the tools, or if the procedure tells you to, have unit maintenance do the work.
- e. The Equipment Is Not Ready/Available If column tells you why your equipment cannot be used.

NOTE

The terms ready/available and mission capable refer to the same status: equipment is on hand and is able to perform its mission (see DA PAM 738-750).

- f. If your equipment does not perform as required, refer to chapter 3. Report any malfunctions or failures on the proper form DA 2404, or refer to DA PAM 738-750.

NOTE

The checks in the following table are to be performed before and after each combat or training mission.

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

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
1				<p><u>Canister</u></p> <p>NOTE</p> <p>Refer to para 2-6 for canister replacement criteria.</p> <p>a. Check canister (1) against re- placement criteria in para 2-6.</p>	Canister needs to be replaced.

2-5. PMCS Procedures - (Cont)

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

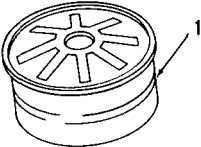
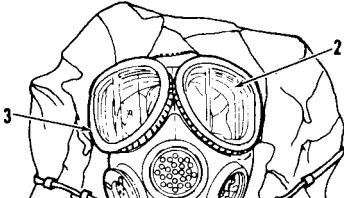
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
				 <p>b. Check canister especially around seams, for cracks, dents, or holes. Check air intake to make sure it is not clogged with dirt.</p> <p>c. Check for damaged threads on canister.</p> <p>d. Shake canister and listen for signs of loose absorbent particles.</p>	<p>Canister is cracked or dented on a seam, or has holes. Air intake is clogged with dirt.</p> <p>Threads on canister are damaged.</p> <p>Loose particles rattle or dust falls out when canister is shaken.</p>

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

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
2	•	•		<p><u>Eyelenses, Eyerings, and Outserts.</u></p> <p>a. Remove outserts from facepiece (para 3-3a). Check eyelenses (2) for cracks, cuts, scratches, or discoloration that affect vision.</p> 	Eyelenses are cracked, cut, scratched, or discolored enough to affect vision.

2-5. PMCS Procedures - (Cont)

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

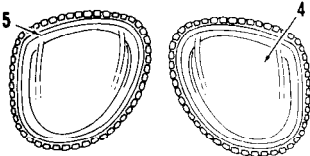
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
	•	•		<p>b. Check eyerings (3) for distortion or corrosion.</p> 	Eyerings are bent or corroded.
	•	•		<p>c. Check both sets of outsert lenses (4) for cracks, chips, or discoloration that affects your vision. Check rubber rings (5) for tears, looseness, brittle spots, soft or sticky spots, or cracked rims.</p>	<p>Outserts are broken or distorted enough to affect vision. Rubber rings are torn, cracked, loose, or sticky.</p>

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

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
3				<p><u>Hood.</u></p> <p>CAUTION</p> <p>When examining hood, avoid open flames and exposed light bulbs.</p> <p>a. Remove hood from facepiece (para 2-21).</p>	

2-5. PMCS Procedures - (Cont)

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

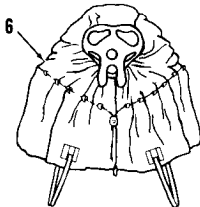
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
	•	•		<p>b. Examine hood (6) (NOT against a light source) for the following defects:</p> 	

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

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
				<ul style="list-style-type: none"> Cuts, holes or tears. <p style="text-align: center;">NOTE</p> <p style="text-align: center;">Needle holes at the seams are acceptable.</p> <ul style="list-style-type: none"> Sticky or gummy area. Peeled or worn coating. 	<p>Hood has more than two pin holes in any one panel. Hood has cuts, holes, or tears.</p> <p>Fabric is sticky or gummy.</p> <p>Fabric is peeling or worn.</p>

2-5. PMCS Procedures - (Cont)

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
				<ul style="list-style-type: none"> • Straps, cord or hardware missing, frayed, or torn. • Zipper torn, broken, or inoperative. • Loose stitching on hook and pile fasteners or dirt in hook and pile fasteners. 	<p>Straps, cord or hardware are missing, frayed, or torn.</p> <p>Zipper is torn, broken, or inoperative.</p> <p>Hook and pile fasteners are not secure on hood or are clogged with dirt.</p>

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

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
4				<p><u>Facepiece Assembly.</u></p> <p>a. Visually inspect inside surfaces of facepiece (7) for dirt, mud, and greasy or oily substances.</p> <p>b. Check facepiece (7) for holes, tears, and splits by holding in front of a light source. Look closely at edges of facepiece. Check for soft or sticky spots.</p>	<p>Facepiece is dirty.</p> <p>Silicone rubber has holes, tears, nicks, or splits or soft or sticky spots which allow air to enter facepiece.</p>

2-5. PMCS Procedures - (Cont)

B-Before combat or training mission

A-After combat or training mission

W-Weekly in combat situations only

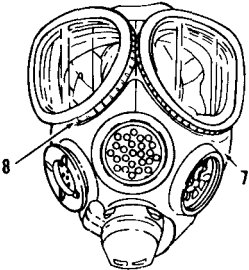
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
	•	•		 <p>c. Check silicone rubber next to eyelenses (8) to be sure eyelenses will not pull away from facepiece (7). Also check all facepiece housings to be sure silicone is not pulling away.</p>	Eyelenses or housings pull away from facepiece.

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

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
5				<u>Head Harness.</u>	
	•	•		a. Put on facepiece and check head harness (9) for loss of elasticity.	Head harness will not hold facepiece firmly against face.
	•	•		b. Check for dirt. Check straps (10) for cuts, tears, missing parts, or deterioration such as mildewing or fraying.	Head harness is cut, torn, frayed, has missing parts, or has deteriorated.

2-5. PMCS Procedures - (Cont)

B-Before combat or training mission

A-After combat or training mission

W-Weekly in combat situations only

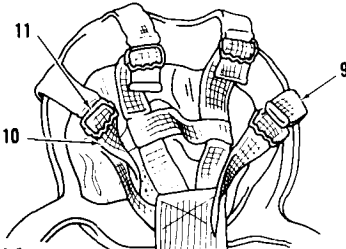
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
6				 <p><u>Buckles.</u></p> <p>a. Look at buckles (11) for bends, cracks, or corrosion. Pull on head harness straps and make sure buckles hold straps tight.</p> <p>b. Check for missing or broken buckles.</p>	<p>Buckles are bent, cracked, corroded, or will not hold straps.</p> <p>Buckles are missing or broken.</p>
	•	•			
	•	•			

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

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
7	•	•		<p>c. Make sure finish on buckle(s) is not chipped or scratched exposing bare metal.</p> <p><u>Outlet Valve Disk and Outlet Valve Cover.</u></p> <p>WARNING</p> <p>Do not use facepiece if outlet valve or outlet valve disk are missing or damaged. The facepiece will leak.</p>	Bare metal is exposed.

2-5. PMCS Procedures - (Cont)

B-Before combat or training mission

A-After combat or training mission

W-Weekly in combat situations only

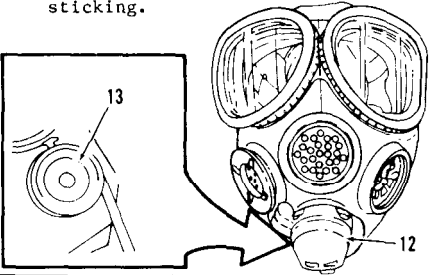
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
	•	•		<p>a. Grasp tab at bottom of outlet valve cover (12) and lift bottom portion of outlet valve cover. Check to see if outlet valve disk (13) is present and is not curled or distorted. Rotate outlet valve disk to make sure it is not sticking.</p> 	<p>Outlet valve disk is missing, distorted, or sticky.</p>

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

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
				<p>WARNING</p> <p>Do not use paper to remove dirt or moisture from outlet valve cover or outlet valve disk. Paper may break up and lodge in outlet valve.</p> <p>b. Look at outlet valve disk (13) for nicks, tears or rips. Wipe off any moisture from outlet valve disk with clean cheesecloth (item 3, App D). Smooth outlet valve disk so it lies flat on outlet valve seat.</p>	
	•	•			Outlet valve disk is nicked, torn, or ripped; cannot be cleaned, or will not seat properly.

2-5. PMCS Procedures - (Cont)

B-Before combat or training mission

A-After combat or training mission

W-Weekly in combat situations only

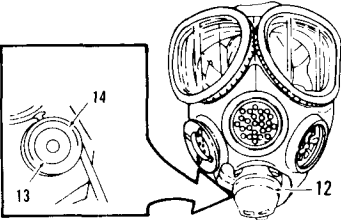
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
				 <p>c. Check outlet valve seat (14) for dirt.</p> <p>d. Check outlet valve cover (12) for cuts, tears, or holes. Look at inside of outlet valve cover for dirt or moisture. Wipe off any dirt or moisture with a soft, clean, dry cloth (item 3, App D).</p>	<p>Outlet valve seat is dirty.</p> <p>Outlet valve cover is cut, torn, has holes, or will not seat firmly over outlet valve.</p>

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

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
8				<u>Internal/ External Drink Tubes.</u>	
	•	•		a. Check that internal drink tube (15) and external drink tube (16) are present. Look for cracks or cuts in internal/external drink tubes.	Internal or external drink tube is missing, or is cracked or cut.
	•	•		b. Check internal drink tube for proper alinement.	Internal drink tube is misalined.
	•	•		c. Check external drink tube for solid connections.	Connections are loose.

2-5. PMCS Procedures - (Cont)

B-Before combat or training mission

A-After combat or training mission

W-Weekly in combat situations only

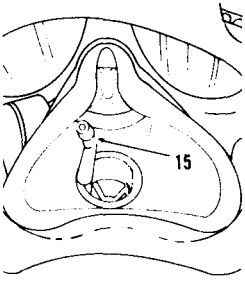
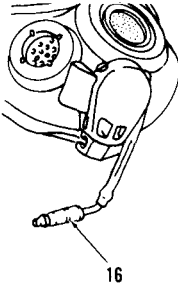
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
				  <p>d. Check that internal or external drink tube is not clogged by connecting MI canteen cap and blowing air through system.</p> <p>e. Check that drinking system does not leak (para 2-17).</p>	<p>Internal or external drink tube is clogged.</p> <p>Drinking system leaks.</p>

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

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situation only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
9	•	•		<u>Airflow Deflector.</u> a. Check that airflow deflector (17) is securely mounted inside facepiece, and that both flanges (18) on the airflow deflector are in the mounting holes of the facepiece and are not broken.	Airflow deflector is not mounted properly in facepiece. Flanges are broken or will not mount in facepiece. Mounting holes in facepiece are cut or torn.
	•	•		b. Check mounting holes for cuts or tears.	

