

TM 11-6806-654-14&P

TECHNICAL MANUAL

**OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT
MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS**

**NORTHERN RADIO UNIVERSAL SHELF TYPE 1026 MODEL 6
WITH EXTENDER CARD TYPE 2128**

(NSN 5805-00-011-7367)

R.

**HEADQUARTERS, DEPARTMENT OF THE ARMY
May 1975**

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 DEPARTMENT OF THE ARMY
 WASHINGTON, DC, 29 May 1975

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NORTHERN RADIO UNIVERSAL SHELF TYPE 1026 MODEL 6
 WITH EXTENDER CARD TYPE 2128
 (NSN 5805-00-611-7367)

Current as of 15 March 1975

	Paragraph	Page
CHAPTER 1. INTRODUCTION		
Scope -----	1-1	1-1
Indexes of publications -----	1-2	1-1
Forms and records -----	1-3	1-1
Purpose and use -----	1-4	1-1
Description -----	1-5	1-1
Technical characteristics -----	1-6	1-1
Items comprising an operable equipment -----	1-7	1-2
2. INSTALLATION		
Mounting -----	2-1	2-1
Primary power and grounding requirements -----	2-2	2-1
Cabling requirements -----	2-3	2-1
Post installation test equipment -----	2-4	2-1
Initial checking -----	2-5	2-1
Installation instructions -----	2-6	2-1
Electrical connections -----	2-7	2-1
3. DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE		
General -----	3-1	3-1
Continuity test -----	3-2	3-1
4. EXTENDER CARD TYPE 2128		
Purpose -----	4-1	4-1
Description -----	4-2	4-1
Operation -----	4-3	4-1
APPENDIX A. REFERENCES -----	-----	A-1
B. OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST (INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)		
Section I. Introduction -----	B-1	B-1
II. Basic issue items list (not applicable)		
III. Items troop installed or authorized list (not applicable)		
IV. Repair parts for organizational maintenance (not applicable)		
V. Special tools, test, and support equipment for organizational maintenance (not applicable)		

This technical manual is an authentication of the manufacturer's commercial literature and does not conform with the format and content specified in AR 310-3, Military publications. This technical manual does, however, contain available information that is essential to the operation and maintenance of the equipment.

	Page	Illus Figure
VI. Repair parts for direct support, general support, and depot maintenance - - - -	B-5	
Group 01 Shelf assembly, universal mount A1 -----	B-5	B-1
02 Extender card assembly A2 -----	B-6	B-2
Section VII. Special tools, test, and support equipment for direct support, general support, and depot maintenance (not applicable)		
VIII. Index-Federal stock number and reference number cross-reference to figure number and reference designation -----		
IX. Index-Reference designation cross-reference to page number -----		
C. MAINTENANCE ALLOCATION		
I. Introduction -----	C-1	
II. Maintenance allocation chart -----	C-3	

CHAPTER 1

INTRODUCTION

1-1. Scope

This manual describes Northern Radio Universal Shelf Type 1026 Model 6 and Extender Card Model 2128 and covers their operation, and organizational, direct and general support. Appendix A contains a list of applicable references, appendix B contains the repair parts and special tools list, and appendix C contains the maintenance allocation.

1-2. Indexes of Publications

a. Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to this equipment.

b. Refer to the latest issue of DA Pam 310-7 to determine if there are modification work orders (MWO's) pertaining to this equipment.

1-3. Forms and Records

a. Reports of Maintenance and Unsatisfactory Equipment. Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750.

b. Report of Packaging and Handling Deficiencies. Fill out and forward DD Form 6 (Packaging Improvement Report) as prescribed in AR 700-58/NAVSUPINST 4030.29/AFR 71-13/MCO P4030.29A, and DSAR 4145.8.

c. Discrepancy in Shipment Report (DISREP) (SF 361). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610.33A/AFR 75-18/MCO P4610.19B, and DSAR 4500.15.

d. Reporting of Equipment Publication Improvements. The reporting of errors, omissions, and recommendations for improving this manual 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-Q, Fort Monmouth, NJ 07703.

1-4. Purpose and Use

Universal Shelf, Type 1026 Model 6, is designed to mount appropriate printed circuit modules in data communication string concept circuits of four modules each. Appropriate modules may be selected from the following list which is not necessarily all inclusive.

Nomenclature	Part Number
(2600 Hz) SF Signaling Unit	Type 1013 Model 1
Four Wire Termination Set	Type 1018 Model 1
Strappable Pads	Type 1014 Model 2
Line Amplifiers	Type 1015 Model 2
E & M to 20 Hz Converters	Type 1022 Models 2 and 4
Signaling Extension Unit	Type 1021 Model 2
Echo Suppressors	Type 1017 Model 1
Strappable Pad and Amplifier	Type 1033 Model 3

1-5. Description

Universal Shelf Type 1026 Model 6 mounts in a standard 19-inch relay rack. All power and signal requirements are furnished to the printed circuit cards through dual row 17 pin (34 pins) edge card connectors mounted in the shelf, and wired to signal distribution block TB1 on the rear of the shelf.

1-6. Technical Characteristics

Unit capacity ----- 3 string concept circuits of 4 modules each.

Circuit terminations -- All input and output circuits are terminated on the 80 terminal signal distribution block on the rear of the shelf.

Operating tempera-

ture ----- 0°C to 60°C.

Storage temperature _ -55° C to +70° C.

TM 11-5805-654-14&P

1-7. Items Comprising an Operable Equipment

FSN	Item	Qty	Dimensions(in.)			Weight (lb)
			Height	Width	Depth	
5805-00-611-7367	Northern Radio Co. Universal Shelf Type 1028 Model 6	1	3½	19	17	7¼ (Less modules)
	Northern Radio Co. Extender Card Type 2128	1				

CHAPTER 2
INSTALLATION

2-1. Mounting.

The Type 1026 Model 6 shelf should be thoroughly inspected for any signs of mechanical damage due to rough handling in shipment. If no signs of mechanical damage exist, mount the shelf in the assigned position of a standard 19-inch equipment rack or cabinet.

2-2. Primary Power and Grounding Requirements

The Type 1026 Model 6 shelf is completely wired and ready to receive Northern Radio components as listed in paragraph 1-4. The rack in which the shelf is mounted should be connected to the station ground system by AWG No. 6 (or larger) cable.

2-3. Cabling Requirements

The connectors (receptacles) for plug-in mating of the printed circuit card assemblies are prewired to the terminals of a signal distribution block mounted on the rear of the shelf.

2-4. Post Installation Test Equipment

The only equipment required for post installation

tests is Multimeter AN/USM-210 or equivalent.

2-5. Initial Checking

The initial checking of the shelf consists of inspecting the unit for mechanical damage caused by rough handling in shipment and for possible loose connections, components, or broken wires.

2-6. Installation Instructions

The shelf should be handled carefully to avoid any mechanical damage to it or its components. To install the shelf, determine the location in the relay rack and secure it with four screws, two on each side of the front panel of the shelf. Use stainless steel screws, size 10, 32 threads per inch, equipped with plastic washers.

2-7. Electrical Connections

All external input and output connections are made to the terminals of the signal distribution block on the rear of the shelf. Refer to the schematic diagrams of the printed circuit assembly to be installed in the shelf, and to figures 3-1 and 3-2 to identify the appropriate terminals for the connections.

CHAPTER 3

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE

3-1. General

The direct support and general support maintenance of the Type 1026 Model 6 shelf consists of inspection, replacement of mechanically damaged receptacles in which the printed circuit board edge card connectors mate, broken signal distribution block, broken wiring, and continuity testing the wiring of the repaired shelf.

3-2. Continuity Test

The electrical connections between the terminal block and 12 edge card receptacles (connectors) shall be given a continuity test to ascertain that the wiring is correct and that there is good electrical contact. Refer to figures 3-1 and 3-2 and to table 3-1; verify all connections.

Table 3-1. Wiring Table

From	To	From	To	From	To
TB1-1	J1-17	TB1-31	J12-10	TB1-61	Blank
TB1-2	J5-17	TB1-32	Blank	TB1-62	Blank
TB1-3	J9-17	TB1-33	J1-9	TB1-63	Blank
TB1-4	Blank	TB1-34	J5-9	TB1-64	Blank
TB1-5	J1-16	TB1-35	J9-9	TB1-65	J1-6
TB1-6	J5-16	TB1-36	Blank		J5-6
TB1-7	J9-16	TB1-37	J1-8		J9-6
TB1-8	Blank	TB1-38	J5-8	TB1-66	Blank
TB1-9	J4-15	TB1-39	J9-8	TB1-67	Blank
TB1-10	J8-15	TB1-40	Blank	TB1-68	Blank
TB1-11	J12-15	TB1-41	J1-1	TB1-69	J1-23
TB1-12	Blank	TB1-42	J5-1		J5-23
TB1-13	J4-14	TB1-43	J9-1		J9-23
TB1-14	J8-14	TB1-44	Blank	TB1-70	Blank
TB1-15	J12-14	TB1-45	J1-7	TB1-71	Blank
TB1-16	Blank	TB1-46	J5-7	TB1-72	Blank
TB1-17	J1-13	TB1-47	J9-7	TB1-73	J1-4
TB1-18	J5-13	TB1-48	Blank		J5-4
TB1-19	J9-13	TB1-49	J1-5		J9-4
TB1-20	Blank	TB1-50	J5-5	TB1-74	J1-3
TB1-21	J1-12	TB1-51	J9-5		J5-3
TB1-22	J5-12	TB1-52	Blank		J9-3
TB1-23	J9-12	TB1-53	Blank	TB1-75	Blank
TB1-24	Blank	TB1-54	Blank	TB1-76	Blank
TB1-25	J4-11	TB1-55	Blank	TB1-77	J1-2
TB1-26	J8-11	TB1-56	Blank		J5-3
TB1-27	J12-11	TB1-57	Blank		TB1-78
TB1-28	Blank	TB1-58	Blank	TB1-78	J9-2
TB1-29	J4-10	TB1-59	Blank	TB1-79	Blank
TB1-30	J8-10	TB1-60	Blank	TB1-80	Blank

