DEPARTMENT OF THE ARMY TECHNICAL MANUAL

ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS (INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS) FOR

SIMULATOR, GYRO AND COMPASS SIGNAL SM-486/ASN (NSN 4920-00-851-8753)

Headquarters, Department of the Army, Washington, DC
28 July 1976

Current as of 1 April 1976

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 are 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 Electronics Command, ATTN: DRSEL-MA-Q, Fort Monmouth, New Jersey 07703.

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

Table of Contents

*This manual supersedes TM 11-6615-251-25P, 9 January 1969.

SECTION I

I N T R O D U C T I O N

1. Scope

This manual lists repair parts and special tools req for performance of general sup.rt maintenance o SM-486/ASN.

2. General

This Repair Parts and Special Tools List is divided into the following secti.ns:

a. Section II. Repair Parts List. A list of repair parts authorized for use in the performanc.e of maintenar.ce. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending numerical sequence, with the parts in each group listed in figure and item number sequence.

b. Section III. Special Tools List. Not applicable.

c. Section IV. National Stock Number and Part Number Index. A li . in ascending National item identific.tion number (NIIN, last 9 digits) sequence, of all National stock numbers appearing in the listings, followed by a list, in alphameric sequence, of all part numbers appearing in the listings. National stock number and part numbers are cross-referenced to each illustration figure and item number appearance.

3. Explanation of Columns

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

a. Illustration. This column is divided as follows:

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

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

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

(1) *Source code.* Source codes are assigned to support items to 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.
XD	—	A support item that is not stocked. When required, item will be procured through normal supply channels.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded XA, XD, and aircraft support items as restricted by AR 700-42.

(2) *Maintenance code.* Maintenance codes are assigned to indicate the levels of maintenance authorized to USE 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*
H	—	Support item is removed, replaced, used at the general support 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*
H	—	The lowest maintenance level capable of complete repair of the support item is the general support level.
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 Codes		*Definition*
Z	—	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
H	—	Reparable item. When uneconomically reparable, condemn and dispose at the general support level.

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 its engineering drawings, specifications standards, and inspection requirements, to identify an item or range of items.

NOTE

When a stock numbered item is requisitioned, the repair part received may have a different part number than the part being replaced.

e. Federal Supply Code for Manufacturer (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

The following publications pertain to the SM-486/ASN and its components:

TM 11-6615-251-12, Simulator, Gyro and Compass Signal SM-486/ASN

TM 11-6615-251-45, Simulator, Gyro and Compass Signal SM-486/ASN

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 repair part belongs. This is necessary since illustrations are prepared for functional groups and listings are divided into the same groups.

(2) *Second.* Find the illustration covering the functional group to which the repair part belongs.

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

(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 ascending NIIN sequence followed by a list of part numbers in ascending alphameric 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)

