
TECHNICAL MANUAL

**ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS
FOR
RADAR TEST SET AN/UPM-98
(NSN 6625-00-580-3771)**

HEADQUARTERS, DEPARTMENT OF THE ARMY

FEBRUARY 1977

TECHNICAL MANUAL }
 No. 11-6625-403-20P }

HEADQUARTERS
 DEPARTMENT OF THE ARMY
 WASHINGTON, DC, 3 February 1977

**ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS
 FOR
 RADAR TEST SET AN/UPM-98
 (NSN 6625-00-580-3771)
 Current as of 20 September 1976**

REPORTING OF ERRORS

You can improve this manual by recommending improvements using DA Form 2028-2 (Test) located in the back of the manual. Simply tear out the self addressed form, fill it out as shown on the sample, fold it where shown, and drop it in the mail.

If there are no blank DA Form 2028-2 (Test) in the back of your manual, use the standard DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forward to the Commander, US Army Electronics Command, ATTN.: DRSEL-MA-Q, Fort Monmouth, New Jersey 07703.

In either case a reply will be furnished direct to you.

Table of Contents

		Page	Illus. Figure
SECTION I.	Introduction	1	
SECTION II.	Repair parts list	5	
Group 00	RadarTestSetAN/UPM-981	5	
01	Radar Test Set TS- 1253/UP (No parts authorized)		
	0101 Display unit	6	2,3
	0102 Sweep and intensity mark	8	4
	0103 Crystal mark and sync unit.....	9	5
	0104 SIF coder unit	10	6
	0105 Main chassis assembly	11	7,8
02	Coder Simulator SM-197/UPM-98 (No parts authorized)		
	0201 Panel chassis assembly.....	13	9
	0202 CAL control unit.	14	10
	0203 Mark X coder unit	15	11
03	Test Lead Assembly MX-2681/U (No parts authorized)		
04	Electrical Equipment Case CY-2726/UPM-98	16	12
05	Cable Assembly, Radio Frequency CG-530B/U (No parts authorized)		
06	Cable Assembly, Radio Frequency CG-409E/U (No parts authorized)		
07	Cable Assembly, Special Purpose, Electrical CX-4963/UPM (No parts authorized)		
08	Cable Assembly, Special Purpose, Electrical CX-6092/U (No parts authorized)		
09	Cable Assembly, Radio Frequency CG-530B/U (No parts authorized)		
10	Cable Assembly, Radio Frequency CG-409E/U (No parts authorized)		
SECTION III.	Special tools list (Not applicable)		
SECTION IV.	National stock number and part number index	17	

*This manual supersedes TM 11-25403-20P, 2 July 193.

**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 maintenance of the AN/VPM-98. 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 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

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.
PD-	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues

Code	Definition
	or outfittings. Not subject to automatic replenishment.
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.

(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.
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.
H	Reparable item. When uneconomically repairable, condemn and dispose at the general support 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.* Indicated 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

a. The following publication pertains to the AN/UPM-98 and its components:

TM 11-6625-403-14, Radar Test Set AN/UPM-98

b. The illustrations in this manual are identical to those published in TM 11-6625-403-40P. Only those parts assigned the third position SMR maintenance code "C" or "0" are listed in the tabular listing; therefore, there may be a break in the item number sequence. Only illustrations containing organizational authorized items appear in this manual.

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 numbers in alphanumeric sequence, cross-referenced to the illustration figure number and item number.

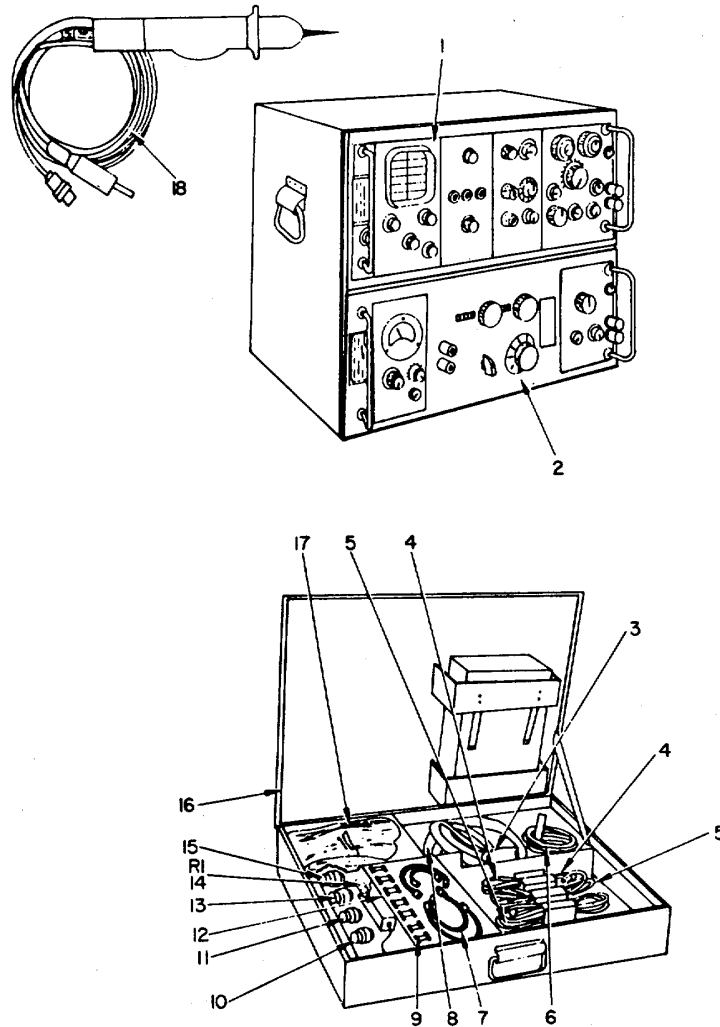
(2) *Second.* After finding the figure and item number, locate the figure and item number in the repair parts list.

6. Abbreviations

Not applicable.

