

# **TECHNICAL MANUAL**

**ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS**

**FOR**

**AMPLIFIERS, AUDIO FREQUENCY-RADIO FREQUENCY**

**AM-4825/U (NSN 6625-00-982-2977)**

**AND**

**AM -4825A/U (NSN 6625-00-982-2977)**

**HEADQUARTERS, DEPARTMENT OF THE ARMY**  
**MAY 1978**

TECHNICAL MANUAL }  
No 11-6625-1821-20P }

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, DC, 9 May 1978

**ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS  
FOR**

**AMPLIFIERS, AUDIO FREQUENCY-RADIO FREQUENCY**

**AM-4825/U (NSN 6625-00-982-2977)**

**AND**

**AM-4825A U (NSN 6625-00-982-2977)**

*Current as of 21 November 1977*

**REPORTING OF ERRORS**

*You can improve this manual by recommending improvements using DA Form 2028-2 (Test) located in the back of the manual. Simply tear out the self-addressed form, fill it out as shown on the sample, fold it where shown, and drop it in the mail.*

*If there is no blank DA Form 2028-2 (Test) in the back of your manual, use the standard DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forward to the Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-MA-Q, Fort Monmouth, NJ 07703.*

*In either case a reply will be furnished direct to you.*

Table of Contents

	Page	Illus. Fig.
SECTION I. Introduction	1	
II. Repair parts list	5	
GROUP 00	8	2
SECTION III.		
IV.	10	

## SECTION I

### INTRODUCTION

#### 1. Scope

This manual lists spares and repair parts, special tools, special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of organizational maintenance of the AM-4825/U and AM-4825A/U. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

#### 2. General

This Repair Parts and Special Tools List is divided into the following sections:

##### a. Section II.

and repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in numeric sequence, with the parts in each group listed in figure and item number sequence.

##### b. Section III.

cable

c. *Section IV: National Stock Number and Part Number Index.* A list, in National item identification number (NID) sequence, of all National stock numbers (NSN) appearing in the listings, followed by a list, in alphabetic sequence, of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

#### 3. Explanation of Columns

a. *Illustration.* This column is divided as follows:

(1) *Figure number.* Indicates the figure number of the illustration on which the item is shown.

(2) *Item number.* The number used to identify item called out in the illustration.

b. *Source, Maintenance, and Recoverability (SMR) Codes.*

(1) *Source code.* Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code	Definition
PA	Item procured and stocked for anticipated or known usage.

#### NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded NA and aircraft support items as restricted by AM 700-12.

(2) *Maintenance codes.* Maintenance codes are assigned to indicate the levels of maintenance authorized to ESD and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

Code	Application/Explanation
O	Support item is removed, replaced, used at the organizational level

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

Code	Application/Explanation
Z	Nonreparable. No repair is authorized

(3) *Recoverability code*. Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

Recoverability Code	Description
Z	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 6.

(c) *National Stock Number*. Indicates the National stock number assigned to the item and will be used for requisitioning purposes.

(d) *Part Number*. Indicates the primary number used by the manufacturer (individual company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of an engineering drawing, specification, standards, and inspection requirements to identify an item or range of items.

#### NOTE

When a stock-numbered item is required, list the required part number and state a different part number than the part being replaced.

a. For more Supply Codes for Maintenance:

(FSCM) The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. *Description*. Indicates the Federal item name and, if required, a minimum description to identify the item.

g. *Unit of Measure (U/M)*. Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

h. *Quantity Incorporated in Unit*. Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly.

## 4. Special Information

a. The following publications pertain to the AM 4825 U and AM 4825A U and their components:

TM 11-6625-1821-12, Amplifier, Audio Frequency, Radio Frequency AM 4825 U and AM 4825A U

b. The illustrations in this manual are identical to those published in TM 11-6625-1821-10P. Only those parts assigned the third position SMR maintenance code "X" or "Y" are listed in the tabular listing; therefore, there may be a break in the item number sequence. Only illustrations containing organizational authorized items appear in this manual.