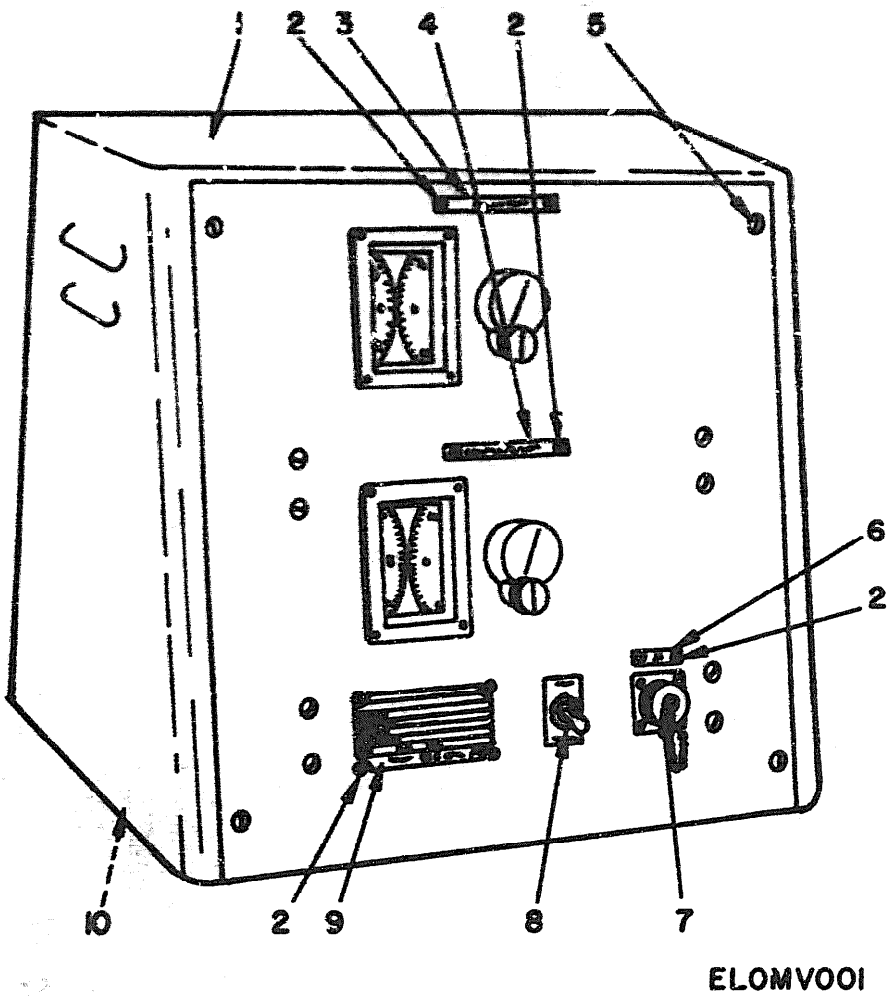


Figure 1. Simulator, Gyro and Compass Signal SM-486/ASN.

(1) ILLUSTRATION FIG. NO.	(1) ILLUSTRATION ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP [illegible] SIMULATOR, GYRO AND COMPASS		
						SIGNAL SM-436/ASN		
1	1	[illegible]		AS726136	97424	CABINET ASSEMBLY	EA	
1	2	XBMZZ		MS7869804	24446	SCREW, BIND HEAD	EA	1
1	3	XBMZZ		7078X70	97424	PLATE,IDENTIFICATION	EA	
1	4	XBMZZ		AS7961	97424	PLATE,IDENTIFICATION	EA	
1	5	XBMZZ		MS4913006	24446	SCREW,ROUND HEAD	EA	
1	6	XBMZZ		AS7967	97424	PLATE,IDENTIFICATION	EA	
1	7	XBMZZ	5935-00-486-9523	10-101960-143	77820	CAP, RECEPTACLE	EA	
1	8	XBMZZ		AS79510	97424	PLATE,IDENTIFICATION	EA	
1	9	XBMZZ		AS7992	97424	PLATE,IDENTIFICATION	EA	
1	10	XBMZZ		2104	03330	RUBBER FOOT	EA	