(Next printed page is 5)

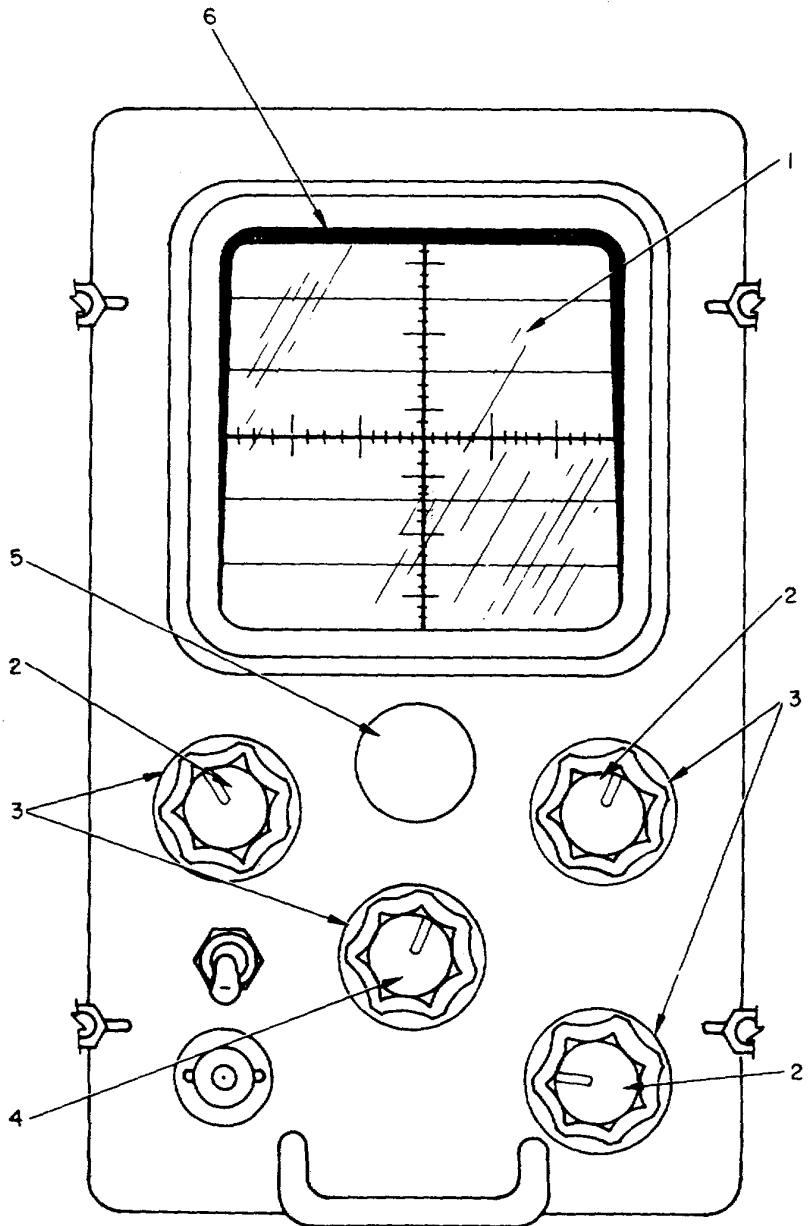
2/3/4 (Blank)



ELOGC001

Figure 1. Radar Test Set AN/UPM-98.

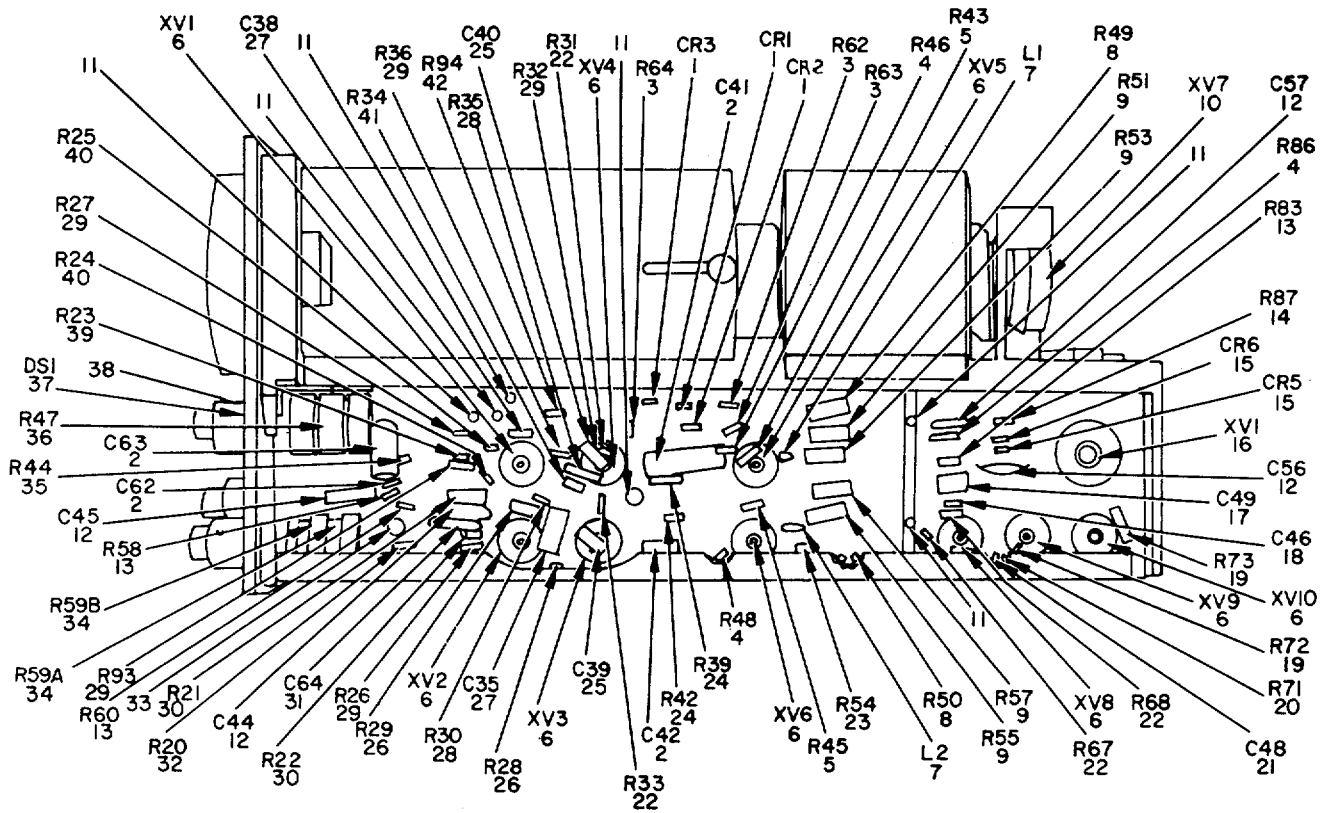
(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	UOC	U/M	QTY INC IN UNIT
1	3	PDOHH	5995-00-889-1047	CX963UPN	80058	GROUP 00 RADAR TEST SET AN/UPH98	EA	1
1	4	XDOHH		CG530BU	80058	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL	EA	2
1	5	PDOHH	5995-00-503-0470	CG409EU	80058	CABLE ASSEMBLY, RADIO FREQUENCY	EA	2
1	8	PDOHH	5995-00-889-1048	CX6092U	80058	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL	EA	1



