

TM 11-5820-503-24P

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**TECHNICAL MANUAL**

**ORGANIZATIONAL, DIRECT SUPPORT, AND  
GENERAL SUPPORT MAINTENANCE  
REPAIR PARTS AND SPECIAL TOOLS LISTS  
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)  
FOR  
CONVERTER, FREQUENCY,  
ELECTRONIC CV-823/U  
(NSN 5826-00-082-3334)**

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**HEADQUARTERS, DEPARTMENT OF THE ARMY**

**JULY 1977**

Technical Manual }  
 No. 11-5820-5508-24P }

**HEADQUARTERS  
 DEPARTMENT OF THE ARMY  
 WASHINGTON, DC, 7 July 1977**

**ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE  
 REPAIR PARTS AND SPECIAL TOOLS LISTS  
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 FOR  
 CONVERTER, FREQUENCY, ELECTRONIC CV-823/U  
 (NSN 5826-00-082-3334)**

*Current as of 6 March 1977*

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\* This manual supersedes TM 11-5820-503-20P, 21 May 1969 and TM 11-5820-503-35P, 4 June 1968.

## SECTION I INTRODUCTION

### 1. Scope

This manual lists spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of organizational, direct support, and general support maintenance of the CV-528/U. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

### 2. General

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

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

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

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

### 3. Explanation of Columns

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

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

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

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

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

Code	Definition
PA	Item procured and stocked for anticipated or known usage.
XD	A support item that is not stocked. When required, item will be procured through normal supply channels.

#### NOTE

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

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

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

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

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

Code	Application/Explanation
H	The lowest maintenance level capable of complete repair of the support item is the general support level.
D	The lowest maintenance level capable of complete repair of the support item is the depot level.
Z	Nonreparable. No repair is authorized.

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

Recoverability codes	Definition
Z	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
D	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.
L	Reparable item. Repair, condemnation, and disposal not authorized below depot/specialized repair activity level.

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

*d. Part Number.* Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its

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

**NOTE**

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

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

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

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

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

**4. Special Information**

The following publications pertain to the CV-828/U and its components:

TM 11-5820-503-12, Converter, Frequency, Electronic

CV-828/U

TM 11-5820-503-45, Converter, Frequency, Electronic

(Next printed page is 4)

**CV-828/U**

**5. How to Locate Repair Parts**

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

(1) *First.* Using the table of contents, determine the functional group within which the item belongs. This is necessary since illustrations are prepared for functional groups and listings are divided into the same groups.

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

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

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

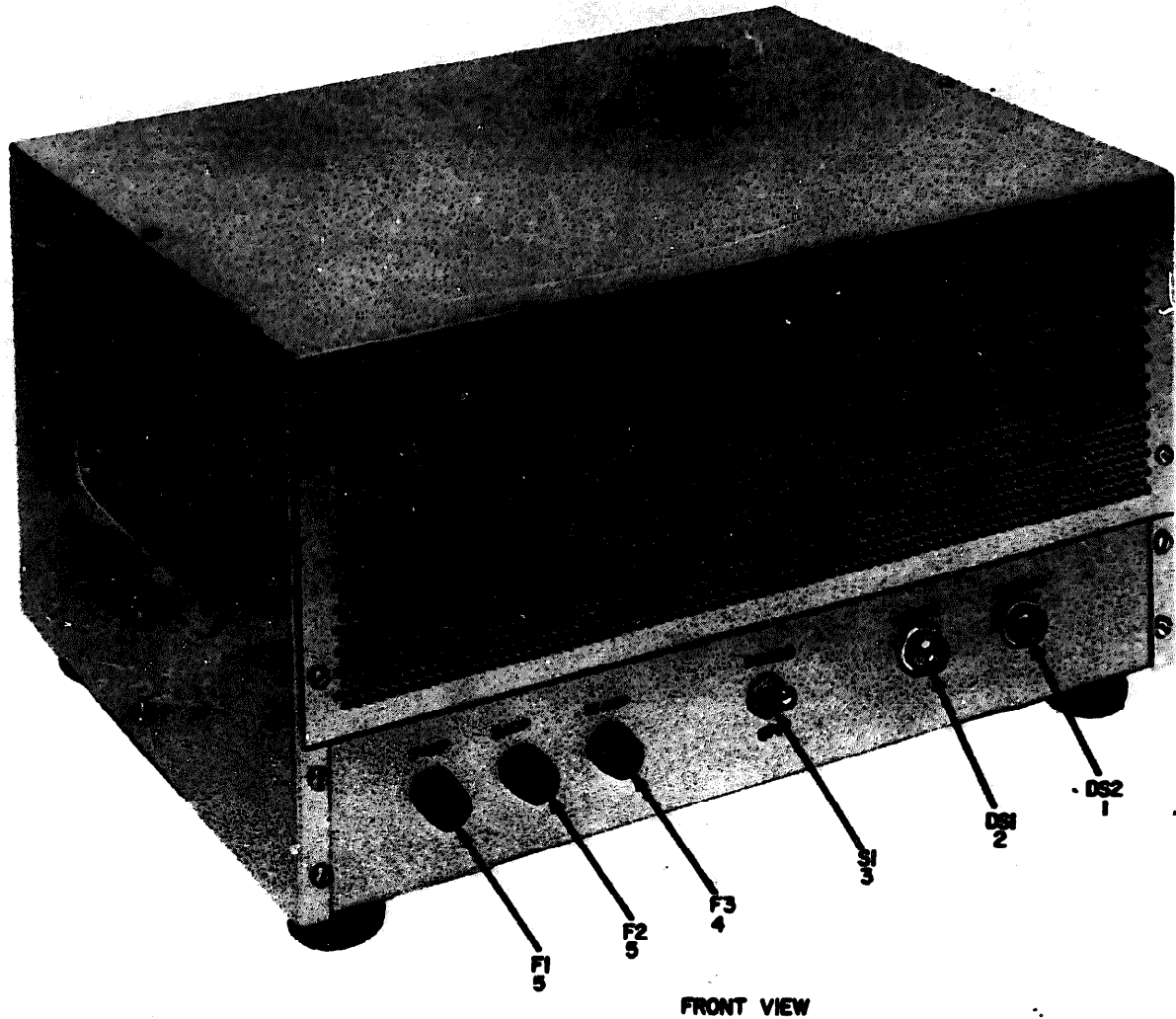
*b. When National stock number or part number is known.*

