

**DEPARTMENT OF THE ARMY TECHNICAL MANUAL**

---

**ORGANIZATIONAL MAINTENANCE REPAIR PARTS  
AND SPECIAL TOOLS LISTS  
OSCILLOSCOPES OS-46/U AND OS-46A/U  
(NSN 6625-00-710-9624)**

---

Headquarters, Department of the Army, Washington, D.C.  
14 March 1975

---

*Current as of December 1974*

	Paragraph	P a g e
SECTION I. INTRODUCTION		
Scope .....	1-1	2
General .....	1-2	2
Explanation of columns .....	1-3	2
Special information .....	1-4	4
Location of repair parts .....	1 - 5	4
Abbreviations (Not applicable) .....	1-6	4
Reporting of equipment publication improvements .....	1-7	4
II. PRESCRIBED LOAD ALLOWANCE (Not applicable)		
III. REPAIR PARTS LIST .....		6
IV. SPECIAL TOOLS TEST AND SUPPORT EQUIPMENT (Not applicable)		
V. INDEX - NATIONAL STOCK NUMBER AND REFERENCE NUMBER CROSS- REFERENCES TO FIGURE AND ITEM NUMBER .....		99

---

\*This manual supersedes TM 11-6625-285-20P, 13 August 1962.

# SECTION I

## INTRODUCTION

### 1-1. Scope

This manual lists repair parts and special tools required for the performance of organizational maintenance of the OS-46 U and OS-46A U. The PCCN for the equipment is GTEAFW for all models.

### 1-2. General

This repair parts and special tools list is divided into the following sections:

*a. Prescribed Load Allowance (PLA) - Section II.* Not applicable.

*b. Repair Parts List - Section III.* A list of repair parts authorized for the performance of maintenance at the organizational level. This repair parts list is arranged in alphabetical order.

*c. Special Tools, Test and Support Equipment - Section IV.* Not applicable.

*d. Index - National Stock Number and Reference Number Cross-Reference to Figure and Item Number - Section V.* A list, in ascending numerical sequence, of all National stock numbers appearing in the listings, followed by a list, in alphanumeric sequence, of all reference numbers appearing in the listings. National stock number and reference numbers are cross-referenced to each illustration figure and item number or reference designation appearance.

### 1-3. Explanation of Columns

The following provides an explanation of columns in the tabular lists —

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

(1) *Source code.* Indicates the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are —

<i>Code</i>	<i>Explanation</i>
PA —	Item procured and stocked for anticipated or known usage.
PE —	Item procured and stocked for insurance purposes because essentiality dictates that a minimum quantity be available in the supply systems.
PF —	Item procured and stocked and which otherwise would be coded PA except that it is deteriorative in nature.
PD —	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional

<i>Code</i>	<i>Explanation</i>
	initial issues or outfittings. Not subject to automatic replenishment.
PE —	Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.
PF —	Support equipment which will not be stocked but which will be centrally procured on demand.
PG —	Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which because of probable discontinuance or shutdown of production facilities would prove uneconomical to reproduce at a later time.
KD —	An item of depot overhaul repair kit and not purchased separately. Depot kit defined as a kit that provides items required at the time of overhaul or repair.
KF —	An item of a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be replaced at organizational or direct support or general support levels of maintenance.
KB —	Item included in both a depot overhaul repair kit and a maintenance kit.
MO —	Item to be manufactured or fabricated at organizational level.
MF —	Item to be manufactured or fabricated at direct support maintenance level.
MH —	Item to be manufactured or fabricated at general support maintenance level.
MD —	Item to be manufactured or fabricated at depot maintenance level.
AO —	Item to be assembled at organizational level.
AF —	Item to be assembled at direct support maintenance level.
AH —	Item to be assembled at general support maintenance level.
AD —	Item to be assembled at depot maintenance level.
NA —	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
NR —	Item is not procured or stocked. If not available through salvage, requisition.
NI —	Installation drawing, diagram instruction

*Code* *Explanation*  
 sheet, field service drawing, that is identified by manufacturers' part number.  
 X D - Support items can be requisitioned with justification.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded XA 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) Use (third position). The maintenance code entered in the third position indicates the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position indicates one of the following levels of maintenance.

