

TECHNICAL MANUAL
ORGANIZATIONAL MAINTENANCE
REPAIR PARTS
AND SPECIAL TOOLS LISTS
FOR
TEST SETS,
TELEPHONE
AN/USM-181 AND
AN/USM-181A
(NSN 6625-00-740-0344)

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS
FOR
TEST SETS, TELEPHONE
AN/USM-181 AND AN/USM-181A
(NSN 6625-00-740-0344)

Current as of 15 December 1976

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*This manual supersedes so much of TM 11-6625-602-12, 28 September 1964, including Change 2, 17 December 1965, as pertains to repair parts and special tools lists.

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/USM-181 and AN/USM-181A. 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:

<i>Code</i>	<i>Definition</i>
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:

<i>Code</i>	<i>Application/Explanation</i>
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:

<i>Code</i>	<i>Application/Explanation</i>
O	The lowest maintenance level capable of complete repair of the support item is the organizational level.
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:

<i>Recoverability codes</i>	<i>Definition</i>
Z—Nonreparable item.	When unserviceable, condemn and dispose at the level indicated in position 3.
O—Reparable item.	When uneconomically reparable, condemn and dispose at organizational level.
H—Reparable item.	When uneconomically reparable, condemn and dispose at the general support level.
<i>c. National Stock Number.</i> Indicates the National stock number assigned to the item and will be used for requisitioning purposes.	
<i>d. Part Number.</i> 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 drawing, 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 (UM). 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

a. 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:

<i>Code</i>	<i>Used on</i>
B6M	AN/USM-181
AG9	AN/USM-181A

b. The following publication pertains to the AN/USM-181 and AN/USM-181A and its components:

TM 11-6625-602-12, Test Set, Telephone AN/USM-181 and Hewlett-Packard Model 3550B

c. The illustrations in this manual are identical to those published in TM 11-6625-602-40P. Only those parts assigned the third position SMR maintenance code "C" or "O" 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 alphameric 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 4)

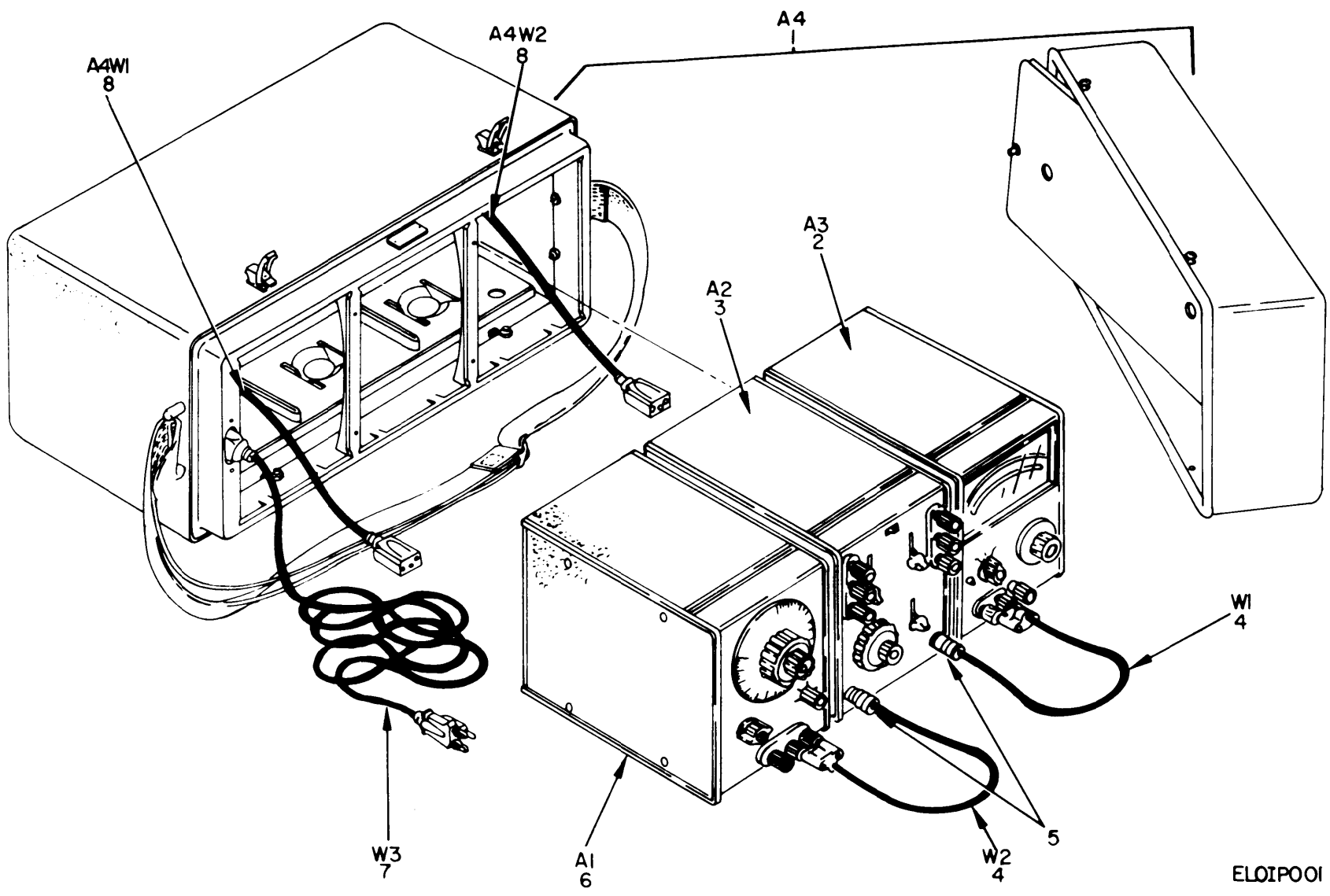
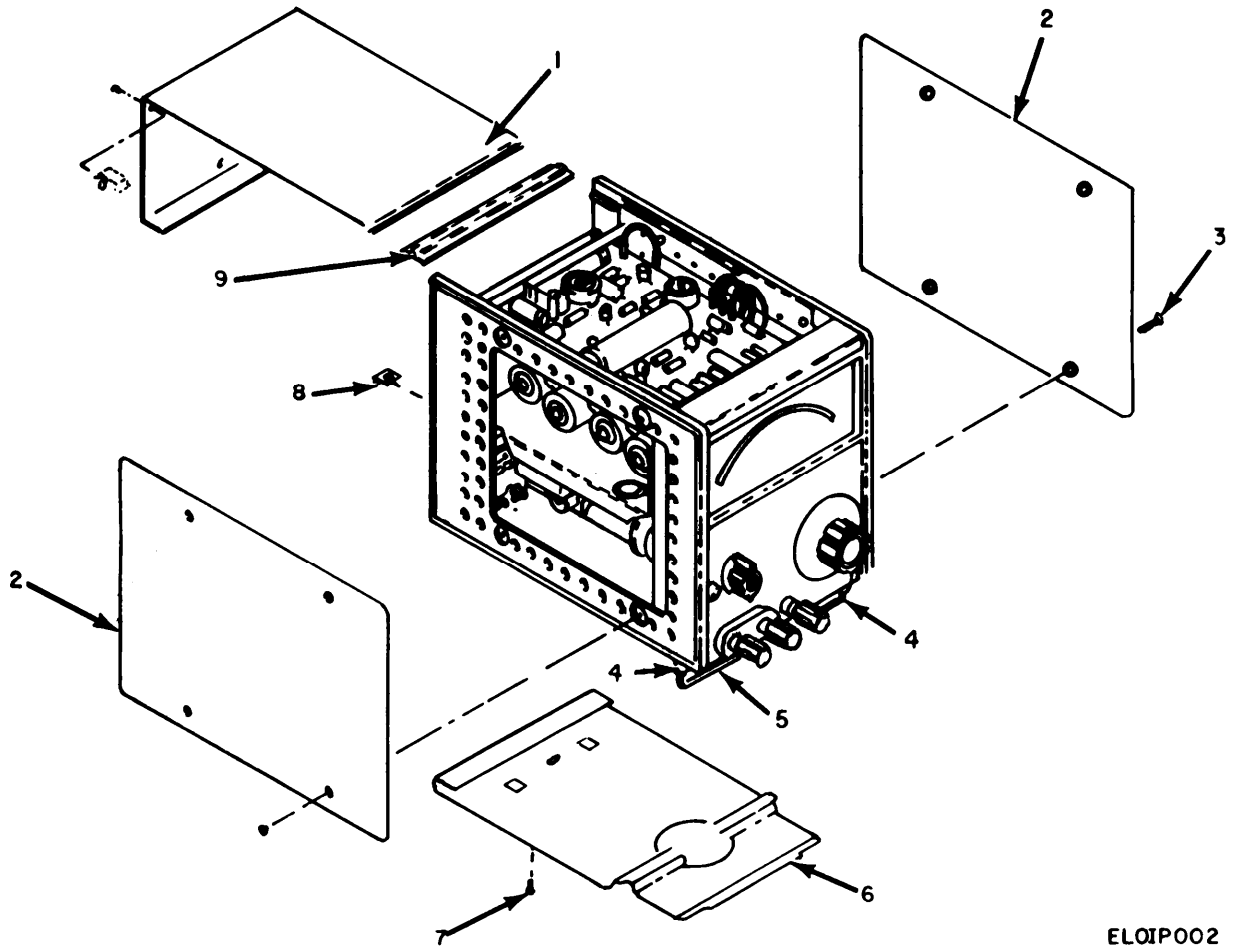


