TM 11-5820-520-20P-1

TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR

RADIO SET AN/GRC-106 (NSN 5820-00-402-2263)

HEADQUARTERS, DEPARTMENT OF THE ARMY

FEBRUARY 1978

TECHNICAL MANUAL
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HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, *21 February 1978*

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Current as of 10 August 1977

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***This manual supersedes so much of TM 11-5820-520-12, 25 February 1971, including all changes as pertains to repair parts and special tools list for the AN/GRC-106.**

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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/GRC-106. 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 alphameric 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.

(*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.
H	—Reparable item. When uneconomically reparable, condemn and dispose at the general support level.
D	—Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot 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

a. The following publications pertain to the AN/GRC-106 and its components:

TM 11-5820-467-15, Antenna Group AN/GRA-50
TM 11-5820-467-24P, Antenna Group AN/GRA-50
TM 11-5820-520-12, Radio Sets AN/GRC-106 and AN/GRC-106A
TM 11-5965-222-14P, Dynamic Loudspeaker LS-166/U

b. The illustrations in this manual are identical to those published in TM 11-5820-520-34P-1. 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 4.1)

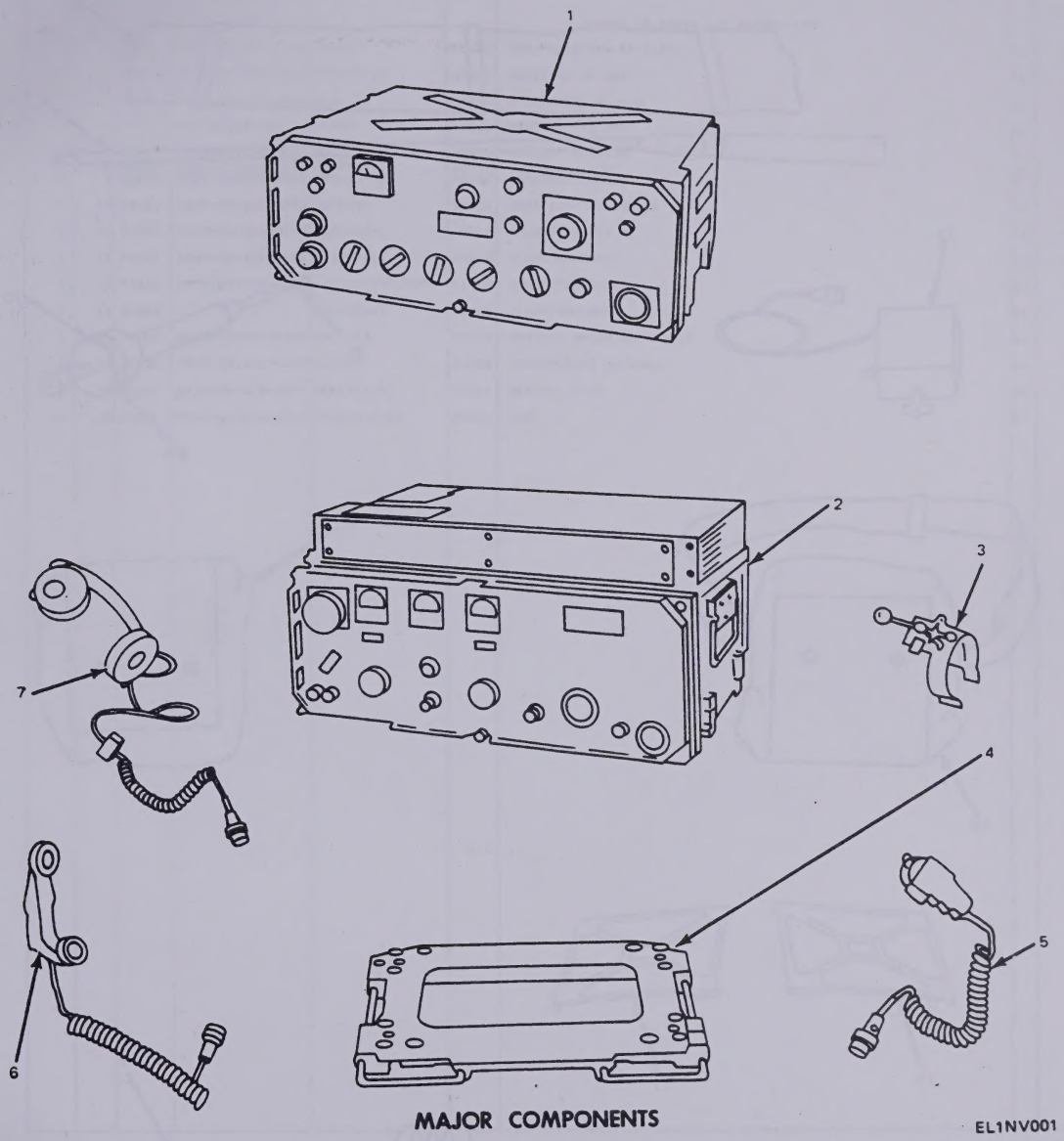


Figure 1. Radio Set AN/GRC-106 (Sheet 1 of 2).

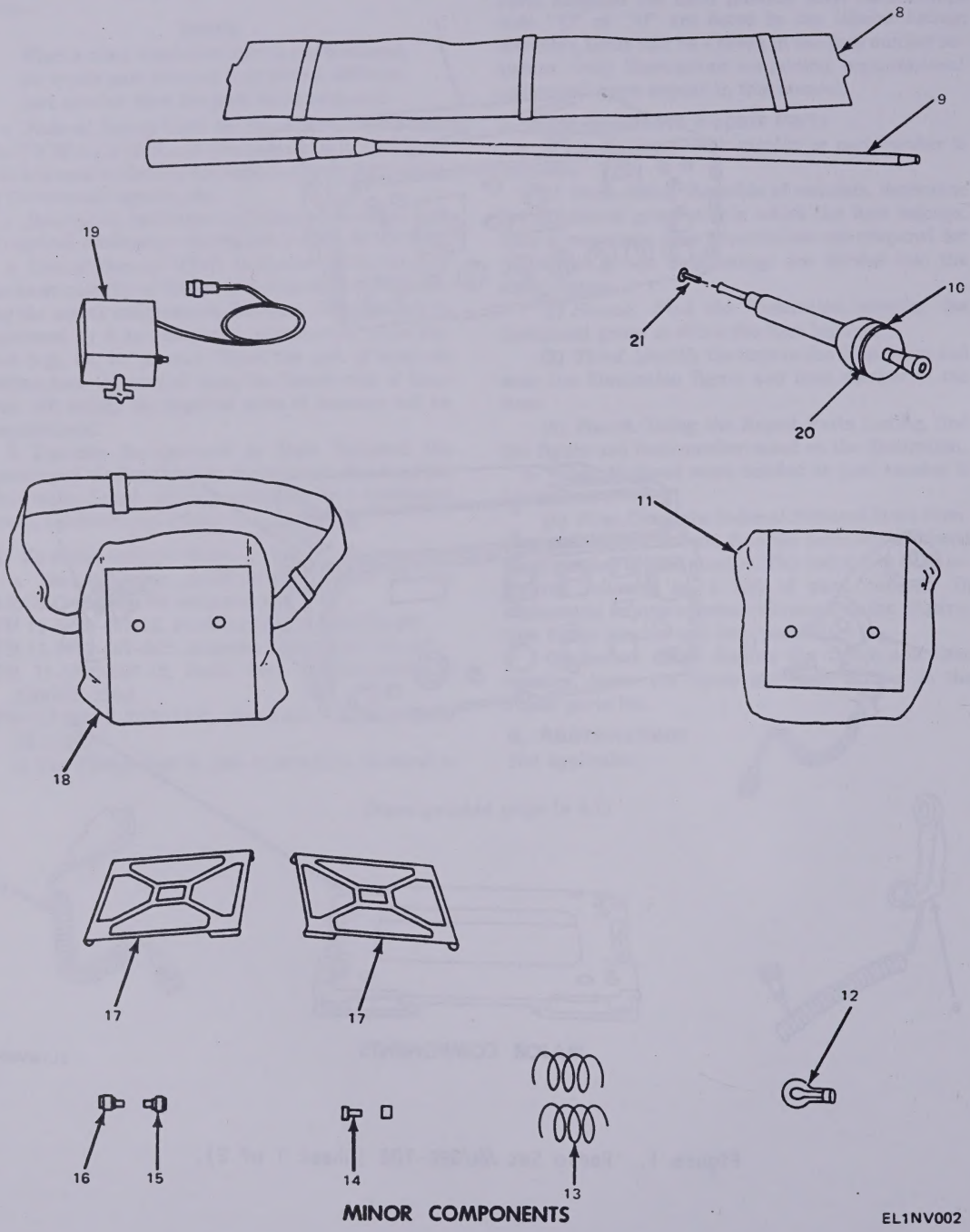


Figure 1. Radio Set AN/GRC-106 (Sheet 2 of 2).

