

**TECHNICAL MANUAL**

**ORGANIZATIONAL MAINTENANCE REPAIR  
PARTS AND SPECIAL TOOLS LIST  
FOR  
  
SPECTRUM ANALYZERS TS-723/U,  
TS-723A/U, TS-723B/U, TS-723C/U, AND  
TS-723D/U**

**(NSN 6625-00-668-9418)**



TECHNICAL MANUAL

No. 11-6625-255-20P



HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, DC 14 May 1976

Organizational Maintenance Repair  
Parts and Special Tools List

for

SPECTRUM ANALYZERS TS-723/U, TS-723A/U,  
TS-723B/U, TS-723C/U, AND TS-723D/U  
(NSN 6625-00-668-9418)

Current as of 15 January 1976

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## SECTION I

### INTRODUCTION

#### 1. Scope

This manual lists repair parts required for performance of organizational maintenance of the TS-723/U, TS-723A/U, TS-723B/U, TS-723C/U, and TS-723D/U.

#### 2. General

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

*a. Section II-Repair Parts List.* A list of 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 ascending numerical sequence, with the parts in each group listed in figure and item number sequence.

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

*c. Section IV-National Stock Number and Part Number Index.* A list, in ascending numerical sequence, of all National stock numbers appearing in the listings, followed by a list, in alphanumeric 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

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

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

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

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

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

(1) *Source code.* Source codes are assigned to support items to indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source code is 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.

(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 the following level of maintenance:

*Code*

*Application/explanation*

O-Support item is removed, replaced, used at the organizational 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 the following maintenance code:

*Code*

*Application/explanation*

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  
code*

*Definition*

Z-Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.

*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

Usable on codes are shown in the description column. Uncoded items are applicable to all models. Identification of the usable on codes used in this publication are:

Code  
CZV  
CZW  
CZX  
CZY  
CMD

Used On  
TS-723/U  
TS-723A/U  
TS-723B/U  
TS-723C/U  
TS-723D/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 or functional subgroup within which the repair part belongs. This is necessary since illustrations are prepared for functional groups or functional subgroups, and listings are divided into the same groups.

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

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

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

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

(1) *First.* Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in ascending NSN sequence, followed by a list of part numbers in ascending alphanumeric 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)

## SECTION II. REPAIR PARTS LIST

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION  USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.							
1	1	FA002	5355-00-646-4704	074G	28480	GROUP: 00 SPECTRUM ANALYZER TS-723/U, TS-723A/U, TS-723B/U, TS-723C/U, AND TS-723D/U  KNOB  CZV, CZW	EA	2
1	2	FA002	5355-00-547-7996	54MS380	28480	KNOB  CZV, CZW	EA	4