Figure 1. Test Sets, Telephone AN/USM-181 and AN/USM-181A.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)	
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 00 TEST SET, TELEPHONE AN/USM-181 AND AN/USM-181A			
1	1	PAOHH	6625-00-965-5133	CY4071USM181	80058	CASE, TEST SET	AG9	EA	1
1	2	XDOHH		ME260AU	80058	VOLTMETER, ELECTRONIC	AG9	EA	1
1	2	PAOHH	6625-00-965-1534	ME260U	80058	VOLTMETER, ELECTRONIC	B6M	EA	1
1	3	XDOHH		CN947AUSM181	80058	ATTENUATOR, IMPEDANCE MATCHING	AG9	EA	1
1	3	PAOHH	6645-00-763-2390	CN947AUSM181	80058	ATTENUATOR, IMPEDANCE MATCHING	B6M	EA	1
1	4	PAOOO	5995-00-764-3646	CG3566U	80058	CABLE ASSEMBLY, RADIO FREQUENCY	AG9	EA	2
1	4	PAOOO	5995-00-985-8160	CG2723U	80058	CABLE ASSEMBLY, RADIO FREQUENCY	B6M	EA	2
1	6	PAOHH	6625-00-965-1532	SG543AU	80058	GENERATOR, SIGNAL	AG9	EA	1
1	6	XDOHH		SG543U	80058	GENERATOR, SIGNAL	B6M	EA	1
1	7	PAOOO	5995-00-995-9882	CX903U	80058	CABLE ASSEMBLY, POWER ELECTRICAL		EA	1
1	8	XDOOO		CX9031U	80058	CABLE ASSEMBLY, POWER ELECTRICAL		EA	1



ELOIP002

Figure 2. Voltmeter, Electronic ME-260/U or ME-260A/U A3.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
						GROUP 01 VOLTMETER, ELECTRONIC ME-260/U OR ME-260A/U A3		
2	1	XDOZZ		5060-0705	28480	COVER, TOP		EA 1
2	2	XDOZZ		5000-0702	28480	COVER, SIDE		EA 2
2	3	PAOZZ	5305-00-957-6265	MS35190-234	96906	SCREW, MACHINE		EA 8
2	6	XDOZZ		5000-0710	28480	COVER, BOTTOM		EA 1
2	7	PAOZZ	5305-00-059-4550	MS35190-235	96906	SCREW, MACHINE		EA 1
2	8	XDOZZ		C8020-632-24B	78553	NUT, SHEET SPRING		EA 1
2	9	XDOZZ		4320-0011	28480	WEATHER STRIP		EA 9