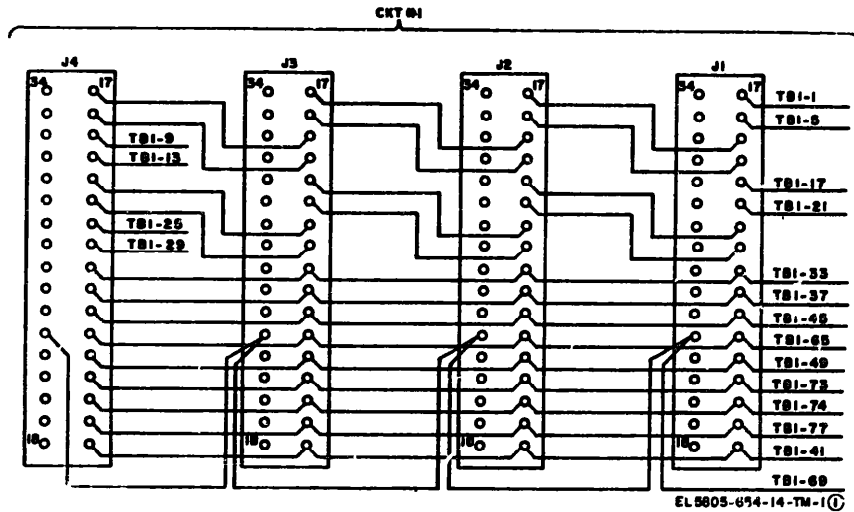


Figure 3-1 ①. Universal mounting shelf type 1026 model 6, wiring diagram (sheet 1 of 4).

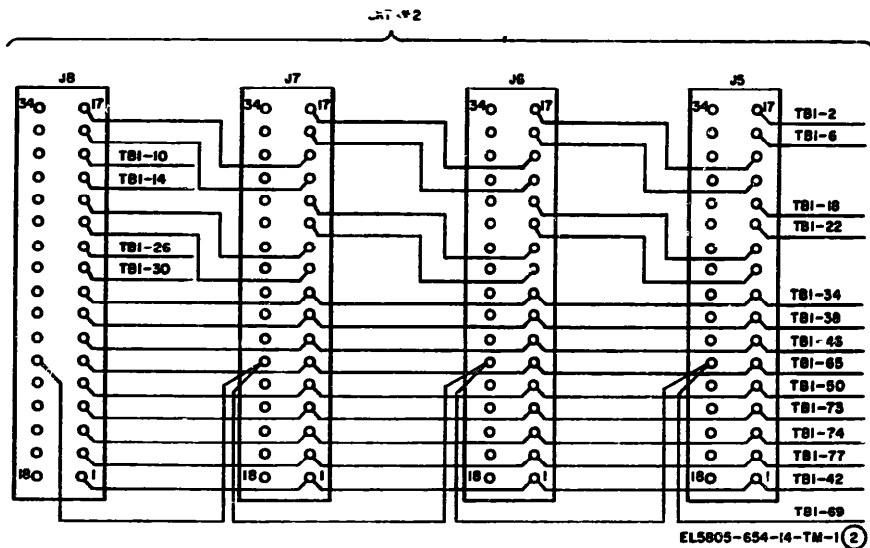


Figure 3-1 ②. Universal mounting shelf type 1026 model 6, wiring diagram (sheet 2 of 4).

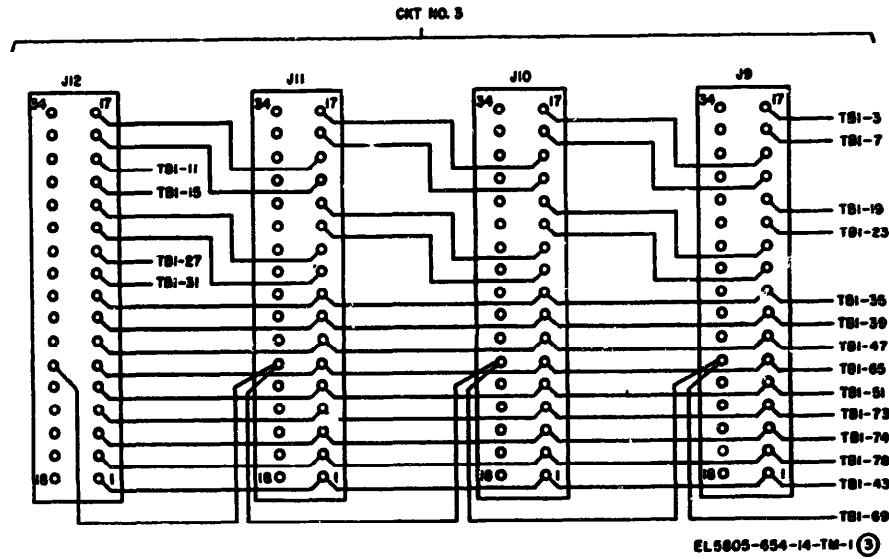


Figure 3-1④. Universal mounting shelf type 1026 model 6, wiring diagram (sheet 3 of 4).

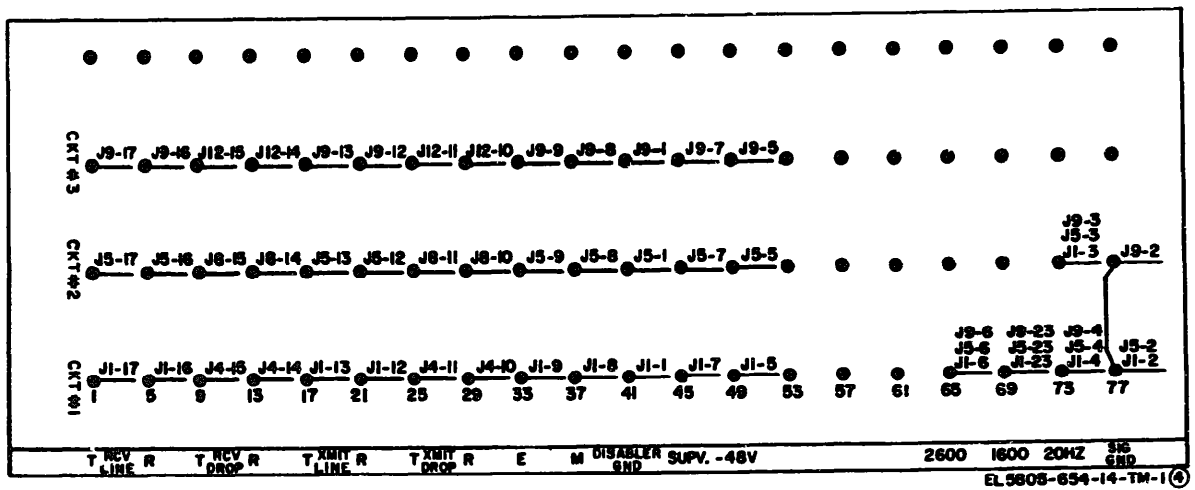


Figure 3-1④. Universal mounting shelf type 1026 model 6, wiring diagram (sheet 4 of 4).

CHAPTER 4

EXTENDER CARD TYPE 2128

4-1. Purpose

Extender Card Type 2128 provides a means of maintaining the circuit connections to a printed circuit module and extends the module to a position allowing access to its components for testing.

4-2. Description

Extender Card Type 2128 is a printed circuit card containing a 17-pin edge card receptacle (connector) and a bracket, to support a module mated in the receptacle, as shown in figure 4-1. The extender card contains 17 printed circuit

lands which connect the contacts of the receptacle pin-to-pin with the edge card connector on the rear of the extender card, as shown in figure 4-2.

4-3. Operation

When tests are to be made on components of a printed circuit module, under operating conditions, the module is removed from the mounting shelf and replaced with the extender card. The module is then mated in the receptacle of the extender card and its circuits are identical to the circuit arrangement when the module was mated in the shelf.

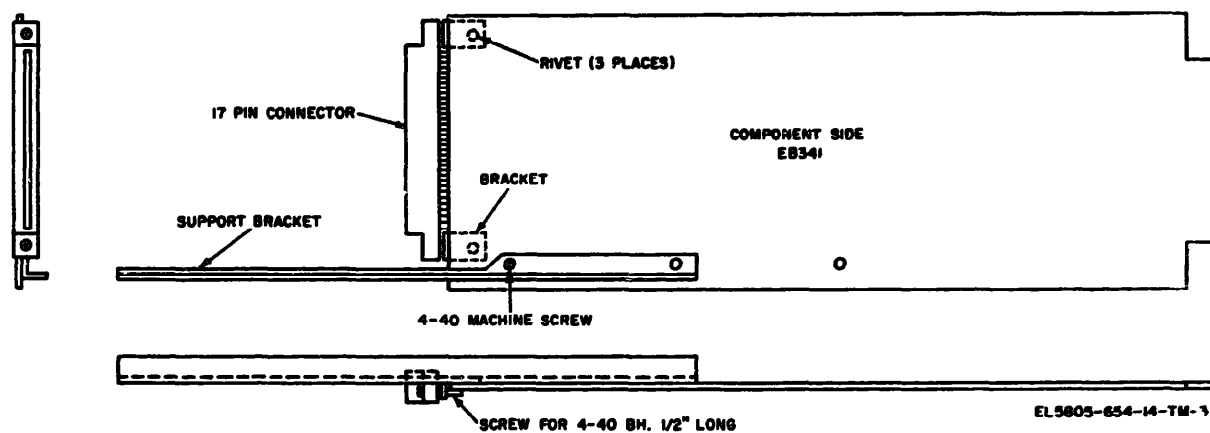


Figure 4-1. Extender card type 2128, assembly drawing.

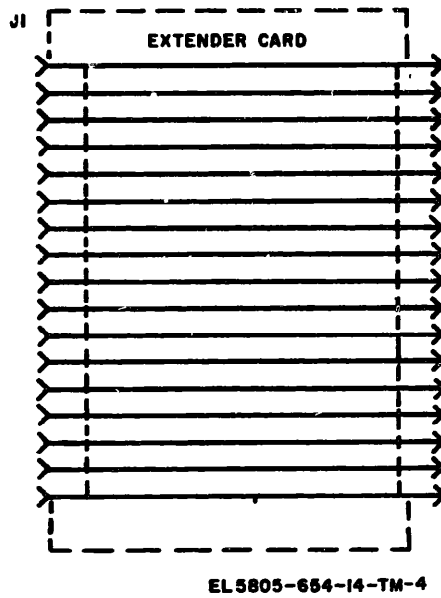


Figure 4-2. Extender card type 2128, schematic diagram.

