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 5605-66-611-7367)



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HEADOUARTERS DEPARTMENT OF THE ARMY WASHINGTON, DC, 29 May 1975

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Current as of 15 March 1975

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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.

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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 ad 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 (DIS-REP) (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 A	All input and output circuits are termi-
	nated on the 80 ter-
	minal signal distribu-
	tion block on the rear
	of the shelf.

Operating tempera-

ture _ _ _ _ 0°C to 60°C. Storage temperature _ -55° C to +70° C.

1-7. Items Comprising an Operable Equipment

			Dimension)	Walake	
FSV		Qty	Honght	Width	Depth	Weight (lb)	
	Northern Radio Co. Universal Shelf Type 1026 Model 6	1	31/2	19	17	7¼ (Less modules)	
5805-00-611-7367	Northern Radio Co. Extender Card Type 2128	1					



INSTALLATION

2-1. Mounting.

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 llarger) 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 installa-

tion 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.

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	1	J5-6
TB1-7	J9- 16	TB1-37	J1 -8	1	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	TBî-42	J5-1	<u> </u>	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	1	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	i l	J5-3
TB1-22	J5-12	TB1-52	Blank	l	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	i I	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

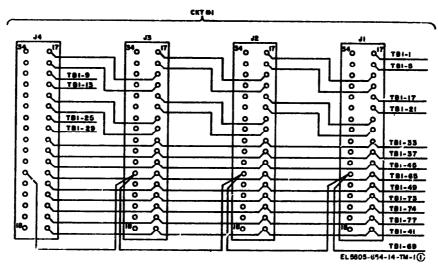


Figure 3-1 **6.** Universal mounting shelf type 1026 model 6, wiring diagram (sheet 1 of 4).

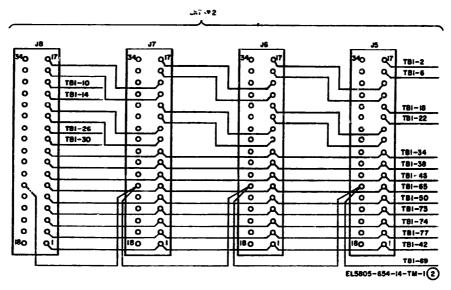


Figure 3-1 ②. Universal mounting shelf type 1026 model 6, wiring diagram (sheet 2 of 4).

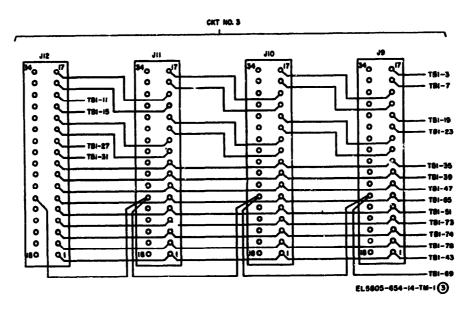


Figure 3-19. Universal mounting shelf type 1026 model 6, wiring diagram (sheet 3 of 4).

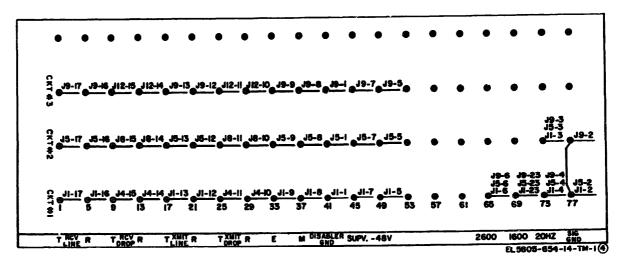


Figure 3-1 . Universal mounting shelf type 1026 model 6, wiring diagram (sheet 4 of 4).

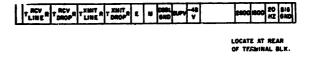




Figure 3-2. Universal mounting shelf type 1026 model 6, terminal block identification.

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.

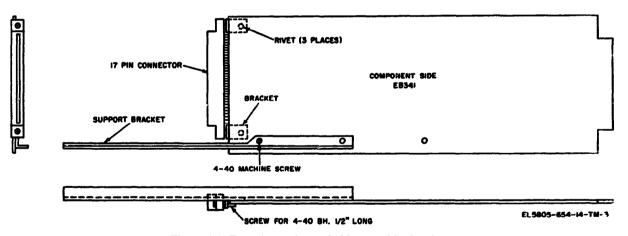


Figure 4-1. Extender card type 2128, assembly drawing.

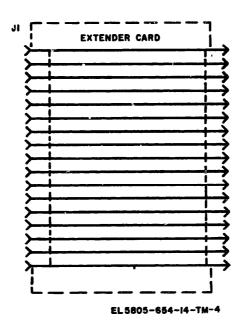


Figure 4-2. Extender card type 2128, schematic diagram.

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 Treat-
	ment.
TB SIG 746-10	Field Instructions for Painting and Preserving Electronics Command
	Equipment.
TM 38-750	The Army Maintenance Management Systems (TAMMS).