*Code* *Application/Explanation*  
 o - Support item is removed, replaced, used at the organizational level of maintenance.

NOTE

A code "C" may be used in this position to denote crew or operator maintenance performed within organizational maintenance.

F - Support item is removed, replaced, used at the direct support maintenance level.  
 H - Support item is removed, replaced, used at the general support maintenance.  
 D - Support items that are removed, replaced, used at depot only.

(b) *Repair (fourth position)*. 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). When a maintenance code is not used as a dash (-) sign is entered. For multi-service equipment/systems or when a code is entered, this position will contain one of the following maintenance codes as assigned by the service(s) that require the code -

*Code* *Application/Explanation*  
 0 - The lowest maintenance level capable of complete repair of the support item is the organizational level.  
 F - The lowest maintenance level capable of

*Code* *Application/Explanation*  
 complete repair of the support item is direct support.  
 H - The lowest maintenance level capable of complete repair of the support item is general support.  
 D - The lowest maintenance level capable of complete repair of the support item is the depot level.  
 L - Repair restricted to designated Specialized Repair Activity.  
 Z - Non-repairable. No repair is authorized.  
 K - No repair is authorized. The item may be reconditioned by adjusting, lubricating, etc., at the user level. No parts or special tools are procured for the maintenance of this item.

(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 -

*Code* *Explanation*  
 Z - Nonrepairable item. When unserviceable, condemn and dispose at the level indicated in the first digit of the maintenance code.  
 O - Repairable item. When uneconomically repairable, condemn and dispose as organizational level.  
 F - Repairable item. When uneconomically repairable, condemn and dispose at the direct support level.  
 H - Repairable item. When uneconomically repairable, condemn and dispose at the general support level.  
 D - Repairable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.  
 L - Repairable item. Repair, condemnation, and disposal not authorized below depot/Specialized Repair Activity level.  
 A - Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content, high dollar value, critical material or hazardous material).

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

*c. Description*. Indicates the Federal item name

and a minimum description required to identify the item. The last line indicates the reference number followed by the applicable Federal Supply Code for Manufacturer (FSCM) in parentheses. The FSCM is used as an element in item identification to designate manufacturer or distributor or Government agency, etc., and is identified in SB 708-42.

d. Unit of Measure (U/M). Indicates the standard or basic quantity by which the listed item is used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation: e.g., ea, in, pr, etc., and is the basis used to indicate quantities and allowances in subsequent columns. 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.

e. Quantity *Incorporated in Unit*. This column indicates the quantity of the item used in the equipment. Subsequent appearances of the same item in the same assembly are indicated by the letters "REF".

*f. 15-Day Organizational Maintenance Allowance.*

(1) The repair parts indicated by an asterisk in the allowance column represent those authorized for use at the organizational category, and will be requisitioned on an "as required" basis, until stockage is based on demand in accordance with AR 710-2.

(2) Major Army commanders are authorized to approve reduction in the range of support items authorized for use in units within their commands. Recommendations for increase in range of items authorized for use will be forwarded to Commander, US Army Electronics Command, ATTN: AMSEL-MA-D, Fort Monmouth, NJ., 07703. Any changes approved will be reflected in a revision to the RPSTL.

(3) Allowance quantities are indicated in the special tools list section for special tools, TMDE, and other equipment.

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

(1) Figure number. Indicates the figure number of the illustration on which the item is shown in TM 11-5131.

(2) Item number. Indicates the item number or reference designation used to reference the item in the illustration.

**1-4. Special Information**

a. Usable on codes are included in column 3. **Uncoded** items are applicable to all models. Identification of the usable on codes used in this publication are -

Code	Used on
BAA	OS-46/U
BUF	OS-46A/U

(Next printed page is 6)

b. The following publication pertains to the equipment and its components:

TM 11-5131	Oscilloscopes OS-46/U, OS-46A/U, OS-500/U, OS-5001A/U and OS-5001B/U.
------------	--

**1-5. Location of Repair Parts**

a. This manual contains one cross-reference index (sec V) to be used to locate a repair part when either the National stock number or reference number (manufacturer's part number) is known. The first column in the index is prepared in numerical or alphanumeric sequence in ascending order. The reference numbers (manufacturer's part numbers) are listed immediately following the last listed National stock number in the index of National stock numbers.

b. When the National stock number or reference number is known, follow the procedures given in (1) and (2) below.