APPENDIX A

REFERENCES

- DA Pam 310-4 Index of Technical Manuals, Technical Bulletins, Supply Manuals, (Types 7, 8, and 9), Supply Bulletins, and Lubrication Orders.
- DA Pam 310-7 US Army Equipment Index of Modification Work Orders.
- SB 38-100 Preservation, **Packaging, Packing** and Marking Materials, Supplies, and Equipment **Used by the Army.**
- TB SIG 355-1 Depot Inspection Standard for Repaired Signal Equipment,
- TB SIG 355-2 Depot Inspection Standard for Refinishing Repaired Signal Equipment.
- TB SIG 355-3 Depot Inspection Standard for Moisture and Fungus Resistant Treatment.
- TB SIG 746-10 Field Instructions for Painting and Preserving Electronics Command Equipment.
- TM 38-750 The Army Maintenance Management Systems (TAM**MS**).

APPENDIX B

**OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT,
AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS
AND SPECIAL TOOLS LIST (INCLUDING DEPOT
MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)**

Section I. INTRODUCTION

B-1. Scope

This appendix lists repair parts required for the performance of direct support, general support, and depot maintenance of Universal Shelf Type 1026, Model 6 with Extender Card Type 2128.

NOTE

No repair parts authorized for stockage at organizational maintenance.

B-2. General

This repair parts list is divided into the following sections:

a. Basic Issue Items List--Section II. Not applicable.

b. Items Troop Installed or Authorized List--Section III. Not applicable.

c. Repair Parts for Organizational Maintenance--Section IV. Not applicable.

d. Special Tools, Test and Support Equipment for Organizational Maintenance--Section V. Not applicable.

e. Repair Parts for Direct Support, General Support, and Depot Maintenance--Section VI. A list of repair parts authorized for performance of maintenance at the direct support, general support, and depot levels. 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.

f. Special Tools, Test and Support Equipment for Direct Support, General Support, and Depot Maintenance--Section VII. Not applicable.

g. Index-Federal Stock Number and Reference Number Cross-Reference to Figure Number and Reference Designation--Section VIII. A list, in ascending numerical sequence, of all Federal stock numbers appearing in the listings, fol-

lowed by a list in alphanumeric sequence, of all reference numbers appearing in the listings. Federal stock numbers and reference numbers are cross-referenced to each illustration figure number and reference designation.

h. Index-Reference Designation Cross-Reference to Page Number--Section IX. A list of reference designations cross-referenced to page numbers.

B-3. Explanation of Columns

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

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:

Code	Explanation
PA	--Item procured and stocked for anticipated or known usage.
PD	--Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment.
MF	--Item to be manufactured or fabricated at direct support maintenance level.
XA	--Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
XB	--Item is not procured or stocked. If not available through salvage requisition.

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) 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
F--	Support item is removed, replaced, used at the direct support maintenance level.

(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 capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain the following maintenance code:

Code	Application/explanation
Z--	Non-repairable. No repair is authorized.

(3) Recoverability code. Recoverability codes are assigned to support items to indicate the disposition action or unserviceable item. Recoverability code is entered in the fifth position of the uniform SMR Code Format as follows:

Code	Definition
Z--	Non-repairable item. When unserviceable, condemn and dispose at the level indicated in the first digit of the maintenance code.

b. Federal Stock Number. Indicates the Federal stock number assigned to the item.

NOTE

For requisitioning purpose, the Federal stock number must be converted to the National stock number by adding "-00-" after the Federal stock classification (FSC) code (first four digits). For example, FSN 6625-553-0142 converts to NSN 6625-00-553-0142.

c. Description. Indicates the Federal item name and a minimum description required to

B-2

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. 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. Indicates the quantity of the item used in the breakdown shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. Subsequent appearances of the same item in the same assembly are indicated by the letters "REF."

f. 30-Day DS/GS Maintenance Allowances. The repair parts indicated by asterisk entries in separate allowance columns for DS and GS represent those authorized for use at that category of maintenance to be requisitioned on an "as required" basis.

g. 1-Year Allowances Per 100 Equipments Contingency Planning Purposes. Column intentionally left blank.

h. Depot Maintenance Allowances Per 100 Equipments. This column indicates that the items identified with an asterisk are authorized to be requisitioned as required.

i. Illustrations. 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 or reference designation.** Indicates the reference designation used to identify the item on the illustration.

B-4. Special Information

(Not applicable).

B-5. How to Locate Repair Parts

a. This appendix contains two cross-reference indexes (sec VIII and IX) to be used to locate repair part when either the Federal stock number, reference number (manufacturer part number), or reference designation is known. The first column in each index is prepared in numerical or alphanumeric sequence

ascending order. Where a Federal stock number is not listed, refer to the reference number (manufacturer's part number) immediately following the Federal stock number.

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

(1) Refer to the index of Federal stock numbers (sec VIII) and locate the Federal stock number or reference number. The FSN or reference number is cross-referenced to the applicable figure number and reference designation.

(2) When the reference designation is determined, refer to the reference designation index (sec IX). The reference designations are listed in alphanumeric ascending order and are

cross-referenced to the page number on which they appear in the repair parts list (sec VI). Refer to the page number noted in the index and locate the reference designation in the repair parts list.

c. When the reference designation is known, follow the procedure given in b(2) above.

d. When neither the FSN, reference number, nor reference designation is known, identify the part in the illustration and follow directions given in c above; or scrutinize column 3 of the repair parts list.

B-6. Abbreviations

(Not applicable)

(Next printed page is B-5)

SECTION VI REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE

(1) SIB CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC 10 UNIT	(8) 30-DAY GS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(9) 1 YR AVY PER EQUIP CATEGORY	(10) DEPOT MAINT ALW PER 100	(11) ILLUSTRATIONS	
						(a)	(b)	(c)	(a)	(b)	(c)			(a)	(b)
						120	2150	51100	120	2150	51100			FIG NO	ITEM NO OR REFERENCE DESIGNATION
		GROUP 01 SHELF ASSEM LY UNIVERSAL MOUNT 1026-6												B-1	A1
XBFZZ		BAR,FRONT PANEL FASTENING 760-3-12 (88183)		EA	1									B-1	A1MP1
PAFZZ	5305-054-5649	SCREW,MACHINE MS51957-15 (96906)		EA	7	*	*	*	*	*	*	*	*	B-1	A1MP1H1
XBFZZ		BAR,TERMINAL BOARD MOUNTING 1026-4-07 (88183)		EA	1									B-1	A1MP2
PAFZZ	5305-050-9229	SCREW,MACHINE MS51957-63 (96906)		EA	5	*	*	*	*	*	*	*	*	B-1	A1MP2H2
PAFZZ	5310-595-6772	WASHER,FLAT MS15799-808 (96906)		EA	2	*	*	*	*	*	*	*	*	B-1	A1MP2H3
XBFZZ		BRACKET,CONNECTOR MOUNTING 760-3-13 (88183)		EA	1									B-1	A1MP3
PAFZZ	5310-934-9761	NUT,PLAIN,HEXAGON MS35649-264 (96906)		EA	8	*	*	*	*	*	*	*	*	B-1	A1MP3H6
PAFZZ	5305-054-6652	SCREW,MACHINE MS51957-28 (96906)		EA	8	*	*	*	*	*	*	*	*	B-1	A1MP3H5
PAFZZ	5305-054-6654	SCREW,MACHINE MS51957-30 (96906)		EA	6	*	*	*	*	*	*	*	*	B-1	A1MP3H6
PAFZZ	5310-579-0079	WASHER,LOCK MS35333-37 (96906)		EA	10	*	*	*	*	*	*	*	*	B-1	A1MP3H7
XBFZZ		BRACKET,MOUNTING 1026-3-11 (88183)		EA	2									B-1	A1MP4
PAFZZ	5305-054-6650	SCREW,MACHINE MS51957-26 (96906)		EA	6	*	*	*	*	*	*	*	*	B-1	A1MP4H8
XBFZZ		BRACKET,TERMINAL BOARD MTG 1026-3-12 (88183)		EA	2									B-1	A1MP5
PAFZZ	5305-054-5649	SCREW,MACHINE MS51957-15 (96906)		EA	4	*	*	*	*	*	*	*	*	B-1	A1MP5H9
PAFZZ	5310-559-0070	WASHER,LOCK MS35333-38 (96906)		EA	4	*	*	*	*	*	*	*	*	B-1	A1MP5H10
PAFZZ		CONNECTOR,ELECTRIC CARD EDGE K600-100-34WA (95238)		EA	12	*	*	*	*	*	*	*	*	B-1	A1J1
PAFZZ	5310-934-9748	NUT,PLAIN,HEXAGON MS35649-244 (96906)		EA	2	*	*	*	*	*	*	*	*	B-1	A1J1H11
PAFZZ	5305-054-5651	SCREW,MACHINE MS51957-17 (96906)		EA	2	*	*	*	*	*	*	*	*	B-1	A1J1H12
PAFZZ	5310-193-7577	WASHER,LOCK MS35333-36 (96906)		EA	2	*	*	*	*	*	*	*	*	B-1	A1J1H13
PAFZZ		CONNECTOR,ELECTRIC CARD EDGE K600-100-34WA (95238)		EA	REF	*	*	*	*	*	*	*	*	B-1	A1J2
PAFZZ		CONNECTOR,ELECTRIC CARD EDGE K600-100-34WA (95238)		EA	REF	*	*	*	*	*	*	*	*	B-1	A1J3
PAFZZ		CONNECTOR,ELECTRIC CARD EDGE K600-100-34WA (95238)		EA	REF	*	*	*	*	*	*	*	*	B-1	A1J4
PAFZZ		CONNECTOR,ELECTRIC CARD EDGE K600-100-34WA (95238)		EA	REF	*	*	*	*	*	*	*	*	B-1	A1J5
PAFZZ		CONNECTOR,ELECTRIC CARD EDGE K600-100-34WA (95238)		EA	REF	*	*	*	*	*	*	*	*	B-1	A1J6
PAFZZ		CONNECTOR,ELECTRIC CARD EDGE K600-100-34WA (95238)		EA	REF	*	*	*	*	*	*	*	*	B-1	A1J7
PAFZZ		CONNECTOR,ELECTRIC CARD EDGE K600-100-34WA (95238)		EA	REF	*	*	*	*	*	*	*	*	B-1	A1J8
PAFZZ		CONNECTOR,ELECTRIC CARD EDGE K600-100-34WA (95238)		EA	REF	*	*	*	*	*	*	*	*	B-1	A1J9
PAFZZ		CONNECTOR,ELECTRIC CARD EDGE K600-100-34WA (95238)		EA	REF	*	*	*	*	*	*	*	*	B-1	A1J10
PAFZZ		CONNECTOR,ELECTRIC CARD EDGE K600-100-34WA (95238)		EA	REF	*	*	*	*	*	*	*	*	B-1	A1J11