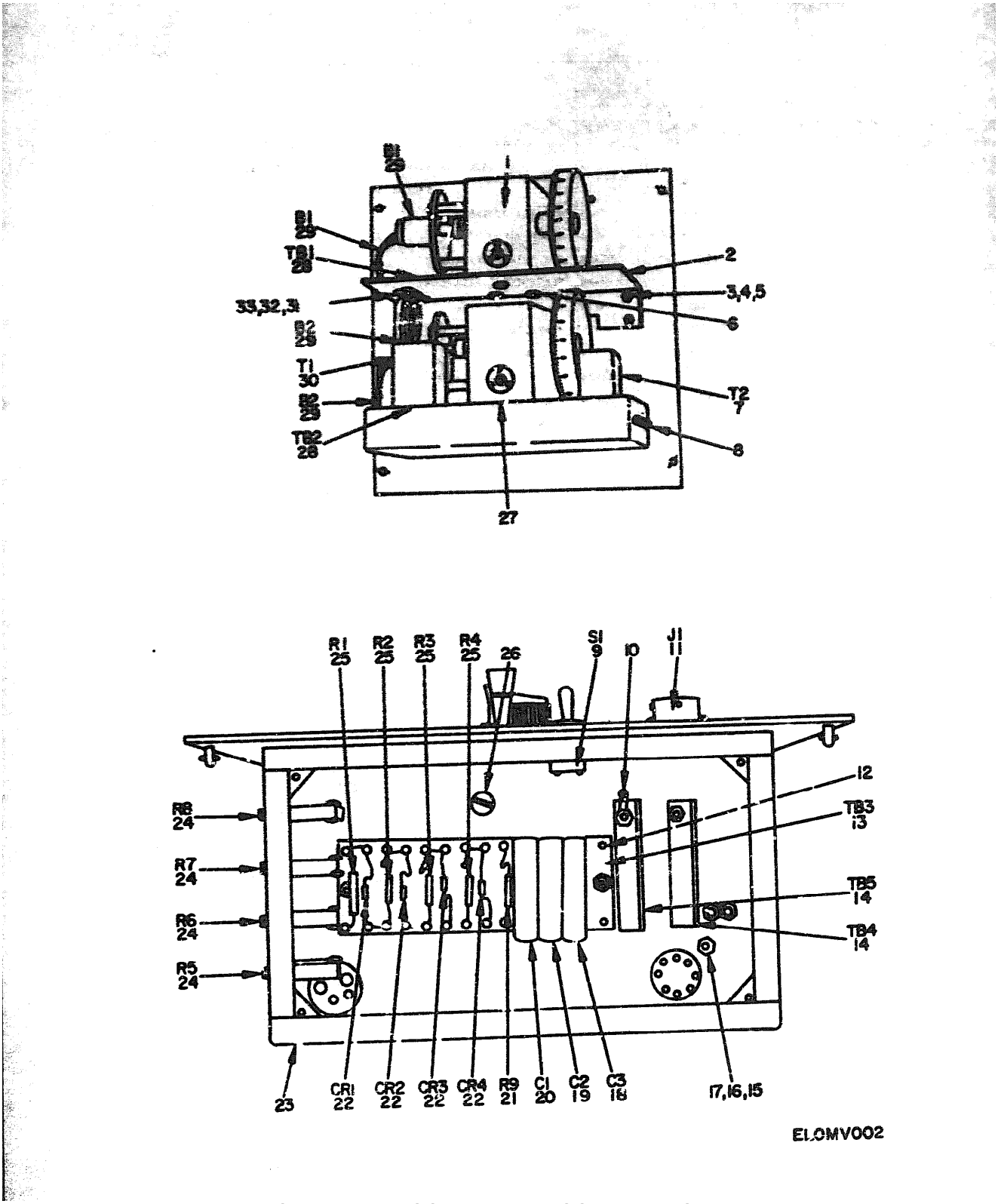


Figure 2. Cabinet assembly, rear view.