## 5. How to Locate Repair Parts

a. When National stock number or part number is unknown:

(1) First, using the table of contents, determine the functional group within which the part belongs. This is necessary since illustrations are prepared

pared for functional groups and listings are divided into the same groups

(2) *Second* Find the illustration covering the functional group to which the item belongs

(3) *Third* Identify the item on the illustration and note the illustration figure and item number of the item

(4) *Fourth* Using the Repair Parts Listing, find the figure and item number noted on the illustration

b When National stock number or part number is known

(1) *First* Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in NIIN sequence followed by a list of part numbers in alphabetic sequence, cross-referenced to the illustration figure number and item number

(2) *Second* After finding the figure and item number, locate the figure and item number in the repair parts list

## 6. Abbreviations

Not applicable

(next printed page is 4)

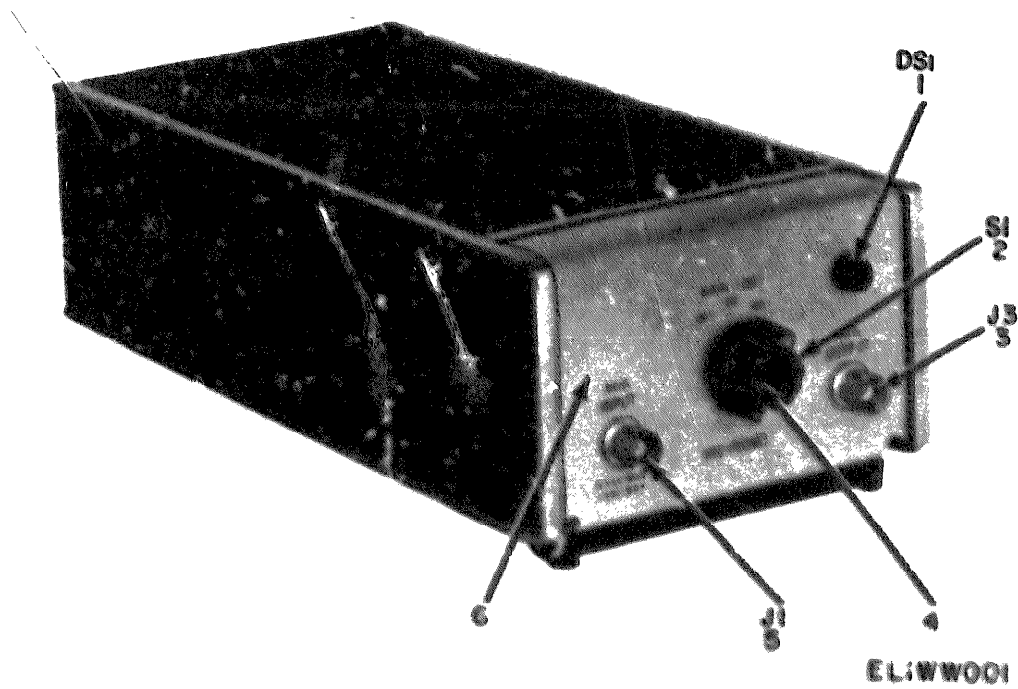


Figure 1. Amplifiers, Audio Frequency, Radio Frequency AM 4825/U and AM-4826A/U

TM11-6625-1821-20P

5

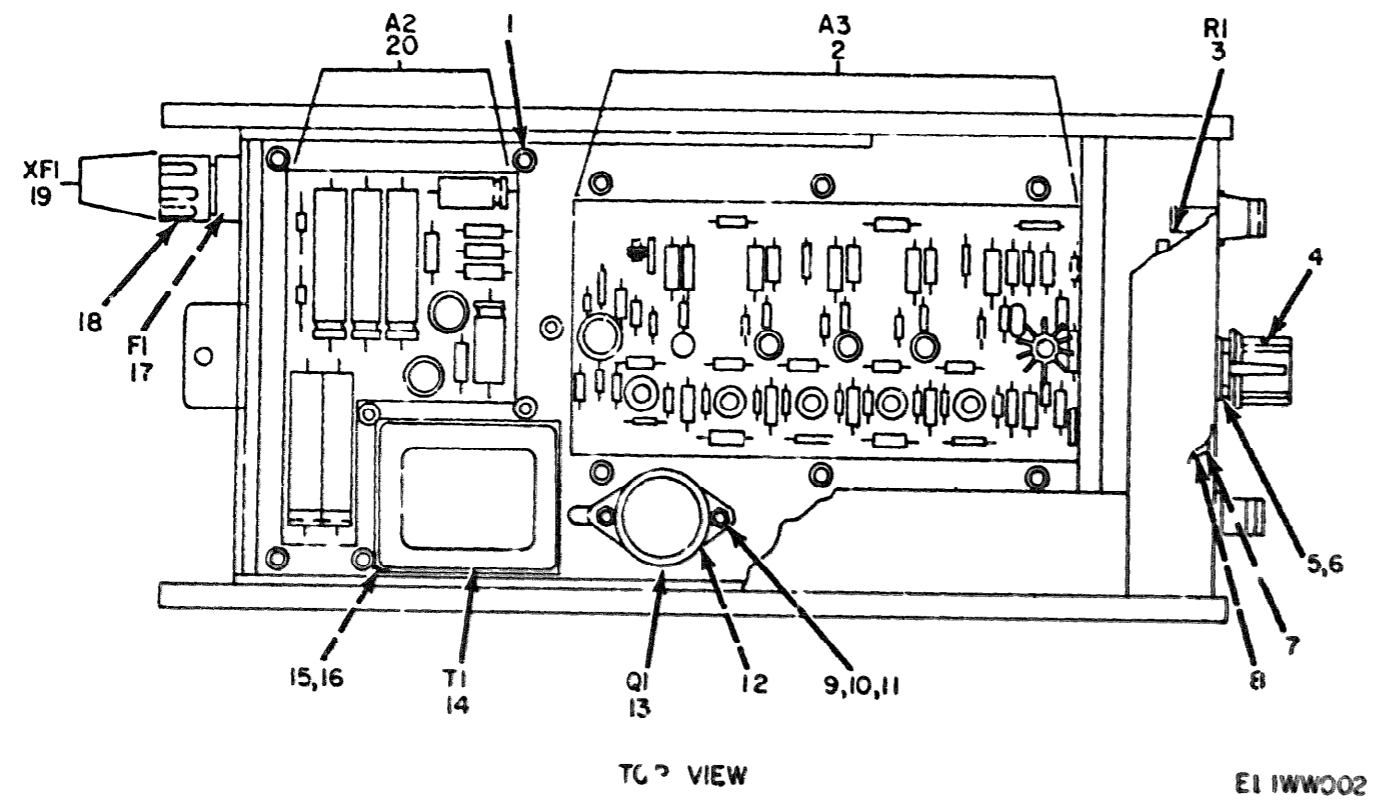
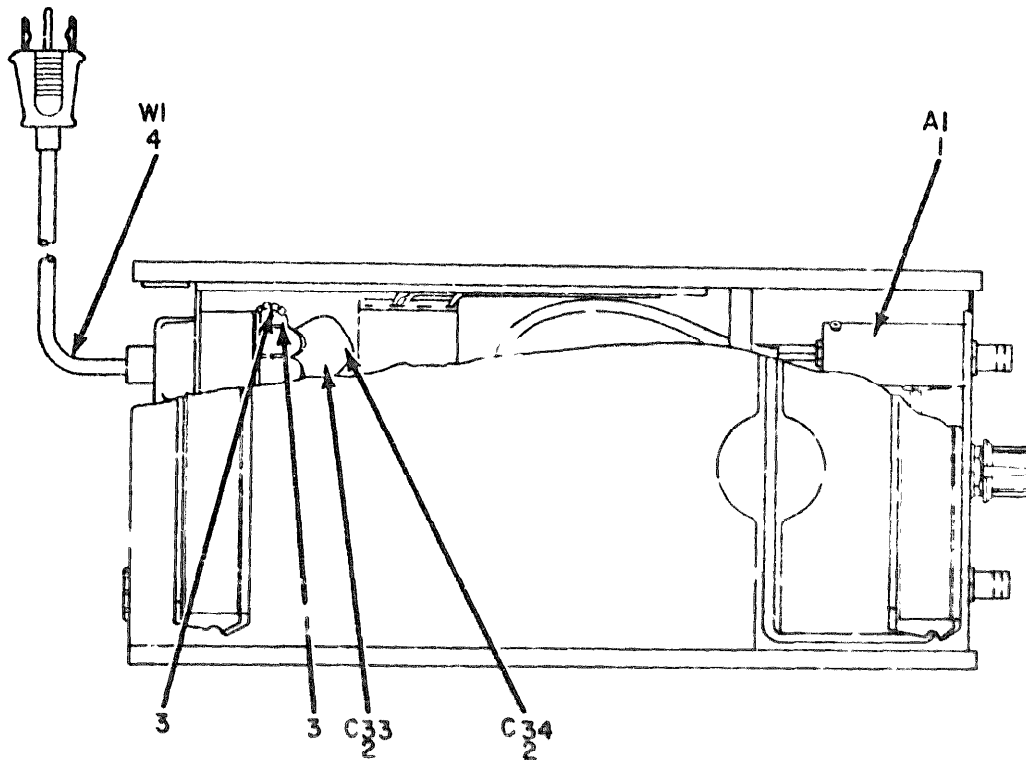


Figure 2. Amplifiers, Audio Frequency - Radio Frequency AM 4825/U and AM-4822A/U, Top View, Cover-Removed.