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

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

**6. Abbreviations**

Not applicable.



EL2F0001

Figure 1. Converter, Frequency, Electronic CV-823/U  
(Sheet 1 of 3).

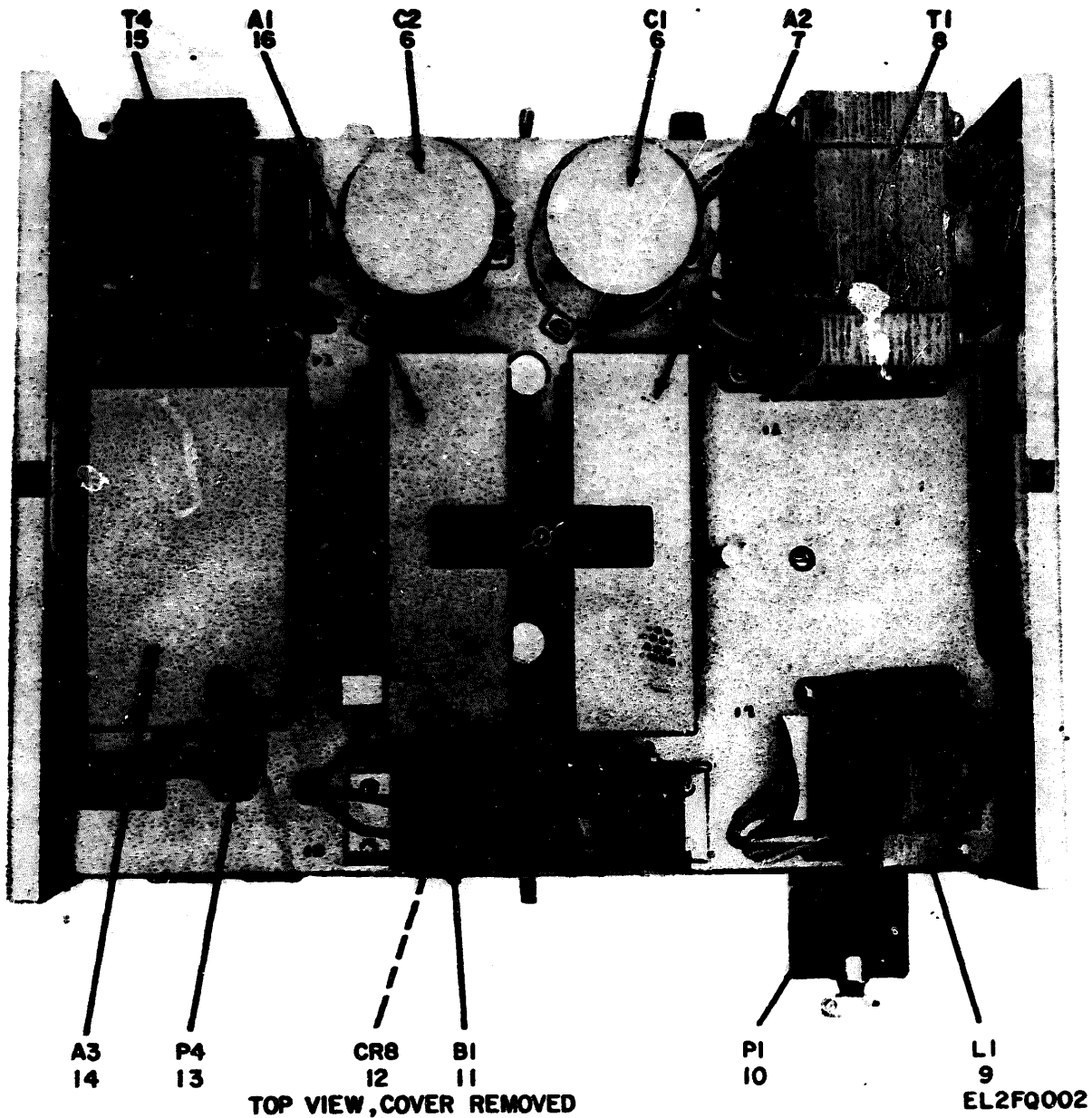


Figure 1. Converter, Frequency, Electronic CV-823/U (Sheet 2 of 3).