(1) ILLUSTRATION (a) FIG. NO.	(b) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 01 CABINET ASSEMBLY		
2	1	XDOZZ		PIN1-180-1	03860	WORM DRIVE	EA	2
2	2	XDOZZ		A2138GK3P3	97424	BRACKET	EA	1
2	3	XDOZZ		N77P13008	24446	SCREW, BIND HEAD	EA	4
2	4	XDOZZ		N406P7	24446	WASHER, LOCK	EA	12
2	5	XDOZZ		N209P13	24446	NUT, HEXAGON	EA	12
2	6	XDOZZ		N77P13006	24446	SCREW, BIND HEAD	EA	4
2	7	PAOZZ	5950-00-663-7154	H130	80223	TRANSFORMER	EA	1
2	8	XDOZZ		N77P9006	24446	SCREW, BIND HEAD	EA	4
2	9	PAOZZ	5930-00-665-1562	FF184	66127	SWITCH, TOGGLE	EA	1
2	10	XDOZZ	5940-00-513-3264	1410-6	83330	TERMINAL, LUG	EA	1
2	11	PAOZZ	5935-00-712-3256	MS3112E14-15P	96906	CONNECTOR, RECEPTACLE, ELECTRICAL	EA	1
2	12	XDOZZ	5365-00-080-8091	2130	83330	SPACER	EA	2
2	13	PAOZZ	5940-00-915-1461	A2144	97424	TERMINAL BOARD	EA	1
2	14	PAOZZ	5940-00-081-5640	A2145	9742'	TERMINAL BOARD	EA	2
2	15	XDOZZ		N77P9003	24446	SCREW, BIND HEAD	EA	8
2	16	XDOZZ		N406P5	24446	WASHER, LOCK	EA	24
2	17	XDOZZ		N209P9	24446	NUT, HEXAGON	EA	14
2	18	XDOZZ		CP09A1KE105K	81349	CAPACITOR, FIXED, PAPER	EA	1
2	19	PAOZZ	5910-00-092-7693	CP05A1KF332K3	81349	CAPACITOR, FIXED, PAPER-SELECT AT TEST	EA	1
2	19	PAOZZ	5910-00-667-5016	CP09A1KF152K3	81349	CAPACITOR, FIXED, PAPER-SELECT AT TEST	EA	1
2	20	PAOZZ	5910-00-812-3128	CP09A1KF102K3	81349	CAPACITOR, FIXED, PAPER-SELECT AT TEST	EA	1
2	20	PAOZZ	5910-00-617-4039	CP09A1KF472K3	81349	CAPACITOR, FIXED, PAPER-SELECT AT TEST	EA	1
2	21	XDOZZ		RS1B1-2K3PCT	91637	RESISTOR	EA	1
2	22	PAOZZ	5961-00-087-6047	1N645	03508	SEMICONDUCTOR DEVICE, DIODE	EA	4
2	23	XDOZZ		A2138SK1P2	97424	CHASSIS	EA	1
2	24	XDOZZ		20011-103M	80294	RESISTOR, VARIABLE	EA	4
2	25	PAOZZ	5905-00-057-8441	RS1B12-1K3PCT	91637	RESISTOR	EA	4
2	26	XDOZZ		N54P9004	24446	SCREW, ROUND HEAD	EA	4
2	27	XDOZZ		2147	83330	GROMMET	EA	1
2	28	PAOZZ	5940-00-983-6066	353-18-05-001	71785	TERMINAL BOARD	EA	2
2	29	PAOZZ	5990-00-519-6278	CGH11B2	86197	SYNCHRO LEADS	EA	2
2	30	PAOZZ	5950-00-723-4217	EB443	81095	TRANSFORMER	EA	1
2	31	XDOZZ		N54P9008	24446	SCREW, ROUND HEAD	EA	6
2	32	XDOZZ		N54P16005	24446	SCREW, ROUND HEAD	EA	6
2	33	XDOZZ		N406P9	24446	WASHER, LOCK	EA	6