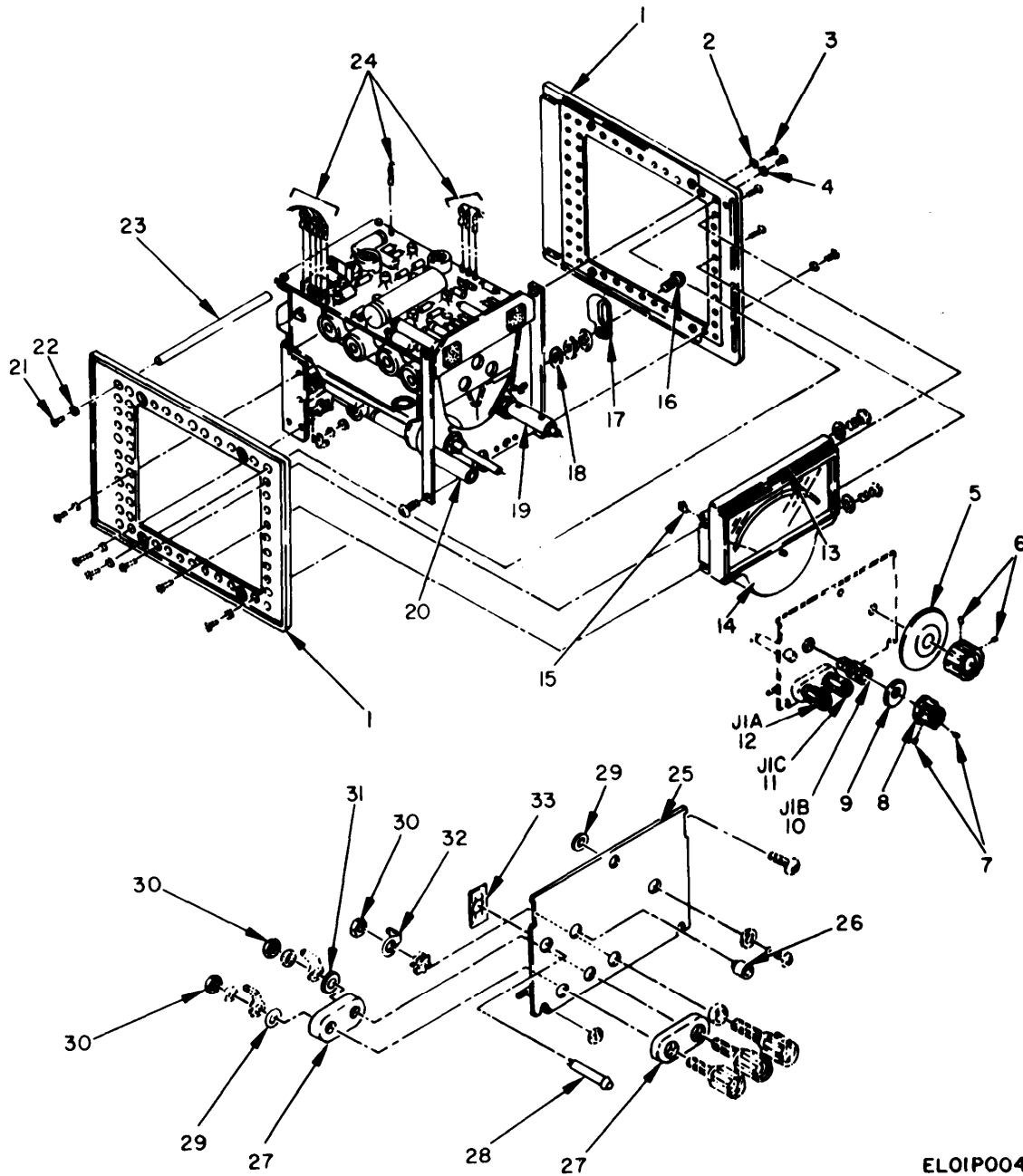


Figure 3. Voltmeter, Electronic ME-260/U or ME-260A/U A3, Front Panel Assembly.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	USABLE ON CODE	U/M	QTY INC IN UNIT
3	6	XDOZZ	5305-00-719-5336	MS51963-33	96906	SETSCREW	EA	2
3	7	PAOZZ	5305-00-719-5342	MS51963-34	96906	SETSCREW	EA	2
3	8	PAOZZ	5355-00-760-3248	0370-0087	28480	KNOB	EA	1

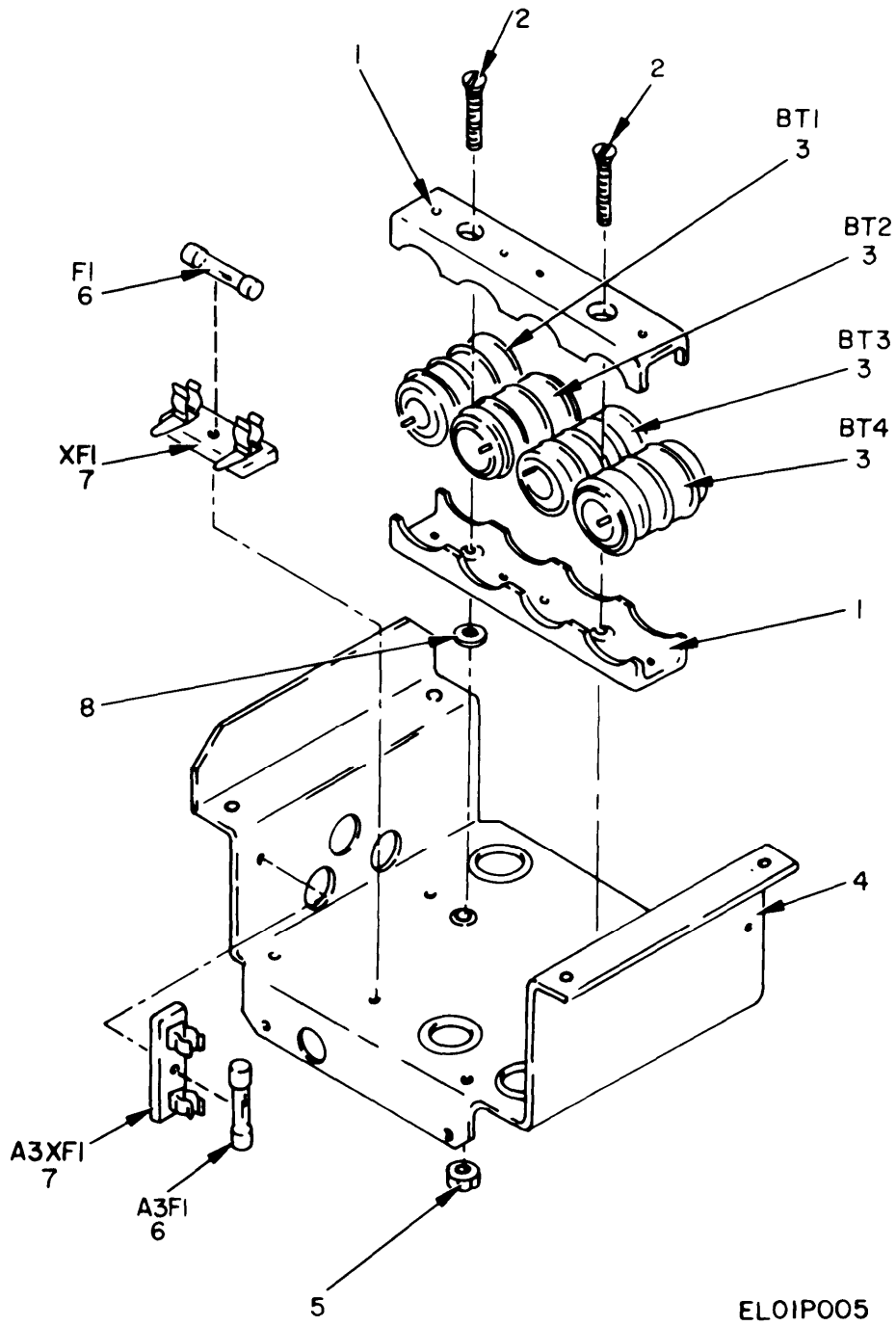


Figure 4. Voltmeter, Electronic ME-260/U or ME-260A/U A3, Voltmeter Electrical Equipment Chassis.