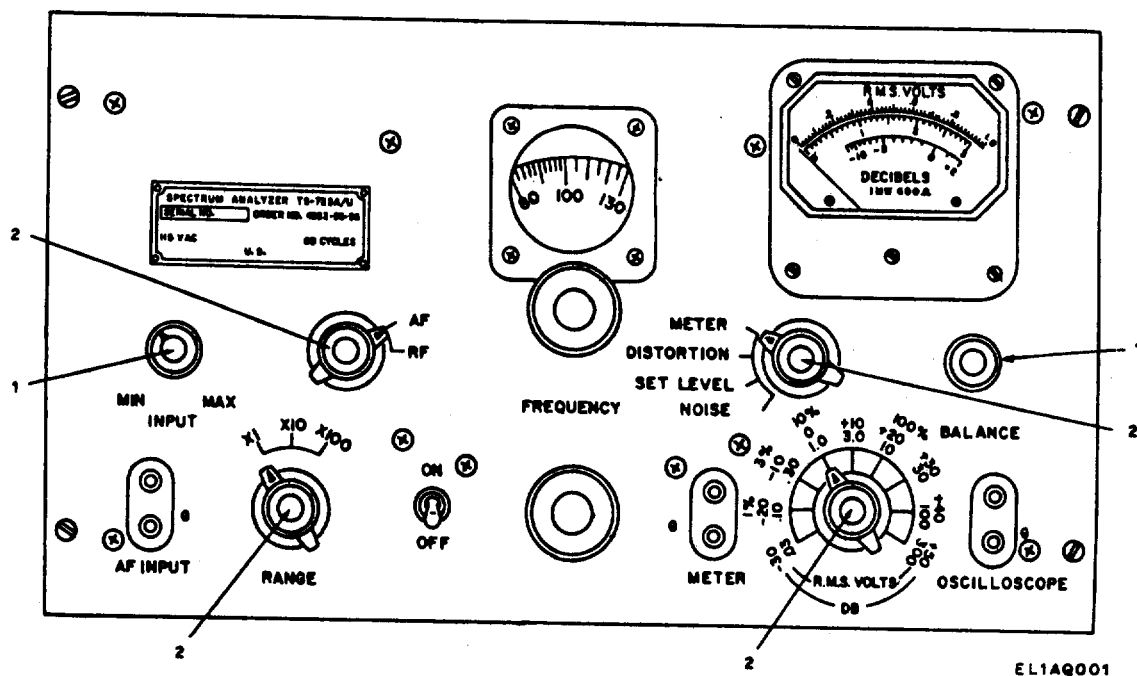


FIGURE 1. TS-723/U AND TS-723A/U, FRONT PANEL.

## SECTION II. REPAIR PARTS LIST (CONTINUED).

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE CN CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
2	1	PA0ZZ	5355-00-644-1264	19ME326-4	28480	KNOB	CZX,CZY,CMD	EA	2
2	2	PA0ZZ	5355-00-668-9156	S-653-3L-BB	75376	KNOB	CZX, CZY, CMD	EA	4
2	3	PA0ZZ	5935-00-843-7362	MS24663	96906	CONNECTOR, PLUG, ELECTRICAL	CZX, CZY, CMD	EA	1
2	4	FA0ZZ	6240-00-155-8706	47	24446	LAMP, INCANDESCENT	CZX, CZY, CMD	EA	1

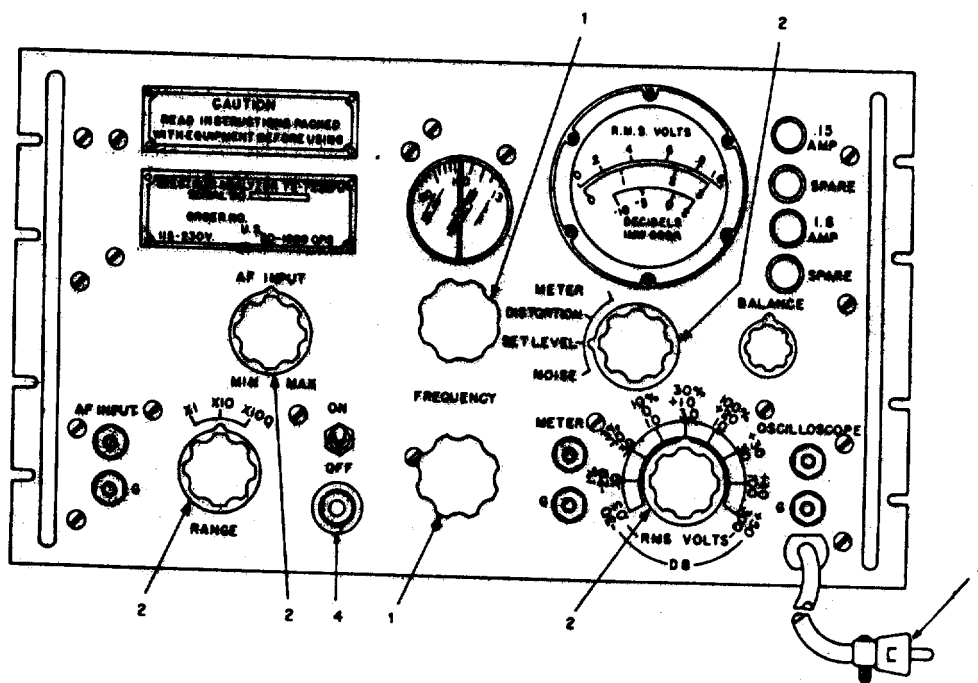


FIGURE 2. TS-723B/U, TS-723C/U, AND TS-723D/U. FRONT PANEL.