## SECTION II

TM11-6625-1821-20P

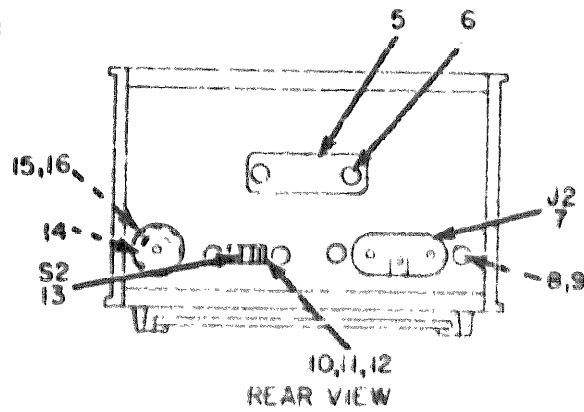
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
ILLUSTRATION		SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	U-M	QTY IN UNIT
(A) FIG NO	(B) ITEM NO							
2	17	PAJZZ	5920-00-280-4181	250	75915	FUSE, CARTRIDGE	EA	1
2	18	PAGZZ	5920-00-556-0144	06	81349	CAP, FUSEHOLDER	EA	1



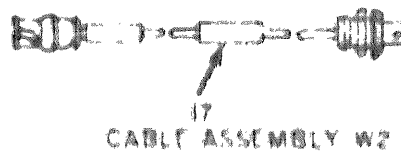
BOTTOM VIEW

ITEMS LISTED BUT  
NOT SHOWN.

REF DES.	ITEM NO.
MP29	18



REAR VIEW



CABLE ASSEMBLY W2

LL1WW005

SECTION II

TM11-6625-1821-20P

(1) ILLUSTRATION		(2)	(3)	(4)	5	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	U M UNIT	QTY INC IN UNIT
3	4 PA02Z	5995-00-995-9822	KH6167	70903		CABLE ASSY,PHR,ELEC	EA	1

SECTION IV

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

TM11-6625-1821-20P

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.		
5920-00-280-4801	2	17	5355-00-939-0497	1	4		
5920-00-556-0144	2	18	5995-00-995-9822	3	4		
PART NUMBER	FSCN	FIG. NO.	ITEM NO.	PART NUMBER	FSCN	FIG. NO.	ITEM NO.
FHN20G	81349	2	18	0370-0104	28480	1	4
KH4147	70903	3	4	312-250	75915	2	17

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL MANUALS



# SOMETHING WRONG WITH THIS MANUAL?

THEN JOT DOWN THE  
DOPE ABOUT IT ON THIS  
FORM, TEAR IT OUT, FOLD  
IT AND DROP IT IN THE  
MAIL!

FROM (YOUR UNIT'S COMPLETE ADDRESS)

Commander  
Stateside Army Depot  
ATTN: AMSTA-US  
Stateside, N.J. 07703

DATE 10 July 1975

PUBLICATION NUMBER

TM 11-5840-340-12

DATE

23 Jan 74

TITLE

Radar Set AN/SPC-76

BE EXACT PIN-POINT WHERE IT IS

IN THIS SPACE TELL WHAT IS WRONG  
AND WHAT SHOULD BE DONE ABOUT IT

PAGE  
NO

PARA  
GRAPH

FIGURE  
NO

TABLE  
NO

2-25

2-2<sup>a</sup>

Recommend that the installation antenna alignment procedure be changed through to specify a 2° IFT antenna lag rather than 1°.

REASON: Experience has shown that with only a 1° lag, the antenna servo system is too sensitive to wind gusting in excess of 10 knots, and has a tendency to rapidly accelerate and decelerate as it hunts, causing strain to the drive train. Hunting is minimized by adjusting the lag to 2° without degradation of operation.