SECTION II

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(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
4	1	XDOZZ	6135-00-851-0857	5040-0615	28480	RETAINER, BATTERY	EA	2
4	2	XDOZZ		2370-0010	28480	SCREW, MACHINE	EA	2
4	3	XDOZZ		5B225-6V	28480	BATTERY, NICKEL CADMIUM	EA	4
4	5	XDOZZ	5310-00-934-9761	MS35649-264	96906	NUT, PLAIN, HEXAGON	EA	2
4	6	FAOZZ	5920-00-142-4837	312-062	75915	FUSE, CARTRIDGE	EA	2

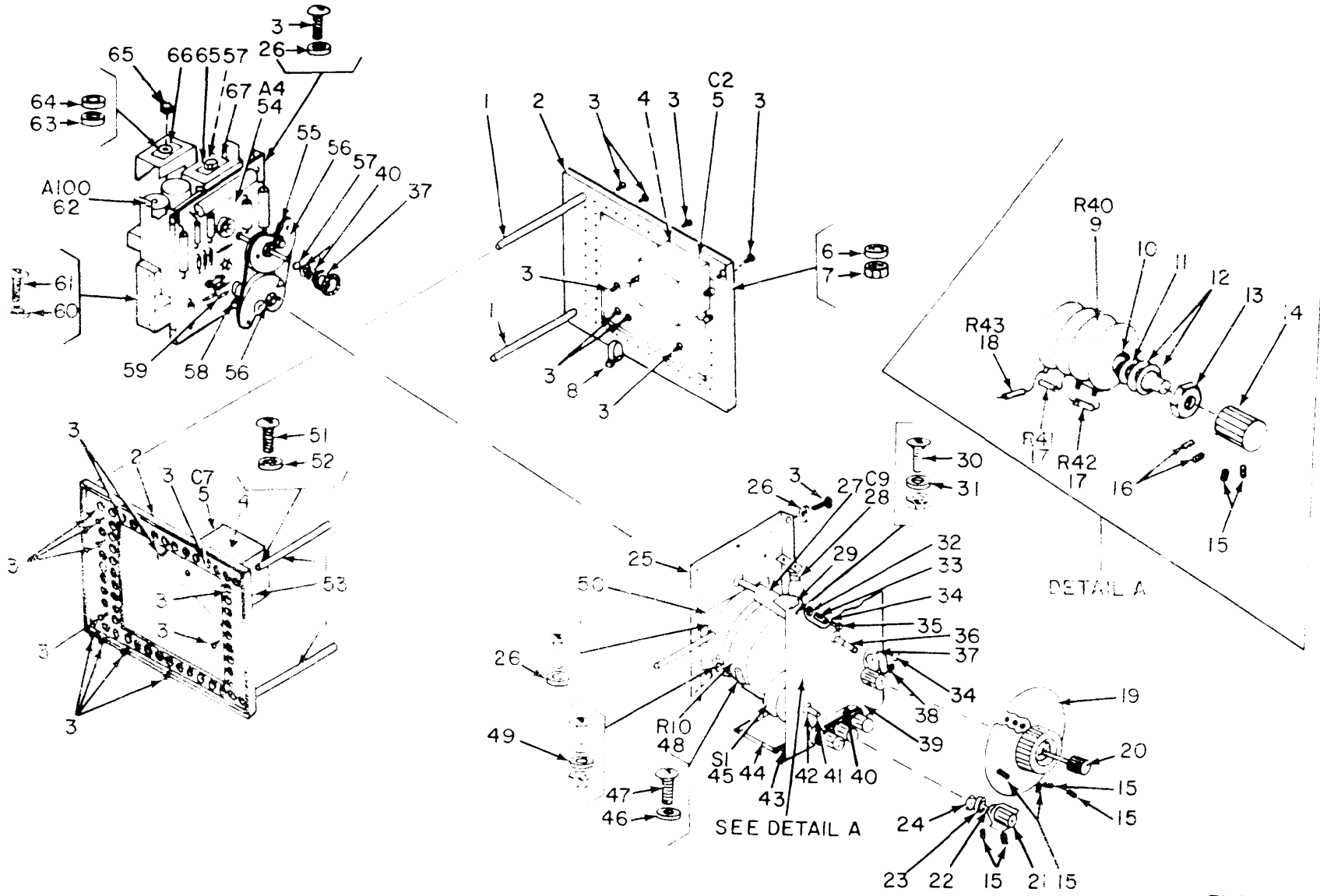


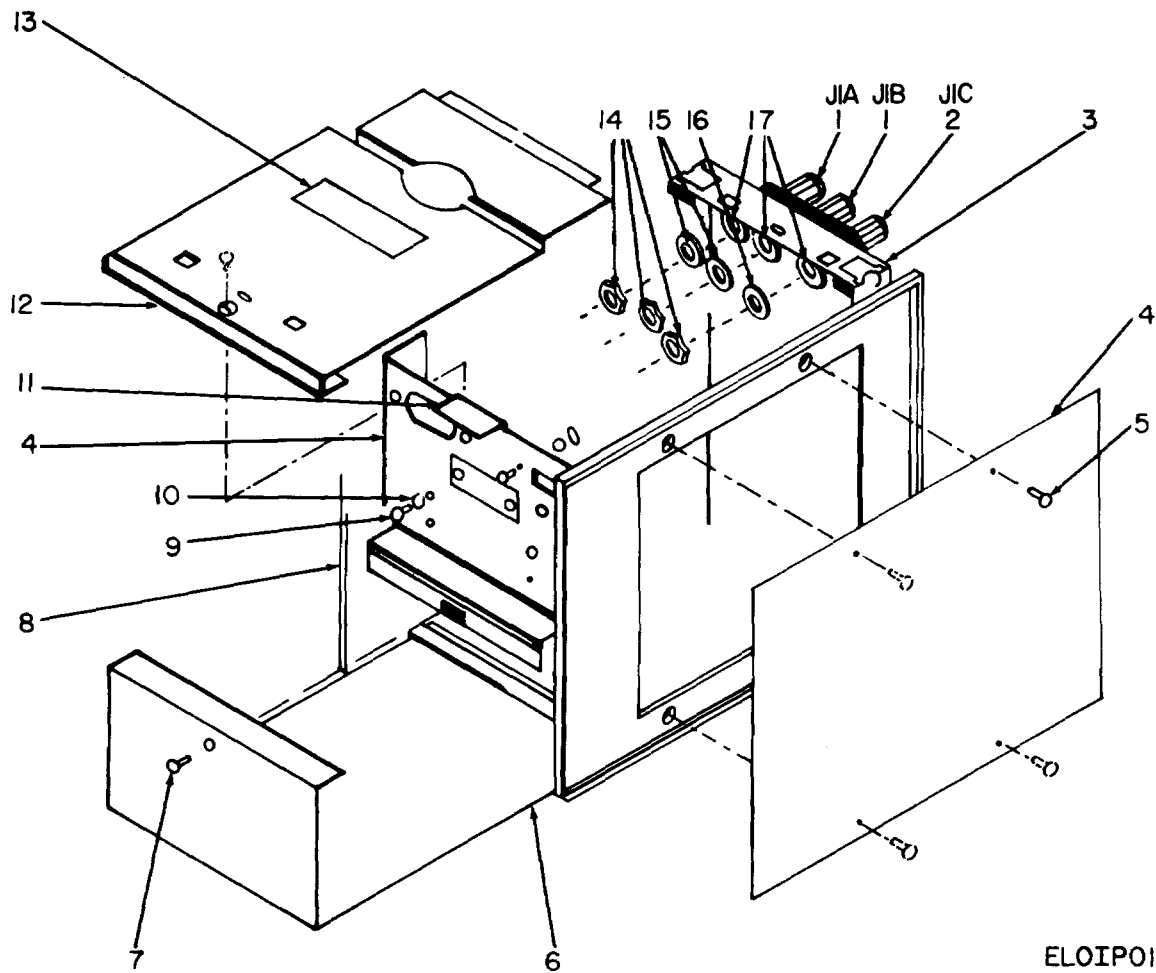
Figure 5. Generator, Signal SG-543/U or SG-543A/U A1.

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SECTION II

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(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
5	14	PAOZZ	5355-00-809-9329	0370-0084	28480	GROUP 02 GENERATOR,SIGNAL SG-543/U OR SG-543A/U AI KNOB	EA	1
5	15	PAOZZ	5305-00-719-5330	MS51963-21	96906	SETSCREW	EA	8
5	16	PAOZZ	5305-00-719-5336	S51963-33	96906	SETSCREW	EA	2