2-5. PMCS Procedures - (Cont)

B-Before combat or training mission

A-After combat or training mission

W-Weekly in combat situations only

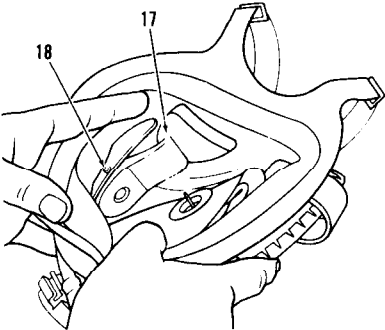
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
				 <p>The diagram shows a hand inspecting a vehicle component, likely a fuel filter or similar. Label 17 points to a circular opening or cap, and label 18 points to a small, rectangular component or plug. The hand is shown from the side, with fingers reaching into the component.</p>	

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

B-Before combat or training mission				A-After combat or training mission		W-Weekly in combat situations only	
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE			Equipment is not Ready/Available if:
	B	A	W				
10				<u>Inlet Valve.</u> <p style="text-align: center;">WARNING</p> <p style="text-align: center;">Do not use facepiece if valve body or in- let valve disk is miss- ing or damaged. The facepiece will leak.</p> <p>a. Check that inlet valve disk (19) and valve body (20) are present and properly mounted on post of airflow deflector (17).</p>			<p>Inlet valve disk or valve body are miss- ing or not mounted properly on post of airflow deflector.</p>

2-5. PMCS Procedures - (Cont)

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only


Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
					
	•	•		b. Blow on inlet valve disk (19) to make sure it is not stuck to valve body (20).	Inlet valve disk is stuck to valve body.
	•	•		c. Check inlet valve disk for cuts, holes, or tears.	Inlet valve disk is cut or torn.
	•	•		d. Check for dirty inlet valve disk.	Inlet valve disk is dirty.

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

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
11				<u>Nosecup Assembly.</u>	
	•	•		a. Check that nosecup (21) and nose- cup valve seats (22) are free of dirt. Check nosecup (21) for cracks, cuts, or holes.	Nosecup is dirty, cracked, cut, or has holes in it. Nosecup valve seats are dirty.
	•	•		b. Check that nosecup (21) is not pulled away from back of front voicemitter housing. Gently try to pull nosecup away from front voicemitter housing to make sure nosecup is held securely.	Nosecup is pulled away from front voicemitter housing.

2-5. PMCS Procedures - (Cont)

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

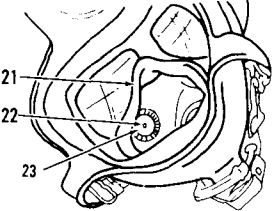
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
				 <p>c. Check that nosecup valve disks (23) are present. Rotate nosecup valve disks to be sure they are not stuck; check that nosecup valve disks are not curled or torn.</p> <p>d. Check that nosecup valve disks (23) are seated on inside of nosecup.</p>	<p>Nosecup valve disks are missing, curled, torn, or stuck to nosecup valve seat.</p> <p>Nosecup valve disks are seated on outside of nosecup.</p>

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

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
12	•	•		<u>Voicemitters.</u> a. Check retaining rings (24) on front voicemitter (25) and side voicemitter (26) for corrosion, cracks, or nicks. Try to tighten retaining rings by hand to check for looseness.	Retaining rings are corroded, cracked, nicked, or are loose.
	•	•		b. Check front voicemitter (25) and side voicemitter (26) for dents, cracks, or punctures. Make sure the four beads (27) in the center of each voicemitter are facing outward.	Front voicemitter and/or side voicemitter is dented, cracked, punctured, or installed backward.

2-5. PMCS Procedures - (Cont)

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

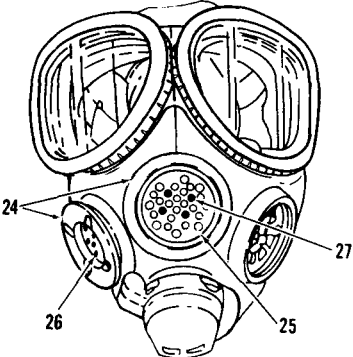
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
				 <p>The diagram shows a front view of a gas mask. Callout 24 points to the left side filter. Callout 25 points to the central circular filter. Callout 26 points to the bottom front of the mask. Callout 27 points to the right side filter.</p>	

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

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
13	•	•		<u>Carrier.</u> a. Empty carrier (28) and check for dirt, sharp edges, torn straps, or missing hardware. Make sure there are no pencil or pen markings on the carrier, with the exception of changing the size or model number to reflect true description of the mask inside. No other markings are authorized.	Carrier is dirty. Straps are torn or hardware is missing. There are sharp edges inside carrier that could damage mask.

2-5. PMCS Procedures - (Cont)

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

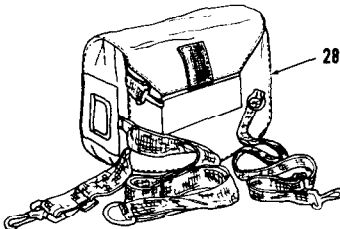
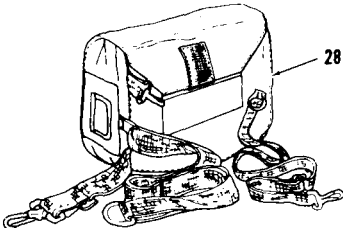
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
				 <p>b. Check for mildew, solvents, or abrasive materials which may harm facepiece. Check seams for broken stitches.</p>	<p>Mildew, or abrasive materials are present. Carrier is soaked with solvent. Seams are broken or stitching is loose, causing a hole in seam.</p>

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

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
				 <p>c. Check hook and pile fasteners for dirt. If dirty, clean with a stiff-bristle brush (item 2, app D). Make sure hook and pile fasteners are secure on flap.</p>	Hook and pile fasteners are loose or clogged with dirt.

2-5. PMCS Procedures - (Cont)

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

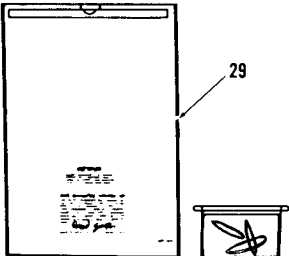
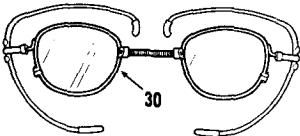
Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
14	•	•		<p><u>Waterproof Bag.</u></p> <p>a. Check waterproof bag (29) for cracks, tears, holes, and brittleness.</p> <p>b. Check that rubber bands are not sticky, broken, or brittle.</p> 	<p>Waterproof bag is torn, has holes, or is brittle.</p> <p>Rubber bands are sticky, broken, or brittle.</p>

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

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
15	•	•		<p><u>Optical Inserts (if issued).</u></p> <p>Inspect optical inserts (30) for broken lens, frame, or disconnected from facepiece.</p> 	<p>Lens or frame is broken, or insert is disconnected from facepiece.</p>

2-5. PMCS Procedures - (Cont)

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
				<p>NOTE</p> <p>If lens or frame is broken, replace (app C), if disconnected, reinstall.</p> <p>REASSEMBLE YOUR M40 MASK.</p>	

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
16				<p>Quick Doff Hood (M40A1 only).</p> <p>CAUTION</p> <p>When examining hood, avoid open flames and exposed light bulbs.</p> <p>a. Remove quick doff hood from facepiece (para 2-22).</p>	

2-5 PMCS Procedures - (Cont)

B-Before combat or
training mission

A-After combat or
training mission

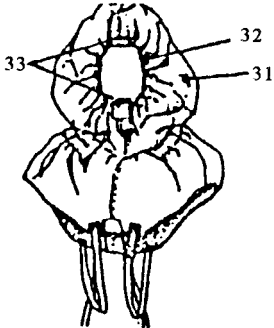
W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
16	*	*		<p>b. Examine quick doff hood (31) for cuts,</p> <p>c. Reinstall the hood to the facepiece (para 2-10).</p> <p>d. Check whether elastic opening (32) can be attached to the facepiece securely.</p> <p>e. Check that elastic loops (33) are not broken.</p>	<p>Hood has cuts, more than two pin head size holes or tears.</p> <p>Hood cannot be securely attached facepiece.</p> <p>Elastic loops are broken.</p>

B-Before combat or
training mission


A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
					

2-5 PMCS Procedures - (Cont)

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

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
17	*	*		<p><u>Second Skin (M40A1 only).</u></p> <p>a. Remove second skin (34) from facepiece (para 2-23).</p> <p>b. Check second skin for cuts, holes, or tears.</p> <div data-bbox="497 723 790 945">  <p>34</p> </div>	Second skin has cuts, holes, tears.

B-Before combat or
training mission

A-After combat or
training mission

W-Weekly in combat
situations only

Item No.	Interval			ITEM TO BE INSPECTED PROCEDURE	Equipment is not Ready/Available if:
	B	A	W		
17				<p>c. Visually inspect inside and outside surfaces of second skin (34) for dirt, mud, and greasy or oily substances.</p> <p>d. Check the second skin for holes, tears, and splints. Look closely at edges of second skin. Check for soft or sticky spots. Check rest of second skin for stiff areas which crumble when rubbed between fingers and cracks which expand when rubber is stretched.</p>	<p>Second skin is dirty.</p> <p>Second skin has holes, tears, or splits larger than 1/4-inch diameter or length. Second skin has soft or sticky spots which allow air to enter second skin.</p>

2-6. Canister Replacement Criteria

See FM 3-4, NBC Protection, for proper canister replacement criteria.

NOTE

Dents, less than 1/4 inch deep, not on edge of seal will not impair performance of canister.