3-10

3-3

3-1

Item 5, Function column. Change "2 db" to "3db."

REASON: The adjustment procedure for the TRANS POWER FAULT indicator calls for a 3 db (500 watts) adjustment to light the TRANS POWER FAULT indicator.

5-6

5-1

Add new step f.1 to read, "Replace cover plate removed in step e.1, above."

REASON: To replace the cover plate

503

Zone C 3. On J1-2, change "+24 VDC to "+5 VDC."

REASON: This is the output line of the 5 VDC power supply. +24 VDC is the input voltage.

TYPED NAME GRADE OR TITLE AND TELEPHONE NUMBER

CS: T. M. DeSpirito 411-1776

SIGN HERE

*T. M. DeSpirito*

DA FORM 2028-2 (TEST)

PS -- IF YOUR OUTLET WANTS TO KNOW ABOUT YOUR MANUAL, "FIND" MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS

PLSA 1686-75

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL MANUALS



# SOMETHING WRONG WITH THIS MANUAL?

THEN... JOT DOWN THE  
DOPE ABOUT IT ON THIS  
FORM, TEAR IT OUT, FOLD  
IT AND DROP IT IN THE  
MAIL!

FROM: (YOUR UNIT'S COMPLETE ADDRESS)

DATE

PUBLICATION NUMBER

TM 11-6625-1821-20P

DATE

9 May 78

TITLE

BE EXACT PIN-POINT WHERE IT IS

IN THIS SPACE TELL WHAT IS WRONG  
AND WHAT SHOULD BE DONE ABOUT IT

PAGE  
NO

PARA  
GRAPH

FIGURE  
NO

TABLE  
NO

TEAR ALONG DOTTED LINE

PRINTED NAME GRADE OR TITLE AND TELEPHONE NUMBER

SIGN HERE

DA FORM 2028-2 (TEST)

C.S. -- IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR MANUAL "FIND" MAKE  
A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL MANUALS



# SOMETHING WRONG WITH THIS MANUAL?

THEN JOT DOWN THE  
DOPE ABOUT IT ON THIS  
FORM, TEAR IT OUT, FOLD  
IT AND DROP IT IN THE  
MAIL!

FROM (YOUR UNIT'S COMPLETE ADDRESS)

DATE

PUBLICATION NUMBER

DATE

TITLE

TV 11-6625-1821-20F

9 May 78

BE EXACT PIN-POINT WHERE IT IS

IN THIS SPACE TELL WHAT IS WRONG  
AND WHAT SHOULD BE DONE ABOUT IT

PAGE  
NO

PARA  
GRAPH

FIGURE  
NO

TABLE  
NO

TEAR ALONG DOTTED LINE

TYPED NAME GRADE OR TITLE AND TELEPHONE NUMBER

SIGN HERE

DA FORM 2028-2 (TEST)

P.S. -- IF YOUR CUTE IT WANTS TO KNOW ABOUT YOUR MANUAL "FIND IT" MAKE  
A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS

## SOMETHING WRONG WITH THIS MANUAL?



THEN JOT DOWN THE  
DOPE ABOUT IT ON THIS  
FORM, TEAR IT OUT, FOLD  
IT AND DROP IT IN THE  
MAIL'

DATE

TITLE	
-------	--

9 May 72

**IN THIS SPACE TELL WHAT IS WRONG  
AND WHAT SHOULD BE DONE ABOUT IT**

TABLE  
NO

**TEAR ALONG DOTTED LINE**

**SIGN HERE**

DA FORM 2028-2 (TEST)

PS - IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR MANUAL "FIND" MAKE  
A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

---

DEPARTMENT OF THE ARMY  
US ARMY AG PUBLICATIONS CENTER  
1655 WOODSON ROAD  
ST LOUIS MISSOURI 63114  
-----  
OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE \$300

POSTAGE AND FEES PAID  
DEPARTMENT OF THE ARMY  
DOD 314  
FOURTH CLASS



FILL IN YOUR  
UNIT'S ADDRESS

FOLD BACK

DEPARTMENT OF THE ARMY

OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE \$300

POSTAGE AND FEES PAID  
DEPARTMENT OF THE ARMY  
OOD-314



Commander  
US Army Communications and Electronics  
Materiel Readiness Command  
ATTN: DRSML-MA-Q  
Fort Monmouth, NJ 07703