(1) ILLUSTRATION (a) FIG NO.	(1) ILLUSTRATION (b) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 RADIO SET AN/GRC-106		
1	3	PAOZZ	5805-00-503-3395	KY116U	80058	KEY,TELEGRAPH KY-116/U	EA	1
1	4	PAODD	5820-00-078-5614	SMD500797	80063	MOUNTING MT-3140	EA	1
1	5	PAOZZ	5965-00-194-9770	M29U	80058	MICROPHONE M-29/U	EA	1
1	6	PAOZZ	5965-00-165-9947	H33PT	80058	HANDSET H-33/PT	EA	1
1	7	PAOZZ	5965-00-226-2915	H227U	80058	HEADSET H-227/U	EA	1
1	8	PAOZZ	8105-00-200-2329	CW206GR	80058	BAG,GW-206/GR	EA	1
1	9	PAOZZ	5820-00-078-4769	SMD500428	80063	ANTENNA COVER	EA	1
1	10	PAOZZ	5820-00-078-4770	AB652VR	80058	MAST BASE AB-652/VR	EA	1
1	11	PAODD	7650-00-089-9570	SCC446196	80063	GROUNDING KIT	EA	1
1	12	PAOZZ	5340-00-286-2491	SCB19491A	80063	CLAMP,ANTENNA	EA	1
1	13	PAOZZ	5970-00-498-3745	MIL110TYPEL221	81349	INSULATOR IN-104	EA	2
1	14	XDOZZ		SMC500427	80063	CLAMP,ANTENNA	EA	1
1	18	PDODD	5985-00-892-0758	ANGRA50	80058	ANTENNA GROUP AN/GRA-50	EA	1
1	19	PDODD	5965-00-243-6420	LS166U	80058	LOUDSPEAKER LS-166/U	EA	1
1	20	PAOZZ	5310-00-189-8907	SCD12520-2	80063	WASHER, FLAT	EA	1
1	21	PAOZZ	5999-00-264-9213	SCD19572-28	80063	CAP	EA	1