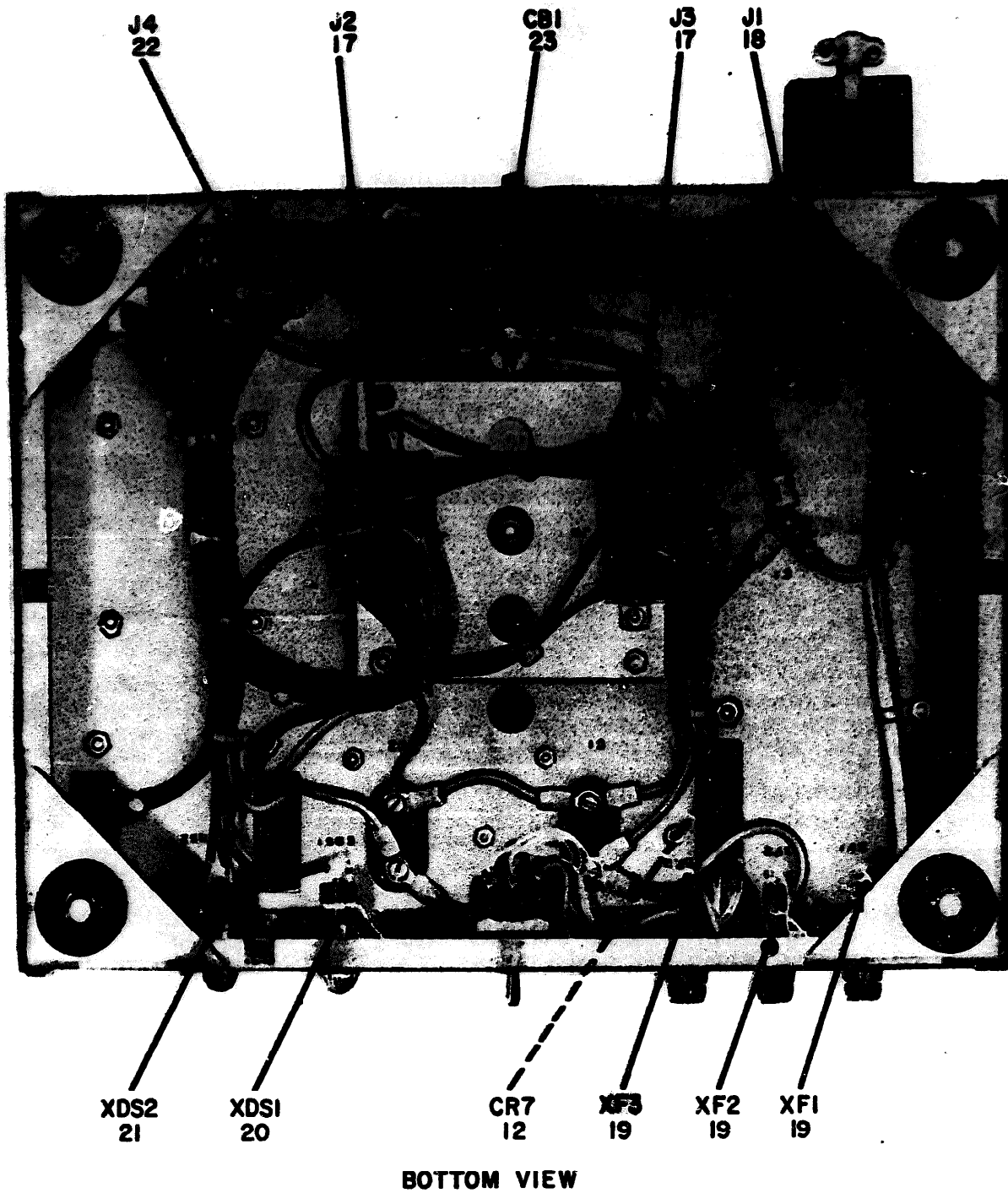


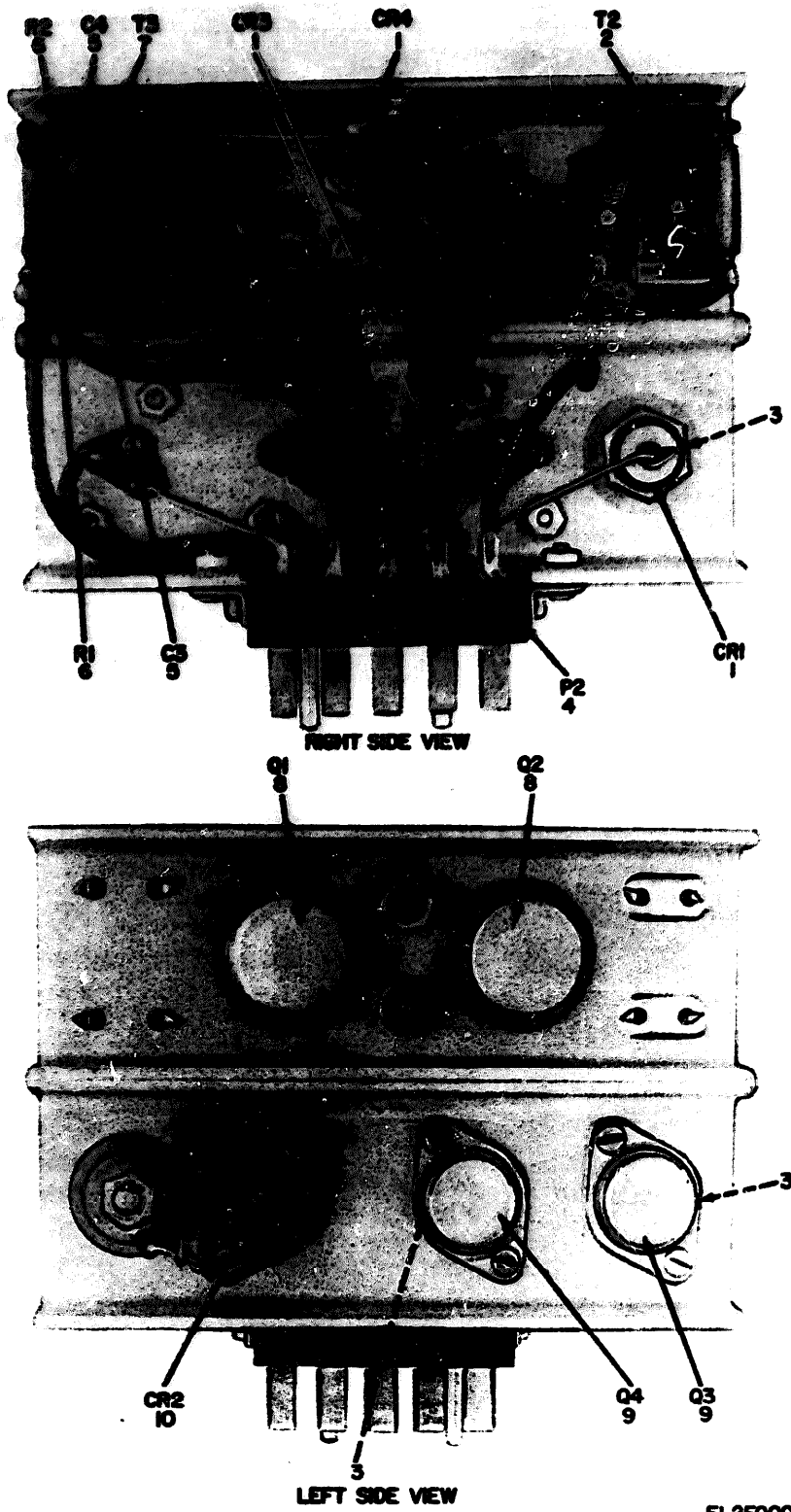
Figure 1. Converter, Frequency, Electronic CV-823/U (Sheet 3 of 3).