In peacetime, turn in used canisters in accordance with local SOP.

Section III. OPERATION UNDER USUAL CONDITIONS

2-7. General

- a. This section contains operator's instructions to put on put on and use the mask and additional authorized items under normal conditions. For operation under unusual conditions see para 2-26.
- b. For usual conditions, facepiece shall be worn with hood attached.

2-8. Putting On Your Facepiece (Without Hood) To Verify Fit

WARNING

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

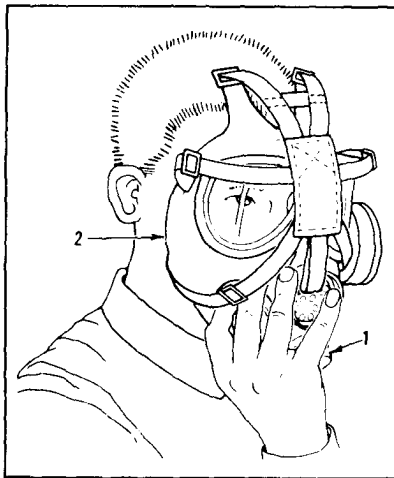
Soldiers shall remove all hairpins, combs, hair knots, buns, or braids that will interfere with the facepiece seal.

2-8. Putting On Your Facepiece (Without Hood) To Verify Fit - (Cont)

NOTE

A trained unit NBC NCO will supervise size selection and initial fitting of your facepiece. However, it's your responsibility to make sure your facepiece fits properly, has a good seal, and is as comfortable as possible.

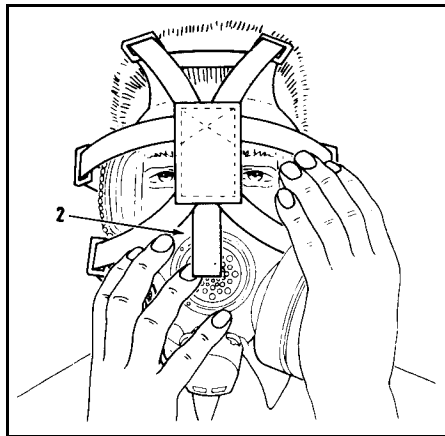
- a. Put your chin in chin pocket.
- b. Cover openings at bottom of outlet valve (1) with palm of one hand. Breathe out hard so that air escapes around edges of facepiece (2).



- c. With palm of hand, cover inlet port of canister and breathe in. Facepiece (2) should collapse against your face, and remain so while you hold your breath. If it does, facepiece (2) is airtight. If facepiece (2) does not collapse, check for hair, clothing or other matter between facepiece (2) and your face.
- d. Grasp tab (3) and pull head harness (4) over your head. Be sure your ears are between the temple straps (5) and cheek straps (6).

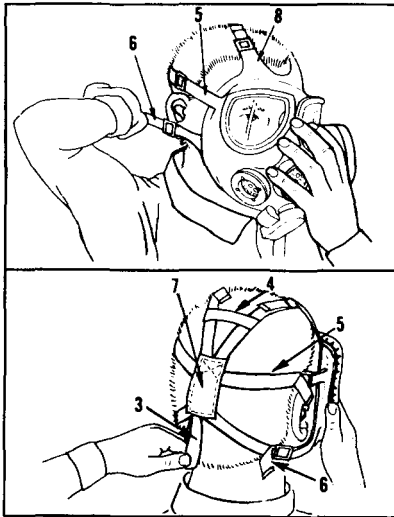
NOTE

Temple and forehead straps have already been adjusted during fitting.



2-8. Putting On Your Facepiece (Without Hood) To Verify Fit - (Cont)

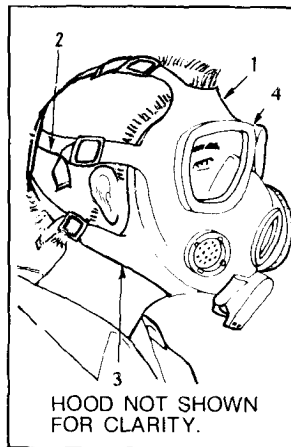
- e. While holding facepiece to face with one hand, maintain seal. Using other hand tighten cheek straps (6) one at a time.
- f. Be sure headpad (7) is centered at the back of your head.
- g. Straps (5,6, and 8) should lie flat against your head.
- h. Clear your facepiece again (step b.) and recheck your facepiece for leaks (step c.).



2-9. Checking the Fit of Your Facepiece

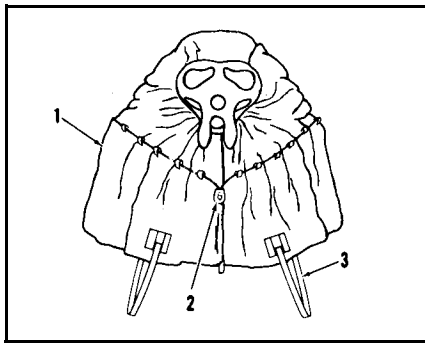
Check for proper fit according to the following criteria:

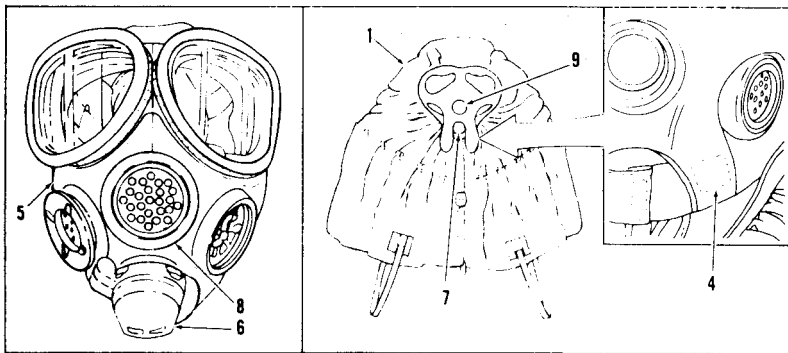
- a. Edge (1) of facepiece comes well up on your forehead, but not into the hairline, and within 1 inch (2.5 cm) of your ear.
- b. Temple straps (2) and cheek straps (3) do not cut into your ears.
- c. Head harness straps are flat against head.
- d. Pupils of your eyes are near center of eye-lenses (4).
- e. Facepiece does not press flesh so tightly that eyes partly close.
- f. Facepiece does not leak around edges (para 2-14).



2-10. Installing Hood On Facepiece

- a. Unfold and unzip hood (1) and lay it flat. Loosen cord (2).
- b. Unfasten underarm straps (3).
- c. Remove outserts from facepiece (para 3-3a).
- d. Remove canister from facepiece (para 3-2a).





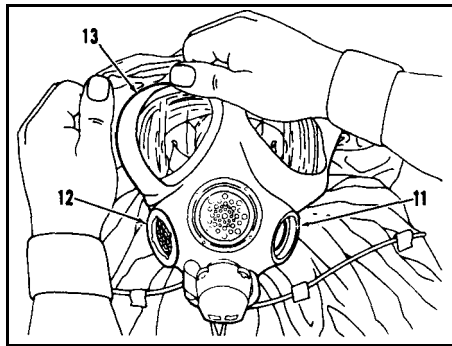
- e. Unfasten hook and pile fastners (4) on hood.
- f. Insert facepiece (5) inside hood (1) and position the outlet valve cover (6) in the hole (7) at the bottom of the facepiece portion of the hood (1).
- g. Aline front voicemitter (8) on facepiece with front voicemitter opening (9) on hood and stretch hood over front voicemitter.

2-10. Installing Hood On Facepiece - (Cont)

CAUTION

Avoid over-stretching holes in the hood facepiece, or hood fabric could tear.

- h. Stretch openings in hood over sideport (11) and side voice-mitter (12) on facepiece.
- i. Stretch eyelens openings (13) in hood over eyelenses on facepiece by pulling hood fabric along sewn seams, and bending facepiece at eyelenses.
- j. Install canister (para 3-2b).
- k. Fasten hook and pile fasteners.
- l. Install outserts (para 3-3c).



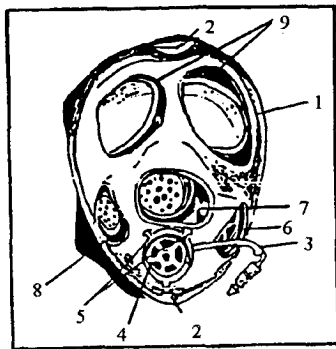
2-11. Installing Second Skin on Facepiece M40A1 only

- a. Remove outserts from facepiece (para 3-3a).
- b. Remove canister from facepiece (para 3-2a).
- c. Remove outlet valve cover from facepiece (para 3-4b (4)).
- d. Insure that ridge (1) and rubber catches (2) are facing outward.
- e. Feed the drink tube (3) through the outlet valve cover opening (4) on the second skin.

CAUTION

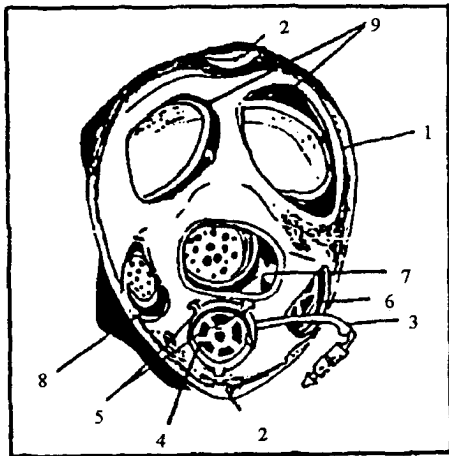
Avoid over-stretching holes in the second skin. To prevent tearing the outlet valve cover opening of second skin,, be careful pulling over flanges (5) on outlet valve.

- f. Stretch outlet valve opening (6) of the second skin, and position it over outlet valve of facepiece.
- g. Stretch front voicemitter opening (7) of the second skin, and position it over the front voicemitter of facepiece.