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 fun&ions). 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 identify the item. The last line indicates the reference number followed by the applicable Federal Supply Code for Manufacturer (FSCM) is parentheses. The FSCM is used as an element is item identification to designate manufacture 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 iten 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 tha will satisfy the required units of measure will be requisitioned.

e. Quantity Incorporated in Unit. Indicate the quantity of the item used in the breakou shown on the illustration figure, which is propared for a functional group, subfunctions group, or an assembly. Subsequent appearance of the same item in the same assembly are indicated by the letters "REF."

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

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

h. Depot Maintenance Allowances Per 10 Equipments. This column indicates that th items identified with an asterisk are authorize to be requisitioned as required.

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 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-referen indexes (sec VIII and IX) to be used to locate repair part when either the Federal sto number, reference number (manufacturer part number), or reference designation 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)

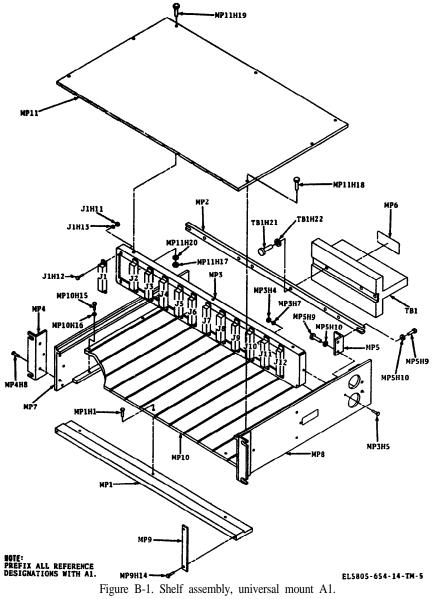
(Next printed page is B-5)

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

(1)	FEBERAL	(3) DESCRIPTION	(4) UNIT OF	(6) QTY MC	38-D	(B) AY OS A LLEWAR	AAINT ICE	38 D	(7) AY GS A LLOWAR	EAINT ICE	(0) 1 YR ALW	(\$) DEPOT MAINT	(10) ILLUSTRATIONS		
COOR	STOCK QUARSER	DESCRIPTION USABLE ON REFERENCE NUMBER & MFR CODE CODE	MEAS	UNIT	(a) 1 28	(b) 21 50	(e) 51 100	(a) 1 20	(b) 21 50	(e) S1 1 00	PER EQUIP CHTGEY	ALW PER 189	(A) FIG NO	(b) ITEM NO OR REFERENCE DESIGNATION	
		GROUP 01 shelf assem ly universal mount 1026-6						1					8-1	A1	
FZZ		BAR , FRONT PANEL FASTENING 760-3-12 (88183)	EA	1									B1	Almpi	
FZ 1	: 5305-054-5649	SCREW.MACHINE MS51957-15 (96906)	EA	7	•	٠	•	•	٠	•		٠	8-1	A1MP1H1	
22		BAR, TERMINAL BOARD MOUNTING	EA	1									8-1	Almpz	
71	: 5305-050-9229	SCREW, MACHINE MS51957-63 (96906)	EA	5	•	•	•	•	٠	•		•	8-1	A1MPZH2	
zz	5310-595-6772	WASHER, FLAT MS15795-808 (96906)	EA	2	•	•	•	•	•	•		•	8-1	AL PP2H3	
F2 2		BRACKET, CONNECTOR MOUNTING 740-3-13 (88183)	EA	1									8-1	A1MP3	
FZZ	5310-934-9761	MUT, PLA IN .HE XAGON MS35649-264 (96906)	EA	8	•	•	٠	•	•	•		•	8-1	A1MP3H4	
FEZ	5305-054-6652	SCREW, MACHINE MS51997-28 (96906)	EA	•	•	•	•	•	•	•		•	6-1	ALMP3H5	
FZZ	5305-054-6654	SCREW, MACHINE MS51957-30 (96906)	EA	۰	•	•	•	•	•	•		•	8-1	A1893H6	
FZZ	5310-579-0079	WASHER, LOCK MS35333-37 (96906)	EA	10	•	•	•	•	•	•		•	8-1	A1MP3H7	
FZZ		BRACKET.MOUNTING 1026-3-11 (88183)	EA	2		İ			j				8-1	A1HP4	
FLI	5305-054-6650	SCREW, MACHINE MS51957-26 (96906)	EA	ه	•	•	•	•	•	•		•	B-1	ALHP4H8	
FZZ		BRACKET, TERMINAL BOARD MTG 1026-3-12 (88183)	EA	2		ŀ						ļ	8-1	ALMP5	
FZZ	5305-054-5649	SCREW. MACHINE MS51957-15 (96906)	EA	١	•	•	•	•	•	•		•	8-1	AL RPSH9	
FZZ	5310-559-0070	WASHER, LOCK MS35333-38 (96906)	EA	١ ٠	•	•	•	•	•	•			8-1	AT M62HTO	
AFZ Z		COMMECTOR .ELECTRIC CARD EDGE K600-100-34MA (95238)	EA	12	•	•	•	•	•	•		•	8-1	A1.J1	
FZZ	5310-934-9748	NUT.PLAIN.HEXAGON MS35649-244 (96906)	EA	2	•	١.	•	•	•	•		•	8-1	ALJIHII	
FZZ	5305-054-5651	SCREM,MACHINE MS51957-17 (96906)	EA	2	•	•	•	•	•	•		•	8-1	ALJLH12	
FZZ	5310-193-7577	WASHER, LOCK MS35333-36 (96906)	EA	4	•	•	•	•	•	•		•	8-1	ALJIH13	
AFZ Z		CUNNECTOR ELECTRIC CARD EDGE K600-100-34MA (95238)	EA	REF	•	•	•	•	•	•		•	8-1	A1J2	
FZ Z		COMMECTOR, ELECTRIC CARD EDGE K600-100-34MA (95238)	EA	REF	•	•	•	1.	•	•			8-1	A1J3	
FZZ		CONNECTOR ELECTRIC CARD EDGE K600-100-34MA (95238)	EA	REF	•		•	•		•		•	B-1	A1J4	
FZ Z		CONNECTOR.ELECTRIC CARD EDGE K600-100-34WA (95238)	EA	REF	•		•	•		•		•	8-1	A1 J5	
FZZ		CONNECTOR, ELECTRIC CARD EDGE K600-100-34WA (95238)	EA	REI	•	•	•	•	•	•		•	8-1	6L 1A	
FZZ		CONNECTOR.ELECTRIC CARD EDGE K600-100-34MA (95238)	EA	REI	•	•	•	•	*			•	B-1	ALJ7	
FZ Z		CONNECTOR, ELECTRIC CARD EDGE K600-100-34WA (95238)	EA	REI	•	. •	•	•	•	•		•	8-1	8L 1A	
FZ Z		CONNECTOR, ELECTRIC CARD EDGE K600-100-34WA (95238)	EA	REI	•	•	•			•		•	8-1	9L [A	
FZZ		CONNECTOR, ELECTRIC CARD EDGE K600-100-34WA (95238)	EA	RE	•	•	•	•	•	•		•	B-1	A1 J10	
AFZ Z		CONNECTOR, ELECTRIC CARD EDGE K600-100-34WA (95238)	EA	REI									B-1	ALJII	