## SECTION II

TM11-5820-503-24P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
FIG NO.	ITEM NO.	QTY	NATIONAL STOCK NUMBER	PART NUMBER	FORM	DESCRIPTION	UNLABLE QTY CODE	QTY INC OR UNIT
						GROUP 00 CONVERTER, FREQUENCY, ELECTRONIC		
						CT-022/U		
1	1	PANZZ	6240-00-223-9100	NE-71	21200	LAMP, GLOW	EA	1
1	2	PANZZ	6240-00-189-8782	NE22220-1010	90004	LAMP, INCANDESCENT	EA	1
1	3	PANZZ	9230-00-829-9416	701512	17005	SWITCH, TROUBLE	EA	1
1	4	PANZZ	5928-00-581-61241	F0222V15A	01200	FUSE, CARTRIDGE	EA	1
1	5	PANZZ	5920-00-285-8484	F02215V3A	01200	FUSE, CARTRIDGE	EA	2
1	6	YHZZ		209-0123-02	00100	CAPACITOR, PWS	EA	2
1	7	PANND	6625-00-994-9820	42270	02002	RES, HEAT SINK ASSY	EA	1
1	8	YHZZ		41-32416	90004	TRANSFORMER, POWER	EA	1
1	9	YHZZ		70214	02002	REACTOR	EA	1
1	10	PANZZ	5935-00-231-8271	34000CT	71700	CONNECTOR, PLUG, ELEC	EA	1
1	11	PANZZ	4140-00-062-1132	2NE49405	00000	PAL, TUBULAR	EA	1
1	12	YHZZ		0222000004	00412	ABSORBER, OVV	EA	2
1	13	YHZZ		2000-002	71700	CONNECTOR, PLUG, ELEC	EA	1
1	14	PANND	5815-00-994-3871	42200	02002	PWS STANDARD ASSY	EA	1
1	15	PANZZ	9950-935-1887	70200	90004	TRANSFORMER, POWER	EA	1
1	16	PANND	6625-00-694-5927	42270	02002	HEAT SINK ASSY, SUB	EA	1
1	17	PANZZ	5935-00-258-9069	3-410-05	71700	CONNECTOR, RCPT, ELEC	EA	2
1	18	YHZZ		0-400-05	71700	CONNECTOR, RCPT, ELEC	EA	1
1	19	PANZZ	5920-00-292-9311	WHP	71400	FUSEHOLDER	EA	3
1	20	YHZZ		20410-000	00151	LAMPHOLDER	EA	1
1	21	PANZZ	6210-00-500-8853	20400-000-201K	00151	LAMPHOLDER	EA	1
1	22	PANZZ	5935-00-448-1685	2022	70200	CONNECTOR, RCPT, ELEC	EA	1
1	23	YHZZ		100015	70200	CIRCUIT BREAKER	EA	1