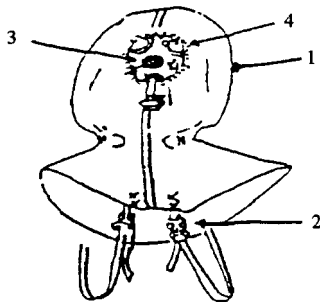
2-11. Installing Second Skin on Facepiece M40A1 only (Cont)

- h. Stretch side voicemitter opening (8) of the second skin, position it over the side voicemitter of facepiece.
- i. Stretch eyelens opening (9) of the second skin, and position it over the eyelenses of facepiece.
- j. Install outlet valve cover (par a 3-4b (13)).
- k. Install outserts (par a 3-3 b).
- l. Install canister (par a 3-2 b).



2-12. Installing Quick DOFF Hood on Facepiece (M40A1 only)

- a. Unfold quick doff hood (1) and lay it flat.
- b. Unfasten underarm straps (2).
- c. Insert face piece (3) inside quick doff hood into the elastic opening (4).
- d. Aline elastic opening (4) of quick doff hood with the ridge of the second skin.



2-13. Putting On Your Facepiece

WARNING

If air is contaminated with CB agents, do not uncover outlet valve cover of facepiece. Positive pressure must be maintained when the facepiece and hood are being worn.

Stop breathing and close your eyes. Toxic agents may be in the surrounding air. Perform the steps for putting on your mask quickly. You must put the facepiece on before you take another breath. Do not wear contact lenses when wearing optical inserts. Contact lenses will over correct vision while wearing optical inserts.

CAUTION

DS2 may damage the voicemitter of the facepiece. When exposed to DS2, remove canister and rinse your facepiece in clean water. Do not wet the canister.

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

- a. Stop breathing and close your eyes.
- b. Remove your helmet. Put helmet between your legs (above the knees) or hold your rifle between your legs and put helmet on the muzzle. If you drop your helmet, keep on masking; you can pick up your helmet later.

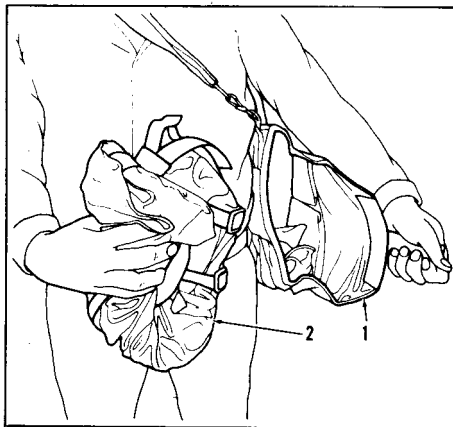
WARNING

Do not wear contact lenses with your facepiece.

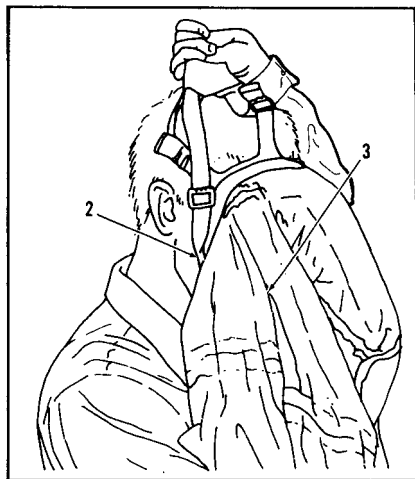
- c. Take off your glasses or contact lenses, if you are wearing them.

2-13. Putting On Your Facepiece - (Cont)

- d. Open carrier (1) with your left hand and hold it open.
- e. With right hand, grasp facepiece (2) and remove from carrier (1).



- f. Put your chin in chin pocket.
- g. Cover openings at bottom of outlet valve (3) with palm of one hand. Breathe out hard so that air escapes around edges of facepiece (2).
- h. With palm of hand, cover inlet port of canister and breathe in. Facepiece (2) should collapse against your face, and remain so while you hold your breath. If it does, facepiece (2) is airtight. If facepiece (2) does not collapse, check for hair, clothing, or other matter between facepiece (2) and your face.



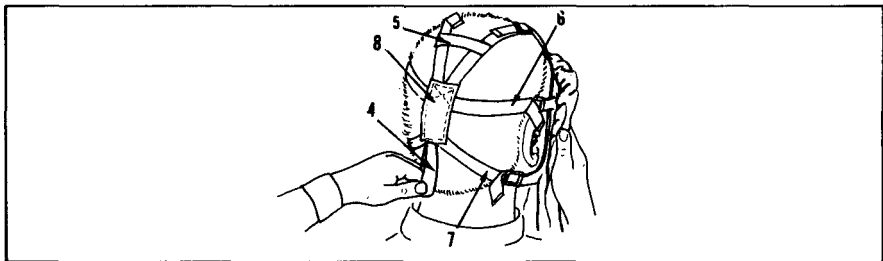
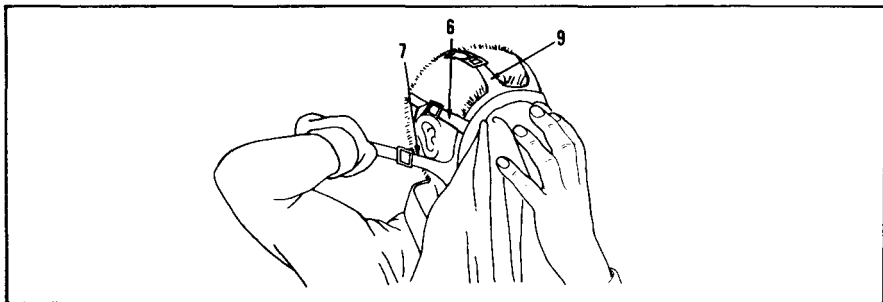
2-13. Putting On Your Facepiece - (Cont.)

- i. Grasp tab (4) and pull head harness (5) over your head. Be sure your ears are between the temple straps (6) and cheek straps (7).

NOTE

Temple and forehead straps have already been adjusted during fitting.

- j. While holding facepiece to face with one hand, maintain seal. Using other hand, tighten cheek straps (7) one at a time.
- k. Be sure headpad (8) is centered at the back of your head.
- l. Straps (6,7, and 9) should lie flat against your head.
- m. Clear your facepiece again (step g.) and recheck your facepiece for leaks (step h.).
- n. Resume breathing.

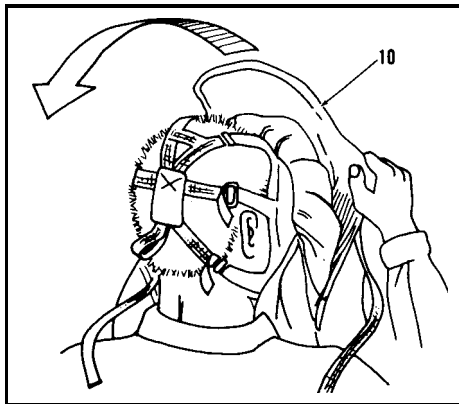


2-13. Putting On Your Facepiece - (Cont)

CAUTION

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

- o. Grasp back edge of hood skirt (10) and carefully pull hood over your head so that hood covers the head, neck, and shoulders.

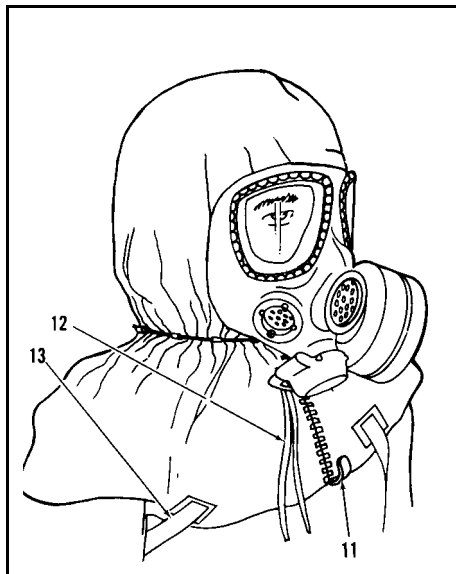


- p. Pull slider (11) downward and zip front closed.
- q. Tighten cord (12).

NOTE

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

- r. Adjust the length of underarm straps (13) and attach hook and pile fasteners.



2-13. Putting On Your Facepiece - (Cont)

WARNING

When putting on your helmet, be sure not to upset the seal between your facepiece and the side of your face. Toxic agents could leak into your facepiece.

- s. Put on helmet.
- t. Close carrier.
- u. Continue your mission.

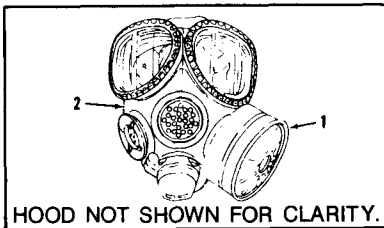
WARNING

If you feel looseness in the fit of your facepiece during the performance of your mission, adjust your straps in accordance with para 2-14.

2-14. Checking Your Facepiece for Leaks

WARNING

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



HOOD NOT SHOWN FOR CLARITY.

NOTE

Helmet should be removed before checking facepiece for leaks, and should be donned when check is completed.

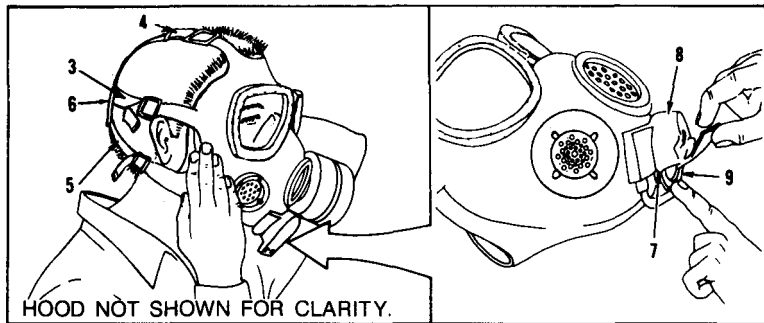
- a. Make sure canister (1) is screwed tightly into facepiece (2).
- b. With palm of hand, cover inlet port of canister and breathe in lightly and hold your breath for a few seconds. If facepiece remains collapsed, facepiece is airtight and will protect you against toxic agents.

NOTE

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

- c. Check for leaks at edge of facepiece by feeling for incoming air on your face.
- d. Check for bulge by running finger around edge of your facepiece.