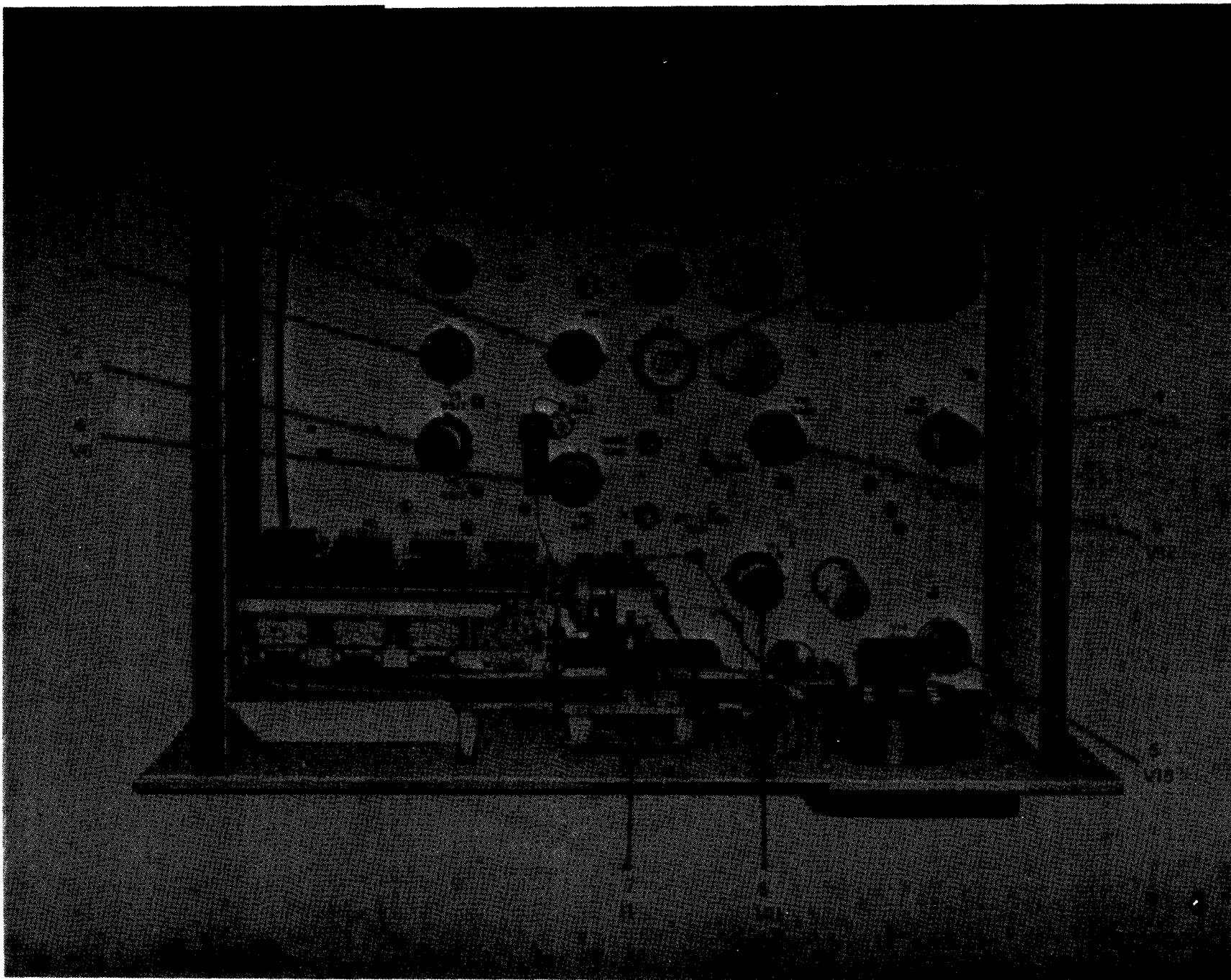


Figure 3. TS-723/U and TS-723A/U, chassis top view.

## SECTION II. REPAIR PARTS LIST (CONTINUED)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ILLUSTRATION	SMR	NATIONAL	PART	FSCM	DESCRIPTION	UNIT	QTY
(A)	(B)	CODE	STOCK			OF	INC
FIG	ITEM		NUMBER			MEAS	IN
NO.	NO.					USABLE ON CODE	UNIT
3	1	PAOZZ	5960-00-262-0218	5Y3WGTA	81349	ELECTRON TUBE	CZV,CZW
3	2	PAOZZ	5960-00-100-5268	6SJ7Y	81349	ELECTRON TUBE	CZV,CZW
3	3	PAOZZ	5960-00-188-8573	OD3	81349	ELECTRON TUBE	CZV,CZW
3	4	PAOZZ	5960-00-166-7666	6AC7	81349	ELECTRON TUBE	CZV,CZW
3	5	PAOZZ	5960-00-188-8499	6H6	81349	ELECTRON TUBE	CZV,CZW
3	6	PAOZZ	5960-00-228-3765	6J5WGT	81349	ELECTRON TUBE	CZV,CZW
3	7	PAOZZ	6240-00-155-8706	47	24446	LAMP, INCANDESCENT	CZV,CZW
3	8	PAOZZ	5960-00-617-6097	6Y6GT	81349	ELECTRON TUBE	CZV,CZW