(1) Refer to the index of National stock numbers (sec V) and locate the National stock number or reference number. The NSN and reference number are cross-referenced to the applicable figure and item number or reference designation.

(2) Refer to the repair parts list (sec III) and locate the figure number (col 7a) and item number or reference designation (col 7b) as noted in the NSN **index**.

c. When the figure and item number or reference designation are known, scrutinize columns 7a and 7b of the repair parts list (**sec III**) until the item is located.

**d. When the NSN, reference number, figure number, item number and reference designation are not known, scrutinize column 3 of the repair parts list (sec III), which is arranged in alphabetical order.**

1-6. **Abbreviations**

Not applicable.

1-7. Reporting of Equipment Publication Improvements

**The reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forwarded direct to Commander, US Army Electronics Command, ATTN: AMSEL-MA-D, Fort Monmouth, NJ 07703.**

SECTION III

(1) SMR CODE	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR CODE      USABLE ON CODE		(4) UNIT OF MEAS	(5) QTY. INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUSTRATION	
						(a)	(b)	(c)	(d)	(a)	(b)
						1-5	6-20	21-50	51-100	FIGURE NO	ITEM NO.
		GROUP 0001 OSCILLOSCOPES OS-46/U, OS-46A/U, OS-5001/U, OS-5001A,B/U									
PAOZZ		CLIP, ELECTRICAL M103 GRID PLATE TYPE: 118596 (78947)		FA	2	*	*	*	*		M103
PAOZZ	5935-00-8385183	ADAPTER CONNEC NO-REF-DESIG 210 (82879)			1	*	*	*	*		
PAOZZ	5960-00-6244718	ELECTRON TUBE V601 10B2UA (81349)			1	*	*	*	*	37	V601
PAOZZ	5960-00-5431921	ELECTRON TUBE V603 1x28 (81349)			2	*	*	*	*	38	V603
PAOZZ	5960-00-5431921	ELECTRON TUBE V604 1X28 (81349)			REF	*	*	*	*	38	V604
PAOZZ	5960-00-2960517	ELECTRON TUBE V401 5AOP1 (81349)			1	*	*	*	*	43	V401
PAOZZ	5960-00-2620218	ELECTRON TUBE V605 5Y3WGTA (81349)			1	*	*	*	*	43	V605
PAOZZ	5960-00-2620100	ELECTRON TUBE V502 6J6WA (81349)			2	*	*	*	*	32	V502
PAOZZ	5960-00-2620160	ELECTRON TUBE V503 6J6WA (81349)			REF	*	*	*	*	37	V503
PAOZZ	5960-00-1080257	ELECTRON TUBE V303 6Q5G (81349)			1	*	*	*	*	32	V303
PAOZZ	5960-00-1667663	ELECTRON TUBE V101 12AU7 (81349)			8	*	*	*	*	32	V101
PAOZZ	5960-00-1667663	ELECTRON TUBE V102 12AU7 (81349)			REF	*	*	*	*	32	V102
PAOZZ	5960-00-1667663	ELECTRON TUBE V103 j12AU7 (81349)			REF	*	*	*	*	32	V103
PAOZZ	5960-00-1667663	ELECTRON TUBE V104 12AU7 (81349)			REF	*	*	*	*	32	V104
PAOZZ	5960-00-1667663	ELECTRON TUBE V301 12AU7 (81349)			REF	*	*	*	*	32	V301
PAOZZ	5960-00-1667663	ELECTRON TUBE V304 12AU7 (81349)			REF	*	*	*	*	32	V304
PAOZZ	5960-00-1667663	ELECTRON TUBE V305 12AU7 (81349)			REF	*	*	*	*	32	V305
PAOZZ	5960-00-1667663	ELECTRON TUBE V501 12AU7 (81349)			REF	*	*	*	*	32	V501
PAOZZ		ELECTRON TUBE V302 5726-6AL5W (81349)			2	*	*	*	*	32	V302
PAOZZ		ELECTRON TUBE V602 5726-6AL5W (81349)			REF	*	*	*	*	33	V602
PAOZZ	5960-00-6696861	ELECTRON TUBE V105 6005-6AQ5W (81349)			2	*	*	*	*	38	V105
PAOZZ	5960-00-6696861	ELECTRON TUBE V106 6005-6AQ5W (81349)			REF	*	*	*	*	38	V106
PAOZZ	5920-00-0504953	FUSE, CARTRIDGE F601 FO2G1R50A (81349)			1	*	*	*	*	30	F601
XDCZZ		KNOB 0102 RD. ARROW HARKING, 5/8 IN OD X 7/16. EA IN THK O/A; 6126 (80375)			1	*	*	*	*		0102
PAOZZ	5355-00-5115728	KNOB 0103 45003371 (00530)		BAA	8	*	*	*	*		0103