2-14. Checking Your Facepiece for Leaks - (Cont)



NOTE

After each corrective action, retest.

e. Get rid of leaks by adjusting straps:

- To stop leaks at forehead, adjust temple straps (3).
- To stop leaks at temple, adjust forehead straps (4) and temple straps (3).

- To stop leaks at cheek, adjust cheek straps (5) and be sure headpad (6) is centered at the back of your head.
 - To stop leaks at the throat or under the chin, lift facepiece higher on face, seating chin firmly. Adjusting forehead straps (4) and cheek straps (5) may also help.
- f. 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 breathing does not remove dirt, remove facepiece, pull up outlet valve cover (8), lift up outlet valve disk (9), and wipe underside of outlet valve disk (9) with a dry, lint-free cheesecloth (item 3, app D).

If outlet valve disk (9) is sticking, massage lightly with one finger.

NOTE

If you have a bad seal and cannot stop leak, notify unit maintenance to replace mask.

2-15. Connecting end Using the Drinking System

WARNING

Do not connect the drink tube to your canteen until all mating surfaces have been checked and are free of contamination. Chemical agents could be swallowed, resulting in sickness and death.

NOTE

To use the drink tube, your canteen must be equipped with an M1 canteen cap.

- a. Fill your plastic water canteen before entering contaminated area, or, if in a contaminated area, work inside a protective shelter.
- b. Use M8 chemical agent detector paper to check for contamination before using the drink tube.

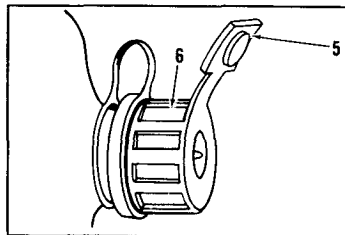
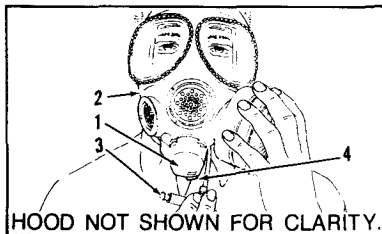
WARNING

Care should be taken not to break the facepiece seal while pressing in on the outlet valve body.

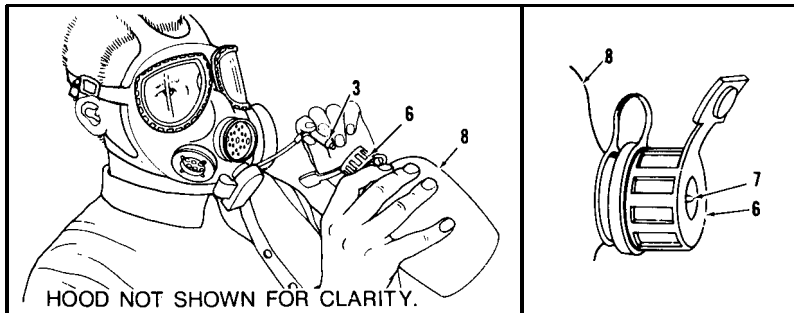
NOTE

Water may leak into facepiece if mouth is taken off internal drink tube.

- c. Press in on top of outlet valve (1) until internal drink tube can be grasped between your teeth.
- d. Steady facepiece (2) and pull wick disconnect coupling (3) out of outlet valve cover (4).
- e. Remove canteen from canteen carrier.
- f. Flip open cover (5) on M1 canteen cap (6).



2-15. Connecting and Using the Drinking System - (Cont)



- g. Push quick disconnect coupling (3) into M1 canteen cap (6) so that pin (7) enters coupling (3).

WARNING

If resistance is not felt, your drinking system is leaking. Do not drink. Notify unit maintenance to replace mask as soon as possible.

- h. Blow to create positive pressure. You should feel some resistance.

NOTE

Do not tilt head back while drinking.

- i. If system does not leak, raise and invert canteen (8) and drink water from canteen.
- j. After several swallows, stop sucking and lower canteen. Blow into internal drink tube to prevent canteen from collapsing. Repeat drinking procedure as required.
- k. Disconnect drinking system (para 2-16).

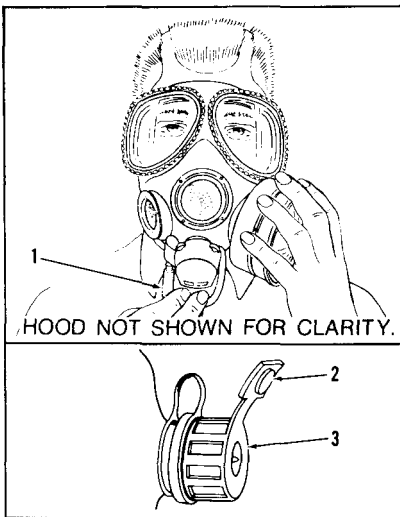
2-16. Disconnecting the Drinking System

WARNING

To prevent possible leakage around facepiece, do not pull external drink tube when removing canteen.

2-16. Disconnecting the Drinking System - (Cont)

- a. Turn canteen upright.
- b. Blow into internal drink tube.
- c. Firmly grasp quick disconnect coupling and pull canteen down and away to disconnect coupling.
- d. Check your facepiece for leaks (para 2-14).
- e. Remove internal drink tube from mouth.
- f. Push coupling (1) back into retainer on outlet valve cover.
- g. Flip down cover (2) on M1 canteen cap (3) before stowing.

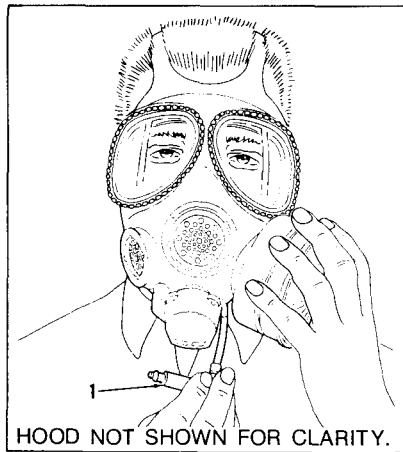


2-17. Checking Drinking System for Leaks

- a. Pull quick disconnect coupling (1) out of retainer.
- b. Grasp internal drink tube between your teeth.

WARNING

If the drinking system leaks, pinch the external drink tube where it connects to the outlet valve body to prevent inhalation of agent vapors until a replacement mask is obtained or the wearing of the mask is no longer required.



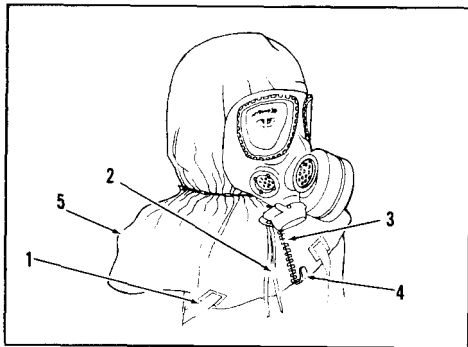
- c. Blow into internal drink tube. If resistance is not felt, drinking system is leaking. Notify unit maintenance and exchange mask as soon as possible.

2-17. Checking Drinking System for Leaks - (Cont)

- d. Grasp the internal drink tube between teeth and attempt to draw in air through drinking system.
- e. If you are able to draw in air, you have a faulty internal or external drink tube. Exchange mask as soon as possible.

2-18. Removing Your Facepiece With Hood Attached

- a. Remove helmet.
- b. Unfasten underarm straps (1).



CAUTION

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

- c. Loosen cord (2).
- d. Unzip the zipper (3) by holding the lower part of the zipper and pulling the slider (4) upward.
- e. Place both hands on back edge of hood skirt (5) and raise the hood above your head and pull over front of facepiece.
- f. Loosen cheek straps.
- g. Place one hand on the front voicemitter to hold facepiece on face and with other hand grasp head harness tab and pull the head harness over the front of the facepiece and remove facepiece.
- h. Replace helmet.

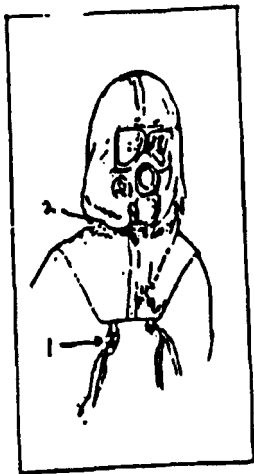
2-19. Removing Your Facepiece With Quick Doff Hood Attached (M40A1 only)

- a. Remove helmet.
- b. Unfasten underarm Straps (1).

CAUTION

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

- c. Using both hands, grasp the elastic gathering around the neck (2) at the back of the hood, and raise the hood above your head and pull over front of facepiece.
- d. Loosen cheek straps (3).
- e. Place one hand on the front voicemitter to hold facepiece on face. With other hand grasp head harness tab (4) and pull head harness over front of facepiece.



2-20. Stowing Your Mask and Additionally Authorized Items

WARNING

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

CAUTION

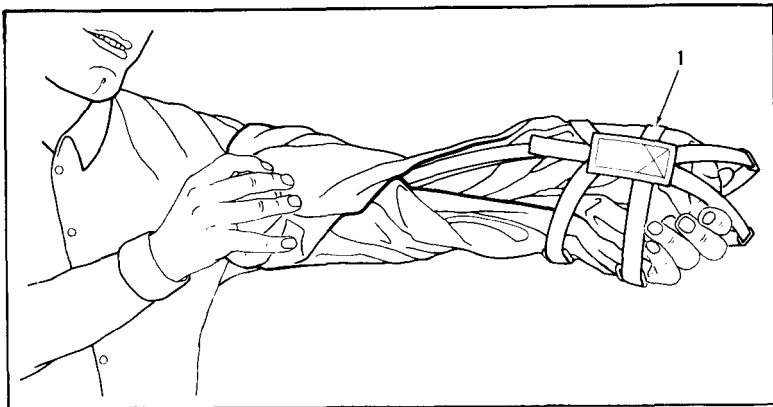
Abrasives such as sand and grit will scratch eyelenses. Be sure the outserts are installed on the facepiece.

NOTE

Facepiece can be stowed with or without the hood attached. To remove hood from facepiece, refer to para 2-21.