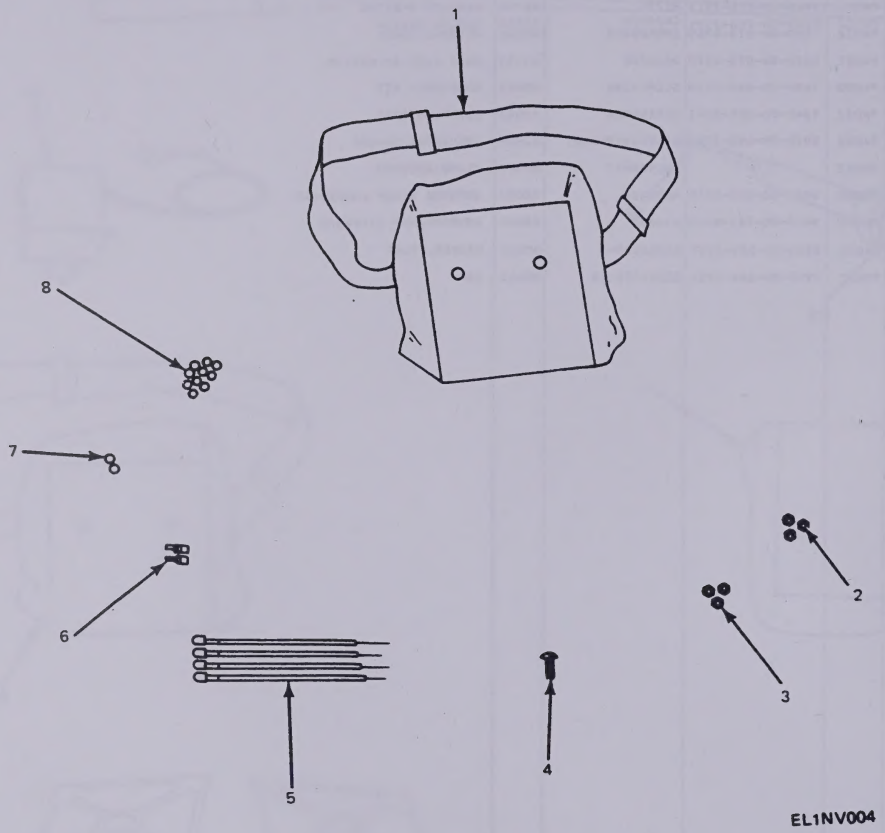
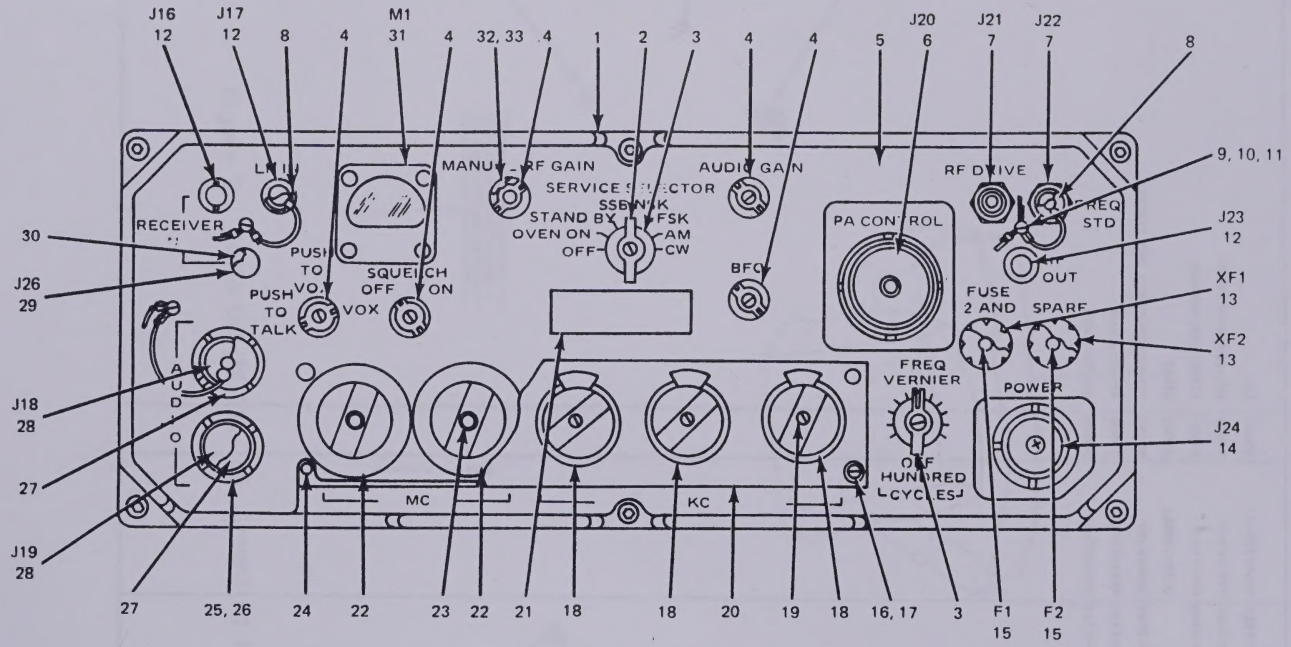


Figure 2. Radio Set AN/GRC-106, Grounding Kit.

(1) ILLUSTRATION (a) FIG NO.	(1) ILLUSTRATION (b) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
2	1	PAOZZ	8105-00-271-1511	SCB49729-7	80063	BAG	EA	1
2	3	PAOZZ	5310-00-768-0319	MS51968-2	96906	NUT,PLAIN,HEXAGON	EA	3
2	4	PAOZZ	5305-00-068-0506	MS90726-6	96906	SCREW,CAP,HEXAGON	EA	3
2	5	XDOZZ		SCB75180GR6	80063	STRAP	EA	4
2	6	PAOZZ	5307-00-089-9568	SCB446197	80063	STUD,SHOULDERED AND STEPPED	EA	2
2	7	PAOZZ	5310-00-209-1239	MS35335-60	96906	WASHER,LOCK	EA	2
2	8	PAOZZ	5310-00-889-2528	MS45904-68	96906	WASHER,LOCK	EA	12



FRONT VIEW

EL1NV006

Figure 3. Chassis Assembly (1A1).