SECTION VI REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (Continued)

(1) SNR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY GS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1 YR ALSO PER EQUIP CMTYCY	(9) DEPOT MAINT ALLOW PER 100	(10) ILLUSTRATIONS	
					(a) 1-30	(b) 31-60	(c) 61-100	(a) 1-30	(b) 31-60	(c) 61-100			(a) FIG NO	(b) ITEM NO OR REFERENCE DESIGNATION
PAFZZ		CONNECTOR, ELECTRIC CARD EDGE K600-100-34MA (95238)	EA	REF	*	*	*	*	*	*	*	B-1	A1J12	
MFFZZ		DECALCOMANIA, UNIVERSAL SHELF 5-0971 (88183)	EA	1								B-1	A1MP6	
XBFZZ		PANEL, LEFT SIDE 5-0929-03 (88183)	EA	1								B-1	A1MP7	
XBFZZ		PANEL, RIGHT SIDE 5-0930-4 (88183)	EA	1								B-1	A1MP8	
MFFZZ		PLATE, FRONT 5-0955 (88183)	EA	2								B-1	A1MP9	
PAFZZ	5305-054-5647	SCREW, MACHINE MS51957-13 (96906)	EA	4	*	*	*	*	*	*	*	B-1	A1MP9M14	
XBFZZ		STRIP, BOTTOM GUIDE 1026-4-05 (88183)	EA	1								B-1	A1MP10	
PAFZZ	5305-054-6650	SCREW, MACHINE MS51957-26 (96906)	EA	4	*	*	*	*	*	*	*	B-1	A1MP10M15	
PAFZZ	5310-579-0079	WASHER, LOCK MS35333-37 (96906)	EA	4	*	*	*	*	*	*	*	B-1	A1MP10M16	
XBFZZ		STRIP, TOP GUIDE 1026-4-06 (88183)	EA	1								B-1	A1MP11	
PAFZZ	5310-934-9061	NUT, PLAIN, HEXAGON MS35649-264 (96906)	EA	4	*	*	*	*	*	*	*	B-1	A1MP11M17	
PAFZZ	5305-054-6652	SCREW, MACHINE MS51957-28 (96906)	EA	4	*	*	*	*	*	*	*	B-1	A1MP11M18	
PAFZZ	5305-054-6654	SCREW, MACHINE MS51957-30 (96906)	EA	3	*	*	*	*	*	*	*	B-1	A1MP11M19	
PAFZZ	5310-579-0079	WASHER, LOCK MS35333-37 (96906)	EA	4	*	*	*	*	*	*	*	B-1	A1MP11M20	
PAFZZ	5940-798-0737	TERMINAL BLOCK PJ104 (70674)	EA	1	*	*	*	*	*	*	*	B-1	A1T81	
PAFZZ	5305-050-9929	SCREW, MACHINE MS51957-63 (96906)	EA	3	*	*	*	*	*	*	*	B-1	A1T81M21	
PAFZZ	5310-576-5752	WASHER, LOCK MS35333-39 (96906)	EA	3	*	*	*	*	*	*	*	B-1	A1T81M22	
GROUP: 02 EXTENDER CARD ASSEMBLY NRC2128														
XAFZZ		BRACKET, CONNECTOR MOUNTING 9-1219 (88183)	EA	2								B-2	A2MP1	
XAFZZ		BRACKET, UNIT SUPPORT 9-1221 (88183)	EA	1								B-2	A2MP2	
PAFZZ	5305-054-5647	SCREW, MACHINE MS51957-13 (96906)	EA	1	*	*	*	*	*	*	*	B-2	A2MP2M1	
XAFZZ	5935-828-4151	CONNECTOR, ELECTRIC 600-121-17XA (95238)	EA	1								B-2	A2J1	
PAFZZ	5305-054-5651	SCREW, MACHINE MS51957-17 (96906)	EA	2	*	*	*	*	*	*	*	B-2	A2J1M2	
PAFZZ	5310-550-3715	WASHER, LOCK MS35333-70 (96906)	EA	2	*	*	*	*	*	*	*	B-2	A2J1M3	
XAFZZ		PRINTED WIRING BOARD 9-1222 (88183)	EA	1								B-2	A2E1	

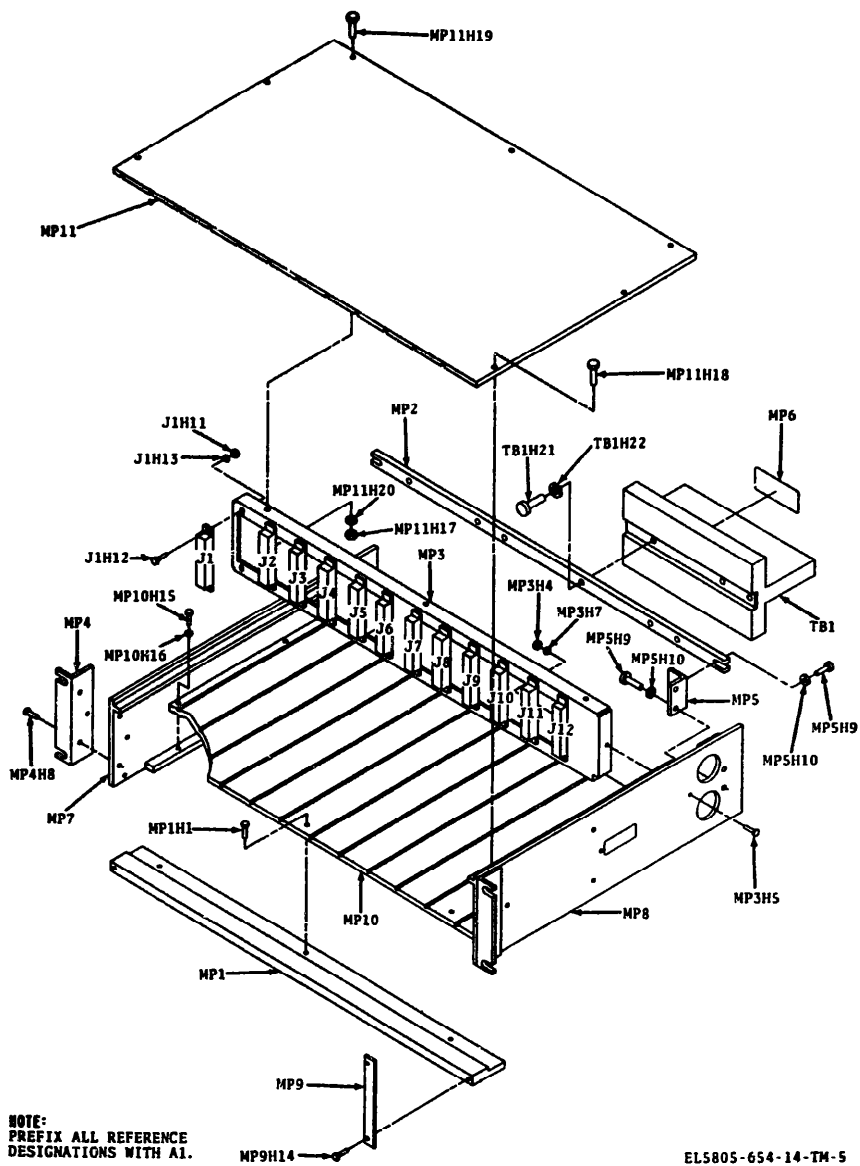


Figure B-1. Shelf assembly, universal mount A1.

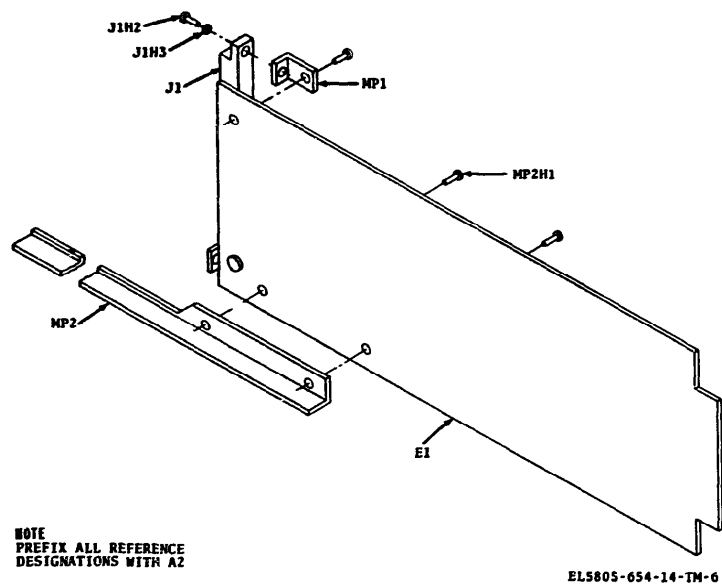


Figure B-2. Extender card assembly A2.

