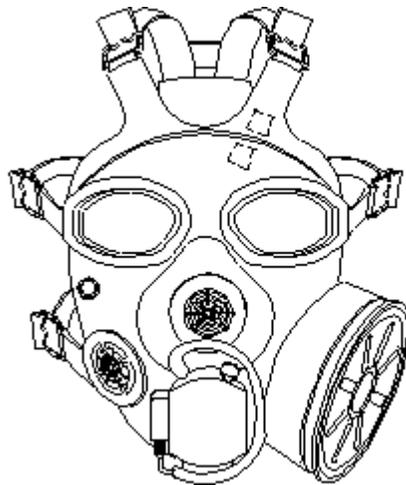


TECHNICAL BULLETIN

**CHEMICAL-BIOLOGICAL PROTECTIVE MASK
FOR
HARD-TO-FIT SERVICE MEMBERS**



*This manual supersedes TB 3-4240-341-20-1, 16 April 2001, including all changes.

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HEADQUARTERS, DEPARTMENT OF THE ARMY

1 June 2002

LIST OF EFFECTIVE PAGES/WORK PACKAGES

Date of issue for revised manual is:

Revised 1 June 2002

TOTAL NUMBER OF PAGES FOR FRONT AND REAR MATTER IS 6 AND TOTAL
NUMBER OF WORK PACKAGES IS 4 CONSISTING OF THE FOLLOWING:

Page/WP No.	*Change No.	Page/WP No.	*Change No.	Page/WP No.	*Change No.
Title.....	0				
A/B blank.....	0				
i – ii.....	0				
WP 0001 00 (4 pgs).....	0				
WP 0002 00 (2 pgs).....	0				
WP 0003 00 (2 pgs).....	0				
WP 0004 00 (2 pgs).....	0				
Rear Matter.....	0				

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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 1 June 2002

TECHNICAL BULLETIN
CHEMICAL-BIOLOGICAL PROTECTIVE MASK
FOR
HARD-TO-FIT SERVICE MEMBERS

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: Commander, U.S. Army Soldier and Biological Chemical Command, ATTN: AMSSB-REN-CW, Aberdeen Proving Ground, MD 21010-5424. A reply will be furnished to you.

EQUIPMENT HOTLINE

Do you have a problem or question about the equipment covered in this publication and need to talk to someone? The Soldier and Biological Chemical Command (SBCCOM) has a hotline you can contact. The phone numbers are toll free from the USA, Germany, and Korea and these lines are manned during our normal duty hours. If you call during our off duty hours you can leave a voice mail message and we will get back to you. Your E-mail or facsimile (FAX) message can be sent at any time and will be handled during the next business day. The numbers are:

U.S.A. (toll free).....1-800-831-4408
Germany (toll free).....0130810280
Korea (toll free).....0078-14-800-0335
FAX (DSN).....584-3912
FAX (Commercial).....(410) 436-3912
E-mail.....CEH@sbccom.apgea.army.mil

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UNIT MAINTENANCE
CHEMICAL BIOLOGICAL PROTECTIVE MASK – HARD TO FIT SERVICE MEMBERS
GENERAL INFORMATION

BACKGROUND

A small percentage of service members cannot be properly fitted with the authorized protective mask. In the past we used subjective means of verifying fit: e.g.: Banana Oil. The M41 Protection Assessment Test System (PATS) provides an objective measurement of proper fit, or “fit factor” so we are able to more effectively determine if service members have a properly fitting mask.

PURPOSE

This Technical Bulletin (TB) provides specific guidance and information to unit NBC personnel to insure that service members are properly assessed for the fit of their mask. It also addresses the options available to provide an acceptable level of protection for those who cannot be fitted with the unit’s authorized mask.

GENERAL

Hard-to-Fit service members are usually those at the very top (Large) and very bottom (X-small) of the sizing tariff.

PROCEDURES FOR DETERMINING IF A SERVICE MEMBER CANNOT BE FITTED WITH THE AUTHORIZED PROTECTIVE MASK**NOTE**

The Unit Chemical Officer or NCO (MOS 54B – Army) will accomplish the following procedures.