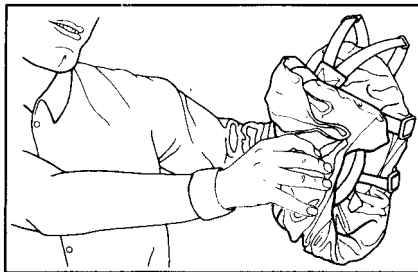
- a. Check that outserts are installed on facepiece (para 3-3c).
- b. Check that your facepiece is dry and free of oil and solvents before stowing.
- c. Check that interior of carrier is free of dirt and trash or other unauthorized items.

2-20. Stowing Your Mask and Additionally Authorized Items - (Cont)

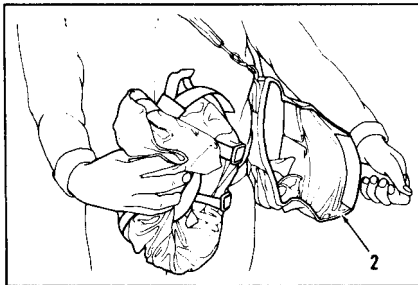


- d. Hold front of facepiece in a horizontal position and smooth the hood over it.
- e. Pull head harness (1) over front of facepiece.
- f. Fold the two edges of the hood over the outlet valve to create a "V" in the front of the hood. Store the underarm straps and cord in the "V".

- g. Fold the "V" upward to cover the eyelenses. Do not let the hood cover the chin opening.



- h. Hold the facepiece upright and put it in the carrier (2) with the lenses facing away from your body.

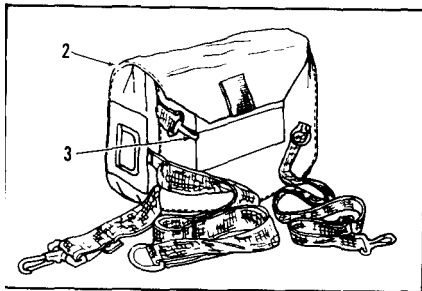


2-20. Stowing Your Mask and Additionally Authorized Items - (Cont)

NOTE

To stow facepiece after hood has been removed, fold hood as in steps e, f, and g. Place hood and facepiece in carrier as instructed in step h.

- i. Stow your other outserts, waterproof bag, and operator's manual in inside pockets of carrier.
- j. Close carrier.
- k. Store your facepiece in closed carrier in a cool, dry, dark place.
- l. It is preferable to hang carrier (2) by hook (3) on short strap.

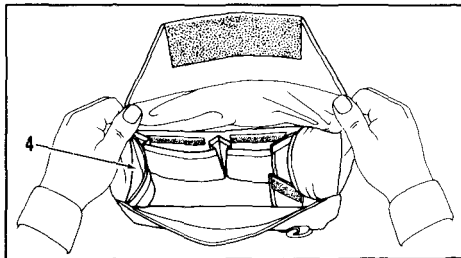


CAUTION

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

m. If issued the following items, stow as follows:

- Detector paper - stow in inside left pocket (4).
- M258A1 decontaminating kit - stow in outside bottom pocket of carrier.



2-21. Removing Hood from Facepiece

CAUTION

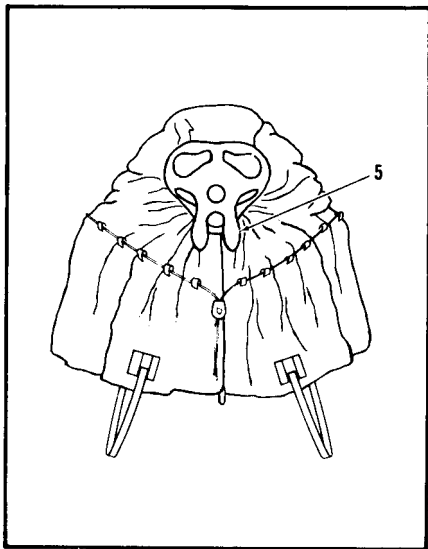
Be very careful in removing hood. The hood could snag on the buckles of head harness and tear.

NOTE (M40 only)

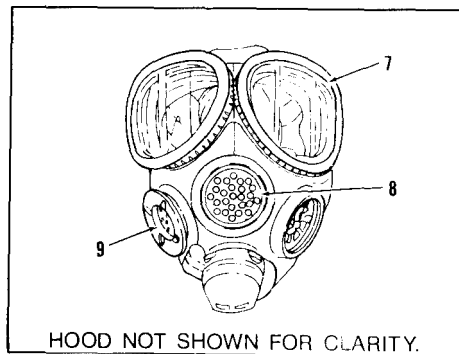
The hood can be detached from the facepiece only after the facepiece and hood have been removed from your head.

2-21. Removing Hood From Facepiece (Cont)

- a. Remove canister (para 3-2a).
- b. Remove outserts (para 3-3a).
- c. Unfasten hook and pile fasteners (5) on hood.



- d. Starting with either eyelens, stretch the eyelens openings and remove from eyelenses (7).
- e. Stretch hood and pull away from side voicemitter (9).
- f. Gently remove hood from front voicemitter (8) on facepiece.
- g. Carefully remove facepiece from inside of hood.
- h. Reinstall outserts on facepiece (para 3-3c).



2-22. Removing Quick DOFF Hood from Facepiece (M40A1 only)

CAUTION

Be very careful in removing quick doff hood. The quick doff hood could snag on the buckles of the facepiece and tear.

NOTE

Quick doff hood can be removed from facepiece while still wearing facepiece.

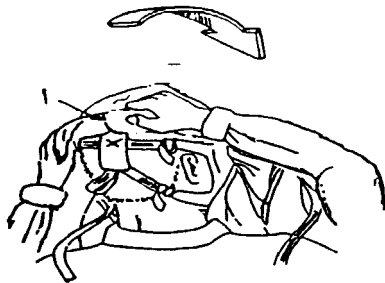
- a. Remove helmet.
- b. Release underarm straps.

WARNING

Insure hood clears canister and outlet valve cover when removing so seal of facepiece is not broken.

- c. Grasp elastic band around neck with both hands and carefully lift the hood over your head, allowing the hood to hang free in front of the mask.

- d. With one hand, support one side of the mask lens, pressing it against your face. With the other hand carefully stretch and lift the elastic over and around the eyelens. Repeat this procedure for the other lens.
- e. With one hand, hold mask around canister area firmly against your face. With the other hand, carefully work the elastic band over the canister and remove hood.

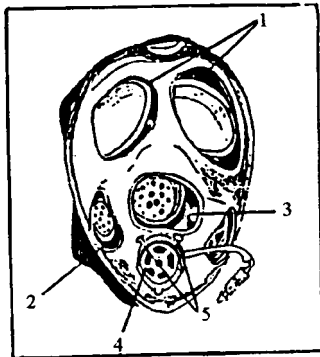


2-23. Removing Second skin from Facepiece - (M40A1 only)

CAUTION

Use extreme caution when stretching second skin openings.

- a. Remove outserts if installed (para 3-3).
- b. Stretch eyelens opening (1) of second skin, and pull second skin from facepiece.
- c. Stretch side voicemitter opening (2) of second skin, and pull second skin from facepiece.
- d. Stretch front voicemitter opening (3) of the second skin, and pull the second skin from the facepiece.



CAUTION

Be careful not to tear outlet valve cover opening (4) of second skin when pulling over flanges (5) on outlet valve.

- e. Stretch outlet valve cover opening (4) of the second skin, and pull the rest of the second skin from the facepiece.

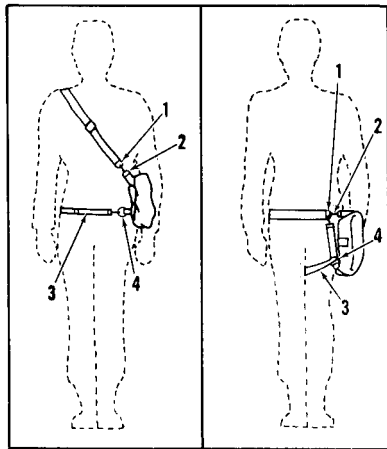
2-24. Wearing Your Carrier (Three Ways)

a. The shoulder carry method is as follows :

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

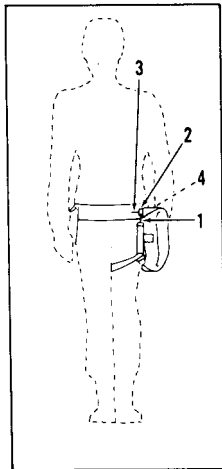
b. The leg carry method is as follows:

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



2-24. Wearing Your Carrier (Three Ways) - (Cont)

- c. The pistol belt method is as follows:
- Fold shoulder strap and tuck in waist strap pocket beneath ID plate.
 - Bring waist strap hook (1) from back and around inside of leg. Pass through round ring and hook to short strap (2).
 - Hook short strap hook (3) and short adjustable strap hook (4) into the holes on left hand side of pistol belt.



2-25. Operation of Additionally Authorized Items (App C)

a. Optical Inserts.

WARNING

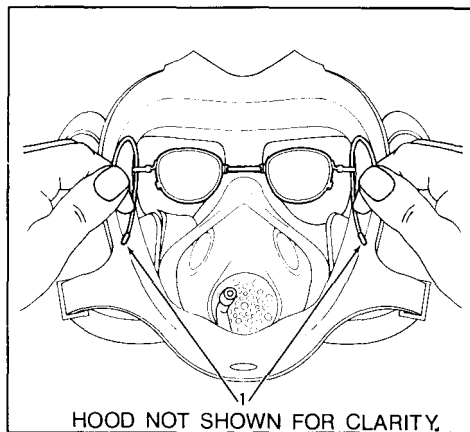
Do not wear contact lenses with your facepiece.

NOTE

Ensure head harness is over front of facepiece.

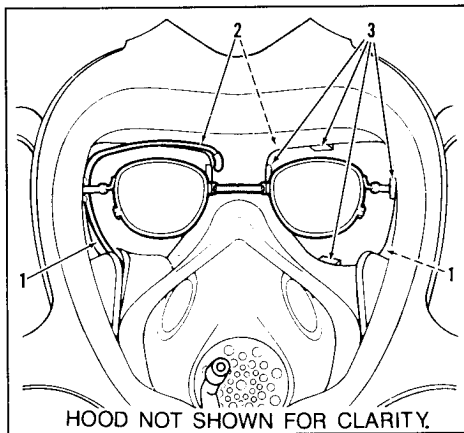
Remove optical inserts before turning in mask.