5	19	PAOZZ	5355-00-764-2927	204B40B	28480	DIAL,SCALE	EA,	1
5	20	PAOZZ	5355-00-965-4881	0370-0062	28480	KNOB	EA	1
5	21	PAOZZ	5355-00-760-3248	0370-0087	28480	KNOB	EA	1



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Figure 6. General, Signal SG-543/U or SG-543A/U A11, Top View.

ILLUSTRATION	(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
	(a)	(b)							
FIG NO.	ITEM NO.	SMR CODE							
6	4	XDOZZ			5000-0702	28480	COVER, SIDE		EA 2
6	5	XDOZZ			237-0012	28480	SCREW, MACHINE	B6M	EA 8
6	5	XDOZZ	5305-00-957-6265		MS35190-234	96906	SCREW, MACHINE	AG9	EA 8
6	6	XDOZZ			5060-705	28480	COVER, TOP		EA 1
6	7	XDOZZ	5305-00-174-1167		AN507-632-5	88044	SCREW, MACHINE	B6M	EA 1
6	7	XDOZZ	5305-0-059-4550		MS35190-235	96906	SCREW, MACHINE	AG9	EA 1
6	8	XDOZZ			204B2B	28480	PANEL, REAR		EA 1
6	9	XDOZZ	5305-00-059-4553		1 135190-238	96906	SCREW, MACHINE		EA 4
6	10	XDOZZ	5310-00-472-6996		2420-0007	28480	NUT, PLAIN, HEXAGON		EA 4