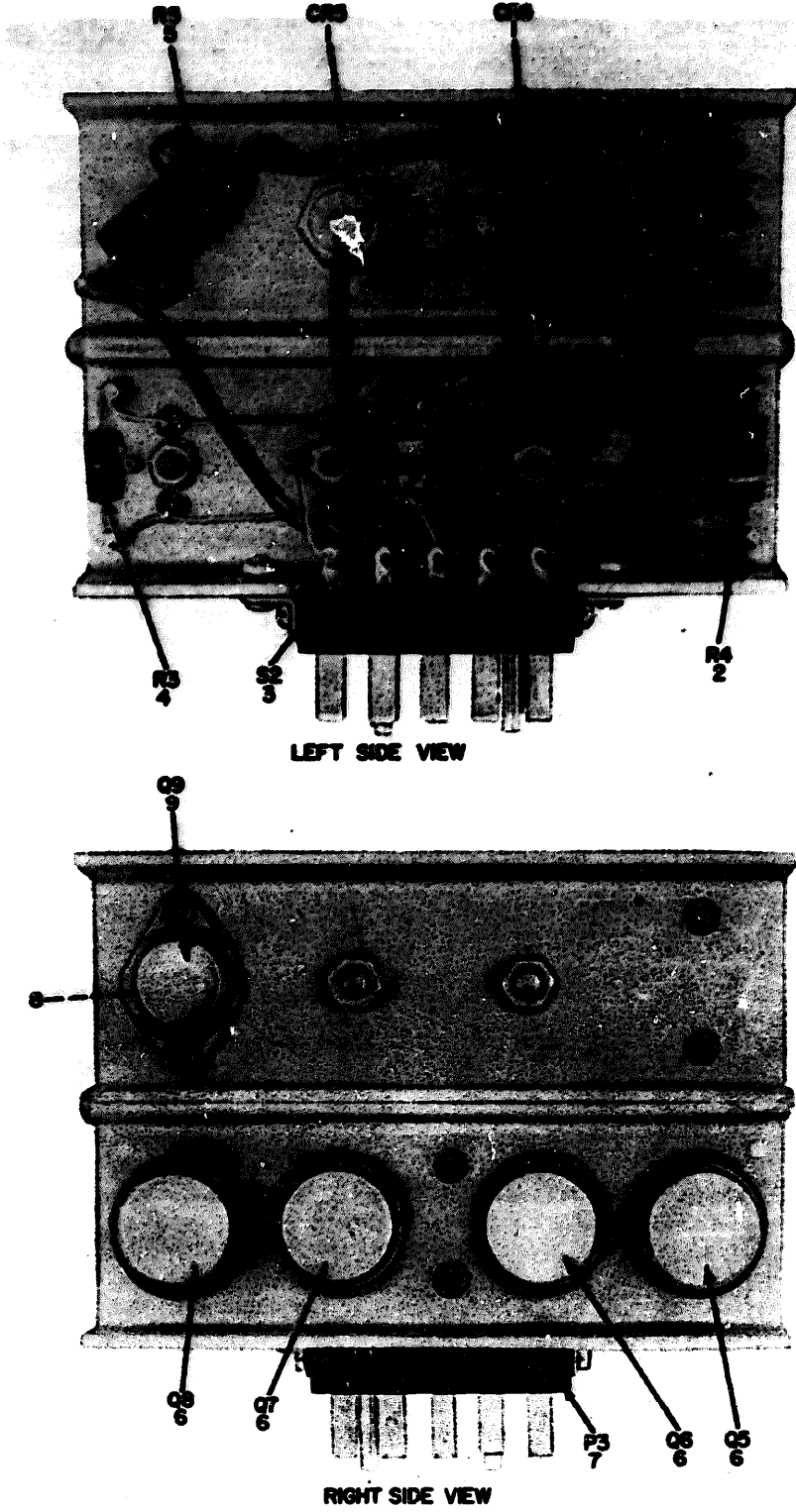




EL2FQ004

Figure 2. Switching Circuit, Heat Sink Assembly (A1).

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
QTY REQ NO.	QTY REQ NO.	QSR CODE	NATIONAL STOCK NUMBER	PART NUMBER	PCDN	UNLESS SH CODE	UOM	QTY REQ OR UNIT
						GROUP 02 SWITCHING CIRCUIT, HEAT SINK ASSEMBLY (A1)		
2	1	PANZZ	5961-00-082-3481	14220R	00211	DIODE, GEVCE	EA	3
2	2	IZZZ		P2250	90464	TRANSFORMER, POWER	EA	1
2	3	PANZZ	5935-00-593-8891	275-3	71765	SOCKET, SEMICON	EA	3
2	4	PANZZ	5935-00-383-7106	P-4100B	71763	CONNECTOR, PLUG, ELEC	EA	1
2	5	PANZZ	5910-00-584-7163	T0-710	20220	CAPACITOR, FIB, CER	EA	2
2	6	PANZZ	5905-00-190-8880	RC20CF122J	01349	RESISTOR, FIB, COMP	EA	2
2	7	IZZZ		P2250	90464	TRANSFORMER, POWER	EA	1
2	8	PANZZ	5961-00-993-3710	2N1919	16750	TRANSISTOR	EA	2
2	9	PANZZ	5961-00-931-6295	2N458A	01349	TRANSISTOR	EA	2
2	10	PANZZ	5961-00-665-3165	14221B	01349	DIODE, GEVCE	EA	1



EL2F0005

Figure 3. Regulator, Heat Sink Assembly (A2).

SECTION II

TM11-5820-503-24P

(1) ILLUSTRATION		(2) QTY REQ UNIT	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FORM	(6) DESCRIPTION	(7) QTY REQ UNIT	(8) QTY REQ UNIT
CD FIG NO.	CD ITEM NO.	QTY REQ UNIT	NATIONAL STOCK NUMBER	PART NUMBER	FORM	DESCRIPTION	QTY REQ UNIT	QTY REQ UNIT
GROUP 03 REGULATOR, HEAT SINK ASSEMBLY (A2)								
3	1		5961-00-950-8332	SHIELD	00211	SENSORND SOURCE, 000	EA	2
3	2		5925-00-279-3924	RC40F24LJ	01340	RESISTOR, FIB, COMP	EA	1
3	3			CATER-3-00	00214	SWITCH, THERMOSTATIC	EA	1
3	4		5985-00-104-8343	RC330100J5	01340	RESISTOR, FIB, COMP	EA	1
3	5			RM-9	01340	RESISTOR, FIB, 100	EA	1
3	6		5961-00-689-4318	2N441	01340	TRANSISTOR	EA	4
3	7		5925-00-269-7126	P-41040	71700	CONNECTOR, PLUG, SLAC	EA	1
3	8		5925-00-983-8881	2SD-9	71700	CONNECT, SENSORND	EA	1
3	9		5961-00-931-6395	2N500A	01340	TRANSISTOR	EA	1