(1) ILLUSTRATION (a) FIG NO.	(1) ILLUSTRATION (b) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 0101 CHASSIS ASSEMBLY (1A1)		
3	2	PAOZZ	5305-00-402-2646	LP57J40S4	03038	SCREW,SELF-LOCKING	EA	1
3	3	PAOZZ	5355-00-945-6596	SM-C-502491	80063	KNOB	EA	2
3	4	PAOZZ	5355-00-727-8497	SMC500407	80063	KNOB	EA	5
3	8	XDOZZ		SMB502634	80063	COVER,ELECTRICAL CONNECTOR	EA	5
3	9	PAOZZ	5305-00-054-5650	MS51957-16	96906	SCREW,MACHINE	EA	1
3	10	PAOZZ	5365-00-308-1619	SMB502828	80063	SPACER,SLEEVE	EA	1
3	11	PAOZZ	5310-00-782-1349	AN960-C4	88044	WASHER,FLAT	EA	1
3	15	PAOZZ	5920-00-280-4960	F02A250V2A	81349	FUSE,CARTRIDGE	EA	2
3	16	XDOZZ		SM-C-500791-3	80063	SCREW,MACHINE	EA	6
3	17	XDOZZ		SMC500896-3	80063	WASHER,FLAT	EA	6
3	18	PAOZZ	5355-00-727-8506	SMD500501	80063	KNOB	EA	3
3	19	PAOZZ	5305-00-004-6520	SMB501079-2	80063	SCREW,SELF-LOCKING	EA	3
3	20	XDOZZ		SMD500139	80063	COVER,CONTROL DIAL	EA	1
3	21	XDOZZ		SMC508584	80063	PLATE,IDENTIFICATION	EA	1
3	22	PADZZ	5355-00-727-8500	SMD500502	80063	KNOB	EA	2
3	23	PAOZZ	5305-00-004-6520	SMB501079-2	80063	SCREW,SELF-LOCKING	EA	2
3	27	XDOZZ		SMC502637	80063	COVER,ELECTRICAL CONNECTOR	EA	2

