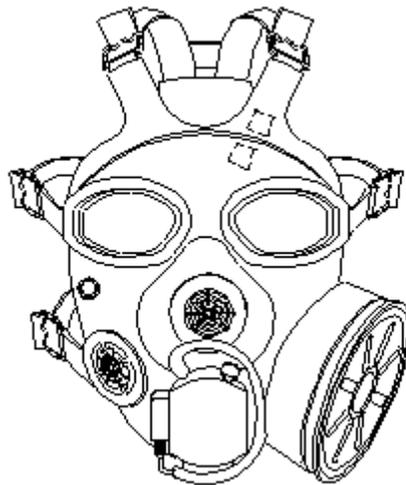


TECHNICAL BULLETIN

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



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HEADQUARTERS, DEPARTMENT OF THE ARMY

16 APRIL 2001

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i	0		
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DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 16 April 2001

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.

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TABLE OF CONTENTS

	<u>WP Sequence No.</u>
General Information.....	0001 00
References	0002 00
Parts List	0003 00
Service Member Hard-to-Fit Data	0004 00

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 for the M41 PATS or service approved test method.
3. 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 an M45 CB 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. The unit Chemical Officer/NCO will telephone 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 3-4240-341-20&P.
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 service members as Individual Equipment. A certified Hard-to-Fit service member retains 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 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. **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.
4. **Wholesale.** Accounting for assets purchased especially for SBCCOM IMMC-RIA RIC A12 (Project Code GDF) accomplishes the Hard-to-Fit program.
5. **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.
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 GDF.

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-Out and Mobilization Processing)
AR 710-2-1	Using Unit Supply System Manual Procedures
CTA 50-900	Clothing and Individual Equipment
DA PAM 710-2-2	Supply Support Activity 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 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, RIGHT	4240-01-441-0561
NOSECUP ASSEMBLY, RIGHT	4240-01-441-0560
NOSECUP ASSEMBLY, RIGHT	4240-01-441-0566
NOSECUP ASSEMBLY, RIGHT	4240-01-441-0567
NOSECUP ASSEMBLY, RIGHT	4240-01-443-5485
NOSECUP ASSEMBLY, LEFT	4240-01-441-0556
NOSECUP ASSEMBLY, LEFT	4240-01-441-0554
NOSECUP ASSEMBLY, LEFT	4240-01-441-0559
NOSECUP ASSEMBLY, LEFT	4240-01-441-0558
NOSECUP ASSEMBLY, 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

SERVICE MEMBER HARD-TO-FIT DATA

NAME _____

RIGHT OR LEFT-HANDED _____

PRESENT UNIT _____

UNIT ADDRESS _____

UNIT IDENTIFICATION CODE (UIC) _____

DOD ACTIVITY ACTION CODE (DODAAC) _____

E-MAIL ADDRESS (if available) _____

MOS _____

PRESENTLY AUTHORIZED MASK: {Circle one}

MODEL: e.g. M40, M42, M17A2 (XS only), M25A1

PRESENT MASK SIZE: Small, Medium, Large

CONFIGURATION REQUIREMENTS: _____
(e.g.: Armor Crewman, Mech Inf, other)

UNIT COMMANDER'S SIGNATURE _____

By Order of the Secretary of the Army:

Official:



JOEL B. HUDSON

*Administrative Assistant to the
Secretary of the Army*

0017310

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

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