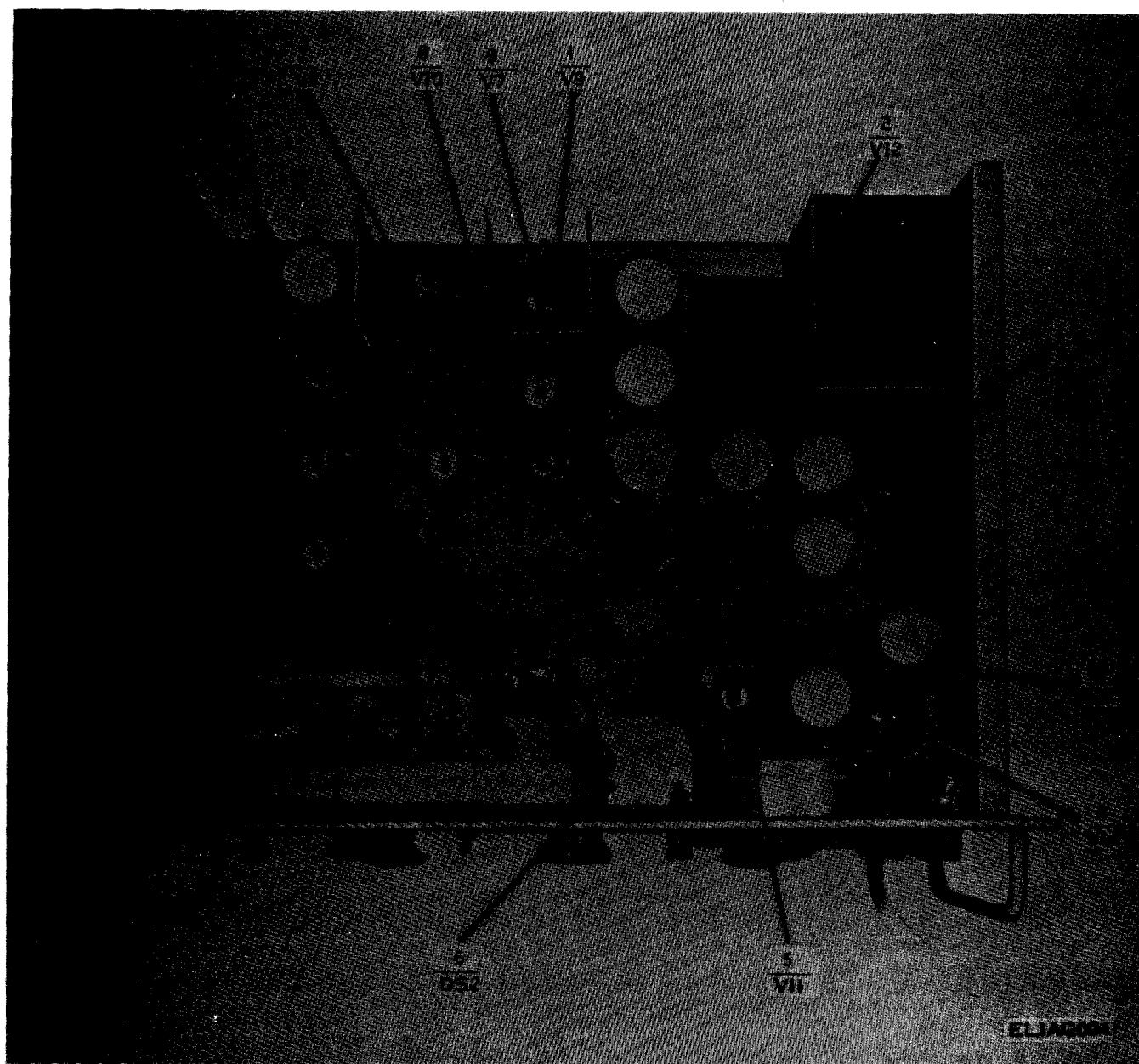
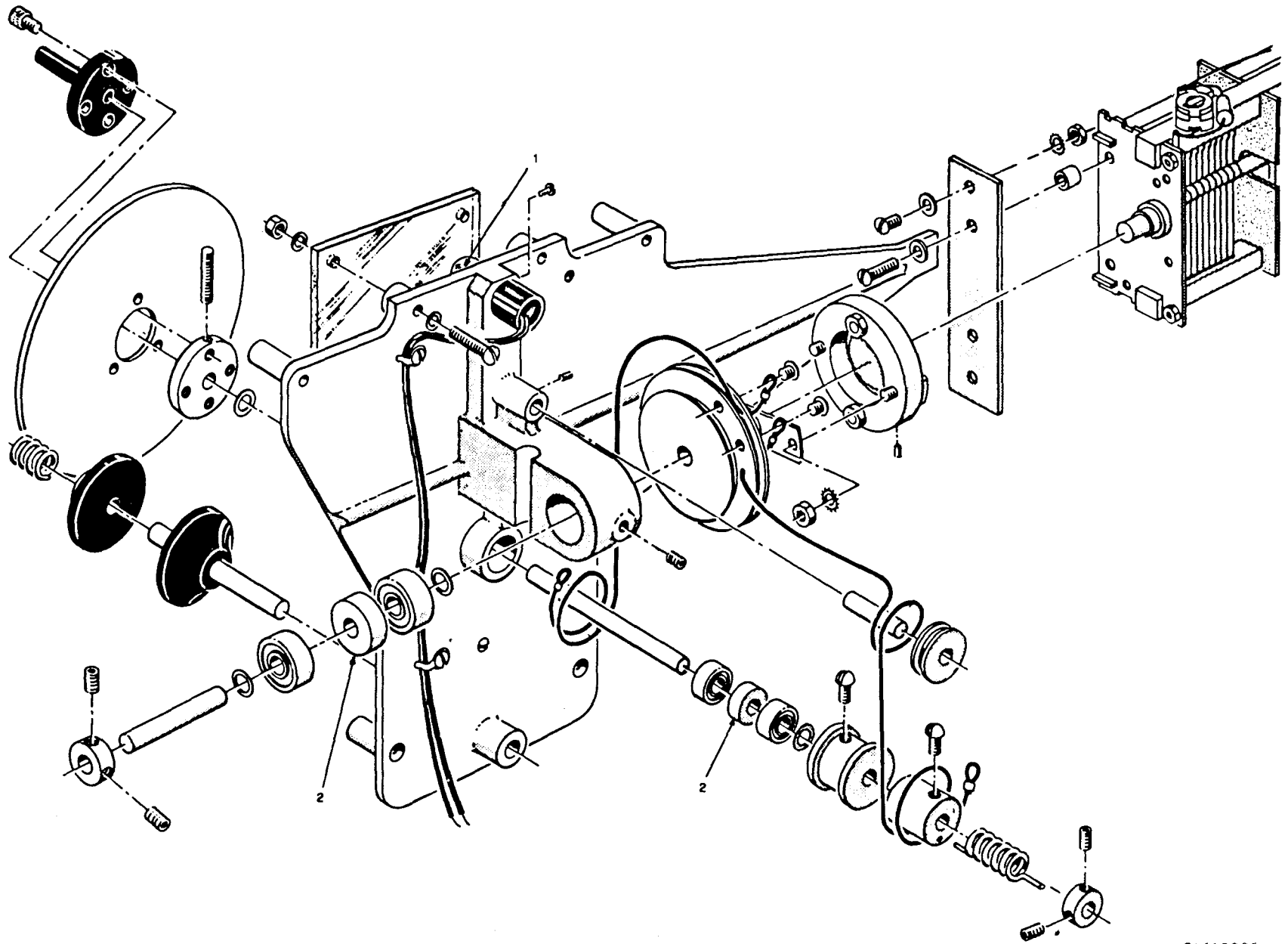