SECTION VIII. INDEX-FEDERAL STOCK NUMBER AND REFERENCE NUMBER
CROSS-REFERENCE TO FIGURE NUMBER AND REFERENCE DESIGNATION

STOCK NUMBER	FIG NO	REF DES	STOCK NUMBER	FIG NO	REF DES
5305-050-9229	B-1	A1MP2H2	5310-193-7577	B-1	A1J1H13
5305-054-5647	B-1	A1T81H21	5310-550-3715	B-2	A2J1H3
5305-054-5649	B-1	A1MP9H14	5310-559-0070	B-1	A1MP5H10
5305-054-5651	B-2	A2MP2H1	5310-576-5752	B-1	A1T81H22
5305-054-6650	B-1	A1MP1H1	5310-579-0079	B-1	A1MP3H7
5305-054-6652	B-1	A1MP5H9		B-1	A1MP10H16
5305-054-6654	B-1	A1J1H12		B-1	A1MP11H20
	B-2	A2J1H2	5310-595-6772	B-1	A1MP2H3
	B-1	A1MP4H8	5310-934-9061	B-1	A1NP11H17
	B-1	A1MP10H15	5310-934-9748	B-1	A1J1H11
	B-1	A1MP3H5	5310-934-9761	B-1	A1MP3H4
	B-1	A1MP11H18	5935-828-4151	B-2	A2J1
	B-1	A1MP3H6	5940-798-0737	B-1	A1T81
	B-1	A1MP11H19			

REFERENCE NO.	MFR CODE	FIG NO	REF DES	REFERENCE NO	MFR CODE	FIG NO	REF DES
K600-100-34WA	95238	B-1	A1J1	MS51957-17	96906	B-1	A1J1H12
		B-1	A1J2	MS51957-26	96906	B-2	A2J1H2
		B-1	A1J3	MS51957-28	96906	B-1	A1MP4H8
		B-1	A1J4	MS51957-30	96906	B-1	A1MP10H15
		B-1	A1J5	MS51957-63	96906	B-1	A1MP3H5
		B-1	A1J6			B-1	A1MP11H18
		B-1	A1J7			B-1	A1MP3H6
		B-1	A1J8			B-1	A1MP11H19
		B-1	A1J9	PJ104	70674	B-1	A1MP2H2
		B-1	A1J10	1026-3-11	88183	B-1	A1T81H21
		B-1	A1J11	1026-3-12	88183	B-1	A1T81
MS15795-808	96906	B-1	A1J12	1026-4-05	88183	B-1	A1MP4
MS35333-36	96906	B-1	A1MP2H3	1026-4-06	88183	B-1	A1MP5
MS35333-37	96906	B-1	A1J1H13	1026-4-07	88183	B-1	A1MP10
		B-1	A1MP3H7	1026-6	88183	B-1	A1MP11
		B-1	A1MP10H16	5-0929-03	88183	B-1	A1MP2
		B-1	A1MP11H20	5-0930-4	88183	B-1	A1
MS35333-38	96906	B-1	A1MP5H10	5-0955	88183	B-1	A1MP7
MS35333-39	96906	B-1	A1T81H22	5-0971	88183	B-1	A1MP8
MS35333-70	96906	B-2	A2J1H3	600-121-17XA	95238	B-1	A1MP9
MS35649-244	96906	B-1	A1J1H11	760-3-12	88183	B-1	A1MP6
MS35649-264	96906	B-1	A1MP3H4	760-3-13	88183	B-2	A2J1
MS51957-13	96906	B-1	A1MP11H17	9-1219	88183	B-1	A1MP1
		B-1	A1MP9H14	9-1221	88183	B-1	A1MP3
		B-2	A2MP2H1	9-1222	88183	B-2	A2MP1
MS51957-15	96906	B-1	A1MP1H1			B-2	A2MP2
		B-1	A1MP5H9			B-2	A2E1

SECTION IX. INDEX-REFERENCE DESIGNATION
CROSS-REFERENCE TO PAGE NUMBER

REFERENCE DESIGNATION	PAGE NO	REFERENCE DESIGNATION	PAGE NO	REFERENCE DESIGNATION	PAGE NO
A1	8-5	A1MP10H15	8-6	A1MP5H10	8-5
A1J1	8-5	A1MP10H16	8-6	A1MP5H9	8-5
A1J1H11	8-5	A1MP11	8-6	A1MP6	8-6
A1J1H12	8-5	A1MP11H17	8-6	A1MP7	8-6
A1J1H13	8-5	A1MP11H18	8-6	A1MP8	8-6
A1J10	8-5	A1MP11H19	8-6	A1MP9	8-6
A1J11	8-5	A1MP11H20	8-6	A1MP9H14	8-6
A1J12	8-5	A1MP2	8-5	A1TB1	8-6
A1J2	8-5	A1MP2H2	8-5	A1TB1H21	8-6
A1J3	8-5	A1MP2H3	8-5	A1TB1H22	8-6
A1J4	8-5	A1MP3	8-5	A2	8-6
A1J5	8-5	A1MP3H4	8-5	A2E1	8-6
A1J6	8-5	A1MP3H5	8-5	A2J1	8-6
A1J7	8-5	A1MP3H6	8-5	A2J1H2	8-6
A1J8	8-5	A1MP3H7	8-5	A2J1H3	8-6
A1J9	8-5	A1MP4	8-5	A2MP1	8-6
A1MP1	8-5	A1MP4H8	8-5	A2MP2	8-6
A1MP1H1	8-5	A1MP5	8-5	A2MP2H1	8-6
A1MP10	8-6				

APPENDIX C

MAINTENANCE ALLOCATION

Section I. INTRODUCTION

C-1. General

This appendix provides a summary of the maintenance operations covered in the equipment literature for Northern Radio Universal Shelf Type 1026 Model 6. It authorizes categories of maintenance for specific maintenance functions on repairable items and components and the tools and equipment required to perform each function. This appendix may be used as an aid in planning maintenance operations.

C-2. Maintenance Functions

Maintenance functions will be limited to and defined as follows:

a. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination.

b. Test. To verify serviceability and to detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

c. Service. Operations required periodically to keep an item in proper operating condition, i.e., to clean, preserve, drain, paint, or to replenish fuel/lubricants/hydraulic fluids or compressed air supplies.

d. Adjust. Maintain within prescribed limits by bringing into proper or exact position, or by setting the operating characteristics to the specified parameters.

e. Align. To adjust specified variable elements of an item to about optimum or desired performance.

f. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipment used in precision measurement. Consists of the comparison of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

g. Install. The act of emplacing, seating, or fixing into position an item, part, module (component or assembly) in a manner to allow the proper functioning of the equipment/system.

h. Replace. The act of substituting a serviceable like-type part, subassembly, module (component or assembly) in a manner to allow the proper functioning of an equipment/system.

i. Repair. The application of maintenance services (inspect, test, service, adjust, align, calibrate, replace) or other maintenance actions (welding, grinding, riveting, straightening, facing, remachining, or resurfacing) to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module/component/assembly end item or system.

j. Overhaul. That maintenance effort (service/action) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (e.g., DMWR) in pertinent technical manuals. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

k. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of material maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours, miles, etc.) considered in classifying Army equipment/components.

l. Symbols. The uppercase letter placed in the appropriate column indicates the lowest level at which that particular maintenance function is to be performed.

C-3. Explanation of Format

a. Column 1, Group Number. Column 1 lists group numbers, the purpose of which is to match

components, assemblies, subassemblies, and modules with the next higher assembly.

b. Column 2, Functional Group. Column 2 lists the next higher assembly group and the item names of components, assemblies, subassemblies; and modules within the group for which maintenance is authorized.

c. Column 3, Maintenance Function. Column 3 lists the maintenance category at which performance of the specific maintenance function is authorized. Authorization to perform a function at any Category also includes authorization to perform that function at higher categories. The codes used represent the various maintenance categories as follows:

(1) Use of symbols. The following symbols are used to prescribe work function responsibility:

Code	Maintenance category
C-----	Operator/crew
O-----	Organizational
F-----	Direct support
H-----	General support
D-----	Depot

(2) Work measurement time. The active repair time required to perform the maintenance function is included directly below the symbol identifying the category of maintenance. The skill levels used to obtain the measurement times approximate those found in typical TOE units. Active repair time is the average aggregate time required to restore an item (subassembly, assembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes

preparation time, fault isolation/diagnostic time, and QA/QC time in addition to the time required to perform specific maintenance functions identified for the tasks authorized in the maintenance allocation chart. This time is expressed in man-hours and carried to one decimal place (tenths of hours).

d. Column 4, Tools and Equipment. Column 4 specifies, by code, those tools and equipment required to perform the designated function. The numbers appearing in this column refer to specific tools and test equipment which are identified in table I.

e. Column 5, Remarks. Self-explanatory.

C-4 Explanation of Format of Table I, Tool and Test Equipment Requirements

The columns in Table I, Tool and Test Equipment Requirements, are as follows:

a. Tools and Equipment. The numbers in this column coincide with the numbers used in the tools and equipment column of the Maintenance Allocation Chart. The numbers indicate the applicable tool for the maintenance function.

b. Maintenance Category. The codes in this column indicate the maintenance category normally allocated the facility.

c. Nomenclature. This column lists tools, test, and maintenance equipment required to perform the maintenance functions.

d. Federal Stock Number. This column lists the Federal stock number of the specific tool or test equipment.

e. Tool Number. Not used.

MAINTENANCE ALLOCATION CHART

(1) GROUP NUMBER	(2) FUNCTIONAL GROUP COMPONENT ASSEMBLY NOMENCLATURE	(3) MAINTENANCE FUNCTIONS										(4) TOOLS AND EQUIPMENT	(5) REMARKS	
		INSPECT	TEST	SERVICE	ADJUST	ALIGN	CALIBRATE	INSTALL	REPLACE	REPAIR	OVERHAUL			REBUILD
0 1	SHELF ASSEMBLY UNIVERSAL MOUNT 1026-6									F 1.0			1,2	See note.
0 2	EXTENDER CARD ASSEMBLY NRC2120									F 0.4			1,2	
													NOTE	Direct support (F) maintenance operations for fixed plant equipment located OCONUS, will be performed by OFF-SITE (Area-Maintenance and Supply Facility, AMSF) personnel.