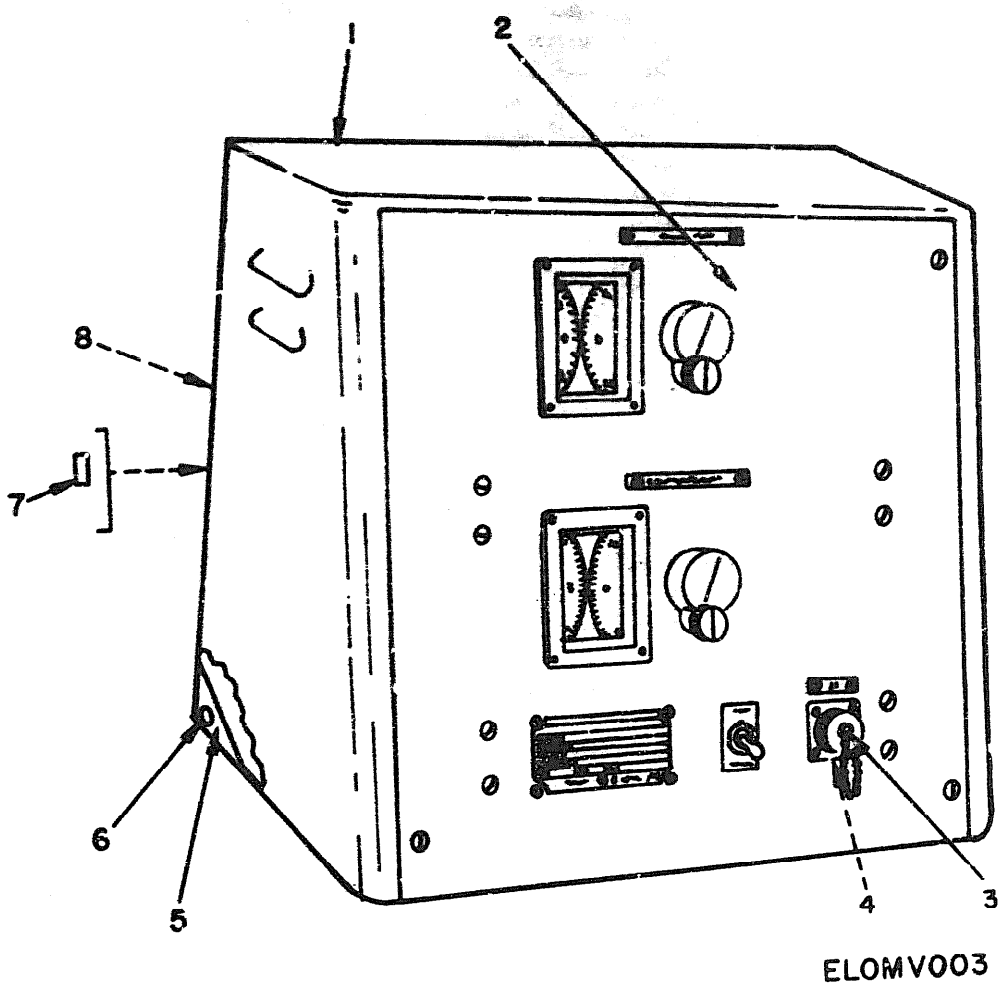


Figure 3. Cabinet assembly, front view.

(1) ILLUSTRATION FIG. NO.	(1) ILLUSTRATION ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
3	1	XDHZZ		AS7292	97424	CABINET	EA	1
3	2	XDHZZ		A2138H39P1	97424	PANEL,FRONT	EA	1
3	3	PAHZZ	5325-00-298-3978	99867C098	76530	RECEPTACLE	EA	9
3	4	PAHZZ	5315-00-161-6335	99703-2	76530	PIN,CROSS	EA	9
3	5	XDHZZ		AS729P10	97424	BRACE	EA	1
3	6	XDHZZ		98293-2-140	76530	STUD	EA	5
3	7	XDHZZ		98293-2-220	76530	STUD	EA	4
3	8	XDHZZ		AS729P4	97424	PANEL,BACK	EA	1

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5985-00-027-0441	2	25	5910-00-667-5016	2	19
5365-00-080-8091	2	12	[illegible]-00-683-7184	2	7
5940-00-081-5649	2	14	[illegible]-00-686-9523	1	7
5961-00-087-4047	2	22	[illegible]-00-712-5256	2	11
5915-00-141-4355	3	4	5930-00-723-4217	2	30
5325-00-290-3974	3	3	5910-00-842-3120	2	20
5940-00-513-3264	2	16	5910-00-892-1693	2	19
5930-00-519-6278	2	29	5940-00-955-3461	2	13
5910-00-617-4039	2	20	5940-00-983-6066	2	28
5930-00-695-1582	2	9			