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

(3)	(2)	C) i			(5) (6)				(7)		•		(8)	(9)		(16)
SMR EODE	FEDERAL STOCK NUMBER	DESCRIPTION	SE MEAS	OTY ME	20 A	LLOSSA	MAINT NGE	30-0 A	Trosavi	MAINT	ALT PER EQUIP CNTBCY	DEPOT MAINT ALW	4)	ILLUSTRATIONS (b) ITEM RO		
	<u> </u>	WELEKUCE ANABEK 9 MEN CODE CODE REPUBLICANO CODE REPUBLICANO CODE		THE	35	8) 21-68	(c) 51 100	(a) 1 28	21 40 D)	(c) 51 188	CM18CA	PER 190	35.8	OR REFERENCE RESIGNATION		
PAFZZ	1	CONNECTOR, ELECTRIC CARD EDGE K600-100-34WA (95238)	EA	REF	•	•	*	•	•	•		•	8-1	A1 J12		
MFFZZ		DECALCOMANIA, UNI VERSAL SHELF 5-0971 (88183)	EA	1							İ		8-1	A1MP6		
X8FZZ		PAMEL-LEFT SIDE 5-0929-03 (88183)	EA	١.									B-1	A1MP7		
KBFZZ		PANEL -R IGHT SIDE 5-0930-4 (88183)	EA	1									8-1	Almp8		
MFFZZ		PLATE, FRONT 5-0955 (88183)	EA	2									8-1	A1MP9		
PAFZZ	5305-054-5647	SCREW. MACHINE MS51957-13 (96906)	EA	٠	•	•	•	•	•	•		•	8-1	A1MP9H14		
KBFZZ		STRIP,807TOM GUIDE 1926-4-05 (88163)	EA	1									8-1	Almplo		
PAFZZ	5305-054-6650	SCREW.MACHINE MS51957-26 (96906)	EA	4	•		•	•		•		•	8-1	AlmPloH15		
PAFZZ	5310-579-0079	KASHER.LOCK MS35333-37 (96906)	EA	4			•	•	•			•	8-1	AlmPloHL6		
COFZZ		STRIP, TOP GUIDE 1026-4-06 (88183)	FA	L									8-1	Almpl1		
PAFZZ	5310-934-9061	NUT-PLAIN-HE XAGON NS35649-264 (96906)	EA	4	•	•	•	•	•			٠	B-1	A1MP11H17		
PAFZZ	5305-054-6652	SCREM-MACHINE MS51957-28 (96906)	EA	4	•		•		•		}	•	8-1	Almplinis		
PAFZZ	5305-054-6654	SCREW.MACHINE MS51957-30 (96906)	EA	3	•		•		•			٠	8-1	Almpiihi9		
PAFZZ	5310-579-0079	MASHER (LOCK MS35333-37 (96906)	EA	4	•	٠	•	•	•				B-1	A18P11H2O		
PAFZZ	5940-798-0737	TERMINAL BLOCK	EA	1	•		٠	•	•				8-1	A1781		
AFZZ	5305-050-9929	PJ104 (70674) SCREW_MACHINE	EA	3			•	•	•				B-1	A1 T81H21		
PAFZZ	5310-576-5752	MS51957-63 (96906) MASHER.LOCK MS35333-39 (96906)	EA	3	•	•	•	•	•	•		•	B-1	A1781H22		
		GROUP: 02 EXTENDER CARD ASSEMBLY NRC2128	1	1 1									1			
AFZZ		BRACKET.CONNECTOR MOUNTING	EA	2									8-2	A2RP1		
AFZZ		9-1219 (88183) BRACKET,UNIT SUPPORT	EA	1									B-2	AZMPZ		
AFZZ	5305-054-5647	9-1221 (88183) SCREW,MACHINE	EA	1	•				•				8-2	A2MP2H1		
AFZZ	5935-828-4151	MS51957-13 (96906) COMMECTOR, ELECTRIC	EA	1									8-2	A2J1		
AFZZ	5305-054-5651	600-121-17XA (95238) SCREW-MACHINE	EA	2	•			•	•	٠			B-2	A2J1H2		
AFZZ	5310-550-3715	MSS1957-17 (96906)	EA	2					•	٠			8-2	EHILSA		
AFZZ		MS35333-70 (96906) PRINTED WIRING BOARD	EA										اء_2	AZEL		
_		9-1222 (88183)	J													