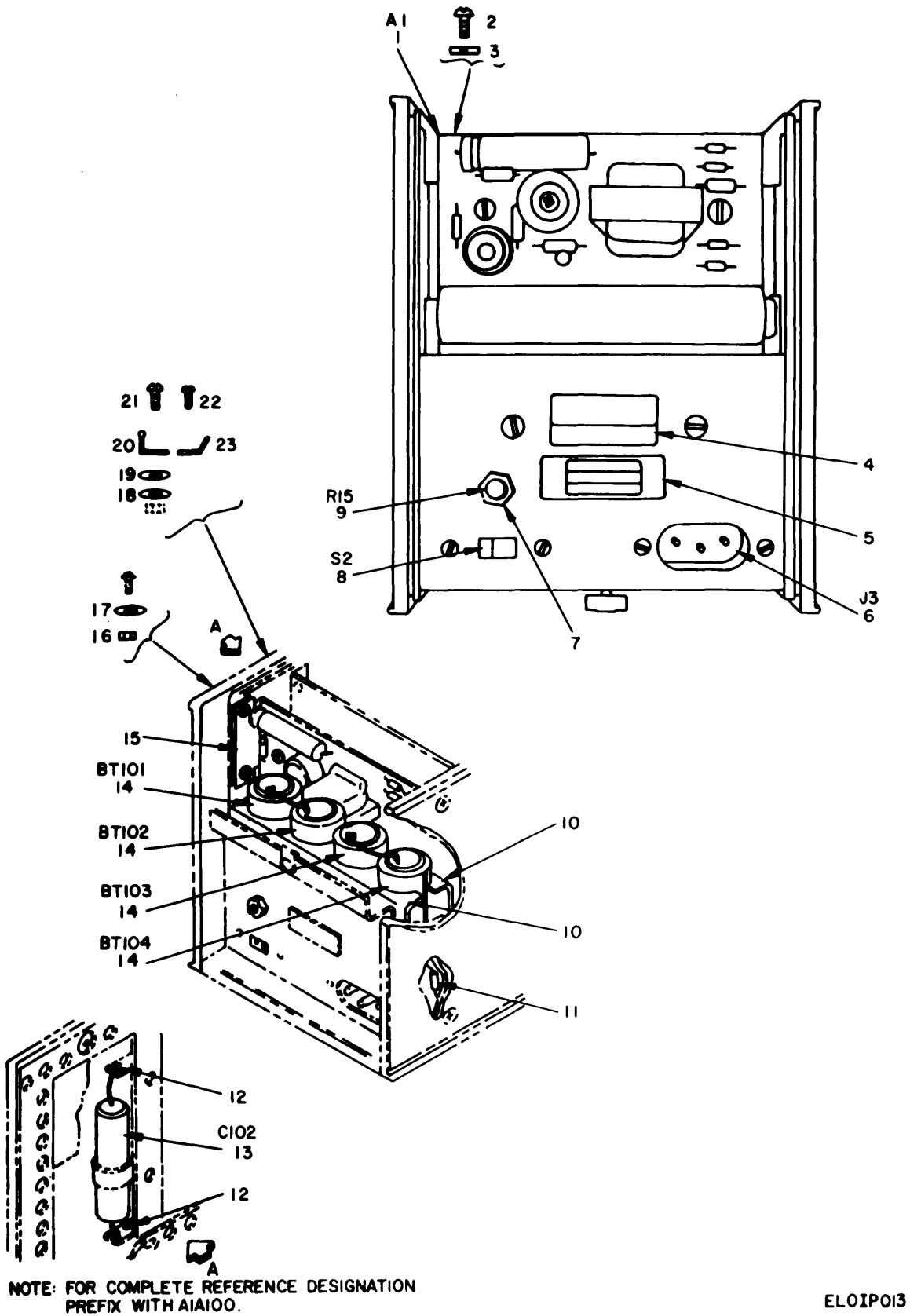
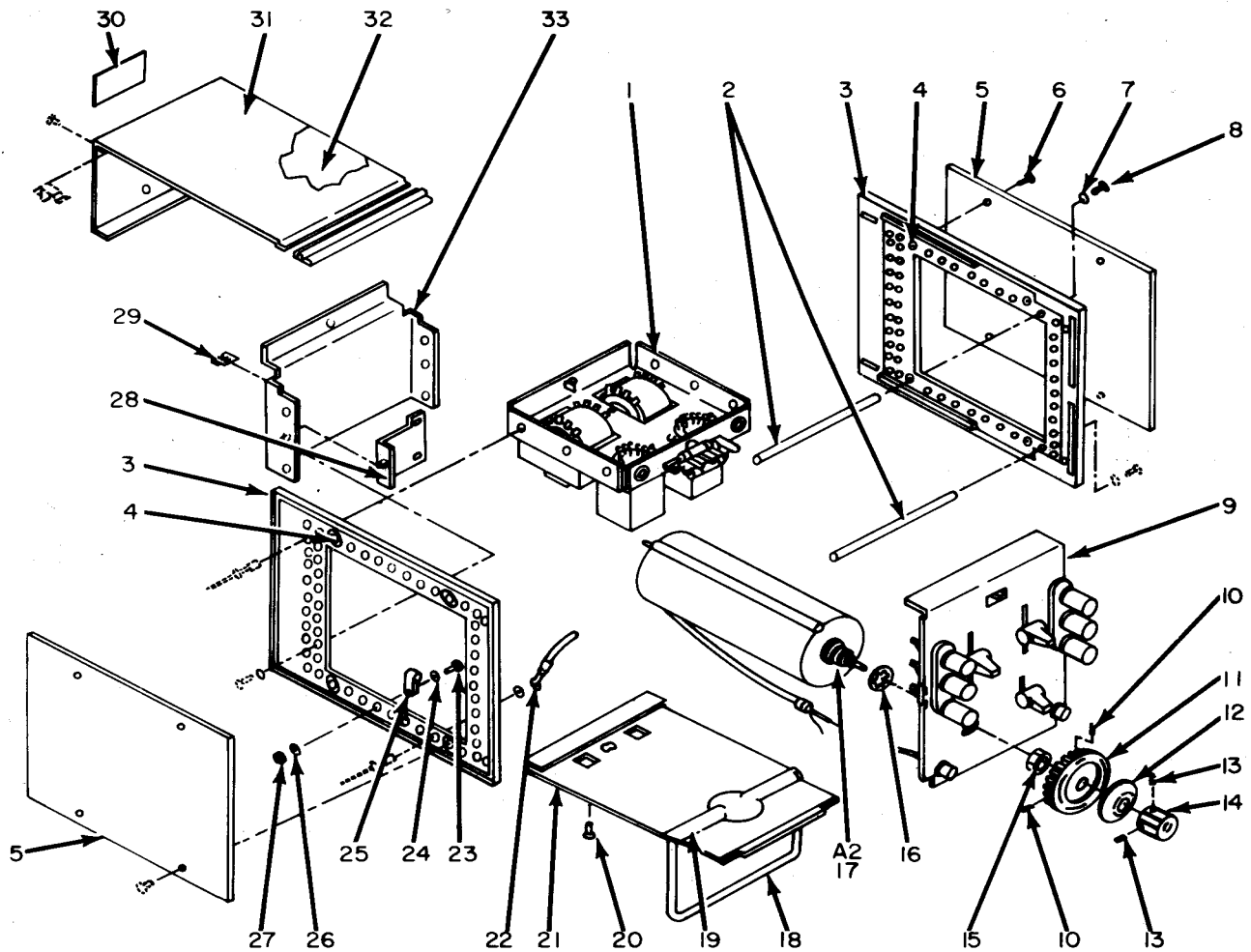


Figure 7. Power Supply Assembly A1A100.

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(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
7	10	XDOZZ	6135-00-851-0857	5040-0615	28480	GROUP 0202 POWER SUPPLY ASSEMBLY A1A100 RETAINER,BATTERY	EA	2
7	14	PAOZZ	6140-00-794-9959	1420-5015	28480	BATTERY,NICKEL CADIMUM	EA	4