1. Conduct Preventive Maintenance Checks and Services (PMCS) on the service member’s mask using the appropriate Technical Manual or Technical Order.
2. Test the service member’s mask fit in accordance with the technical equipment publication (TM 3-4240-349-12&P) for the M41 PATS or service approved test method.
3. If service member fails to get a “Pass”, he/she shall acquire a skullcap head harness, NSN 4240-01-390-3057. Install and recheck.
4. If the service member again fails to get a “Pass”, he/she is then considered a Hard-to-Fit service member. Hard-to-Fit service member’s provide the unit commander with the following choices when the unit is a deployable unit:
 - a. Declare the service member as NON-DEPLOYABLE per AR 600-8-101, Change 2, paragraph 4.7.h (2) (for Army units) or service specific regulation.
 - b. Acquire a M45 Land Warrior, Chemical-Biological Mask and attempt to properly fit the service member.

PROCEDURES FOR ACQUIRING M45 MASKS FOR HARD-TO-FIT SERVICE MEMBERS

1. Once the service member is identified as a Hard-to-Fit, acquire the following information:
 - a. Service Member's Name, Rank, SSN, and job title (e.g. Armor Crewman).
 - b. The normal wear configuration the service member uses (e.g. Canister mounted on the facepiece or hose or whether the service member fires their individual weapon RIGHT-HANDED OR LEFT-HANDED).
 - c. Communications requirement, if any.
 - d. Type of protective overgarment the service member is issued (e.g. Battle Dress Overgarment (BDO) or Joint Service Lightweight Integrated Suit Technology (JSLIST)).
2. Forward information to the division or separate brigade Chemical Officer/NCO.
3. Unit Commander will request through the Central Issue Facility (CIF), who will mail, e-mail or FAX the information above to the SBCCOM Logistics Operations Center at the following numbers:
 - a. VOICE TELEPHONE: DSN 256-4005/4060, Commercial: 508-233-4005/4060
 - b. Facsimile (FAX): DSN 256-4471, Commercial: 508-233-4471
 - c. Email address: AMSSB-RIM-E@natick.army.mil
 - d. Mailing address: SBCCOM Logistics Operations Center, ATTN: AMSSB-RIM-E, Natick, MA 01760-5052.
4. Additionally, provide the following:
 - a. COMPLETE unit mailing address to include Unit Identification Code (UIC) and Department of Defense Activity Address Code (DODAAC).
 - b. A statement signed by the unit commander including the Commander's full name, rank, and telephone number. This ensures that the procedures in paragraph 3 above have been completed and the service member(s) are verified as hard-to-fit.
 - c. Based on information provided in paragraph 4a above, the SBCCOM Logistics Operations Center will provide a list of what the unit needs to operate and maintain the M45 mask.

ACTIONS AFTER RECEIPT OF THE M45 MASK

1. Provide a copy of receipt documentation by FAX (see above for number) or mail to: SBCCOM Logistics Operations Center, ATTN: AMSSB-RIM-E, Natick, MA 01760-5052.
2. Fit the individual in accordance with Section III, TM 3-4240-348-20&P (Mask, Chemical-Biological: Land Warrior, M45).
3. Test the service member's mask interface by employing the M41 PATS and the same procedure used to determine that he/she was "Hard-to-Fit".
4. If the individual/M45 mask system passes the test, issue the mask to him/her. If a failure occurs, contact the SBCCOM Logistics Operations Center, ATTN: AMSSB-RIM-E, Natick, MA 01760-5052, DSN 256-4005/4060, Commercial: 508-233-4005/4060. A recommendation should be made to the commander that the soldier is NON-DEPLOYABLE.