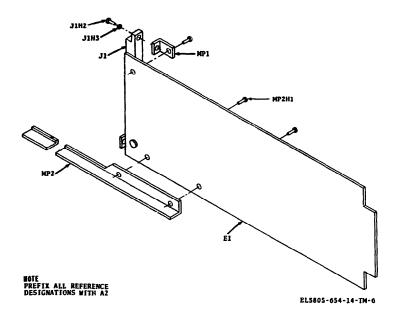


Figure B-2. Extender card assembly A2.

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

STOCK NUMBER		FIG REF NO DES	STOCK NUMBER		FIG REF. NO. DES.
5305-050-9229		B-1 A1MP2H2 B-1 A1TB1H21	5310-193-7577 5310-550-3715		B-1 A1J1H13 B-2 A2J1H3
5305-054-5647		B-1 A1MP9H14 B-2 A2MP2H1	5310-559-0070 5310-576-5752		B-1 A1MP5H10 B-1 A1TB1H22
5305-054-5649		8-1 A1MP1H1 B-1 A1MP5H9	5310-579-0079		B-1 A1MP3H7 B-1 A1MP10H16
5305-054-5651		B-1 A1J1H12 B-2 A2J1H2	5310-595-6772		B-1 A1MP11H20
5305-054-6650		8-1 A1MP4H8 8-1 A1MP10H15	5310-393-0772 5310-934-9061 5310-934-9748		B-1 A1MP2H3 B-1 A1MP11H17 B-1 A1J1H11
5305-054-6652		B-1 A1MP3H5 B-1 A1MP11H18	5310-934-9761 5310-934-9761 5935-828-4151		B-1 A1MP3H4 B-2 A2J1
5305-054-6654		B-1 A1MP3H6 B-1 A1MP11H19	5940-798-0737		B-1 AITBI
REFERENCE NO.	MFR CODE	FIG REF	REFERENCE NO	MFR CODE	FIG REF. NO. DES
K600-100-34WA	95238	B-1 A1J1	MS51957-17	96906	8-1 A1J1H12
		B-1 A1J2 B-1 A1J3	MS51957-26	96906	B-2 A2J1H2 B-1 A1MP4H8
		B-1 A1J4 B-1 A1J5	MS51957-28	96906	B-1 A1MP10H15 B-1 A1MP3H5
		B-1 A1J6 B-1 A1J7	MS51957-30	96906	B-1 A1MP11H18 B-1 A1MP3H6
		B-1 A1J8 B-1 A1J9	MS51957-63	96906	B-1 A1MP11H19 B-1 A1MP2H2
		B-1 A1J10 B-1 A1J11	PJ104	70674	B-1 A1TB1H21 B-1 A1TB1
MS15795-808	96906	B-1 A1J12 B-1 A1MP2H3	1026-3-11 1026-3-12	88183 88183	B-1 A1MP4 B-1 A1MP5
MS35333-36 MS35333-37	96906 96906	B-1 Aljihi3 B-1 Almp3h7	1026-4-05 1026-4-06	88183 88183	B-1 A1MP10 B-1 A1MP11
		B-1 A1MP10H16 B-1 A1MP11H20	1026-4-07 1026-6	88183 88183	B-1 A1MP2 B-1 A1
MS35333-38 MS35333-39	96906 96906	B-1 A1MP5H10 B-1 A1TB1H22	5-0929-03 5-0930 -4	88183 88183	B-1 A1MP7 B-1 A1MP8
MS35333-70 MS35649-244	96906 96906	B-2 A2J1H3 B-1 A1J1H11	5-0955 5-0971	88183 88183	B-1 A1MP9 B-1 A1MP6
MS35649-264	96906	B-1 A1MP3H4 B-1 A1MP11H17	600-121-17XA 760-3-12	95238 88183	B-2 A2J1 B-1 A1MP1
MS51957-13	96906	B-1 A1MP9H14 B-2 A2MP2H1	760-3-13 9-1219	88183 88183	B-1 A1MP3 B-2 A2MP1
MS51957-15	96906	B-1 A1MP1H1 B-1 A1MP5H9	9-1221 9-1222	88183 88183	B-2 A2MP2 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	B-6	A1MP5H10	B-5
A1J1	8-5	A1MP10H16	₿ ~6	A1MP5H9	B-5
A1J1H11	8-5	A1MP11	8-6	A1MP6	8-6
A1J1H12	8-5	A1MP11H17	8-6	A1MP7	B-6
A1J1H13	8-5	A1MP11H18	8 -6	A1MP8	B-6
A1J10	8-5	A1MP11H19	B-6	A1MP9	8-6
A1J11	8-5	A1MP11H20	8-6	A1MP9H14	B-6
A1J12	8-5	A1MP2	B-5	A1TB1	B-6
A1J2	8-5	A1MP2H2	8-5	A1TB1H21	B-6
A1J3	8-5	A1MP2H3	B-5	A1TB1H22	B-6
A1J4	8-5	A1MP3	8-5	A2	B-6
A1J5	8-5	A1MP3H4	8-5	A2E1	B-6
A1J6	8-5	A1MP3H5	B-5	A2J1	B-6
A1J7	8~5	A1MP3H6	8-5	AŽJ1H2	8-6
A1J8	8-5	A1MP3H7	B-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	B-6
A1MP10	8-6	1111111 5	9-3	721VII 2111	5-0