TEAR ALONG DOTTED LINE

FOLD BACK

FILL IN YOUR  
UNIT'S ADDRESS

FOLD BACK

DEPARTMENT OF THE ARMY

OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE \$300

POSTAGE AND FEES PAID  
DEPARTMENT OF THE ARMY  
DDO-314



Commander

US Army Communications and Electronics  
Material Readiness Command

ATTN: DRSFL-MA-2  
Fort Monmouth, NJ 07703

FOLD BACK

FILL IN YOUR  
UNIT'S ADDRESS

FOLD BACK

DEPARTMENT OF THE ARMY

OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE \$300

POSTAGE AND FEES PAID  
DEPARTMENT OF THE ARMY  
DOD-314



Commander  
US Army Communications and Electronics  
Materiel Readiness Command  
ATTN: D3SFL-MA-Q  
Fort Monmouth, NJ 07703

FOLD BACK

TEAR ALONG DOTTED LINE

By Order of the Secretary of the Army:

Official:

**J. C. PENNINGTON**  
*Brigadier General, United States Army*  
*The Adjutant General*

**BERNARD W. ROGERS**  
*General, United States Army*  
*Chief of Staff*

**DISTRIBUTION**

*Active Army*

USAINSCOM (1)  
TSG (1)  
USAAREMBD (1)  
DARCOM (1)  
TRADOC (1)  
OS Maj Comd (2)  
USAFABD (1)  
TECOM (2)  
USACC (2)  
USACC-EUR (2)  
USACC-A (2)  
MDW (1)  
WRAMC (1)  
Armies (1)  
AIS (1)  
Ft Monmouth (HISA, (33)  
Fort Gillem (2)  
Fort Huachuca (5)  
Fort Carson (2)  
Svc Colleges (1)  
USASIGS (10)

USAADS (2)  
USAICS (3)  
USAFAS (2)  
USAARMS (2)  
USAIS (2)  
USAES (2)  
USAOCS (2)  
USAMCC (2)  
WSMR (1)  
Army Dep (1) except  
LBAD (14)  
SAAD (30)  
TOAD (14)  
ANAD (2)  
SHAD (3)  
USA Dep (1)  
Sig Set USA Dep (1)  
Units org under fol TOE  
(1 cy each unit)  
11-302  
29-134  
29-27

NC None

USAR None

For explanation of abbreviations used, see AR 310-50

**END**

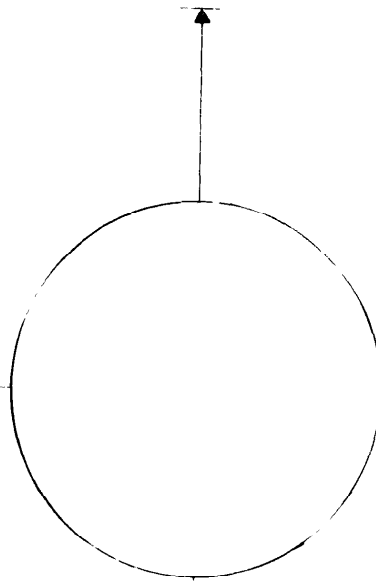
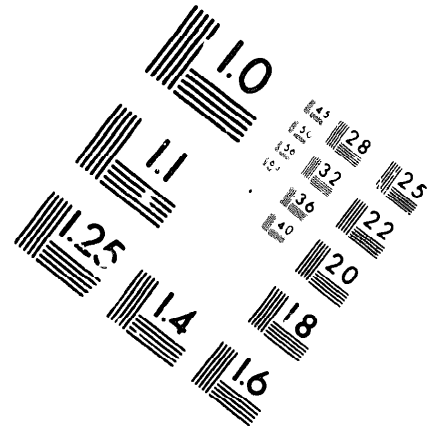
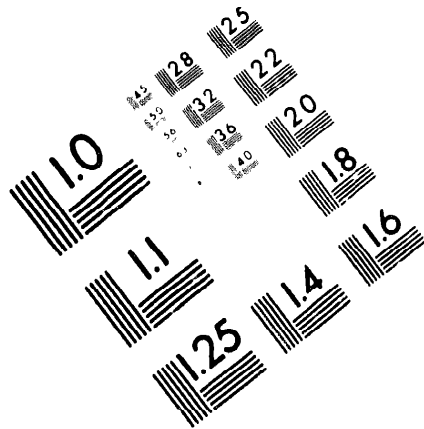
03-17-83