SECTION III

(1) SMR CODE	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR CODE USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY. INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUSTRATION	
					(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) FIGURE NO	(b) ITEM NO
PACZZ	5355-00-5115728	KNOB 0104..... 45003371 (00530).....	BAA	EA REF	*	*	*	*		0104
PACZZ	355-00-5115728	KNOB 0105..... 45003371 (00530).....			*	*	*	*		0105
PACZZ	5355-00-5115728	KNOB 0106..... 45003371 (00530).....	BAA		*	*	*	*		0106
PACZZ	5355-00-5115728	KNOB 0107..... 45003371 (00530).....	BAA	EA REF	*	*	*	*		0107
PACZZ	5355-00-511572	KNOB 0108..... 45003371 (00530).....	BAA	EA REF	*	*	*	*		0108
PACZZ	5355-00-5115728	KNOB 0109..... 45003371 (00530).....	BAA	EA REF	*	*	*	*		0109
PACZZ	5355-00-5115728	KNOB 0110..... 45003371 (00530).....	BAA		*	*	*	*		0110
PACZZ	5355-00-5115728	KNOB 0103..... 45003371 (00530).....	BUF	EA	*	*	*	*		0103
PACZZ	5355-00-5115728	KNOB 0104..... 45003371 (00530).....	BUF		*	*	*	*		0104
PACZZ	5355-00-5115728	KNOB 0105..... 45003371 (00530).....	BUF		*	*	*	*		0105
PACZZ	5355-00-5115728	KNOB 0106..... 45003371 (00530).....	BUF		*	*	*	*		0106
PACZZ	5355-00-5115728	KNOB 0107..... 45003371 (00530).....	BUF	EA REF	*	*	*	*		0107
PACZZ	5355-00-5115728	KNOB 0108..... 45003371 (00530).....	BUF	EA REF	*	*	*	*		0108
PACZZ	5355-00-5115728	KNOB 0109..... 45003371 (00530).....	BUF		*	*	*	*		0109
PACZZ	5355-00-5115728	KNOB 0110..... 45003371 (00530).....	BUF	EA REF	*	*	*	*		0110
PACZZ	5355-00-5115728	KNOB 0111..... 45003371 (00530).....	BUF	EA REF	*	*	*	*		0111
PACZZ	5355-00-5115728	KNOB 0112..... 45003371 (00530).....	BUF		*	*	*	*		0112
PACZZ	5355-00-5115728	KNOB 0113..... 45003371 (00530).....	BUF	EA REF	*	*	*	*		0113
PACZZ	5355-00-5115728	KNOB 0114..... 45003371 (00530).....	BUF	EA REF	*	*	*	*		0114
PACZZ		KNQB 0111 RD, 1 IN DIA X 1/2 IN THK O/A:..... 4500345 (00530).....	BAA	EA	*	*	*	*		0111
PACZZ		KNOB 0112 RD, 1 IN DIA X 1/2 IN THK O/A:..... 4500345 (00530).....	BAA	EA REF	*	*	*	*		0112
PACZZ		0113 RD, 1 IN DIA X 1/2 IN THK O/A:..... BAA	BAA	EA REF	*	*	*	*		0113
PACZZ		KNOB 0114 RD, 1 IN DIA X 1/2 IN THK O/A:..... 4500345 (00530).....	BAA	EA REF	*	*	*	*		0114
PACZZ	5355-00-1607108	KNOB 0101 RD, W/ POINTER, 27/32 IN LG X 11/16 IN EA WD X 13/32 IN THK O/A:..... 1400 (72512).....		I	*	*	*	*		0101
PACZZ	6240-00-5778456	AMP. GLOW E401..... WE2 (08805).....			*	*	*	*		E401
PACZZ	6240-00-1558706	LAMP, INCANDESCENT I401..... I7 (96906).....	BAA	EA	*	*	*	*		I401