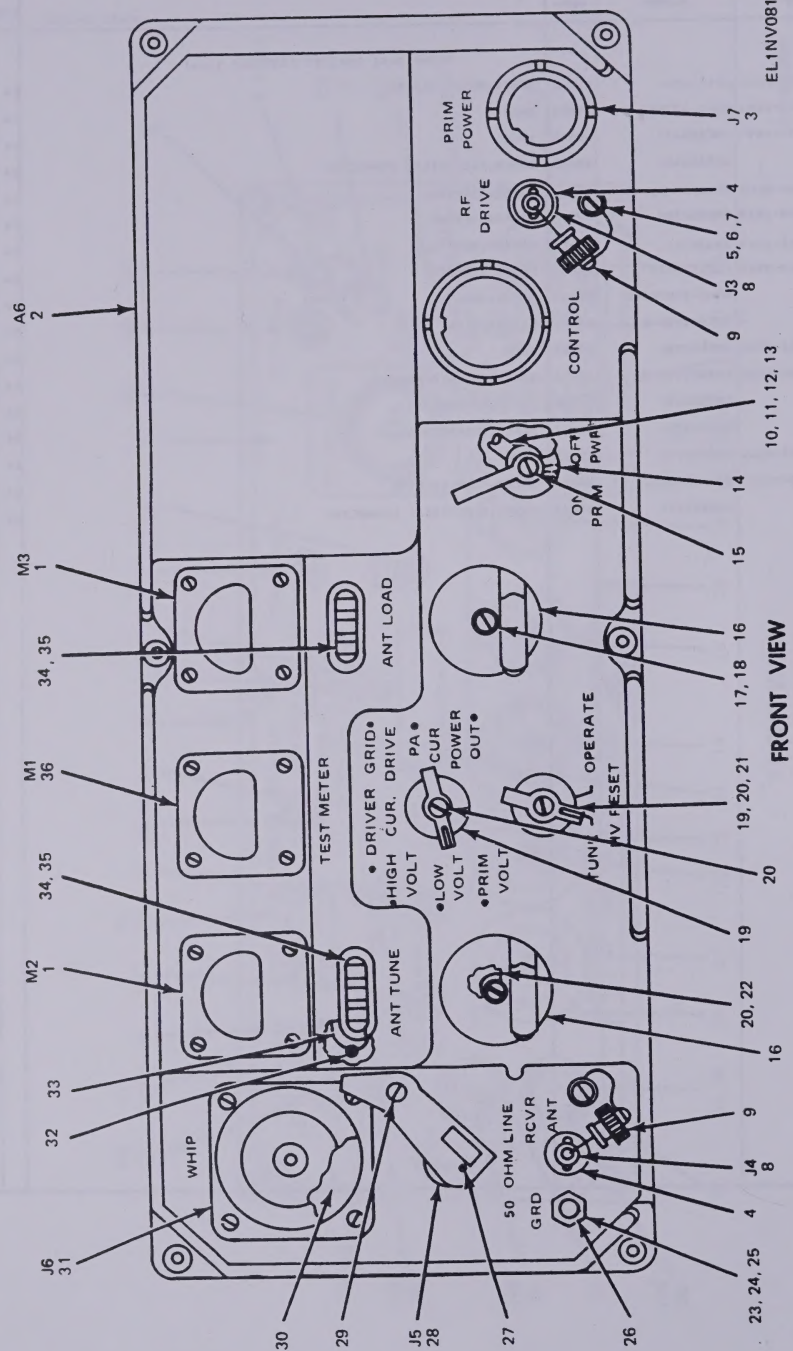


Figure 4. Panel, Power Amplifier (2A1A5).

(1) ILLUSTRATION (a) FIG NO.	(1) ILLUSTRATION (b) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION / USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 020102 PANEL,POWER AMPLIFIER (2A1A5)		
4	5	PAOZZ	5305-00-054-5650	MS51957-16	96906	SCREW,MACHINE	EA	1
4	6	PAOZZ	5365-00-308-1619	SMB502828	80063	SPACER,SLEEVE	EA	1
4	7	PAOZZ	5310-00-782-1349	AN960-C4	88044	WASHER,FLAT	EA	1
4	9	XDOZZ		SMB502634	80063	COVER,ELECTRICAL CONNECTOR	EA	2
4	14	PAOZZ	5355-00-926-5270	SMC503203	80063	KNOB,CONTROL	EA	1
4	15	PAOZZ	5305-00-544-6185	LP56A9255	03038	SCREW,SELF-LOCKING	EA	1
4	16	PAOZZ	5355-00-613-7120	MS91522-1	96906	KNOB	EA	2
4	17	PAOZZ	5305-00-004-6520	SMB501079-2	80063	SCREW,SELF-LOCKING	EA	3
4	18	XDOZZ		SMB502930	80063	SPACER	EA	4
4	19	PAOZZ	5355-00-945-6596	SM-C-502491	80063	KNOB	EA	2
4	20	PAOZZ	5310-00-159-6321	MS25082-20	96906	NUT,PLAIN,HEXAGON	EA	1