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 authorizer 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
0	Organizational
F	Direct support
Н	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.

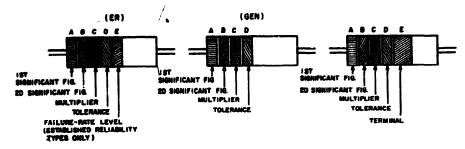
MAINTENANCE ALLOCATION CHART

(I) GROUP	(2) FUNCTIONAL GROUP				M	AINTE	(3) NANCE	FUNC	TION	5			(4) TOOLS AND	(5) REMARKS
NUMBER	COMPONENT ASSEMBLY NOMENCLATURE	INSPECT	TEST	SERVICE	ADJUST	ALIGN	CALIBRATE	INSTALL	REPLACE	REPAIR	OVERHAUL	REBUILD	EQUIPMENT	
0 1	SHELF ASSEMBLY UNIVERSAL MOUNT 1026-6									F 1.0			1,2	See note.
0 2	EXTENDER CARD ASSEMBLY NRC2128									F 0.4			1,2	
		<u>.</u>				<u>.</u>								
										ļ				
							ĺ	l		ļ				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.

KS			
ì			
(F) main-			
(F) main- ions for uipment , will be FF-SITE nce and y, AMSF)			
y, AMSF)			

TABLE 1. TOOL AND TEST EQUIPMENT REQUIREMENTS

TOOLS AND	MAINTENANCE CATEGORY	NOMENCLATURE	FEDERAL STOCK NUMBER	TOOL NUMBER
1	F	MULTIMETER AN/USM-213	6625-019-0815	
2	F	TOOL KIT TK-105/G	5180-610-8177	



COLOR CODE MARKING FOR COMPOSITION TYPE RESISTORS

COLOR-CODE MARKING FOR FILM-TYPE RESISTORS

COLOR COOF FOR COMPOSITION TYPE AND FILM TYPE RESISTORS.

BAN	A CHAS			BAN	DC	B	AND D		BAND E	
COLOR	FIRST SIGNIFICANT FIGURE	COLOR	SECONO SIGNIFICANT FIGURE	COLOR	MULTIPLIER	COLOR	RESISTANCE TOLERANCE (PERCENT)	COLOR	FAILURE RATE LEVEL	TERM
BLACK BROWN MED GRAMME VELLOW GREEN BLUE PURPLE FUNDLET) GRAY WHITE	0 1 2 3 4 5 6 7	BLACK BROWN RED OR AMBE YELLOW GREEN GREEN GRAY WHITE	0 1 2 3 4 3 6 7	BLACK BROWN RED ORANGE YELLOW GREEN BLUE SILYER GOLD	1000 0000 0000,000 0000,000 000,0000,00	SILVER GOLD RED	±IO (COMP TYPE ONLY) ±5 ±2 (NOT AP- PLICABLE TO ESTABLISHED RELIABILITY)	BROWN RED ORANGE YZLLOW WHITE	M=1 0 P=0 1 R=0.01 S=0 001	SOLD- ER3BLI

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

BAND 8 - 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 MOMINIAL RESISTANCE VALUE)

SAND D - THE RESISTANCE TOLERANCE

SAND 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-V2 TIMES THE WIDTH OF OTHER BANDS, AND INDICATES TYPE OF TERMINAL

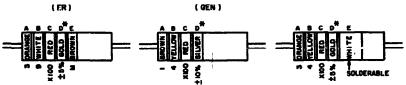
RESISTANCES IDENTIFIED BY NUMBERS AND LETTERS

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 | IORO = 10 0 OHMS /

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

EXAMPLES OF COLOR CODING



NOMINAL RESISTANCE 3,900 OHMS RESISTANCE TOLERANCE ±5%, FAILURE RATE LEVEL M

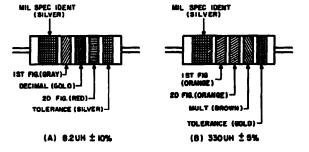
NOMINAL RESISTANCE 1,400 OHMS PESISTANCE TOLERANCE ±10%

RESISTANCE TOLERANCE 45% TERMINAL SOLDERABLE

COMPOSITION-TYPE RESISTORS

IF MAND D IS OMITTED, THE RESISTOR TOLERANCE IS ± 20% AND THE RESISTOR IS NOT MIL-STO.