SECTION III

(1) S M R C O D E	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR CODE      USABLE ON CODE		(4) UNIT OF MEAS	(5) QTY. INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUSTRATION	
						(a)	(b)	(c)	(d)	(a)	(b)
						1-5	6-20	21-50	51-100	FIGURE NO.	ITEM NO.
PACZZ	6240-00-1558706	LAMP, INCANDESCENT 47 (96906)	I402	EA	REF	*	*	*	*	38	I402
PAOZZ	6240-00-1558706	LAMP, INCANDESCENT 47 (96906)	I403	EA	REF	*	*	*	*	38	I403
PAOZZ	6240-00-1558706	LAMP, INCANDESCENT 47 (96906)	I404	EA	REF	*	*	*	*	38	I404
PAOZZ	6240-00-1558706	LAMP, INCANDESCENT 47 (96906)	I405	EA	REF	*	*	*	*	32	I405
PAOZZ	5340-00-6649230	MOUNT, VIBRATION H105 SPHERICAL MTG, 5/B IN LG X 19/32 IN DIA O/A: 275-1 (81860)		EA	4	*	*	*	*		H105
PAOZZ	5340-00-6649238	MOUNT, V VIBRATION H106 SPHERICAL MTG, 5/B IN LG X 19/32 IN DIA O/A: 275-1 (81860)		EA	REF	*	*	*	*		H106
PAOZZ	5340-00-6649238	MOUNT, VIBRATION H107 SPHERICAL MTG, 5/7 IN LG X 19/32 IN DIA O/A: 275-1 (81860)		EA	REF	*	*	*	*		H107
PAOZZ	5340-00-6649238	MOUNT, VIBRATION H108 SPHERICAL MTG, 5/8 IN LG X 19/32 IN DIA O/A: 275-1 (81860)		EA	REF	*	*	*	*		H108
	5905-00-2799812	RESISTOR, THERMAL 3-14 (70563)	RT601	EA	1	*	*	*	*		
		SCALE, CATHODE RAY TUBE C2449 (24018)	G101	EA	1	*	*	*	*		G101
		SCALE, CATHODE RAY TUBE 45003801 (18778)	G101	EA	1	*	*	*	*		G101
	5935-00-6367145	CONNECTOR, PLUG, ELECTRICAL UP121M (81349)	NO-REF-DESIG.....	EA	1	*	*	*	*		