LOGISTICS SUPPORT PROCEDURES

1. General. M45 Masks are issued to Hard-to-Fit service members as Individual Equipment. Certified Hard-to-Fit service members retain possession of their mask as they transfer between duty stations. Unlike most masks, the M45 mask authorization for Hard-to-Fit service members is documented in the Common Table of Allowances (CTA 50-900), Clothing and Individual Equipment, 1 Sep 1994, and not in a unit's Modified Table of Organization and Equipment (MTOE), Modified Table of Distribution and Allowances (MTDA)(Army), or service specific authorization documents.
2. Individual Equipment. Since each Hard-to-Fit service member is custom fitted with his/her mask, the service member retains possession of the mask until he/she terminates service. Service members are responsible for the proper safeguarding of the masks as well as proper maintenance. Upon change of stations, the service member retains possession of the mask and arrives with it at the next station. During out-processing, the losing issue point validates on the service member's Clothing and Individual Equipment Record (DA Form 3645, Oct 91) that the mask is present. The mask and record accompany the service member to his/her new duty station. Upon arrival, the service member reports to the gaining issue point for in-processing during which an inventory is conducted showing the mask is present and the Clothing and Individual Equipment Record is validated where upon the mask is officially transferred to the gaining issue point in accordance with AR 735-5, paragraph 5-6(c) for the Hard-to-Fit M45 mask. THE SERVICE MEMBER RETAINS POSSESSION OF THE MASK.
3. Accountability. Upon receipt of masks for Hard-to-Fit service members, formal accountability documenting the issue of these masks to the individual will occur. Masks for Hard-to-Fit service members are not stocked as Authorized Stockage List (ASL) at the unit issue point nor are they used as sizing floats. Masks are accounted for using formal procedures in the appropriate service regulation. For Army units, DA PAM 710-2-1 provides these procedures. Accountability transfers when the individual processes out in route to a new unit. The CIF will turn in the Hard-to-Fit M45 masks upon the Ending Term of Service (ETS) or Retirement, to the supporting Standard Army Retail Supply System (SARSS) activity who will report to the (IMMC), RIC: A12, Soldier and Biological Chemical Command, in accordance with AR 725-50, Chapter 7.
4. Wholesale. Accounting for assets purchased especially for SBCCOM IMMC-RIA RIC A12 (Project Code DGF) accomplishes the Hard-to-Fit program.
4. Authorization. Authorization to maintain M45 mask(s) for Hard-to-Fit service members is contained in Common Table of Allowances (CTA 50-900). Basis of issue in CTA 50-900 reads: Per service member who, while wearing the authorized protective mask, cannot achieve the appropriate level of protection (protection factor) when tested with the M41 Protection Assessment Test System and when the M45 CB Mask is not otherwise authorized. M45 mask will be retained by the soldier on PCS transfers until soldier separation from active service. Item will be returned to the supply system at that time.
6. Maintenance. Maintaining the M45 assigned to Hard-to-Fit service members is the responsibility of the unit to which the service member is assigned. Technical Manuals TM 3-4240-341-10 and TM 3-4240-341-20&P contain operator and unit maintenance for the Mask, Chemical-Biological: M45. Technical Manuals TM 3-4240-348-10 and TM 3-4240-348-20&P contain operator and unit maintenance for the Mask, Chemical-Biological: Land Warrior, M45. Requirements for repair parts to support M45 Hard-to-Fit masks shall cite Project Code DGF.

UNIT MAINTENANCE
CHEMICAL BIOLOGICAL PROTECTIVE MASK – HARD TO FIT SERVICE MEMBERS
REFERENCES

This work package lists all technical manuals and miscellaneous publications referenced in this bulletin.

AR 600-8-101	Personnel Processing – (In-and-Out and Mobilization Processing)
AR 725-50	Requisition, Receipt and Issue System
AR 735-5	Policies and Procedures for Property Accountability
CTA 50-900	Clothing and Individual Equipment
DA Form 3645	Organizational Clothing and Individual Equipment Record
DA PAM 710-2-1	Using Unit Supply System: Manual Procedures
TM 3-4240-341-10	Operator’s Manual for Mask, Chemical-Biological, M45
TM 3-4240-341-20&P	Unit Maintenance Manual for Mask, Chemical-Biological: M45
TM 3-4240-348-10	Operator’s Manual for Mask, Chemical-Biological, Land Warrior, M45
TM 3-4240-348-20&P	Unit Maintenance Manual for Mask, Chemical-Biological, Land Warrior, M45
TM 3-4240-349-12&P	Operator and Unit Maintenance Manual for Protection Assessment Test System, M41

UNIT MAINTENANCE
CHEMICAL BIOLOGICAL PROTECTIVE MASK – HARD TO FIT SERVICE MEMBERS
PARTS LIST

GENERAL INFORMATION

If the service member has been issued the BDO, a protective hood must be required – HOOD, NSN: 4240-01-441-0553. The M45 Land Warrior mask issued for Hard-to-Fit service members DOES NOT have a hood provided. If the JSLIST overgarment has been issued, a hood is not required.