ELOGC002

Figure 2. Display Unit, Front View.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	U/M	QTY INC IN UNIT
						UOC		
2	2	PAOZZ	5355-00-739-8152	533A98-1	70117	GROUP 0101 DISPLAY UNIT	EA	3
2	3	PAOZZ	5355-00-753-5164	S645-5LBB538	75376	KNOB	EA	4
2	4	PAOZZ	5355-00-819-0067	533A98-3	70117	KNOB	EA	1



ELOGC003

Figure 3. Display Unit, Right Side View.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	UOC	U/M	QTY INC IN UNIT
3	37	PAOZZ	6240-00-274-4015	328R	24455	LAMP, INCANDESCENT	EA	1

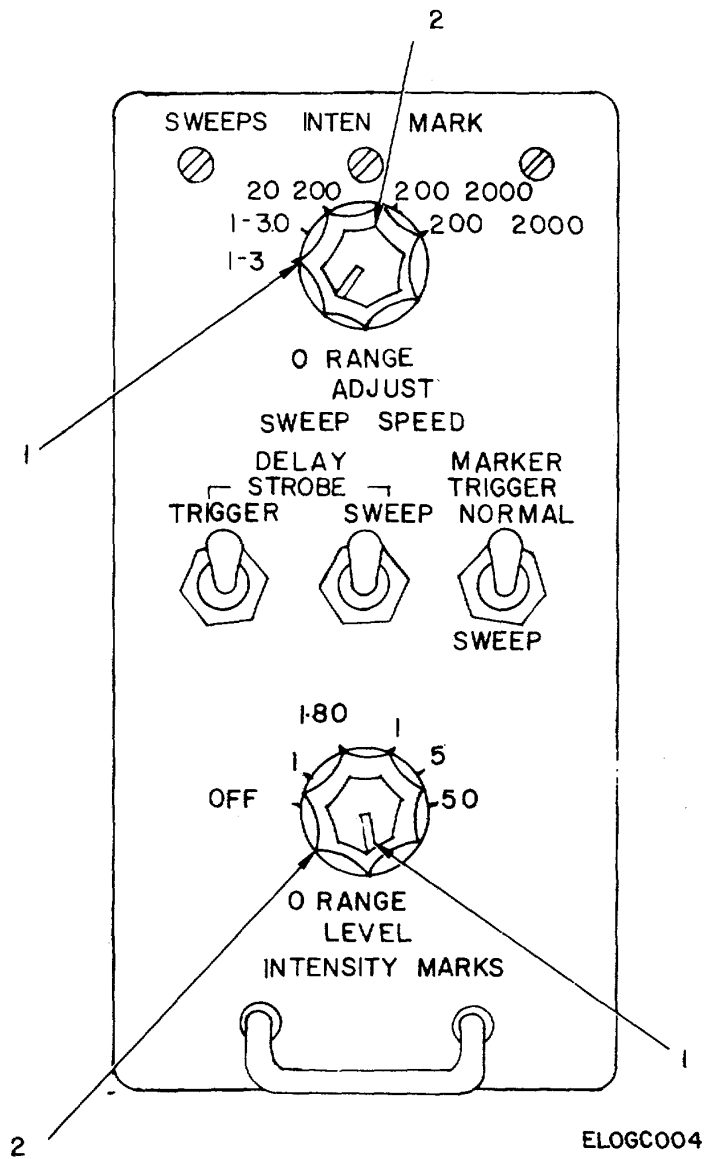
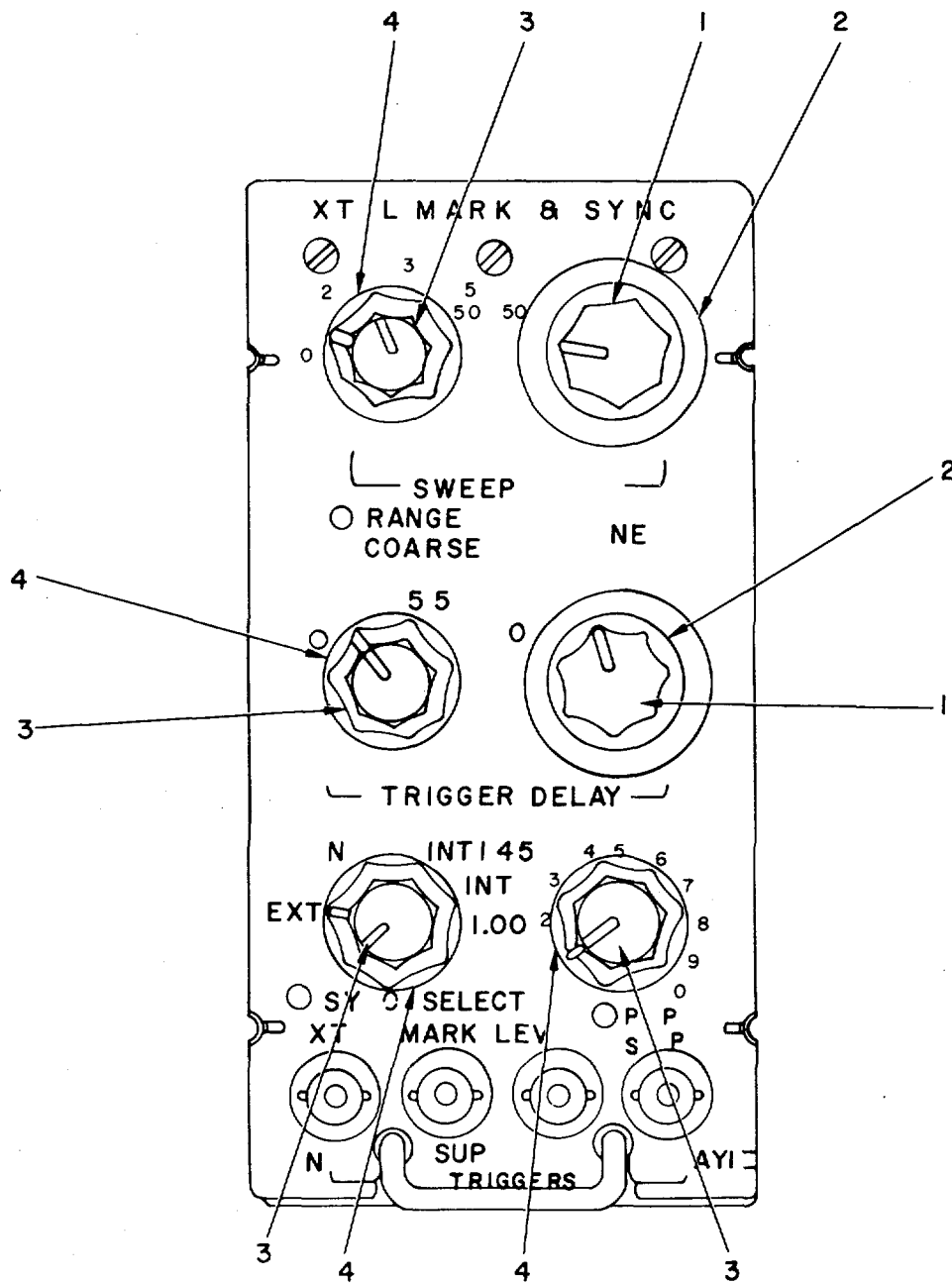