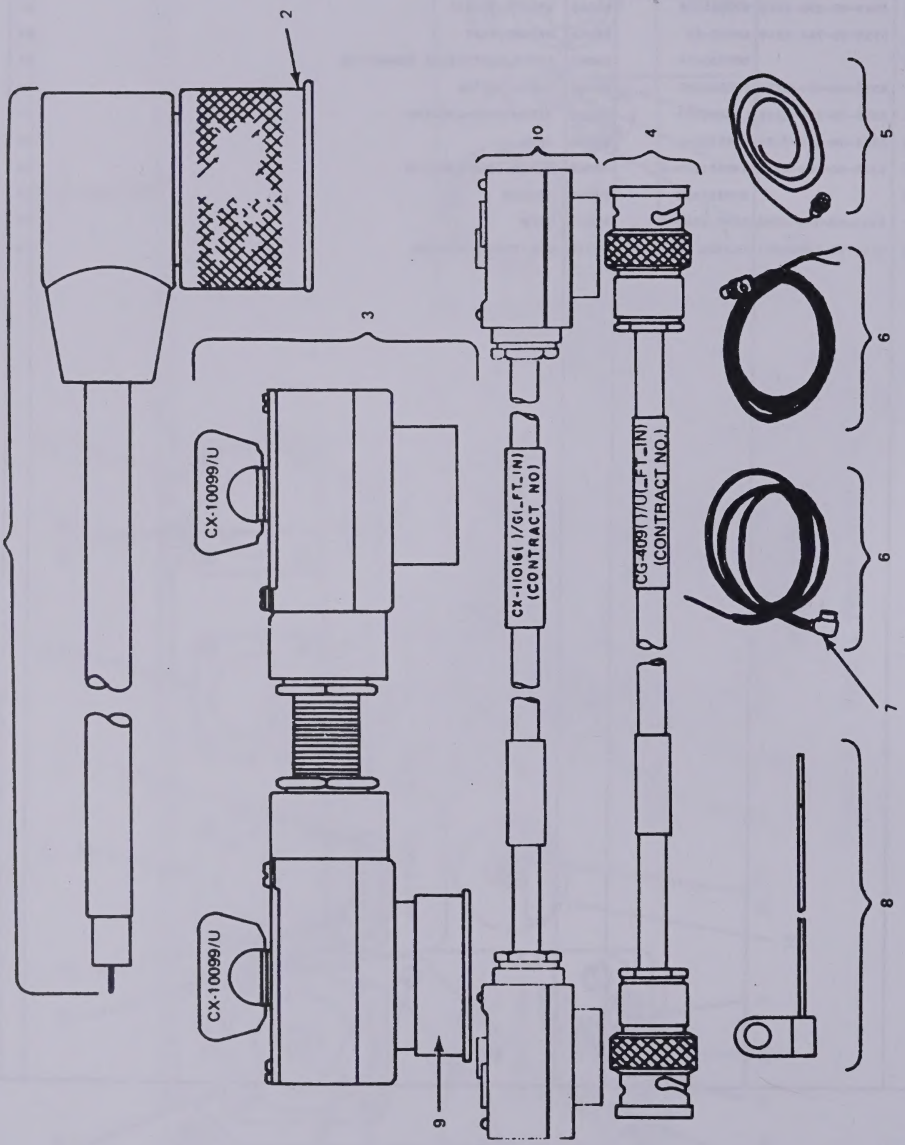


Figure 5. Interconnecting Cables.

(1) ILLUSTRATION (a) FIG NO.	(1) ILLUSTRATION (b) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION / USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 04 INTERCONNECTING CABLES		
5	1	PAOHH	5995-00-985-8014	SMC502924	80063	LEAD,ELECTRICAL	EA	1
5	2	PAOZZ	5340-00-821-7306	MS25177-32	96906	CAP,PROTECTIVE,DUST&MSTRE SEAL	EA	1
5	3	PAOHH	5995-00-985-8005	CX10099U7IN	80058	CABLE ASSY,SPECPUR CX-10099/U	EA	1
5	4	PAOHH	5995-00-578-6353	CG409GU	80058	CABLE ASSY CG-409G/U	EA	2
5	5	XDOHH		CX1852/U	80058	CABLE ASSY CX-1852/U	EA	1
5	6	PAOHH	5995-00-782-9472	SM0502972	80063	CABLE ASSY,SPECPUR CX-10071/U	EA	2
5	8	PAOHH	6150-00-170-5573	SCB27840-4	80063	JUMPER,ELECTRICAL SCB27840-4	EA	1
5	9	PAOZZ	5340-00-857-3247	MS25177-24	96906	CAP,PROTECTIVE,DUST&MSTRE SEAL	EA	2
5	10	PAOHH	5995-00-985-7807	CX11016G6FT	80058	CABLE ASSY CX-11016/G	EA	1