**DATE**



# DEPARTMENT OF THE ARMY

## MICROFORM TEST TARGET



150 MM

Line e 8 mm  
ABCDEFGHIJKLMN OPQRSTUVWXYZ 1234567890  
abcdefghijklmnopqrstuvwxyz %&' 1/2 1/4 3/4 — = + x & @ \*

1.5 mm (e = 1.09 mm)

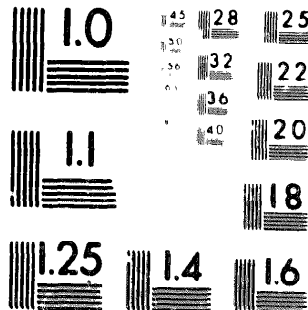
ABCDEFGHIJKLMN OPQRSTUVWXYZ 1234567890  
abcdefghijklmnopqrstuvwxyz %&' 1/2 1/4 3/4 — = + x & @ \*

2.0 mm (e = 1.37 mm)

ABCDEFGHIJKLMN OPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz  
1234567890 %&' 1/2 1/4 3/4 — = + x & @ \*

2.5 mm (e = 1.77 mm)

ABCDEFGHIJKLMN OPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz  
1234567890 %&' 1/2 1/4 3/4 — = + x & @ \*



Line e 8 mm  
ABCDEFGHIJKLMN OPQRSTUVWXYZ 1234567890  
abcdefghijklmnopqrstuvwxyz %&' 1/2 1/4 3/4 — = + x & @ \*

1.5 mm (e = 1.09 mm)

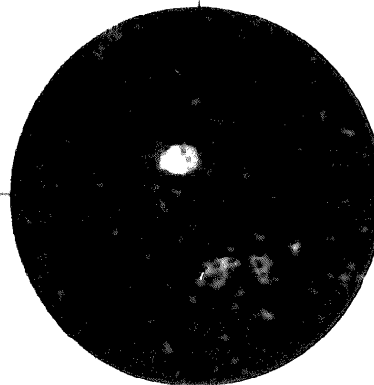
ABCDEFGHIJKLMN OPQRSTUVWXYZ 1234567890  
abcdefghijklmnopqrstuvwxyz %&' 1/2 1/4 3/4 — = + x & @ \*

2.0 mm (e = 1.37 mm)

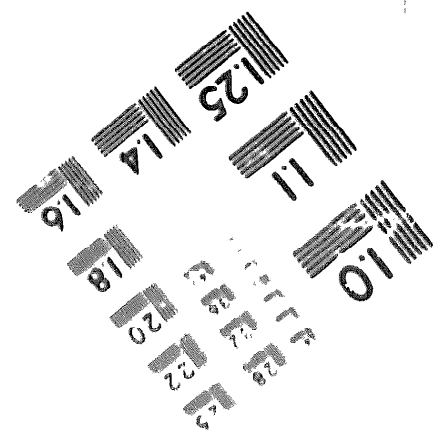
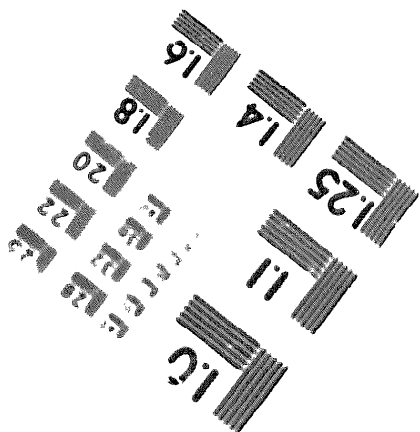
ABCDEFGHIJKLMN OPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz  
1234567890 %&' 1/2 1/4 3/4 — = + x & @ \*

2.5 mm (e = 1.77 mm)