- (1) Place inserts in facepiece with tips of lower portion (1) of wire frame pointing toward you.



2-25. Operation of Additionally Authorized Items (App C) - (Cont)

- (2) Insert lower portion (1) of wire frame into bottom of lens cavities.
- (3) Insert and guide upper portion (2) of wire frame into top of lens cavities, ensuring that wire frames are seated beneath the four retainers (3) in each lens opening.



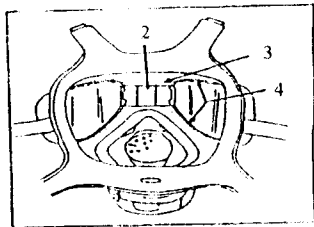
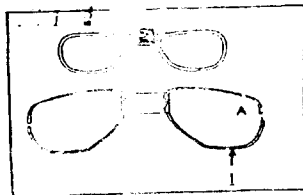
- b. M8 Chemical Agent Detector Paper. Refer to cover of book containing M8 chemical agent detector paper for operating instructions.
- c. M258A1 Decontaminating Kit. Refer to TM 3-4230-216-10 for operating instructions.

WARNING

Do not wear contact lenses with your facepiece.

Installation:

1. Place the mount frame (1) into the mask.
2. Position the center block (2) between the mask lenses, and press into place on bridge of mask (3).
3. Position mount hoops into the mask lens wells.
4. Grasp the top and bottom hoops and pull outward until the ends of the hoops lock into place (A).



2-25. Operation of Additionally Authorized Items (App C) - (Cont)

NOTE

Before attempting to install the prescription lens carrier, loosen the set of until the points are flush with the surface of the mount block.

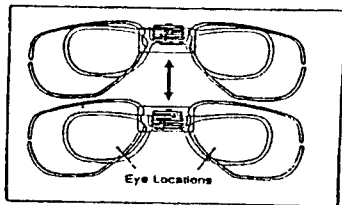
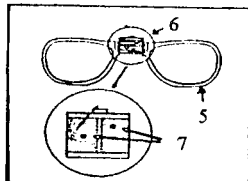
5. The prescription lens carrier (5) is installed by alining the carrier's mounting block (6) with the groove of the mount frame and sliding the carrier into place.

ADJUSTMENT:

1. Loosen set screws (7) prior to adjustment. The vertical height of the prescription lens carrier can be adjusted by sliding the carrier upward or downward.

REMOVAL:

1. For routine removal, loosen lens carrier set screws (7) until free of mount, and remove.
2. For other than routine removal, grasp the prescription lens carrier and pull from the mask. If the lens carrier separates from the mount, grasp the mount at the center and pull to remove.



Section VI. OPERATION UNDER UNUSUAL CONDITIONS

2-26. Operation in Unusual Weather

CAUTION

Keep facepiece dry. Moisture could clog the canister or saturate absorbent material and make it useless.

NOTE

Always use facepiece with outserts installed when operating in cold climate to help prevent fogging.

a. General Instructions You Must Follow In Cold Weather.

- (1) During periods between repeated uses, take facepiece out of carrier and shake or flex facepiece to remove ice and snow.

CAUTION

Do not warm up the facepiece near a heater or open flame. The silicone rubber parts of facepiece could melt.

- (2) Warm facepiece when you can.

- (3) Dry facepiece with cheesecloth (item 3, app D), in a warm indoor area. Carefully dry outlet and nosecup valves.
- (4) Before entering a warm area from subzero temperature, remove frost and snow from facepiece.

b. Putting on Your Facepiece in Cold Weather.

- (1) Perform the normal procedure for putting on your facepiece and hood (para 2-13), but keep in mind the following points in cold weather.
- (2) Remove helmet, mittens, and gloves and make other adjustments to your garments as necessary to put on your facepiece properly.

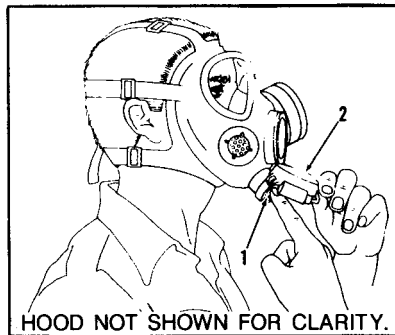
WARNING

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

- (3) Exhale slowly and lightly. If you feel resistance when exhaling, the outlet valve may be sticking.

2-26. Operation In Unusual Weather - (Cont)

- (4) If outlet valve disk (1) sticks to outlet valve seat, do the following:
- Lift bottom of outlet valve cover (2).
 - Massage outlet valve disk (1) with one finger, only when you exhale, until outlet valve disk (1) functions properly.
 - Reseat bottom of outlet valve cover (2).
- (5) Check your facepiece for leaks (para 2-14).
- (6) Resume normal breathing.



WARNING

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

(7) Put on gloves, mittens, and helmet as necessary.

NOTE

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

c. Removing Your Facepiece in Cold Weather.

WARNING

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

2-26. Operation In Unusual Weather - (Cont)

- (1) Remove mittens and gloves as necessary.
- (2) Unfasten outer garment at neck and remove helmet.
- (3) Unmask and shake ice accumulation from facepiece.
- (4) Stow mask (para 2-20).
- (5) Put on helmet and fasten outer garment.
- (6) Put on gloves and mittens if necessary.

CHAPTER 3

MAINTENANCE INSTRUCTIONS

Section I. LUBRICATION INSTRUCTIONS

No lubrication is required for the mask.

Section II. TROUBLESHOOTING

Perform PMCS procedures (table 2-1).

Section III. MAINTENANCE PROCEDURES

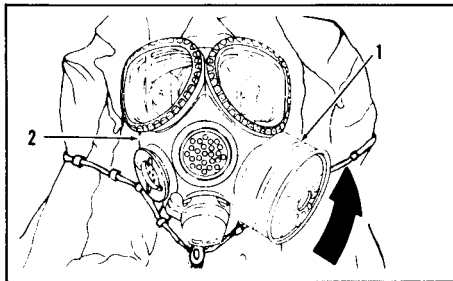
3-1. General

- a. This section contains step-by-step procedures for maintaining the mask.
- b. You the operator, are authorized to inspect and service the mask and additionally authorized items. It is your responsibility to notify your NBC NCO or officer of all defects and of maintenance requirements not authorized in this manual.

3-2. Canister Servicing

a. Removal.

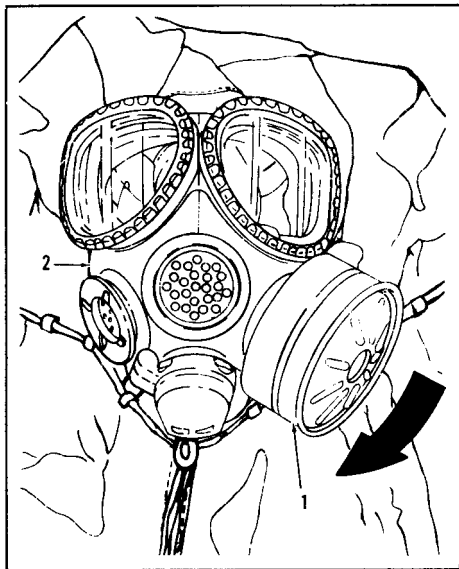
- (1) Remove the canister (1) by unscrewing counterclockwise from facepiece (2).
- (2) Check the connectors of canister, mating surfaces of the facepiece and areas between these surfaces for dirt or other foreign material which could allow contaminated air into your facepiece.



3-2. Canister Servicing - (Cont)

b. Installation.

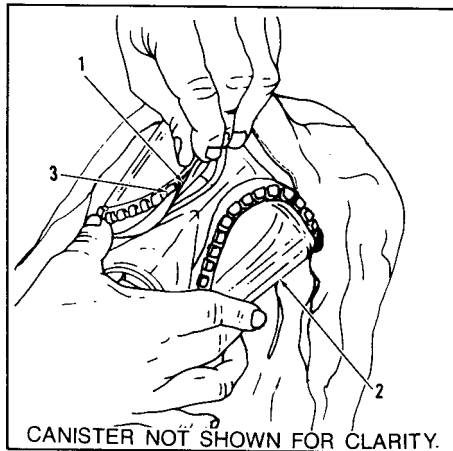
- (1) Insert canister (1) into side port of facepiece (2).
- (2) Tighten canister handtight by turning clockwise.



3-3. Outserts Servicing

a. Removal.

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



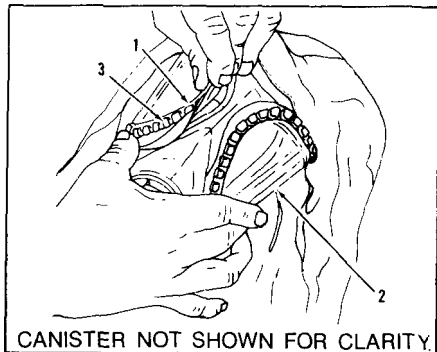
3-3. Outserts Servicing - (Cont)

- b. Cleaning. Clean and polish outserts with polish (item 6, app D).
- c. Installation.

NOTE

Be sure to install right outsert on right eyelens and left outsert on left eyelens.

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



3-4. Mask Servicing

a. Decontaminating.

CAUTION

DS2 may damage the voicemitters of the facepiece. When exposed to DS2, splash voicemitters with clean water. Do not wet the canister.

(1) Use the M258A1 skin decontaminating kit according to instructions in TM 3-4230-216-10.

(2) Refer to Unit SOP for complete decontamination procedures.

b. Cleaning.

NOTE

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

You will need the following items to clean your facepiece:

- Alcohol (item 4, app D)
- Brush (item 1, app D)
- Cheesecloth (item 3, app D)

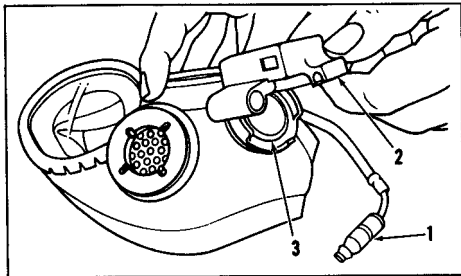
3-4. Mask Servicing - (Cont)

- Pail (item 5, app D)
 - Polish (item 6, app D)
 - Soap (item 7 app D)
- (1) Remove canister (if installed) (para 3-2a), outserts (para 3-3a), hood (para 2-21) and quick doff hood (para 2-22).