Figure 4. Sweep and Intensity Mark Unit, Front View.

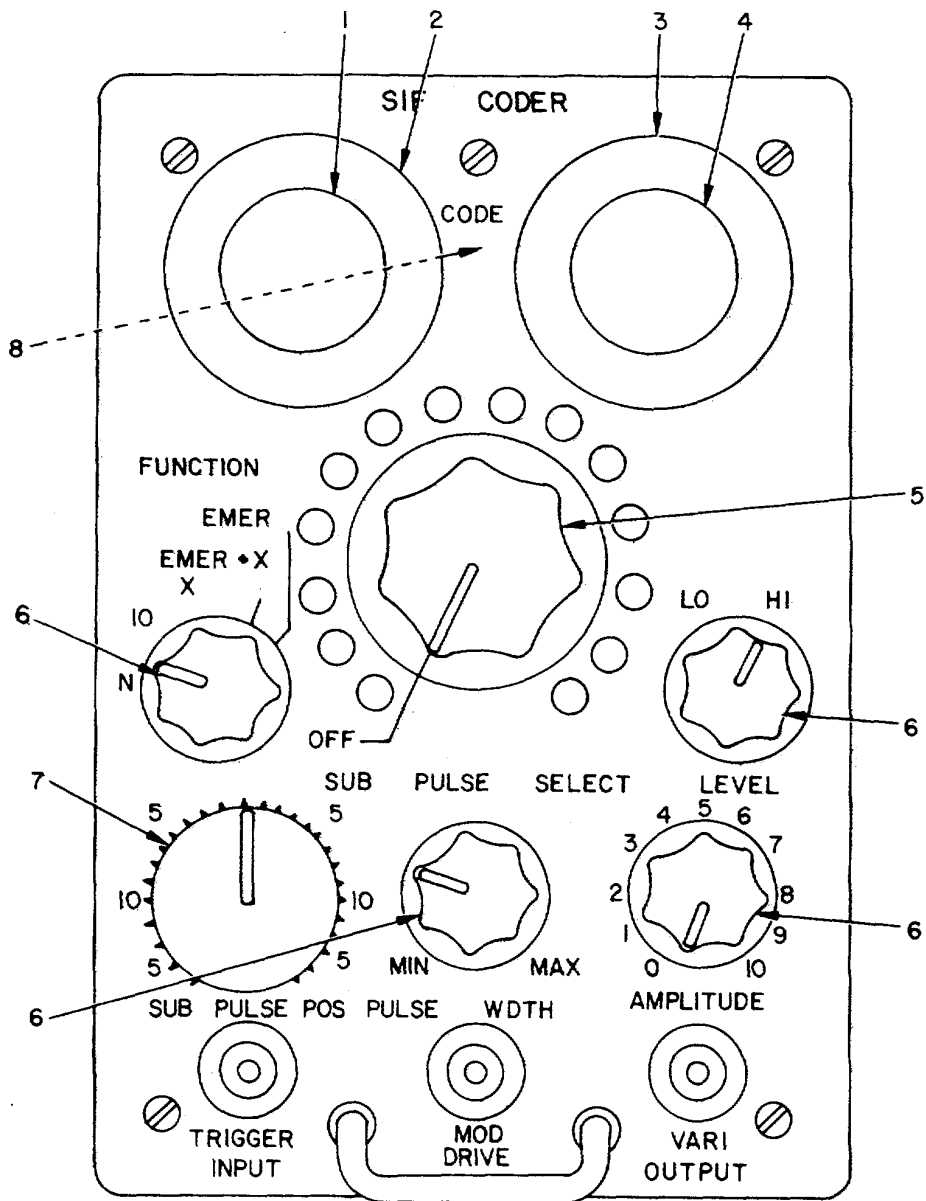
(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	UOC	U/M	QTY INC IN UNIT
4	1	XDOZZ		5645-52BB	75376	GROUP 0102 SWEEP & INTENSITY MARK UNIT KNOB SWEEP SPEED ADJUST AND INTENSITY MARKS LEVEL	EA	2
4	2	PAOZZ	5355-00-819-0067	533A98-3	70117	KNOB SWEEP SPEED RANGE AND INTENSITY MARKS RANGE	EA	2



ELOGC005

Figure 5. Crystal Mark and Sync Unit.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	UOC	U/M	QTY INC IN UNIT
5	1	PAOZZ	5355-00-473-5857	S647-4LBB	75376	GROUP 0103 CRYSTAL MARK AND SYNC UNIT	EA	2
5	3	XDOZZ		S645-5LBB	75376	KNOB	EA	4
5	4	PAOZZ	5355-00-819-0067	S33A98-3	70117	KNOB	EA	4



ELOGC006

Figure 6. SIF Coder Unit, Front View.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	UOC	U/M	QTY INC IN UNIT
						GROUP 0104 SIF CODER UNIT		
6	5	PAOZZ	5355-00-668-4634	S649-3LBB	75376	KNOB	EA	1
6	6	PAOZZ	5355-00-519-9375	S647-3LBB	75376	KNOB	EA	4
6	7	PAOZZ	5355-00-474-3849	533B106	70117	KNOB	EA	1