TABLE 1. **TOOL AND TEST EQUIPMENT REQUIREMENTS**

TOOLS AND EQUIPMENT	MAINTENANCE CATEGORY	NOMENCLATURE	FEDERAL STOCK NUMBER	TOOL NUMBER
1	F	MULTIMETER AH/USM-215	6625-019-0815	
2	F	TOOL KIT TK-105/G	5180-610-8177	

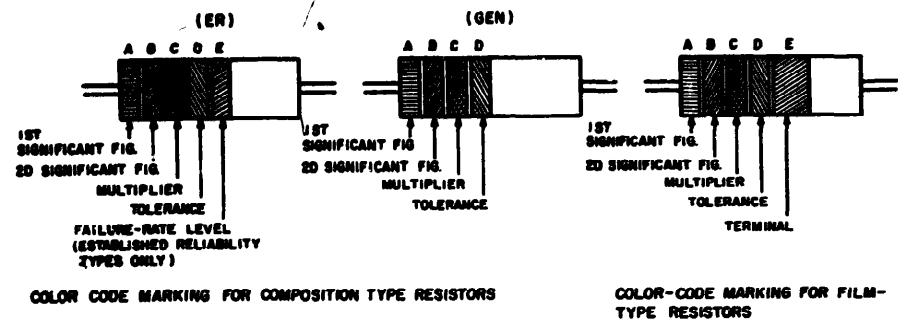


TABLE 1
COLOR CODE FOR COMPOSITION TYPE AND FILM TYPE RESISTORS.

BAND A		BAND B		BAND C		BAND D		BAND E	
COLOR	FIRST SIGNIFICANT FIGURE	COLOR	SECOND SIGNIFICANT FIGURE	COLOR	MULTIPLIER	COLOR	RESISTANCE TOLERANCE (PERCENT)	COLOR	FAILURE RATE LEVEL
BLACK	0	BLACK	0	BLACK	1			BROWN	M=10
BROWN	1	BROWN	1	BROWN	10			RED	P=01
RED	2	RED	2	RED	100			R=0.01	
ORANGE	3	ORANGE	3	ORANGE	1,000			S=0.001	
YELLOW	4	YELLOW	4	YELLOW	10,000	SILVER	±10 (COMP TYPE ONLY)		
							±5		
GREEN	5	GREEN	5	GREEN	100,000	GOLD	±2 (NOT APPLICABLE TO ESTABLISHED RELIABILITY)		
BLUE	6	BLUE	6	BLUE	1,000,000	RED			
PURPLE (VIOLET)	7	PURPLE (VIOLET)	7						
GRAY	8	GRAY	8	SILVER	0.01				
WHITE	9	WHITE	9	GOLD	0.1				SOLDERABLE

BAND A — THE FIRST SIGNIFICANT FIGURE OF THE RESISTANCE VALUE (BANDS A THRU D SHALL BE OF EQUAL WIDTH)

BAND B — THE SECOND SIGNIFICANT FIGURE OF THE RESISTANCE VALUE.

BAND C — THE MULTIPLIER (THE MULTIPLIER IS THE FACTOR BY WHICH THE TWO SIGNIFICANT FIGURES ARE MULTIPLIED TO YIELD THE NOMINAL RESISTANCE VALUE)

BAND D — THE RESISTANCE TOLERANCE

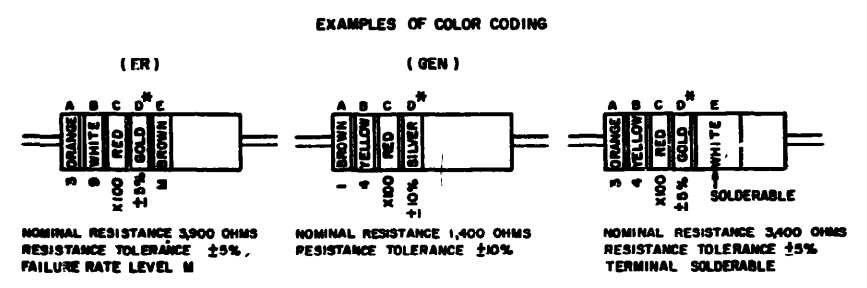
BAND E — WHEN USED ON COMPOSITION RESISTORS, BAND E INDICATES ESTABLISHED RELIABILITY FAILURE-RATE LEVEL (PERCENT FAILURE PER 1,000 HOURS) ON FILM RESISTORS, THIS BAND SHALL BE APPROXIMATELY 1-1/2 TIMES THE WIDTH OF OTHER BANDS, AND INDICATES TYPE OF TERMINAL

RESISTANCES IDENTIFIED BY NUMBERS AND LETTERS (THESE ARE NOT COLOR CODED)

SOME RESISTORS ARE IDENTIFIED BY THREE OR FOUR DIGIT ALPHA NUMERIC DESIGNATORS. THE LETTER R IS USED IN PLACE OF A DECIMAL POINT WHEN FRACTIONAL VALUES OF AN OHM ARE EXPRESSED FOR EXAMPLE:

2R7 = 2.7 OHMS 10R0 = 10.0 OHMS

FOR WIRE-WOUND-TYPE RESISTORS COLOR CODING IS NOT USED, IDENTIFICATION MARKING IS SPECIFIED IN EACH OF THE APPLICABLE SPECIFICATIONS



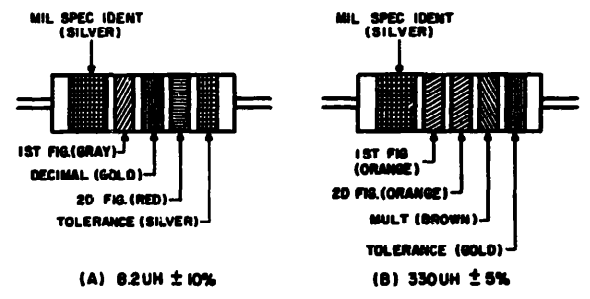
COMPOSITION-TYPE RESISTORS

FILM-TYPE RESISTORS

* IF BAND D IS OMITTED, THE RESISTOR TOLERANCE IS ±20% AND THE RESISTOR IS NOT MIL-STD.

A COLOR CODE MARKING FOR MILITARY STANDARD RESISTORS

B COLOR CODE MARKING FOR MILITARY STANDARD INDUCTORS.



COLOR CODING FOR TUBULAR ENCAPSULATED R.F. CHOKES. AT A, AN EXAMPLE OF OF THE CODING FOR AN 62UH CHOKE IS GIVEN AT B, THE COLOR BANDS FOR A 330UH INDUCTOR ARE ILLUSTRATED

TABLE 2
COLOR CODING FOR TUBULAR ENCAPSULATED R.F. CHOKES.

COLOR	SIGNIFICANT FIGURE	MULTIPLIER	INDUCTANCE TOLERANCE (PERCENT)
BLACK	0	1	
BROWN	1	10	1
RED	2	100	2
ORANGE	3	1,000	3
YELLOW	4		
GREEN	5		
BLUE	6		
VIOLET	7		
GRAY	8		
WHITE	9		
NONE			20
SILVER			10
GOLD	DECIMAL POINT		5

MULTIPLIER IS THE FACTOR BY WHICH THE TWO COLOR FIGURES ARE MULTIPLIED TO OBTAIN THE INDUCTANCE VALUE OF THE CHOKE COIL.

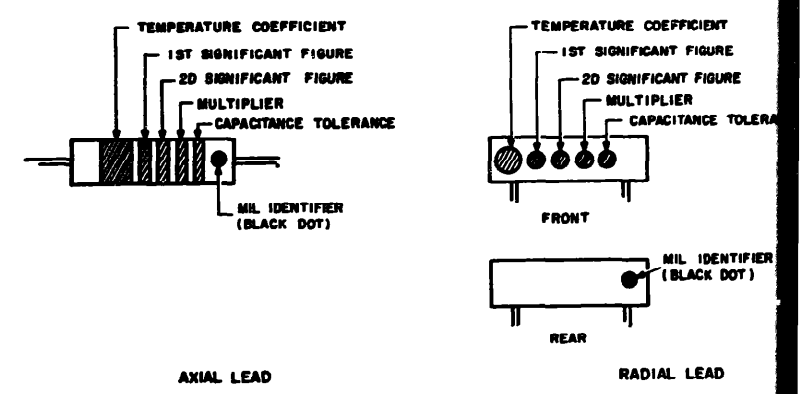
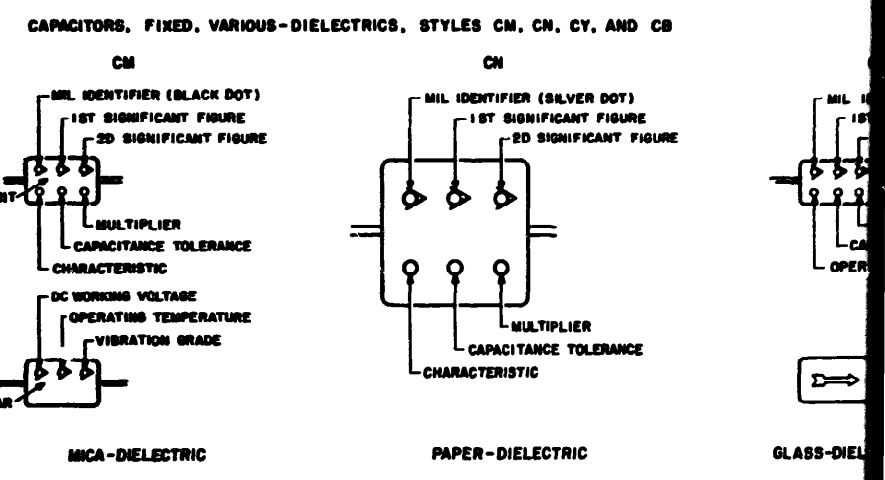
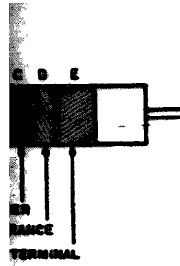
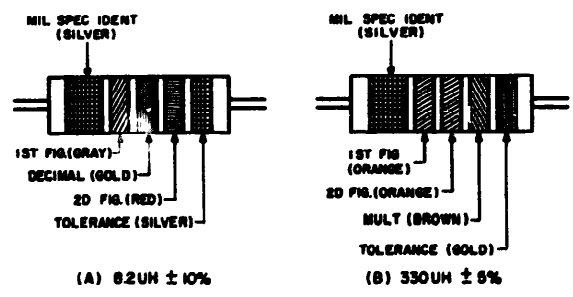


Figure FO-1. Color code marking for MIL STD resistors, inductors, and capacitors.