Figure 4. TS-723B/U, TS-723C/U, and TS-723D/U, chassis top view.

## SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION (A) FIG NO.	(2) SMR (B) ITEM NO.	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
4	1	PAOZZ 5960-00-188-3574	6SJ7WGT	81349	ELECTRON TUBE	CZX,CZY,CMD	EA	4
4	2	PAOZZ 5960-00-166-7666	6AC7	81349	ELECTRON TUBE	CZX,CZY,CMD	EA	3
4	3	PAOZZ 6625-00-677-0484	SMB333470	80063	SHAFT, DIAL, PLATE	CZX,CZY,CMD	EA	1
4	4	PAOZZ 5960-00-188-8499	6H6	81349	ELECTRON TUBE	CZX,CZY,CMD	EA	1
4	5	PAOZZ 5960-00-228-3765	6J5WGT	81349	ELECTRON TUBE	CZX,CZY,CMD	EA	2
4	6	PAOZZ 6240-00-155-8706	47	24446	LAMP, INCANDESCENT	CZX,CZY,CMD	EA	1
4	7	PAOZZ 5960-00-617-6097	6Y6GT	81349	ELECTRON TUBE	CZX,CZY,CMD	EA	1
4	8	PAOZZ 5960-00-188-8573	OD3	81349	ELECTRON TUBE	CZX,CZY,CMD	EA	1
4	9	PAOZZ 5960-00-262-0218	5Y3WGTA	81349	ELECTRON TUBE	CZX,CZY,CMD	EA	1