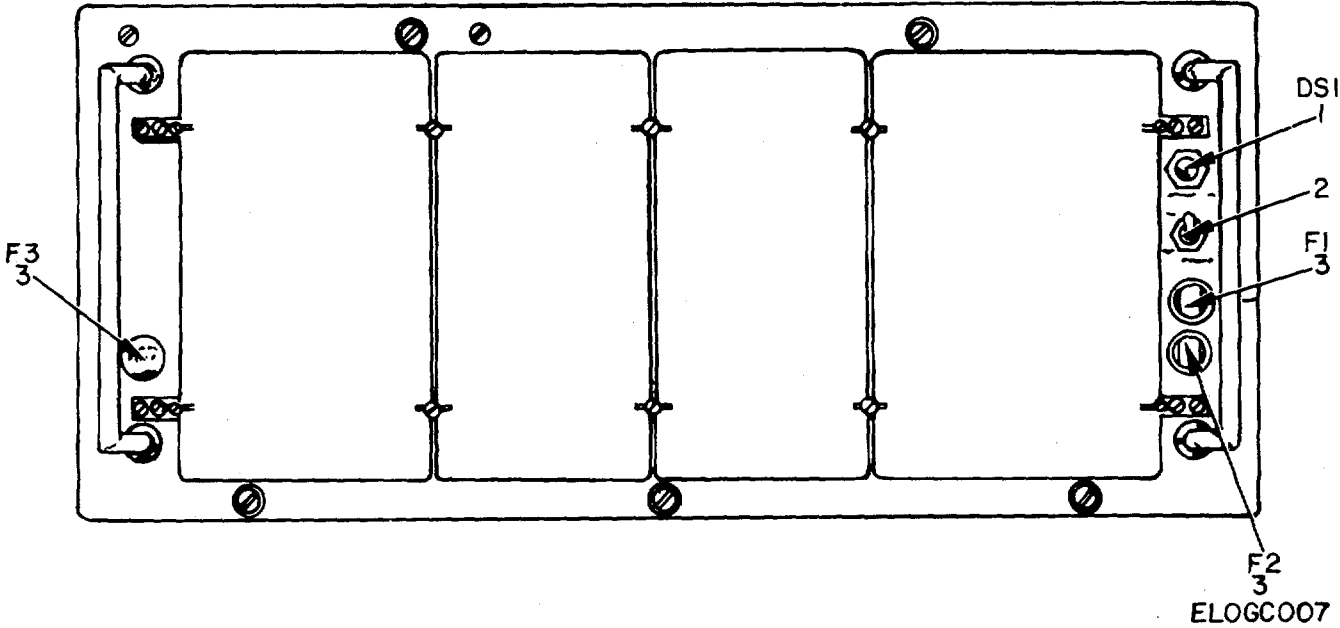
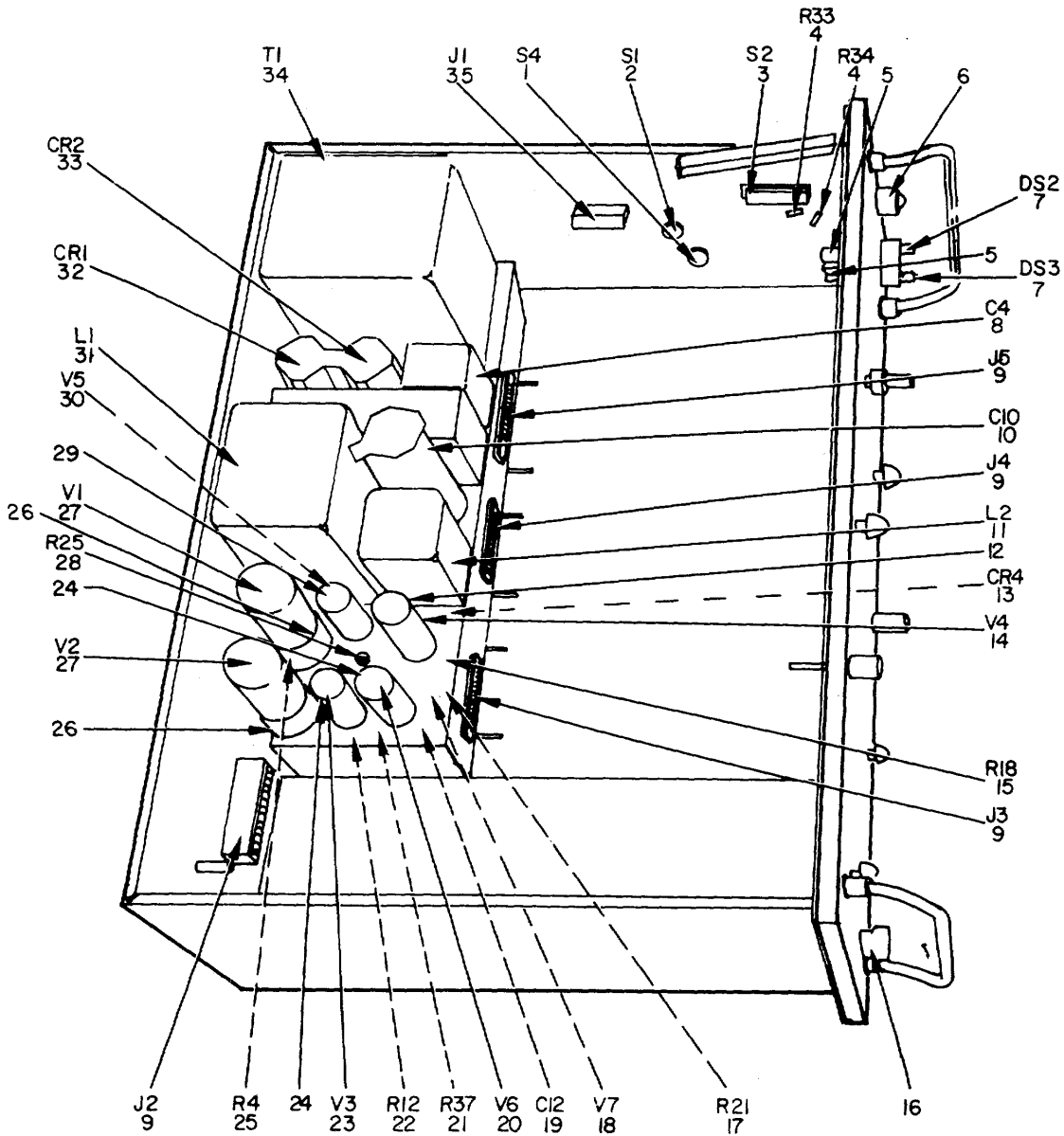


Figure 7. Main Chassis Assembly, Front View.