CAUTION

Do not allow canister to become wet. A wet canister is useless.

- (2) Set canister aside, away from cleaning operations.
- (3) Pull quick disconnect coupling (1) out of retainer on side of outlet valve cover.
- (4) Remove outlet valve cover as follows:

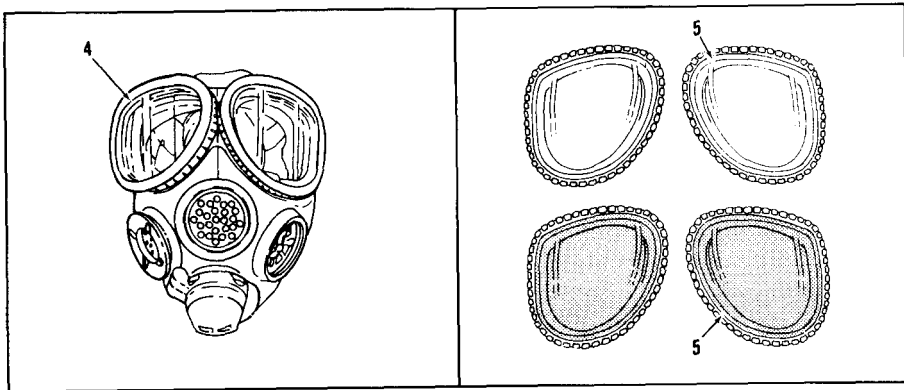


- (5) Remove second skin (para 2-23) (M40A1 only).
- Grasp tab (2) at bottom of outlet valve cover and lift bottom portion of outlet valve cover from outlet valve (3).
 - Pull sides of outlet valve cover away from groove around outlet valve (3).
 - Disconnect outlet valve cover from flanges on top of outlet valve (3).
- (6) If necessary, remove greasy or oily substances from your facepiece, second skin, and hood with alcohol (item 4, app D) and cheesecloth (item 3, app D).
- (7) Clean your facepiece, hood, and outserts inside and out, using clean cheesecloth (item 3, app D), soap (item 7, app D), and a pail (item 5, app D). Dip the cheesecloth in warm, soapy water and wring cheesecloth almost dry. A soft brush (item 1, app D) may also be used.
- (8) Rinse by wiping with a clean cheesecloth (item 3, app D) that has been dipped in warm, clear water and wrung almost dry.
- (9) Dry facepiece, hood, and outserts with cheesecloth (item 3, app D) or allow to air dry.

CAUTION

Ensure all components are entirely dry before stowing.

3-4. Mask Servicing (Cont)

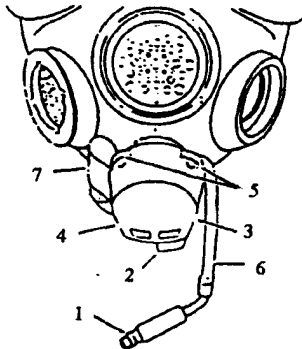


(10) To clean and polish eyelenses (4) and both sets of outserts (5), use polish (item 6, app D).

(11) Install second skin (para 2-11) (M40A1 only).

(12) Install outlet valve cover as follows:

- * Install outlet valve cover (4) on flanges (5) on top of outlet valve (3).
- * Using tab (2) on bottom of outlet valve cover (4), pull outlet valve cover over face of outlet valve (3). Make sure outlet valve cover snaps in place around outlet valve (3).
- * Install quick disconnect coupling (1) securely in outlet valve cover retainer (7). Fasten external drink tube (6) to tab (2).



3-4. Mask Servicing - (Cont)

(13) Install canister (para 3-2b), outserts (para 3-3c).

(14) Install hood (para 2-10), or quick doff hood (para 2-12) (M40A1 only).

WARNING

Do not allow dirt to remain in carrier. Foreign material in carrier may get into valves, causing them to leak.

CAUTION

Abrasive material in carrier will scratch lens.

(15) Remove contents from carrier.

(16) Shake carrier upside down to remove dirt and foreign matter.

(17) Soak brush (item 2, app D) in cold water.

(18) Shake brush to remove excess water.

(19) Clean carrier with brush.

CAUTION

Ensure carrier is entirely dry before stowing components.

APPENDIX A

REFERENCES

A-1. SCOPE

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

A-2. FORMS

Equipment Inspection and Maintenance Worksheet	DA Form 2404
Preventive Maintenance Schedule and Record	DD Form 314
Quality Deficiency Report	SF 368
Recommended Changes to Publications and Blank Forms	DA Form 2028

A-3. FIELD MANUALS

First Aid For Soldiers.	FM 21-11
NBC Protection	FM 3-4

A-4. TECHNICAL MANUALS

Operator's Manual for Decontaminating Kit, Skin: M258A1 and
Training Aid, Skin Decontaminating: M58A1 TM 3-4230-216-10

A-5. MISCELLANEOUS PUBLICATIONS

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

APPENDIX B

COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LIST

Section I. INTRODUCTION

B-1. SCOPE

This appendix lists components of end item and basic issue items for the M40 mask to help you inventory items required for safe and efficient operation.

B-2. GENERAL

The Components of End Item and Basic Issue Items Lists are divided into the following sections:

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

B-2. GENERAL - (Cont)

- b. Section III. Basic Issue Items. These are the minimum essential items required to place the M40 mask in operation, to operate it, and to perform emergency repairs. Although shipped separately packaged, BII must be with the M40 mask during operation and whenever it is transferred between property accounts. The illustrations will assist you with hard-to-identify items. This manual is your authority to request/requisition replacement BII, based on TOE/MTOE authorization of the end item.

B-3. EXPLANATION OF COLUMNS

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

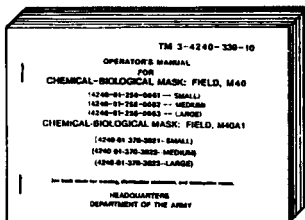
- a. Column (1) - Illustration Number (Illus Number). This column indicates the number of the illustration in which the item is shown.
- b. Column (2) - National Stock Number. Indicates the National stock number assigned to the item and will be used for requisitioning purposes.
- c. Column (3) - Description. Indicates the Federal item name and, if required, a minimum description to identify and locate the item. The last line for each item indicates the FSCM (in parentheses) followed by the part number.

- d. **Column (4) - Unit of Measure (U/M).** Indicates the measure used in performing the actual operational/maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in., pr).
- e. **Column (5) - Quantity required (Qty rqr).** Indicates the quantity of the item authorized to be used with/on the equipment.

Section II. COMPONENTS OF END ITEM

There are no components of end item required.

Section III. BASIC ISSUE ITEMS LIST



(1) Illus Number	(2) National Stock Number	(3) Description FSCM and Part Number	Usable On Code	(4) U/M	(5) Qty Rqr
1	---	Operator's Manual Mask, Chemical- Biological: Field, M40/M40A1 TM 3-4240-339-10		EA	1

APPENDIX C
ADDITIONAL AUTHORIZATION LIST

Section I. INTRODUCTION

C-1. SCOPE

This appendix lists additional items you are authorized for the support of the M40 mask.

C-2. GENERAL

This list identifies items that do not have to accompany the M40 mask and that do not have to be turned in with it. These items are authorized to you by CTA, MTOE, TDA, or JTA.

C-3. EXPLANATION OF LISTING

National stock numbers, descriptions, and quantities are provided to help you identify and request the additional items you require to support 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 FSCM & Part Number	(3) U/M	(4) QTY AUTH
<u>CTA AUTHORIZED ITEMS</u>			
5895-01-381-9012	AMPLIFIER, AUDIO FREQUENCY: M7 (81361) 5-1-2720-1	EA	1
8465-01-115-0026	CANTEEN, WATER, WITH M1 CANTEEN CAP (81349) MIL-C-43103	EA	1
4230-01-101-3964	DECONTAMINATING KIT, SKIN, M258A1 ((81361) D5-77-2366	KT	1
6665-00-050-8529	PAPER, CHEMICAL AGENT DETECTOR, M8 (81361) D5-67-266	BK	1
* * *	INSERTS, OPTICAL*	PR	1

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

APPENDIX D
EXPENDABLE/DURABLE SUPPLIES AND
MATERIALS LIST

Section I. INTRODUCTION

D-1. SCOPE

This appendix lists expendable/durable supplies and materials you will need to operate and maintain the M40 mask. This listing is for informational purposes only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970, Expendable/Durable Items (Except Medical, Class V, Repair Parts , and Heraldic Items), or CTA 8-100, Army Medical Department Expendable/Durable Items.

D-2. EXPLANATION OF COLUMNS

- a. Column (1) - Item number. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., "Use cleaning compound (Item 5, App D).").
- 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/DURABLE 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: (81348) H-B-1654	EA
2	C	7920-00-061-0037	BRUSH, SCRUB: nylon bristle (81348) H-B-1490-6-P1	EA
3	C	8305-00-222-2423	CLOTH, CHEESECLOTH: cotton basic, type 1, class 1 (81348) CCC-C-440	YD
4	C	6505-00-655-8366	ISOPROPYL RUBBING ALCOHOL: 1-pt (473.18-ml) plastic bottle (56287) PUREPAC	PT


Section II. EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST - (Cont)

(1) Item Number	(2) Level	(3) National Stock Number	(4) Description	(5) U/M
5	C	7240-01-094-4305	PAIL, UTILITY: plastic, snap-on lid, 5-gal. (58536) A-A-332	EA
6	C	7930-00-935-3794	POLISH, PLASTIC: liquid, 1-pt (473.18 ml) glass bottle, type 1 24 ea box (81348) P-P-560	EA
7	C	8520-00-228-0598	SOAP, TOILET: nonmedicated, liquid, 1-gal. (3.78-l) can, type 1 (81348) P-S-624	GL

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