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
A2130SHBP1	97424	3	2	[illegible]	24446	2	33
A2130SHBP2	97424	2	23	N54P13008	24446	1	5
A2130SHBP3	97424	2	2	N54P16005	24446	2	32
A2144	97424	2	13	N54P9004	24446	2	26
A2145	97424	2	10	N54P9008	24446	2	31
A572G136	97424	1	1	N77C9004	24446	1	2
A572P10	97424	3	5	N77P13006	24446	2	6
A572P2	97424	3	1	N77P13008	24446	2	3
A572P4	97424	3	8	N77P5008	24446	2	15
A579G1	97424	1	4	N77P9036	24446	2	8
A579G10	97424	1	8	PDM1-100-1	03860	2	1
A579G7	97424	1	6	RS1B1-2K3PCT	91637	2	21
A579P2	97424	1	9	RS1B12-1K2PCT	91637	2	25
CGH1162	86197	2	29	1N645	03508	2	22
CP0A1KF152K3	81349	2	19	10-101960-143	77820	1	7
CP09A1KE105K	81349	2	18	1410-6	83330	2	10
CP09A1KF102K3	81349	2	20	200L1-103M	80294	2	24
CP09A1KF332K3	81349	2	19	2130	83330	2	12
CP09A1KF472K3	81349	2	20	2147	83330	2	27
FF184	66127	2	9	2104	83330	1	10
HS443	81695	2	30	353-10-05-001	71785	2	28
H130	80223	2	7	7070K70	97424	1	3
MS3112E14-15P	96906	2	11	93293-2-160	76530	3	6
N209P13	24446	2	5	98293-2-220	76530	3	7
N209P9	24446	2	17	99709-2	76530	3	4
N406P5	24446	2	16	99967C098	76530	3	3
N406P7	24446	2	4				

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	DATE	TITLE
TM 11-5840-340-12	23 Jan 74	Radar Set AN/MPQ-76

BE EXACT. . .PIN-POINT WHERE IT IS				IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
PAGE NO.	PARAGRAPH NO.	FIGURE NO.	TABLE NO.	
2-25	2-28			Recommend that the installation antenna alignment procedure be changed throughout to specify a 2° IFF 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 5 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	5-8			Add new step f.1 to read, "Replace cover plate removed in step e.1, above." REASON: To replace the cover plate.
		F03		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.

D NAME, GRADE OR TITLE, AND TELEPHONE NUMBER	SIGN HERE:
G I. M. DeSpiritof 999-1776	SSG. I.M. DeSpiritof

FORM 1 AUG 74 2028-2 (TEST) P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR MANUAL "FIND," MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

HISA 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	DATE	TITLE

BE EXACT. . .PIN-POINT WHERE IT IS

PAGE NO.	PARAGRAPH	FIGURE NO.	TABLE NO.

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

TYPED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER	SIGN HERE:

DA FORM 1 AUG 74 2028-2 (TEST)

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

FILL IF 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 Electronics Command
ATTN: DRSEL-MA-Q
Fort Monmouth, New Jersey 07703

FOLD BACK

TEAR ALONG DOTTED LINE

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

BE EXACT. . .PIN-POINT WHERE IT IS

PAGE NO.	PARAGRAPH	FIGURE NO.	TABLE NO.

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

TYPED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER	SIGN HERE:

DA FORM 1 AUG 74 2028-2 *(TEST)*

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

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 Electronics Command
ATTN: DRSEL-MA-Q
Fort Monmouth, New Jersey 07703

FOLD BACK

REVERSE OF DA FORM 2028-2 (TEST)

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

BE EXACT. . .PIN-POINT WHERE IT IS

PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.