SECTION IV

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**NATIONAL STOCK NUMBER AND PART NUMBER INDEX**  
**NOTE: LATEST NATIONAL STOCK NUMBER AND PART NUMBER ASSIGNMENTS ARE INCLUDED AT END OF INDEX**

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5961-00-082-3401	2	1	5961-00-685-6313	3	6
6240-00-155-6767	1	2	4148-00-842-1132	1	11
55905-00-190-8880	2	6	5920-00-682-8311	1	10
5935-00-231-8171	1	10	5961-00-451-62955	2	9
5830-259-9410	1	3	5961-00-951-6295	3	9
			5950-00-953-1805	1	15
			5961-00-959-3339	3	1
5935-00-448-1085	1	22	5961-00-993-5718	2	3
6210-00-500-0353	1	21	5935-00-593-8881	2	3
5920-00-501-6126	1	4	5935-00-993-8881	3	3
5920-00-583-8486	1	5	6625-00-994-5827	1	16
5961-00-665-3165	2	10	6625-00-994-5828	1	7
			5815-00-494-5871	1	14

	FSCN	FIG. NO.	ITEM NO.		FSCN	FIG. NO.	ITEM NO.
A1-32416	98664	1	8	S40CCCT	71785	1	10
G4786-2-38	98214	3	3				
MKP	71400	1	19	1N2821B	81349	2	10
MS25231-1819	96906	1	2	1N3209R	80211	2	1
				1N3211R	80211	3	1
				12RSK15	74193	1	23
				2N1519	16736	2	8
				2N441	81349	3	6
				2N458A	81349	2	9
KE-51	81349	1	1	2N458A	81349	3	9
P-408-A8	71785	1	18	27S-3	71785	2	3
P-410A8	71785	2	4	27S-3	71785	3	8
P-410A8	71785	3	7	42273	82092	1	16
P5258	98664	2	2	42279	82092	1	7
P5259	98664	2	7	42289	82092	1	14
P5260	98664	1	15	52408-991-561K	84151	1	21
P5314	82092	1	9	52410-993	86151	1	20
RM-9	81349	3	5	5252	74349	1	22
S-410-A8	71785	1	17	539-2923-02	80183	1	6
SNC434345	80063	1	11	6RS208P484	95412	1	12
S308-CCE	71785	1	13	7611K2	17465	1	3

**LATEST NATIONAL STOCK NUMBER ASSIGNMENTS**

STOCK NUMBER	FIGURE NO.	ITEM NO.
5905-00-104-8343	3	4
6240-00-223-9100	1	1
5935-00-258-9069	1	17
5905-00-279-1926	3	2
5935-00-283-706	2	4
5935-00-283-7106	3	7
5910-00-894-7163	2	5

**LATEST PART NUMBER ASSIGNMENTS**

PART NUMBER	FSCN	FIGURE NO.	ITEM NO.
F03B125V3A	81349	1	5
F02B32V15A	81349	1	4
RC20GF122J	81349	2	6
RC32G100JS	81349	3	4
RC42GF241J	81349	3	2
TG-P10	56269	2	5