A COLOR CODE MARKING FOR MILITARY STANDARD RESISTORS



COLOR CODING FOR TUBULAR ENCAPSULATED R.F. CHOKES. AT A, AR EXAMPLE OF OF THE CODING FOR AN 82UH CHOKE IS GIVEN AT B, THE COLOR SANDS FOR A 330 UH INDUCTOR ARE ILLUSTRATED

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

COLOR	SIGNI- FICANT FIGURE	MULTIPLIER	INDUCTANCE TOLERANCE (PERCENT)		
BLACK	0				
BROWN	-	10	J		
RED	2	100	2		
ORANGE	3	1,000	3		
YELLOW	4				
GREEN	5				
BLUE	•				
VIOLET	7				
GRAY	8_				
WHITE	•				
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.

B COLOR CODE MARKING FOR MILITARY STANDARD INDUCTORS.

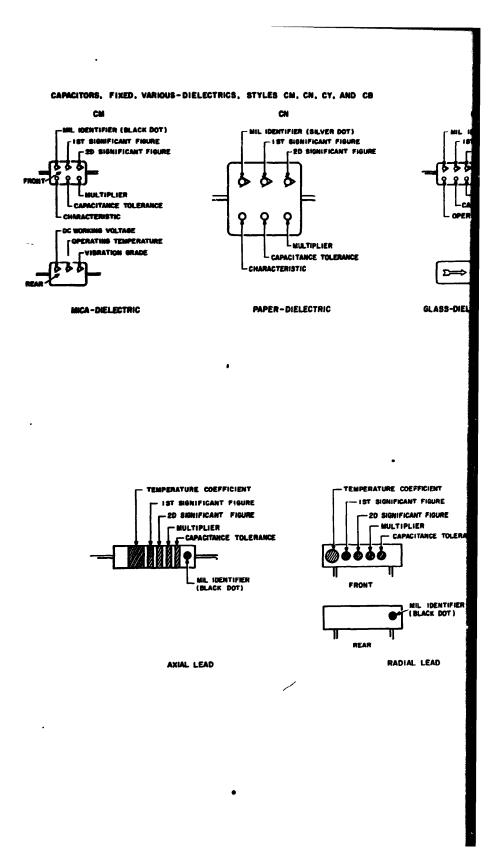
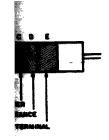


Figure FO-1. Color code marking for MIL STD resistors, inductors, and capacitors.



MARKING FOR FILM-

Erab.	BAND E	
COLOR	PAILURE RATE LEVEL	TERM.
BROWN RED GRAMOE YELLOW WHITE	M=1 0 P=0.1 R=0.04 S=0.001	SOLD- ERABLE

MIL SPEC IDENT (SILVER) IST PIG (GRAY)-IST FIG DECIMAL (GOLD)-20 FIG. (RED) MULT (BROWN) TOLERANCE (SILVER)-TOLERANCE (GOLD) (A) 82UH ± 10% (B) 330UH ± 5%

COLOR CODING FOR TUBULAR ENCAPSULATED R.F. CHOKES. AT A, AN EXAMPLE OF OF THE CODING FOR AN 8-2UH CHOKE IS GIVEN AT 8, THE COLOR BANDS FOR A 330 UH INDUCTOR ARE ILLUSTRATED

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

COLOR	SIGNI- FICANT FIGURE	MULTIPLIER	TOLERANCE (PERCENT)
BLACK	0	1	
BROWN	1	10	1
RED	2	100	2
ORANSE	3	1,000	3
YELLOW	4		
GREEN	5		
BLUE			
VIOLET	7		
GRAY	•		
WHITE	•		
HONE			20
SILVER			10
GOLD	DECIMAL	POINT	5

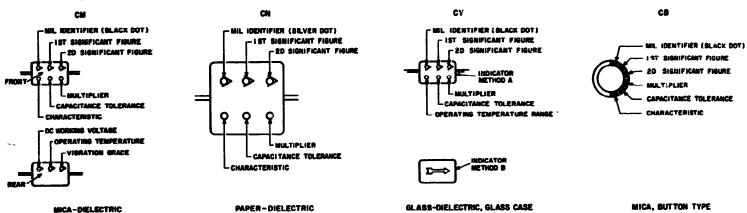
MULTIPLIER IS THE FACTOR BY WHICH THE TWO COLOR FIGURES ARE MULTIPLIED TO OSTAIN THE INDUCTANCE VALUE OF THE CHOKE COIL

FANCE TOLERANCE 15%

TYPE RESISTORS R 15 NOT MIL-STD.