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

TYPED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

SIGN HERE:

DA FORM 1 AUG 74 2028-2 (TEST)

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

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 Electronics Command
ATTN: DRSEL-MA-Q
Fort Monmouth, New Jersey 07703

FOLD BACK

REVERSE OF DA FORM 2028-2 (TEST)

By Order of the Secretary of the Army:

FRED C. WEYAND
General, United States Army
Chief of Staff

Official:

PAUL T. SMITH
Major General, United States Army
The Adjutant General

DISTRIBUTION:

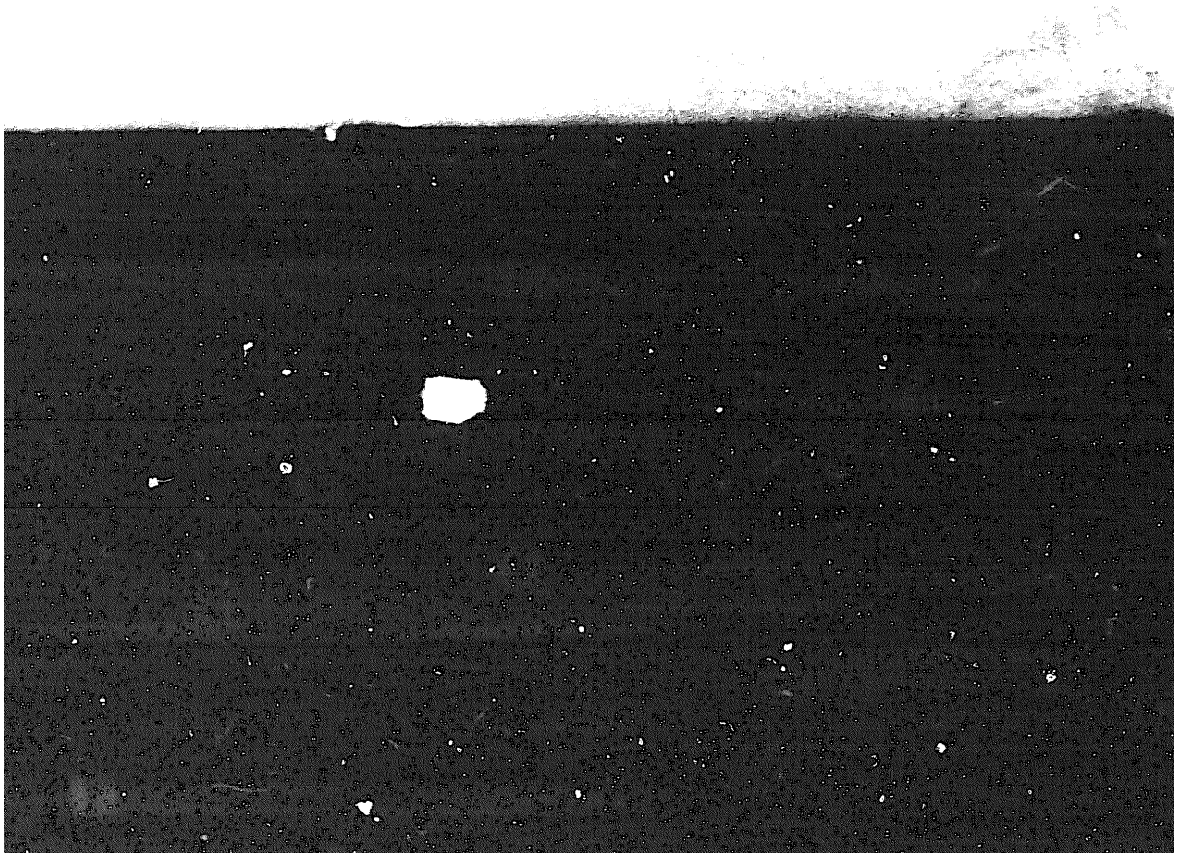
To be distributed in accordance with DA Form 12-36A., organizational maintenance requirements for SM-486/ASN.