MARKING FOR FILM-RES.

BAND E		
COLOR	FAILURE RATE LEVEL	TERMINAL
BROWN	M=1.0	SOLDERABLE
RED	P=0.1	
ORANGE	R=0.01	
YELLOW	S=0.001	
WHITE		

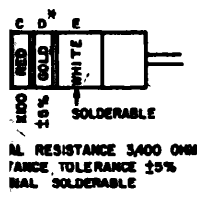


COLOR CODING FOR TUBULAR ENCAPSULATED R.F. CHOKES. AT A, AN EXAMPLE OF THE CODING FOR AN 8.2UH CHOKER IS GIVEN. AT B, THE COLOR BANDS FOR A 330UH INDUCTOR ARE ILLUSTRATED.

TABLE 2
COLOR CODING FOR TUBULAR ENCAPSULATED R.F. CHOKES.

COLOR	SIGNIFICANT FIGURE	MULTIPLIER	INDUCTANCE TOLERANCE (PERCENT)
BLACK	0	1	
BROWN	1	10	1
RED	2	100	2
ORANGE	3	1,000	3
YELLOW	4		
GREEN	5		
BLUE	6		
VIOLET	7		
GRAY	8		
WHITE	9		
NONE			20
SILVER			10
GOLD	DECIMAL POINT		5

MULTIPLIER IS THE FACTOR BY WHICH THE TWO COLOR FIGURES ARE MULTIPLIED TO OBTAIN THE INDUCTANCE VALUE OF THE CHOKER COIL.



M. RESISTANCE 3,400 OHMS
TOLERANCE TOLERANCE ±5%
MIL SOLDERABLE

TYPE RESISTORS
R IS NOT MIL-STD.

B. COLOR CODE MARKING FOR MILITARY STANDARD INDUCTORS.

CAPACITORS, FIXED, VARIOUS-DIELECTRICS, STYLES CM, CN, CY, AND CB.

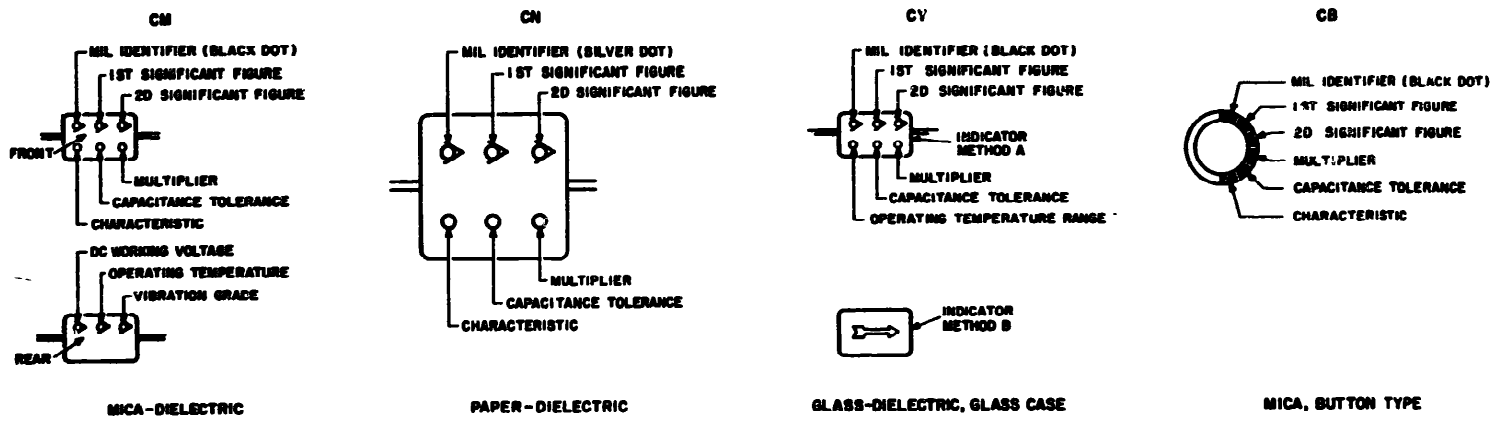


TABLE 3 - FOR USE WITH STYLES CM, CN,

COLOR	MIL ID	1ST SIG FIG	2D SIG FIG	MULTIPLIER	CAPACITANCE TOLERANCE
BLACK	0	0	0	1	
BROWN	1	1	1	10	
RED	2	2	2	100	±2%
ORANGE	3	3	3	1,000	
YELLOW	4	4	4	10,000	
GREEN	5	5	5		±5%
BLUE	6	6	6		
PURPLE (VIOLET)	7	7	7		
GRAY	8	8	8		
WHITE	9	9	9		
GOLD				0.1	
SILVER	CN			0.01	±10%

TABLE 4 - TEMPERATURE COMPENSATING

COLOR	TEMPERATURE COEFFICIENT	1ST SIG FIG	2D SIG FIG	MULTIPLIER
BLACK	0	0	0	1
BROWN	-30	1	1	10
RED	-80	2	2	100
ORANGE	-150	3	3	1,000
YELLOW	-220	4	4	
GREEN	-330	5	5	
BLUE	-470	6	6	
PURPLE (VIOLET)	-750	7	7	
GRAY		8	8	0.01
WHITE		9	9	0.1
GOLD	+100			0.1
SILVER				0.01

1. THE MULTIPLIER IS THE NUMBER BY WHICH THE CAPACITANCE IN UUF
2. LETTERS INDICATE THE CHARACTERISTICS DESIGNATION: MIL-C-250, MIL-C-11272B, AND MIL-C-108
3. LETTERS INDICATE THE TEMPERATURE RANGE: MIL-C-11015D
4. TEMPERATURE COEFFICIENT IN PARTS PER DEGREE
- * OPTIONAL CODING WHERE METALLIC PIGMENT

C. COLOR CODE MARKING FOR MILITARY STANDARD CAPACITORS

Figure FO-1. Color code marking for MIL STD resistors, inductors, and capacitors.

CONDENSERS, FILMS, WAXES-SELECTRIC, STYLES CM, CN, CV, AND CB.

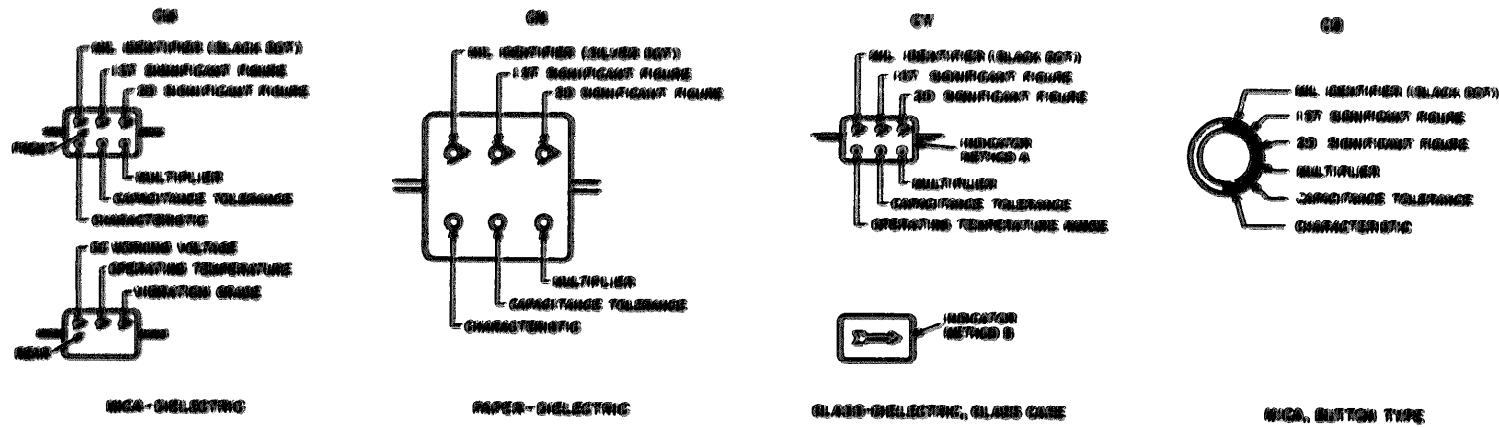
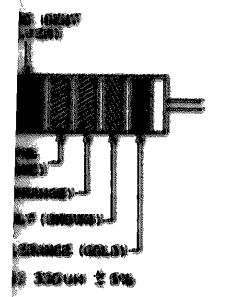


TABLE 3 - FOR USE WITH STYLES CM, CN, CV AND CB.