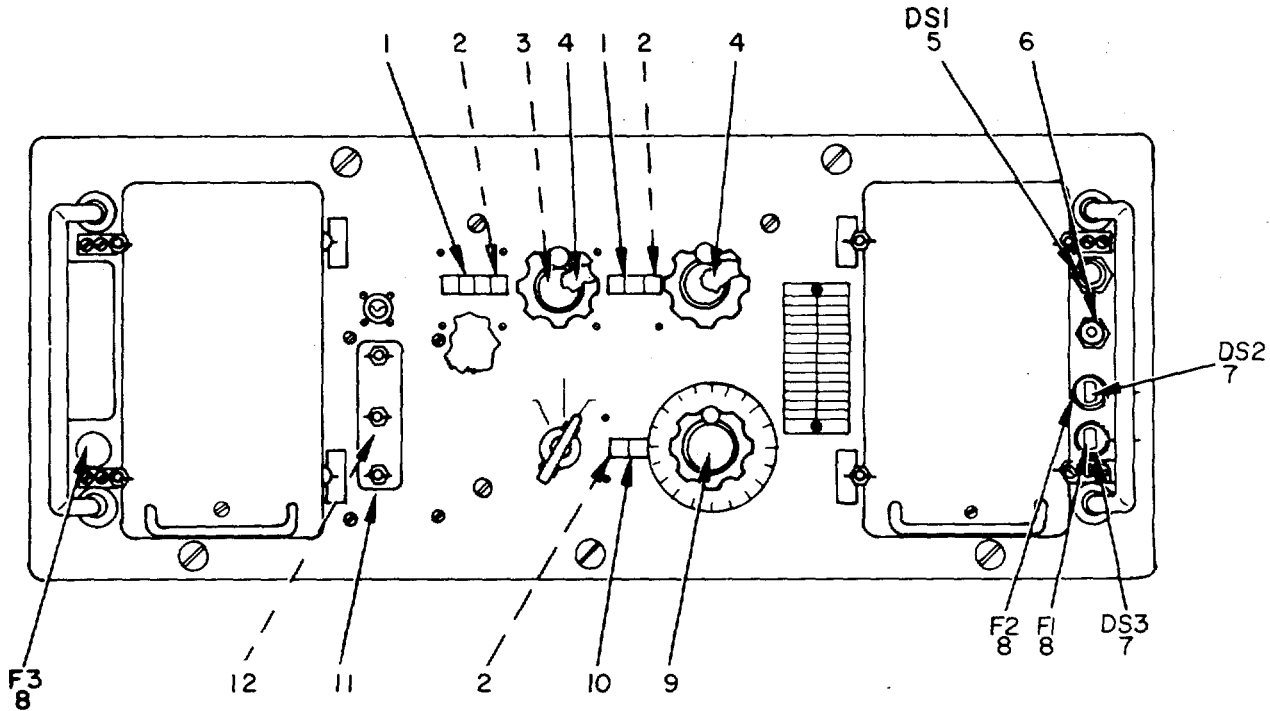
(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	UOC	U/M	QTY INC IN UNIT
7	1	PAOZZ	6240-00-155-8706	TB14	81349	GROUP 0105 MAIN CHASSIS ASSEMBLY	EA	1
7	3	PAOZZ	5920-00-060-2424	F02G5ROOA	81349	FUSE, CARTRIDGE	EA	3



ELOGC008

Figure 8. Main Chassis Assembly, Top View.

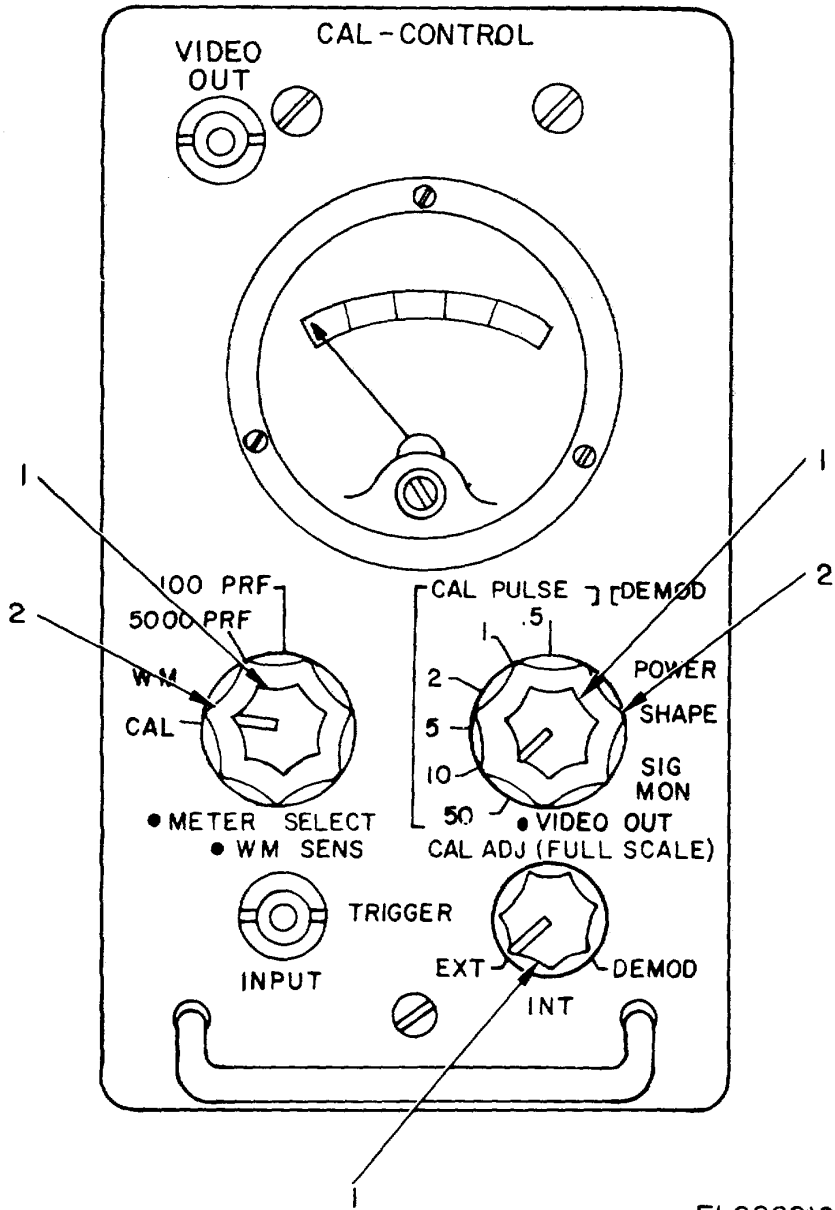
(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	UOC	U/M	QTY INC IN UNIT
8	7	XD0ZZ		63231-2	80058	LAMP, GLOW	EA	2