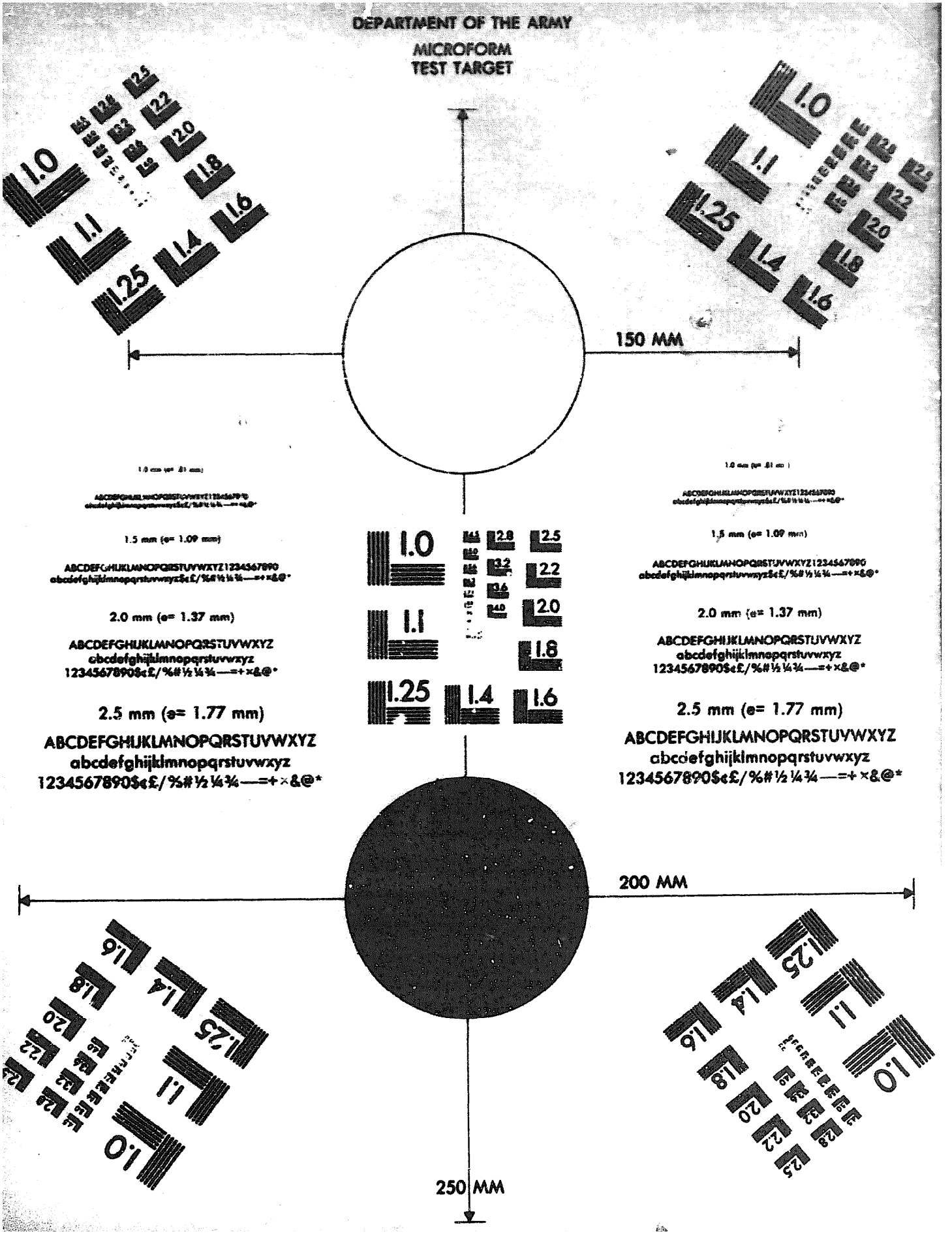
* U.S. GOVERNMENT PRINTING OFFICE: 1976-[illegible]-720
6125-647

END

7-25-83

DATE




DEPARTMENT OF THE ARMY
MICROFORM
TEST TARGET
150 MM
200 MM
250 MM
1.5 mm (e= 1.09 mm)
ABCDEFGHIJKLMNOPQRSTUVWXYZ1234567890
abcdefghijklmnopqrstuvwxyz$¢£/%#½¼¾—=+×&@*
2.0 mm (e= 1.37 mm)
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
12345678905¢£/%#½¼¾—=+×&@*
2.5 mm (e= 1.77 mm)
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
12345678905¢£/%#½¼¾—=+×&@*