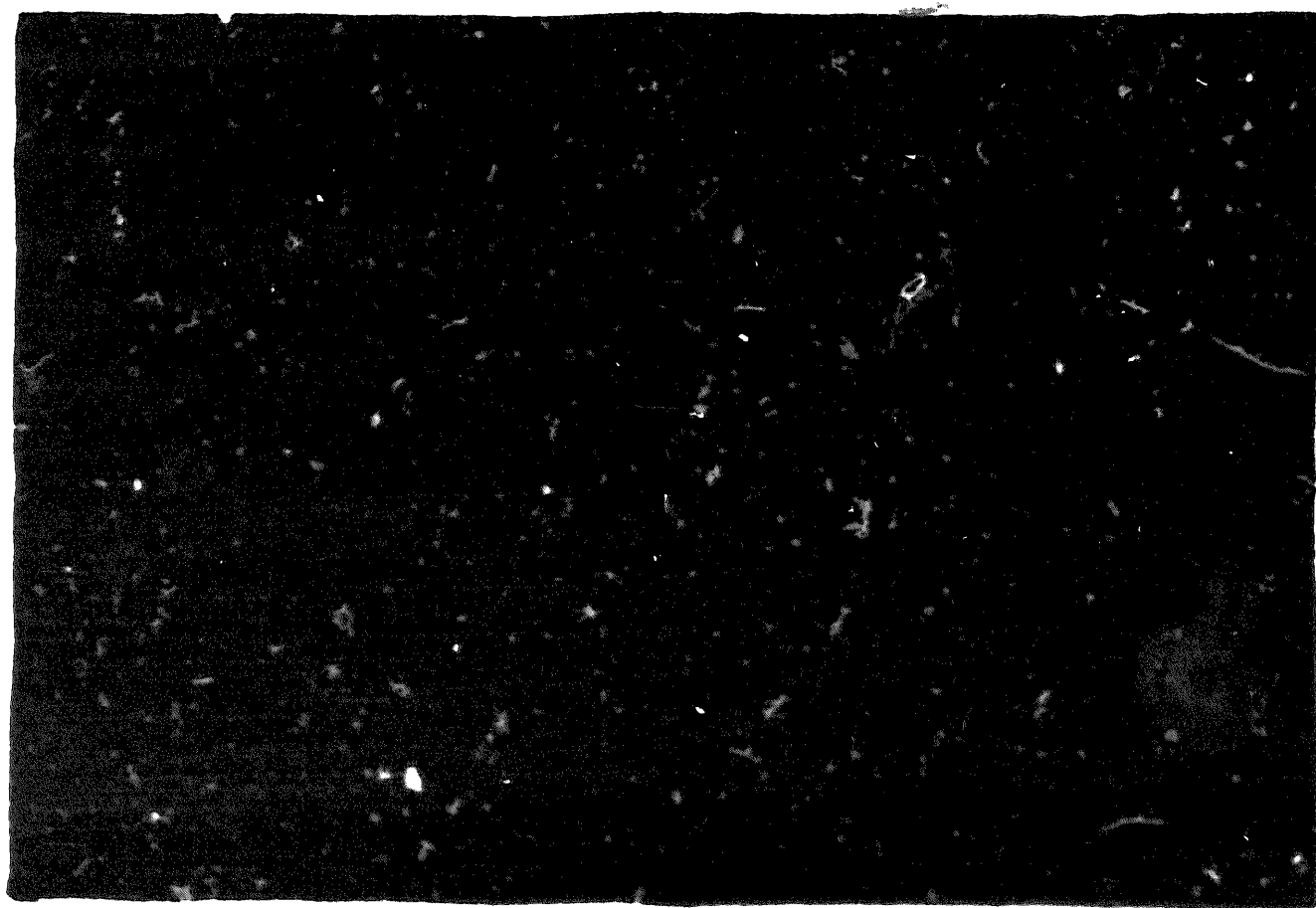
ABCDEFGHIJKLMN OPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz  
1234567890 %&' 1/2 1/4 3/4 — = + x & @ \*



200 MM



250 MM



This fine document...

Was brought to you by me:



### [Liberated Manuals -- free army and government manuals](#)

Why do I do it? I am tired of sleazy CD-ROM sellers, who take publicly available information, slap “watermarks” and other junk on it, and sell it. Those masters of search engine manipulation make sure that their sites that sell free information, come up first in search engines. They did not create it... They did not even scan it... Why should they get your money? Why are not letting you give those free manuals to your friends?

I am setting this document FREE. This document was made by the US Government and is NOT protected by Copyright. Feel free to share, republish, sell and so on.

I am not asking you for donations, fees or handouts. If you can, please provide a link to [liberatedmanuals.com](http://liberatedmanuals.com), so that free manuals come up first in search engines:

<A HREF=<http://www.liberatedmanuals.com/>>Free Military and Government Manuals</A>

- Sincerely  
Igor Chudov  
<http://igor.chudov.com/>
- [Chicago Machinery Movers](#)