B. COLOR CODE MARKING FOR MILITARY STANDARD INDUCTORS.

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



- TEMPERATURE COEFFICIENT - IST SIGNIFICANT FIGURE

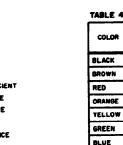
-- 20 SIGNIFICANT FIGURE

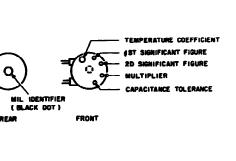
CAPACITANCE TOLERANCE

MIL IDENTIFIER (BLACK DOT)

RADIAL LEAD

- MULTIPLIER





REAR

DISK - TYPE

C COLOR CODE MARKING FOR MILITARY STANDARD CAPACITORS

TABLE 3 - FOR USE WITH STYLES CM, CM,

COLOR	MIL	18T 816	2D 846	MULTIPLIER	CAPAC	1
	שנ	FIS	FIG		CM	ď
LACK	CH, CY	0	0	1		
ROWN		1	1	10		
69		2	2	100	22%	3
PANGE		3	3	1,000		2
PELLOW		4	4	10,000		
REEN		5	5		10%	
LUE		6	6	l		
VIOLET)		7	7			No.
RAY		•				
WHITE		•	•			
30L0				01		
SILVER	CN		Г	0.01	±10%	Ī

TABLE 4 - TEMPERATURE COMPENSATING

COLOR	TEMPERATURE COEFFICIENT	316 F16.	20 S	MULTIPLE
BLACK	0	0	0	ı
BROWN	-30	3	-	10
RED	-80	2	2	100
ORANGE	150	3	3	1,000
TELLOW	-220	4	4	
GREEN	-330	5	5	
BLUE	-470	6	6	
PURPLE (VIOLET)	-750	7	7	
GRAY		8	8	0.0
WHITE		9	9	01
GOLD	+100			01
SILVER				00

- L THE MULTIPLIER IS THE NUMBER BY WHICH THE CAPACITANCE IN UUF
- 2 LETTERS INDICATE THE CHARACTERISTICS DEL MIL-C-25D, MIL-C-11272B, AND MIL-C-10
- 3 LETTERS INDICATE THE TEMPERATURE RA
- 4 TEMPERATURE COEFFICIENT IN PARTS PER
- # GPTIONAL CODING WHERE METALLIC PIGMEN

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

TEMPERATURE COEFFICIENT

- MULTIPLIER

AXIAL LEAD

IST SIGNIFICANT FIGURE

- CAPACITANCE TOLERANCE

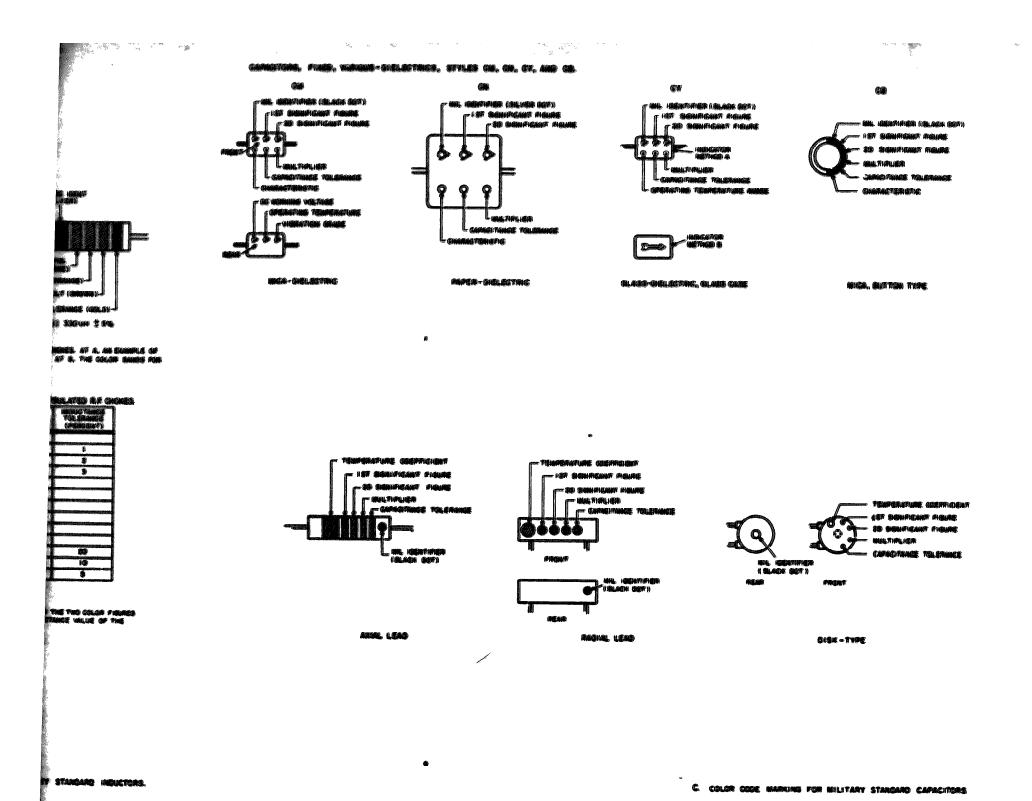


Figure FO-1. Color code marking for MIL STD resistors, inductors, and capacitors.

THRLE 3 - FOR USE WITH STYLES CO., CO., CY 400 CO.