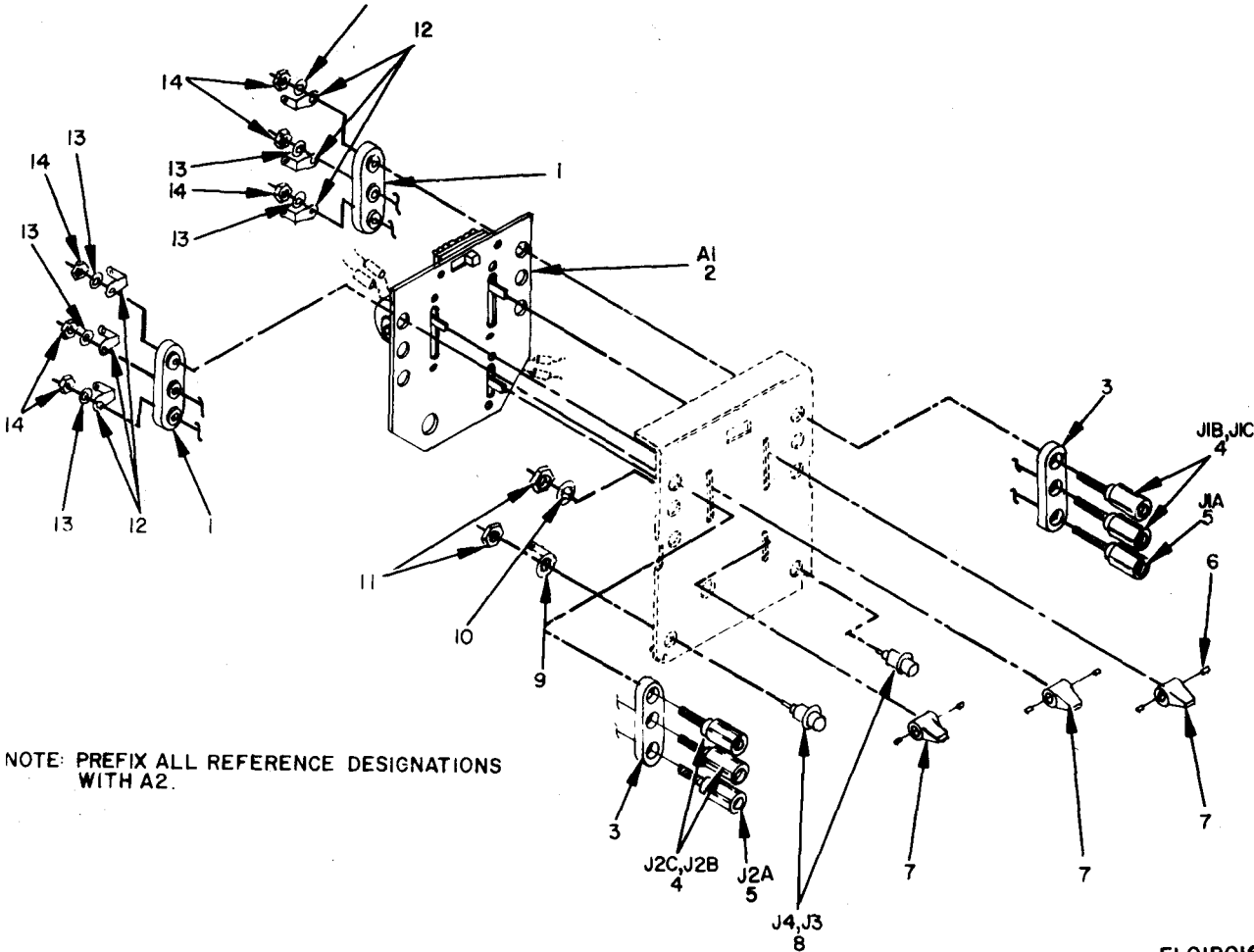


NOTE FOR COMPLETE REFERENCE DESIGNATION PREFIX WITH A2.

ELOIPO15

Figure 8. Attenuator, Impedance Matching CN-947/USM-181 or CN-947A/USM-181 A2.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 03 ATTENUATOR,IMPEDANCE MATCHING CN-947/UM-181 OR CN-947A/LU-181 A2		
8	10	PAOZZ	5305-00-719-5330	MS51963-21	96906	SETSCREW	EA	2
8	11	PAOZZ	5355-00-907-3461	0370-0130	28480	KNOB	EA	1
8	12	PAOZZ	5355-00-907-3462	353A74A	28480	DIAL,SCALE	EA	1
8	13	PAOZZ	5305-00-719-5342	MS51963-34	96906	SETSCREW	EA	2
8	14	PAOZZ	5355-00-085-7710	0370-0073	28480	KNOB	EA	1

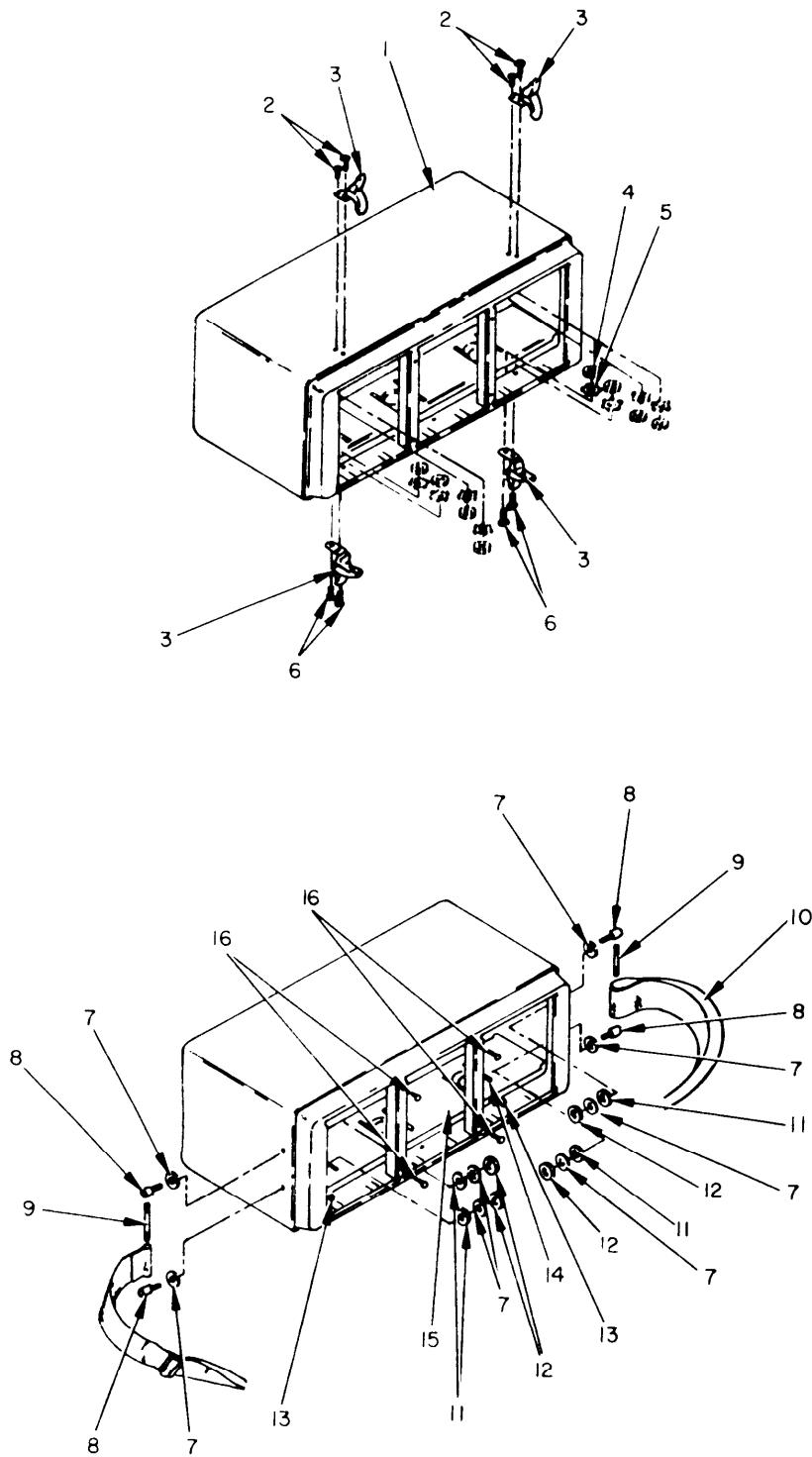


NOTE: PREFIX ALL REFERENCE DESIGNATIONS WITH A2.