EL1AQ005

Figure 5. Tuning gang assembly.

SECTION II. SPECIAL TOOLS LIST (CONTINUED)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ILLUSTRATION	SMR	NATIONAL	PART	FSCM	DESCRIPTION	UNIT	QTY
(A)	(B)	CODE	STOCK	NUMBER		OF	INC
FIG	ITEM					MEAS	IN
NO.	NO.						UNIT
5	1	PAOZZ	6240-00-155-8706	47	24446	LAMP, INCANDESCENT	EA 1
5	2	PAOZZ	5340-00-619-0222	5-8-6	95987	SPACER	EA 2



## SECTION IV. NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5340-00-619-0222	5	2			
5355-00-547-7996	1	2			
5355-00-644-1264	2	1			
5355-00-646-4704	1	1			
5355-00-668-9156	2	2			
5935-00-843-7362	2	3			
5960-00-100-5268	3	2			
5960-00-166-7666	3	4			
5960-00-166-7666	4	2			
5960-00-188-8499	3	5			
5960-00-188-8499	4	4			
5960-00-188-3574	4	1			
5960-00-188-8573	3	3			
5960-00-188-8573	4	8			
5960-00-228-3765	3	6			
5960-00-228-3765	4	5			
5960-00-262-0218	3	1			
5960-00-262-0218	4	9			
5960-00-617-6097	3	8			
5960-00-617-6097	4	7			
6240-00-155-8706	2	4			
6240-00-155-8706	3	7			
6240-00-155-8706	4	6			
6240-00-155-8706	5	1			
6625-00-677-0484	4	3			



## SECTION IV. NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
G74G	28480	1	1				
MS24663	96906	2	3				
SMB333470	80063	4	3				
S-653-3L-BB	75376	2	2				
OD3	81349	3	3				
OD3	81349	4	8				
19ME326-4	28480	2	1				
47	24446	2	4				
47	24446	3	7				
47	24446	4	6				
47	24446	5	1				
5Y3WGTA	81349	3	1				
5Y3WGTA	81349	4	9				
5-8-6	95987	5	2				
54MS380	28480	1	2				
6AC7	81349	3	4				
6AC7	81349	4	2				
6H6	81349	3	5				
6H6	81349	4	4				
6J5WGT	81349	3	6				
6J5WGT	81349	4	5				
6SJ7Y	81349	3	2				
6Y6GT	81349	3	8				
6Y6GT	81349	4	7				
65J7WGT	81349	4	1				



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USARDL (2)  
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USAERDAW (1)  
Sig FLDMS (1)  
Units org under fol TOE:-1 ea.  
7  
11-16  
11-95  
11-96  
11-97  
11-98  
11-117  
11-500(AA-AC)  
17  
17-51

ARNG: State AG (3); Units-Same as Active Army except allowance is one (1) copy per unit.

USAR: None.

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





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

2-25	2-28		
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3-10	3-3		
------	-----	--	--

5-6	5-8		
-----	-----	--	--

F03

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

Recommend that the installation antenna alignment procedure be changed throughout to specify a 2° IFF antenna lag rather than 1°.

REASON: Experience has shown that with only a 1° lag, the antenna servo system is too sensitive to wind gusting in excess of 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.

Item 5, Functions column. Change "2 db" to "3db."

REASON: The adjustment procedure for the TRANS POWER FAULT indicator calls for a 3 db (500 watts) adjustment to light the TRANS POWER FAULT indicator.

Add new step f.1 to read, "Replace cover plate removed in step e.1, above."

REASON: To replace the cover plate.

Zone C 3. On J1-2, change "+24 VDC to "+5 VDC."

REASON: This is the output line of the 5 VDC power supply. + 24 VDC is the input voltage.

TYPED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

SSG I. M. DeSpirito 999-1776

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*SSG I. M. DeSpirito*

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