PARTS LIST

<u>ITEM</u>	<u>NSN</u>
HOSE, NON-METALLIC, W/O GASKET	4720-01-445-3691
GASKET	5330-01-231-3877
POSITIONER, MICROPHONE	5965-01-443-5488
MICROPHONE, DYNAMIC	5965-01-277-8589
CARRIER, CANISTER	4240-01-376-1382
CABLE ASSEMBLY, SPECIAL PURPOSE (11-1/2")	5995-01-100-6255
CARRIER ASSEMBLY	4240-01-399-3350

NOTE

To obtain a proper fit one or more of the following items may be requisitioned

NOSECUP ASSEMBLY, EXTRA SMALL, RIGHT	4240-01-441-0561
NOSECUP ASSEMBLY, SMALL, RIGHT	4240-01-441-0560
NOSECUP ASSEMBLY, MEDIUM, RIGHT	4240-01-441-0566
NOSECUP ASSEMBLY, LARGE, RIGHT	4240-01-441-0567
NOSECUP ASSEMBLY, EXTRA LARGE, RIGHT	4240-01-443-5485
NOSECUP ASSEMBLY, EXTRA SMALL, LEFT	4240-01-441-0556
NOSECUP ASSEMBLY, SMALL, LEFT	4240-01-441-0554
NOSECUP ASSEMBLY, MEDIUM, LEFT	4240-01-441-0559
NOSECUP ASSEMBLY, LARGE, LEFT	4240-01-441-0558
NOSECUP ASSEMBLY, EXTRA LARGE, LEFT	4240-01-441-0563
TM 3-4240-341-10	Operator Manual for Mask, CB: M45
TM 3-4240-341-20&P	Unit Maintenance Manual for Mask, CB: M45
TM 3-4240-348-10	Operator Manual for Mask, CB, Land Warrior, M45
TM 3-4240-348-20&P	Unit Maintenance Manual for Mask, CB, Land Warrior, M45
TM 3-4240-349-12&P	Operator and Unit Maintenance Manual for M41 PATS

**UNIT MAINTENANCE
CHEMICAL BIOLOGICAL PROTECTIVE MASK – HARD TO FIT SERVICE MEMBERS
SERVICE MEMBER HARD-TO-FIT DATA**

DATE: _____

RANK: _____ LAST FOUR (SSN): _____

LAST NAME: _____ FIRST NAME: _____

PRESENT UNIT: _____

UNIT ADDRESS: _____

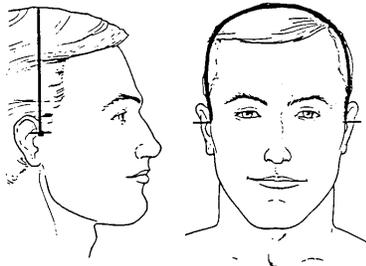
UNIT IDENTIFICATION CODE (UIC): _____ MOS: _____

DOD ACTIVITY ADDRESS CODE (DODAAC): _____

E-MAIL ADDRESS: _____

CIRCLE AND DESCRIBE THE HARD-TO-FIT AREA(S) ON THE FACE DIAGRAMS BELOW

Description of Hard-to-Fit Area:



PLEASE CIRCLE THE BEST ANSWER BELOW FOR a-f.

a. Deployment status (in days):	7 days	14 days	21 days	28 days	Not deploying
b. Left or right handed:	Left			Right	
c. Current authorized mask:	M40	M42	M17A2 (xs only)	M25A1	
d. Current mask size:	Small		Medium	Large	
e. M45 mask requesting:	Extra small			Large	
f. Configuration requirement:	Armor Crewman	Mech inf	Other:		

CHEMICAL NCO's NAME: _____

CHEMICAL NCO's ADDRESS: _____

CHEMICAL NCO's TELEPHONE NO. _____

UNIT COMMANDER'S SIGNATURE: _____

CENTRAL ISSUE FACILITY (CIF) POC: _____

CIF DODAAC: _____ CIF TELEPHONE NO. _____

CIF ADDRESS: _____

NOTE: ALL FIELDS ON THIS FORM MUST BE COMPLETE AND ACCURATE

By Order of the Secretary of the Army:

Official:



JOEL B. HUDSON
*Administrative Assistant to the
Secretary of the Army*
0214301

ERIC K. SHINSEKI
*General, United States Army
Chief of Staff*

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