SECTION V

INDEX-NATIONAL STOCK NUMBER AND REFERENCE NUMBER

CROSS-REFERENCE TO FIGURE AND ITEM NUMBER

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5340-00-6649238		H105	5960-00-1667663	32	V102
5340-00-6649238		H106	5960-00-1667663	32	V103
5341-00-6649238		H107	5960-00-1667663	32	V104
5340-00-6649238		H108	5960-00-1667663	32	V301
5355-00-1607108		0101	5960-00-1667663		V304
			5960-06-1667663	32	V305
5355-00-65115728		0103	5960-00-1667663	32	V501
5355-00-5115728		0104	5960-00-2620160	32	V502
5355-00-5115728		0105	5960-00-2620160	37	V503
5355-00-5115728		0106	5960-00-2620218	43	V605
5355-00-5115728		0107	5960-00-2960517	43	V401
5355-00-5115728		0108	5960-00-5431921	38	V603
5355-00-5115728		0109	5960-00-5431921	38	V604
5355-00-5115728		0110	5960-00-6244718	37	V601
5355-00-5115728		0111	5960-00-6696861	38	V105
5355-00-5115728		0112	5960-00-6696861	38	V106
5355-00-5115728		0113	6240-00-1558706		I401
5355-00-5115728		0114	6240-00-1558706	32	I405
5905-00-2799812			6240-00-1558706	38	I402
5920-00-0504953	3 0	F601	6240-00-1558706	38	I403
5935-00-6367145			6240-00-1558706	38	I404
5935-00-8385183			6240-00-5778456		E401
5960-00-1080257	3 2	V303			
5960-00-1667663	3 2	V101			

REFERENCE NO.	MFR CODE	FIG. NO.	ITEM NO.	REFERENCE NO.	MFR CODE	FIG. NO.	ITEM NO.
<b>C2449</b>	<b>24018</b>		GI01	45003371	00530		0108
<b>F02G1R50A</b>	<b>81349</b>	3 0	F6D1	45003371	00530		0109
<b>NEZ</b>	<b>08805</b>		E401	45003371	00530		0110
<b>UP121M</b>	<b>81349</b>			45003371	00530		0111
<b>0B2WA</b>	<b>81349</b>	3 7	V601	45003371	00530		0112
<b>1X2B</b>	<b>81349</b>	3 8	V603	45003371	00530		0113
<b>1X2B</b>	<b>81349</b>	3 8	V604	45003371	00530		0114
<b>118596</b>	<b>78947</b>		M103	45003451	00530		0111
<b>12 AU7</b>	<b>81349</b>	3 2	V101	45003451	00530		0112
<b>12 AU7</b>	<b>81349</b>	3 2	V102	45003451	00530		0113
<b>12 AU7</b>	<b>81349</b>	3 2	V103	45003451	00530		0114
<b>12 AU7</b>	<b>81349</b>	3 2	V104	45003801	18778		GI01
<b>12 AU7</b>	<b>81349</b>	3 2	V301	47	96906		I401
<b>12 AU7</b>	<b>81349</b>	3 2	V304	47	96906	32	I405
<b>12 AU7</b>	<b>81349</b>	3 2	V305	47	96906	38	I402
<b>12 AU7</b>	<b>81349</b>	3 2	V501	47	96906	38	I403
<b>1400</b>	<b>72512</b>		0101	47	96906	38	I404
<b>210</b>	<b>82879</b>			5ADP1	81349	43	V401
<b>275-1</b>	<b>81860</b>		H105	5Y3WGTA	81349	43	V605
<b>275-1</b>	<b>81860</b>		H106	5726-6AL5W	81349	32	V302
<b>275-1</b>	<b>81860</b>		H1D7	5726-6AL5W	81349	33	V602
<b>275-1</b>	<b>81860</b>		H108	6J6WA	81349	32	V502
<b>3-14</b>	<b>70563</b>			6J6WA	81349	37	V503
<b>45003371</b>	<b>00530</b>		0103	6Q5G	81349	32	V303
<b>45003371</b>	<b>00530</b>		0104	6005-6AQ5W	81349	38	V105
<b>45003371</b>	<b>00530</b>		0105	6005-6AQ5W	81349	38	V106
<b>45003371</b>	<b>00530</b>		0106	6126	80375		0102
<b>45003371</b>	<b>00530</b>		0107				



**By Order of the Secretary of the Army:**

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

**Official:**

**VERNE L. BOWERS**  
*Major General, United States Army*  
*The Adjutant General*

Distribution:

*Active Army:*

USASA (2)  
Dir of Trans (1)  
COE (1)  
TSG (1)  
USAARENBD (1)  
AMC (1)  
TRADOC (2)  
ARADCOM (1)  
ARADCOM Rgn (2)  
OS Maj Comd (4)  
LOGCOMDS (3)  
MICOM (2)  
TECOM (1)  
CSACC (4)  
MDW (1)  
Armies (2)  
Corps (2)  
HISA (Ft Monmouth) (43)  
Svc Colleges (1)  
USASESS (5)  
USAADS (2)  
CSAFAS (2)  
USAARMS (2)  
USAIS (2)  
USAES (2)  
USAINTCS (3)  
WRAMC (1)  
ATS (1)  
Fort Gordon (10)

Fort Huachuca (10)  
WSMR (1)  
Fort Carson (5)  
Ft Richardson (ECOM Ofc) (2)

**Army Dep (1)** except

LBAD (14)  
SAAD (30)  
TOAD (14)  
ATAD (10)  
USA Dep (2)  
Sig Sec USA Dep (2)  
Sig Dep (2)  
Sig FLDNS (1)  
USAERDAA (1)  
USAERDAW (1)  
MAAG (1)  
USARMIS (1)

Units org under fol TOE:

(1 copy each unit)  
11-16  
11-85  
11-97  
11-98  
11-117  
11-500(AA-AC)  
32-52  
32-56  
32-57  
32-67  
32-78

NG: None

USAR: None

For explanation of abbreviations used, see AR 310-50.