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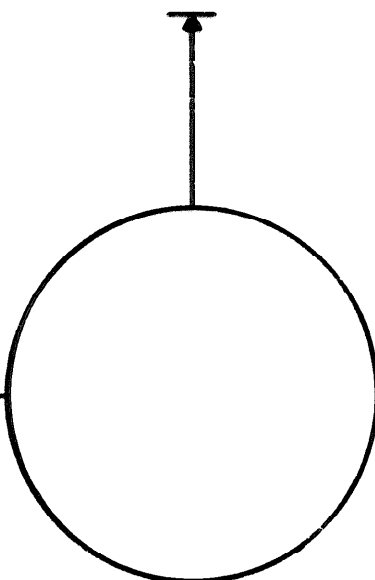
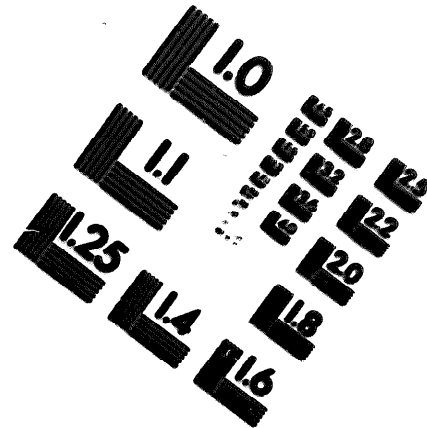
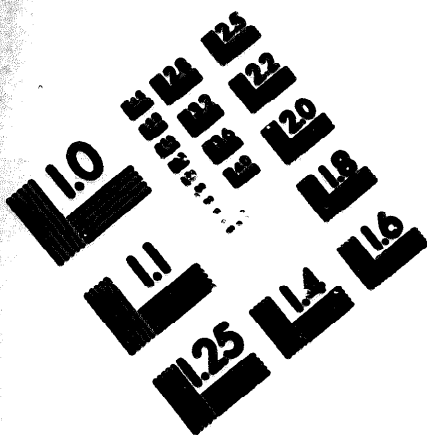
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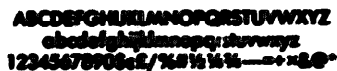
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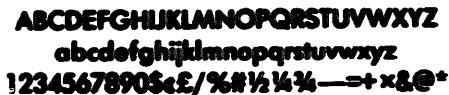
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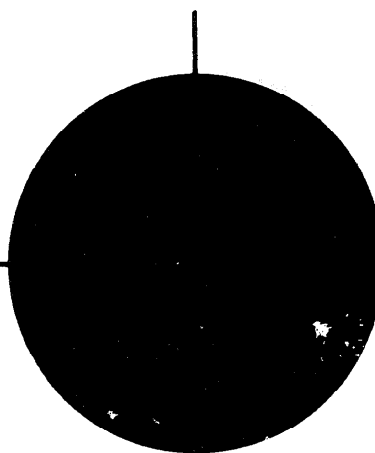
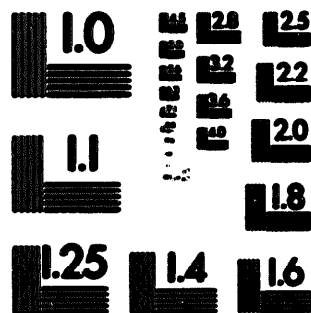
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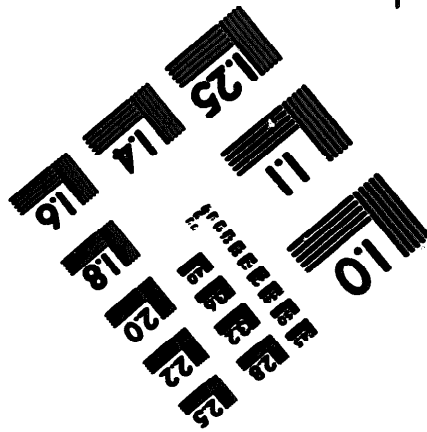
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FOLD BACK



RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL MANUALS



**SOMETHING WRONG WITH THIS MANUAL?**

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

FROM: (YOUR UNIT'S COMPLETE ADDRESS)

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

DATE 10 July 1975

PUBLICATION NUMBER TM 11-5840-340-12	DATE 23 Jan 74	TITLE Radar Set AN/SPS-76
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BE EXACT... PIN-POINT WHERE IT IS				IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.	
2-25	2-28			<p>Recommend that the installation antenna alignment procedure be changed throughout to specify a 2° IFF antenna lag rather than 1°.</p> <p>REASON: Experience has shown that with only a 1° lag, the antenna servo system is too sensitive to wind gusting in excess of 27 knots, and has a tendency to rapidly accelerate and decelerate as it hunts, causing strain to the drive train. Hunting is minimized by adjusting the lag to 2° without degradation of operation.</p>
3-10	3-3		3-1	<p>Item 5, Functions column. Change "2 db" to "3db."</p> <p>REASON: The adjustment procedure for the TRANS POWER FAULT indicator calls for a 3 db (500 watts) adjustment to light the TRANS POWER FAULT indicator.</p>
5-6	5-8			<p>Add new step f.1 to read, "Replace cover plate removed in step e.1, above."</p> <p>REASON: To replace the cover plate.</p>
		F03		<p>Zone C 3. On J1-2, change "+24 VDC to "+5 VDC."</p> <p>REASON: This is the output line of the 5 VDC power supply. + 24 VDC is the input voltage.</p>

TEAR ALONG DOTTED LINE

TYPED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER SSG I. M. DeSpirito 999-1776	SIGN HERE: <i>SSG I. M. DeSpirito</i>
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DA FORM 2028-2 (TEST) 1 AUG 74 P.S.—IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR MANUAL "FIND" MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

HISA 1686-75