ELOIP016

Figure 9. Attenuator, Impedance Matching CN-947/USM-181 or CN-947A/USM-181 A2, Front Panel Assembly, Exploded 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 USABLE ON CODE	U/M	QTY INC IN UNIT
9	6	PAOZZ	5305-00-719-5330	MS51963-21	96906	SETScrew	EA	8
9	7	PAOZZ	5355-00-907-3460	0370-0046	28480	Knob	EA	3



NOTE: ON AN/USM-181A PREFIX
ALL REFERENCE DESIGNATION
WITH A4.

ELOIPO20

Figure 10. Case, Test Set CY-4071/USM-181 A4.

SECTION II

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(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 04 CASE,TEST SET CY-40AL71181 A4		
10	7	PAOZZ	5310-933-8119	MS35338-137	96906	WASHER,LOCK AG9	EA	8
10	7	XDOZZ		2190-0018	28480	WASHER, LOCK B6M	EA	8
10	8	XDOZZ		PC24819-32	77386	POST,STRAP LOOP	EA	4
10	9	XDOZZ		11046-23701	28480	PIN,STRAIGHT,HEADLESS	EA	2
10	10	XDZZ		1530-005	28480	STRAP,CARRYING	EA	1
10	11	PAOZZ	5310-00-880-5976	MS15795-806	96906	WASHER, FLAT AG9	EA	4
10	11	PAOZZ	5310-00-802-0660	3050-0066	28480	WASHER, FLAT B6M	EA	4
10	12	PAOZZ	5310-00-934-9757	MS35649-282	96906	NUT,PLAIN,HEXAGON AG9	EA	4
10	12	XDOZZ		2420-0002	28480	NUT,PLAIN,HEXAGON B6M	EA	4

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	NATIONAL STOCK NUMBER IND				
	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5305-00-059-4550	2	7	5310-00-802-0660	10	11
5305-00-059-4550	6	7	5355-00-809-9329	5	14
5305-00-059-4553	6	9	6135-00-851-0857	4	1
5355-00-085-7710	6	14	6135-00-851-0857	7	10
5920-00-142-4837	4	6	5310-00-880-5976	10	11
5305-00-174-1167	6	7	5355-00-907-3460	7	7
5310-00-472-6996	6	10	5355-00-907-3461	6	11
5305-00-719-5330	5	15	5355-00-907-3462	8	12
5305-00-719-5330	7	6	5310-00-933-8119	10	7
5305-00-719-5330	8	10	5310-00-934-9757	10	12
5305-00-719-5336	3	6	5310-00-934-9761	4	5
5305-00-719-5336	5	16	5305-00-957-6265	2	3
5305-00-719-5342	3	7	5305-00-957-6265	6	5
5305-00-719-5342	6	13	6625-00-965-1532	1	6
5355-00-760-3248	3	8	6625-00-965-1533	1	1
5355-00-760-3248	5	21	6625-00-965-1534	1	2
6625-00-763-2390	1	3	5355-00-965-4881	5	20
5355-00-764-2927	5	19	5995-00-985-8160	1	4
5995-00-764-3646	1	4	5995-00-995-9822	1	7
6140-00-794-9959	7	14			

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
AN507-632-5	88044	6	7	0370-0046	28480	9	7
CG2723U	80058	1	4	0370-0062	28480	5	20
CG3566U	80058	1	4	0370-0073	28480	8	14
CNO947AU1181	80058	1	3	0370-0084	28480	5	14
CN9470SM181	80058	1	3	0370-0087	28480	3	8
CX903U	80058	1	7	0370-0087	28480	5	21
CX9031U	80058	1	8	0370-0130	28480	8	11
CY4071USM181	80058	1	1	11046-23701	28480	10	9
C08020-632-24B	78553	2	8	1420-0015	28480	7	14
ME260AU	80058	1	2	1530-0005	28480	10	10
ME260U	80058	1	2	204B2B	28480	6	8
MS15795-806	96906	10	11	204B40B	28480	5	19
MS35190-234	96906	2	3	2190-0018	28480	10	7
MS35190-234	96906	6	5	2370-0010	28480	4	2
MS35190-235	96906	2	7	2370-0012	28480	6	5
MS35190-235	96906	6	7	2420-0002	28480	10	12
MS35190-238	96906	6	9	2420-0007	28480	6	10
MS35338-137	96906	10	7	3050-0066	28480	10	11
MS35649-264	96906	4	5	312-062	75915	4	6
MS35649-282	96906	10	12	353A74A	28480	8	12
MS51963-21	96906	5	15	4320-0011	28480	2	9
MS51963-21	96906	9	6	5B225-6V	28480	4	3
MS51963-21	96906	8	10	5000-0702	28480	2	2
MS51963-33	96906	3	6	5000-0702	28480	6	4
MS51963-33	96906	5	16	5000-0710	28480	2	6
MS51963-34	96906	3	7	5040-0615	28480	4	1
MS51963-34	96906	8	13	5040-0615	28480	7	10
PC2819-32	77386	10	8	5060-0705	28480	2	1
SG543AU	80058	1	6	5060-0705	28480	6	6
SG543U	80058	1	6				

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DATE 10 July 1975

PUBLICATION NUMBER

TM 11-5840-340-12

DATE

23 Jan 74

TITLE

Radar Set AN/PSC-76

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PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.
2-25	2-28		
3-10	3-3		3-1
5-6	5-8		
		FO3	

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 25 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, Function 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

SIGN HERE:

SSG I. M. DeSpirito

DA FORM 2028-2 (TEST) 1 AUG 74

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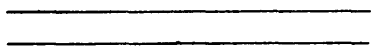
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For explanation of abbreviations used, see AR 310-50.

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