\*U. S. GOVERNMENT PRINTING OFFICE: 1975-666139/706

**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**

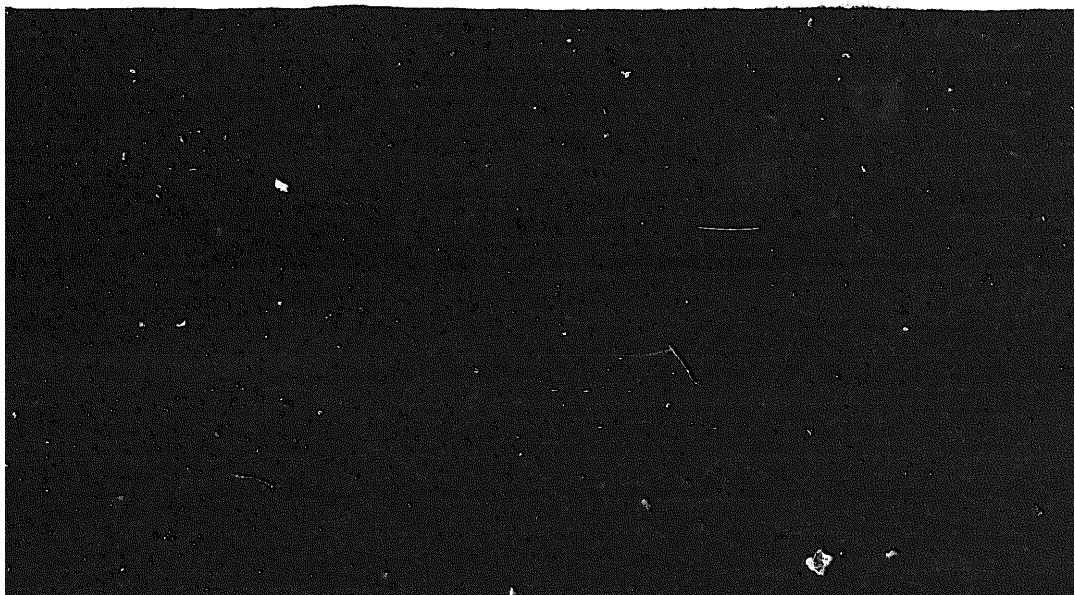


**END**

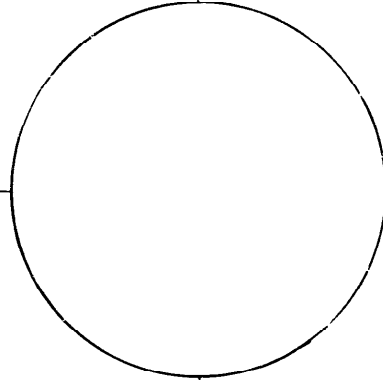
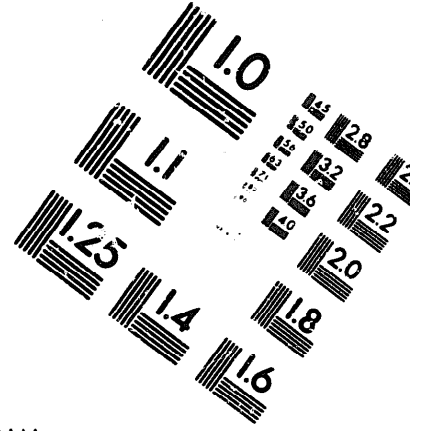
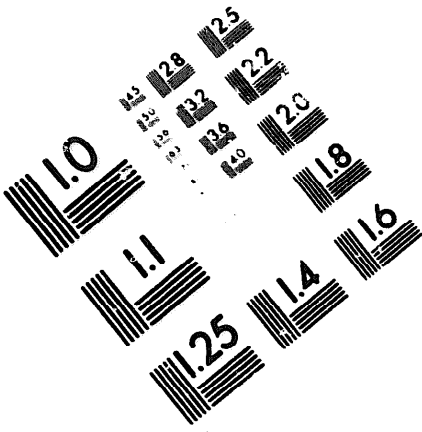
**01-21-83**

**DATE**





DEPARTMENT OF THE ARMY  
MICROFORM  
TEST TARGET



150 MM

1.0 mm (e= 81 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&@\*

1.0 mm (e= 81 mm)

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

1.5 mm (e= 1.09 mm)

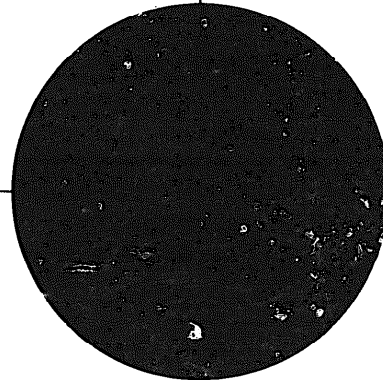
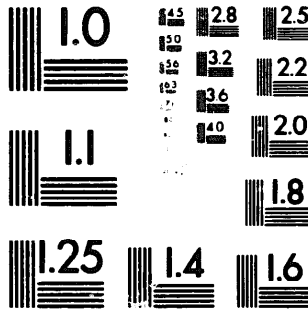
ABCDEFGHIJKLMN OPQRSTUVWXYZ 1234567890  
abcdefghijklmnopqrstuvwxyz \$%& /%# 1/2 1/4 3/4 —+ x&@\*

2.0 mm (e= 1.37 mm)

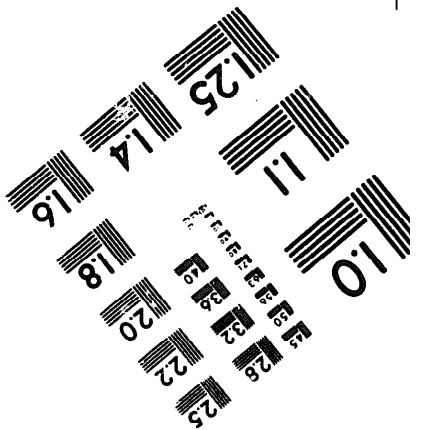
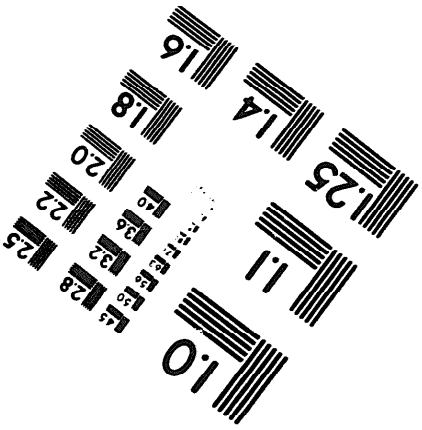
ABCDEFGHIJKLMN OPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz  
1234567890 \$%& /%# 1/2 1/4 3/4 —+ x&@\*

2.5 mm (e= 1.77 mm)

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



200 MM



250 MM