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TABLE 4 - TEMPERATURE COMPENSATING, STYLE CC

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COLD	#100			9 A		21000	100
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- I THE MULTIPLIER IS THE NUMBER BY WHICH THE THO SIGNIFICANT (SIG) FIGURES ARE SULTIPLIED TO OSTABLE THE CHRISTMANE IN USF
- 2 Letters indicate the characteristics designated in applicable specifications. Bil-c-9, Bil-c-1995, - 3 LETTERS INDICATE THE TEMPERATURE RANGE AND VOLTAGE-TEMPERATURE LIMITS DESIGNATED IN ML-G-HISISD
- 4 TEMPERATURE COEFFICIENT IN PARTS FOR MILLION FOR DEGREE CENTISPACE.
- * OPTIGNAL COURS WHERE SIETALLIC PICEENTS ARE UNSEEMABLE.

ESC-FM 912-72

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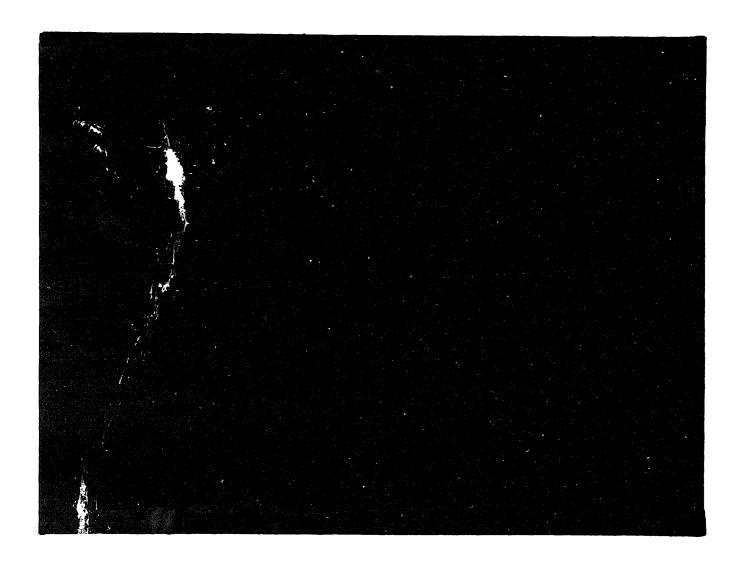


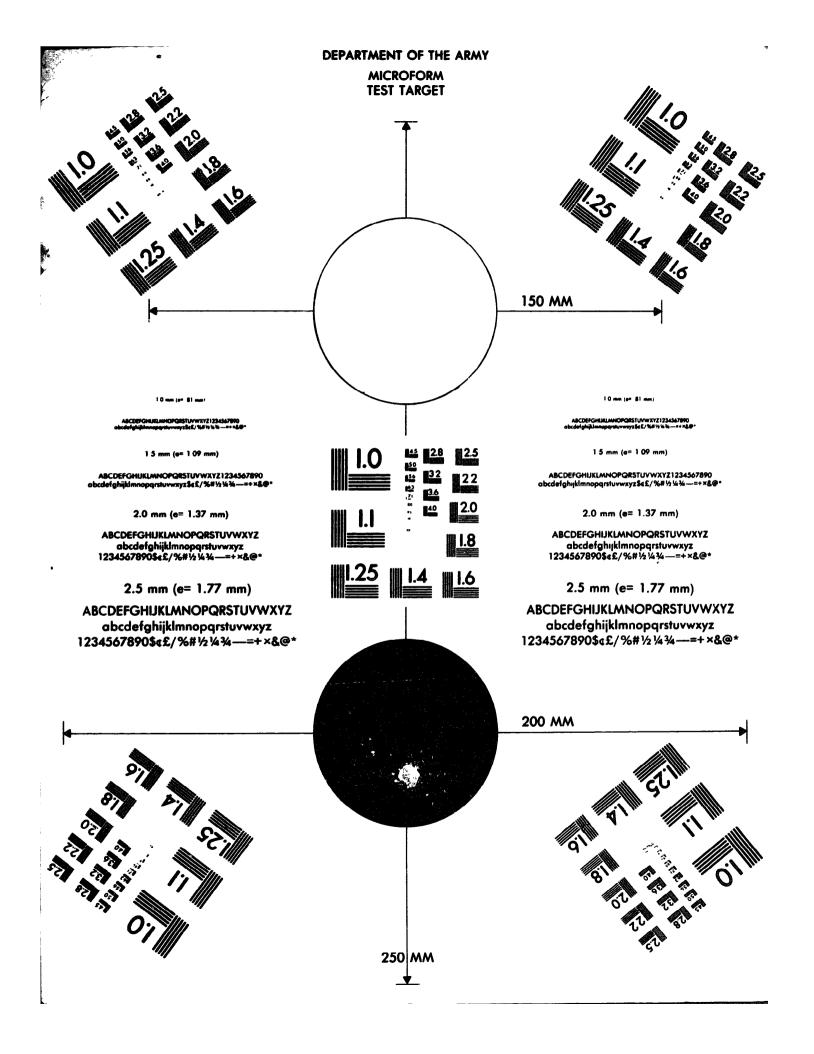
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