COLOR	MIL ID	1ST SIG FIG	2D SIG FIG	MULTIPLIER	CAPACITANCE TOLERANCE				CHARACTERISTIC	TEMPERATURE RANGE	VOLTAGE-TEMPERATURE LIMITS
					CM	CN	CV	CB			
BLACK	00	0	0	1			20%	20%	A		-55°C to +125°C
BROWN	11	1	1	10					B	E	D
RED	2	2	2	100	20%		20%	20%	C		
ORANGE	3	3	3	1,000			30%		D	D	300
YELLOW	4	4	4	10,000					E		
GREEN	5	5	5		20%				F		300
BLUE	6	6	6								
PURPLE (MILITARY)	7	7	7								
GRAY	8	8	8								
WHITE	9	9	9								
GOLD				0.1			20%	20%			
SILVER	00			0.01	20%	20%	20%	20%			



NOTES: AT A, AN EXAMPLE OF AT B, THE COLOR BANDS FOR

ISOLATED R.F. CHOKES

INDUCTANCE TOLERANCE (PERCENT)
1
2
3
4
5
6
7
8
9
10
15
20

THE TWO COLOR FIGURES INDICATE THE RANGE VALUE OF THE

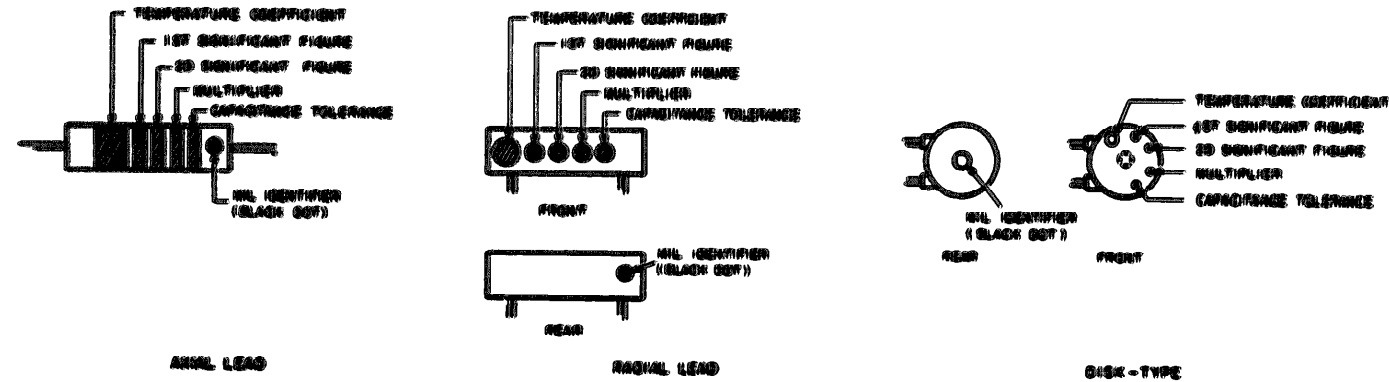


TABLE 4 - TEMPERATURE COMPENSATING, STYLE CC

COLOR	TEMPERATURE COEFFICIENT*	1ST SIG FIG	2D SIG FIG	MULTIPLIER	CAPACITANCE TOLERANCE		MIL ID
					CAPACITANCE OVER 0.01 UF	CAPACITANCE 0.01 UF OR LESS	
BLACK	0	0	0	1		± 2.0 UF	CC
BROWN	-30	1	1	10	± 1%		
RED	-50	2	2	100	± 2%	± 0.25 UF	
ORANGE	-70	3	3	1,000			
YELLOW	-90	4	4				
GREEN	-350	5	5		± 0%	± 0.05 UF	
BLUE	-475	6	6				
PURPLE (MILITARY)	-750	7	7				
GRAY		8	8	0.01*			
WHITE		9	9	0.1*	± 10%		
GOLD	+100			0.1		± 1.0 UF	
SILVER				0.01			

- 1 THE MULTIPLIER IS THE NUMBER BY WHICH THE TWO SIGNIFICANT (SIG) FIGURES ARE MULTIPLIED TO OBTAIN THE CAPACITANCE IN UF.
- 2 LETTERS INDICATE THE CHARACTERISTICS DESIGNATED IN APPLICABLE SPECIFICATIONS: MIL-C-9, MIL-C-230, MIL-C-11272D, AND MIL-C-10550C RESPECTIVELY.
- 3 LETTERS INDICATE THE TEMPERATURE RANGE AND VOLTAGE-TEMPERATURE LIMITS DESIGNATED IN MIL-C-11272D.
- 4 TEMPERATURE COEFFICIENT IN PARTS PER MILLION PER DEGREE CENTIGRADE.
- 5 OPTIONAL CODING WHERE METALLIC PIGMENTS ARE UNDESIRABLE.

STANDARD INDUCTORS.

C. COLOR CODE MARKING FOR MILITARY STANDARD CAPACITORS

Figure FO-1. Color code marking for MIL STD resistors, inductors, and capacitors.

TM 11-5805-654-14&P

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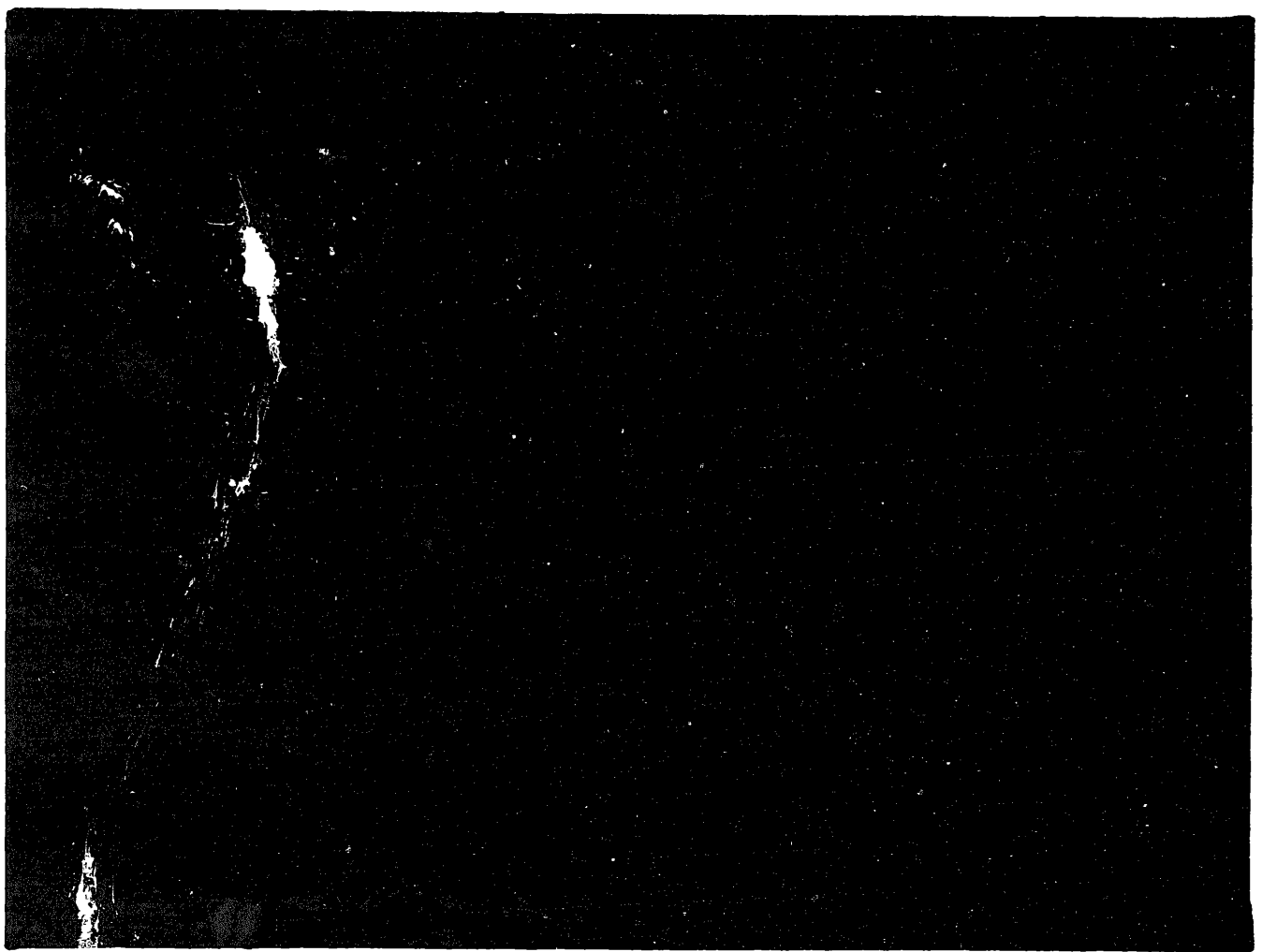


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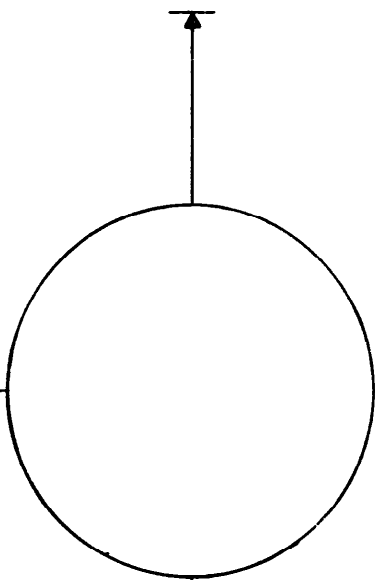
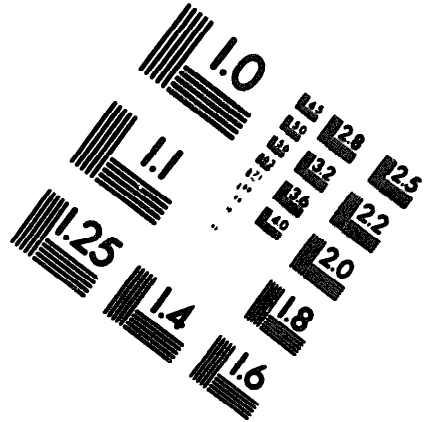
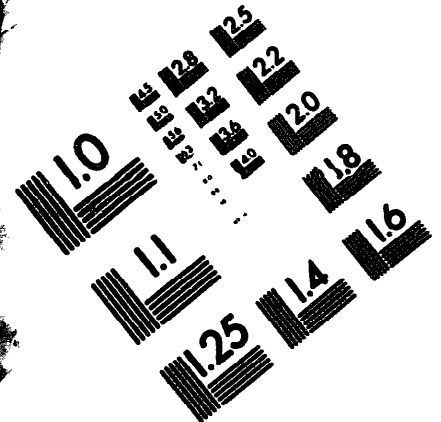
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MICROFORM
TEST TARGET



150 MM

10 mm (e= 81 mm)

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

15 mm (e= 109 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&@*

10 mm (e= 81 mm)

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15 mm (e= 109 mm)

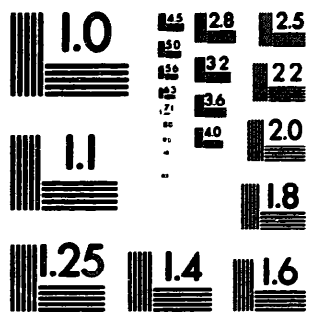
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2.0 mm (e= 1.37 mm)

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