ELOGC009

Figure 9. Panel Chassis Assembly, Front View.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	UOC	U/M	QTY INC IN UNIT
9	5	PAOZZ	6240-00-155-8706	TB14	81349	GROUP 0201 PANEL CHASSIS ASSEMBLY	EA	1
9	7	XDOZZ	5920-00-474-5743	63231-2	80058	LAMP, INCANDESCENT	EA	2
9	8	PAOZZ	5355-00-813-5386	F02G3ROOA	81349	LAMP, GLOW	EA	3
9	9	PAOZZ		SCH309-64BB	75376	FUSE, CARTRIDGE	EA	1



ELOGCOIQ

Figure 10. CAL Control Unit, Front View.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	UOC	U/M	QTY INC IN UNIT
10	1	XDOZZ		S645-5LBB	75376	GROUP 0202 CAL CONTROL UNIT KNOB KNOB	EA	3
10	2	PAOZZ	5355-00-819-0067	533A98-3	70117		EA	2

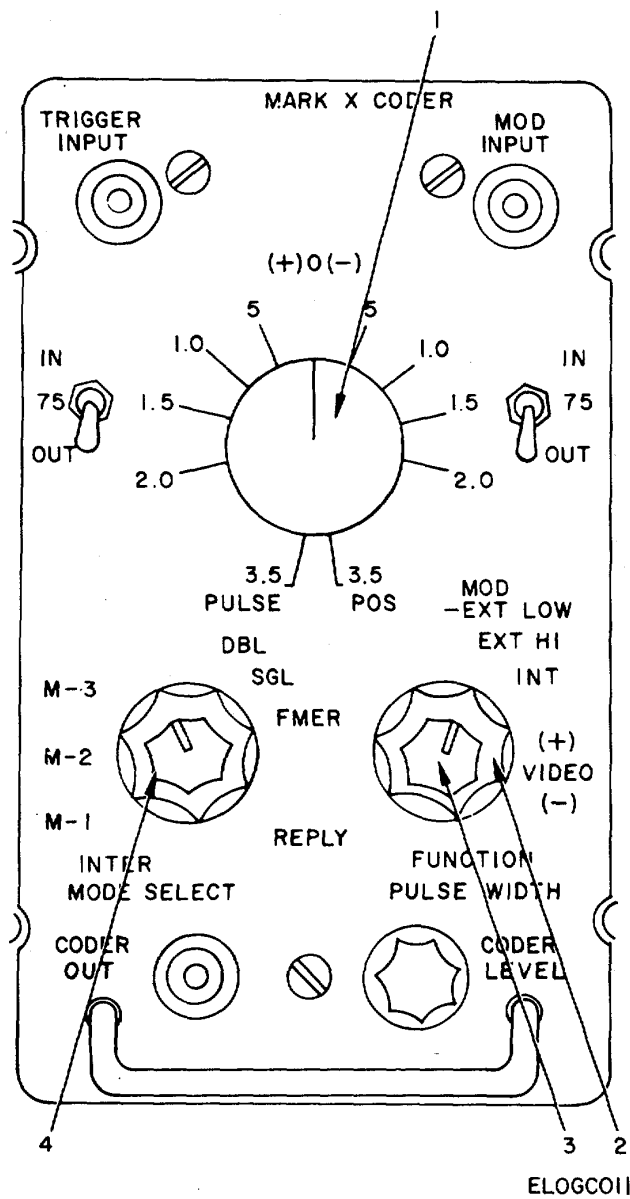
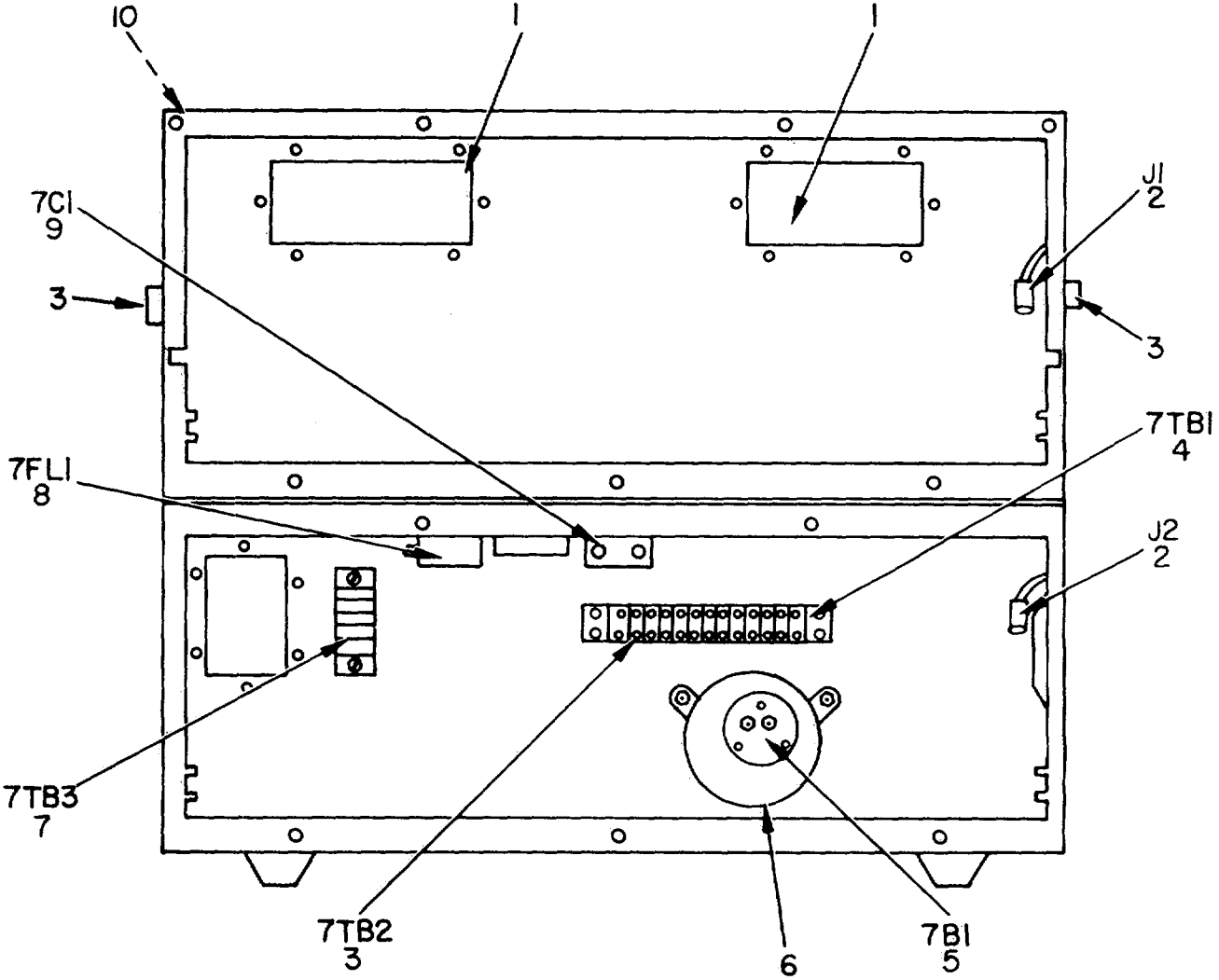


Figure 11. Mark X Coder Unit, Front View.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	UOC	U/M	QTY INC IN UNIT
						GROUP 0203 MARK X CODER UNIT		
11	1	PAOZZ	5355-00-474-3849	533B106	70117	KNOB	EA	1
11	2	XDOZZ		S645-5LBB	75376	KNOB	EA	1
11	3	PAOZZ	5355-00-819-0067	533A98-3	70117	KNOB	EA	1
11	4	PAOZZ	5355-00-519-9375	S647-3LBB	75376	KNOB	EA	1



ELOGC012

Figure 12. Electrical Equipment Case CY-2726/UPM-98.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	UOC	U/M	QTY INC IN UNIT
12	1	PAOZZ	4130-00-725-4823	AF1952B	82866	GROUP 04 ELECTRICAL EQUIPMENT CASE	EA	1
12	6	PAOZZ	4130-00-779-0845	9200X	82866	CY-2726/UPM-98 FILTER, AIR CONDITIONING FILTER, AIR CONDITIONING	EA	1

SECTION IV 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.
5920-00-060-2424	7	3	5355-00-739-8152	2	2
6240-00-155-8706	7	1	5355-00-753-5164	2	3
5355-00-474-3849	6	7	5355-00-819-0067	2	4
5355-00-474-3849	11	1	5355-00-819-0067	4	2
5920-00-474-5743	9	8	5355-00-819-0067	5	4
5995-00-503-0470	1	5	5355-00-819-0067	10	2
5355-00-519-9375	6	6	5355-00-819-0067	11	3
5355-00-519-9375	11	4	5995-00-889-1047	1	3
5355-00-668-4634	6	5	5995-00-889-1048	1	8
4130-00-725-4823	12	1			

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
AF1952B	82866	12	1	S649-3LBB	75376	6	5
CG409EU	80058	1	5	TB14	81349	7	1
CG530BU	80058	1	4	TB14	81349	9	5
CX4963UPM	80058	1	3	328R	24455	3	37
CX6092U	80058	1	8	533A98-1	70117	2	2
F02G3ROOA	81349	9	8	533A98-3	70117	2	4
FO2GSROOA	81349	7	3	533A98-3	70117	4	2
SCH309-65BB	75376	9	9	533A98-3	70117	5	4
S645-5LBB	75376	5	3	533A98-3	70117	10	2
S645-5LBB	75376	10	1	533A98-3	70117	11	3
S645-5LBB	65376	11	2	533B106	70117	6	7
S645-5LBB538	75376	2	3	533B106	70117	11	1
S645-52BB	75376	4	1	63231-2	80058	8	7
S647-3LBB	75376	6	6	63231-2	80058	9	7
S647-3LBB	75376	11	4	9200X	82866	12	6

LATEST NATIONAL STOCK NUMBER ASSIGNMENTS

STOCK NUMBER	FIGURE NO.	ITEM NO.
6240-00-155-8706	9	5
6240-00-274-4015	3	37
5355-00-473-5857	5	1
4130-00-779-0845	12	6
5355-00-813-5386	9	9

LATEST PART NUMBER ASSIGNMENT

PART NUMBER	FIGURE FSCM	ITEM NO.	NO.
S647-4LBB	75376	5	1

By Order of the Secretary of the Army:

BERNARD W. ROGERS
General, United States Army
Chief of Staff

Official:

PAUL T. SMITH
Major General, United States Army
The Adjutant General

DISTRIBUTION:

Active Army:

USASA (2)
COE (1)
TSG(1)
USAARENBD (1)
DARCOM (1)
MICOM (2)
TECOM (2)
USACC (4)
TRADOC (2)
OS Maj Comd(4)
LOGCOMD (3)
MDW (1)
Armies (2)
Corps (2)
Instl (2) except
 Ft Gillem (10)
 Ft Gordon (10)
 Ft Huachuca (10)
 Ft Carson (5)
 SAAD (30)
 LBAD (14)
 TOAD (14)
 SHAD (3)
HISA (Ft Monmouth) (33)
Ft Richardson (ECOM Ofc) (2)
Svc Colleges (1)
USASIGS (5)
USAICS (3)
USAADS (2)
USAFAS (2)
USAARMS (2)
USAIS (2)
USAES (2)
MAAG (1)
USARMIS (1)
USAERDAA (1)
USAERDAW (1)
Sig FLDMS (1)
Units org under fol TOE:- 1 ea.
 11-16
 11-117
 11-500(AA AC)

ARNG: State AG (3).

USAR: None.

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

GPO 18--265