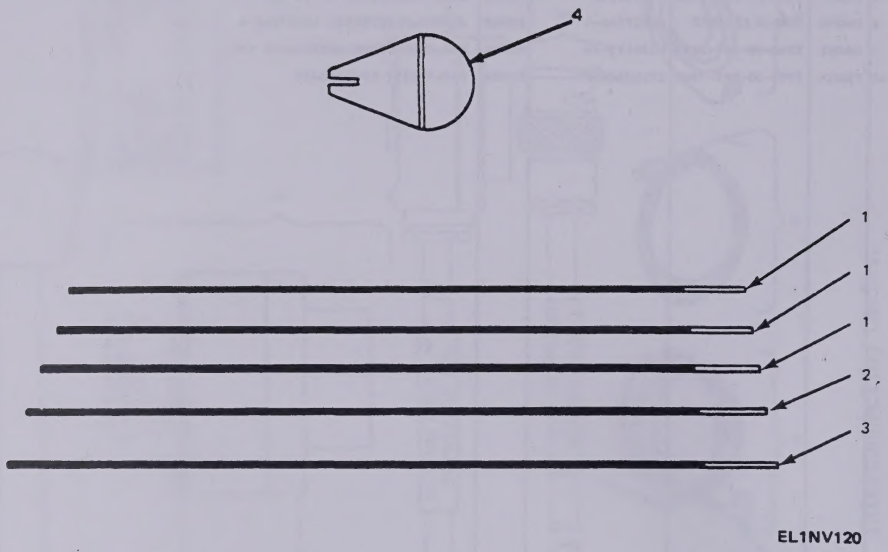


Figure 6. Mast Sections MS-116-A, MS-117-A, MS-118-A.

(1) ILLUSTRATION (a) FIG NO.	(1) ILLUSTRATION (b) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 09 MAST SECTIONS MS-116-A,MS117-A, MS-118-A		
6	1	PAOZZ	5985-00-199-8831	271-1606	80063	MAST,SECTION MS-116A	EA	3
6	2	PAOZZ	5985-00-115-7149	MS117A	80063	MAST,SECTION MS-117A	EA	1
6	3	PAOZZ	5985-00-238-7474	MS118A	80063	MAST,SECTION MS-118A	EA	1
6	4	PAOZZ	5985-00-930-7223	SC-C-446046	80063	ANTENNA TIP ASSEMBLY	EA	1

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

STOCK NUMBER	FIGURE NO.	ITEM NO.
5305-00-004-6520	3	19
5305-00-004-6520	3	23
5305-00-004-6520	4	17
5305-00-054-5650	4	5
5305-00-068-0506	2	4
5820-00-078-4769	1	9
5820-00-078-4770	1	10
5820-00-078-5614	1	4
5307-00-089-9568	2	6
7650-00-089-9570	1	11
5985-00-115-7149	6	2
5310-00-159-6321	4	20
5965-00-194-9770	1	5
5310-00-209-1239	2	7
5965-00-226-2915	1	7
5985-00-238-7474	6	3
5965-00-243-6420	1	19
8105-00-271-1511	2	1
5920-00-280-4960	3	15
5340-00-286-2491	1	12
5365-00-308-1619	3	10
5365-00-308-1619	4	6
5970-00-498-3745	1	13
5805-00-503-3395	1	3
5355-00-613-7120	4	16
5355-00-727-8497	3	4
5355-00-727-8500	3	22
5355-00-727-8506	3	18
5310-00-768-0319	2	3
5995-00-782-9472	5	6
5340-00-821-7306	5	2
5340-00-857-3247	5	9
5310-00-889-2528	2	8
5985-00-892-0758	1	18
5355-00-926-5270	4	14
5355-00-945-6596	3	3
5355-00-945-6596	4	19
5995-00-985-8005	5	3
5995-00-985-8014	5	1

PART NUMBER	FSCM	FIG. NO.	ITEM NO.
AB652VR	80058	1	10
ANGRA50	80058	1	18
CG409GU	80058	5	4
CX10099U7IN	80058	5	3
CX1852/U	80058	5	5
F02A250V2A	81349	3	15
H227U	80058	1	7
H33PT	80058	1	6
KY116U	80058	1	3
LS166U	80058	1	19
MILI10TYPEL221	81349	1	13
MS117A	80063	6	2
MS118A	80063	6	3
MS25082-20	96906	4	20
MS25177-24	96906	5	9
MS25177-32	96906	5	2
MS35335-60	96906	2	7
MS45904-68	96906	2	8
MS51957-16	96906	4	5
MS51968-2	96906	2	3
MS90726-6	96906	2	4
MS91522-1	96906	4	16
M29U	80058	1	5
SCB19491A	80063	1	12
SCB27840-4	80063	5	8
SCB446197	80063	2	6
SCB49729-7	80063	2	1
SCB75180GR6	80063	2	5
SCC446196	80063	1	11
SM-C-500791-3	80063	3	16
SM-C-502491	80063	3	3
SM-C-502491	80063	4	19
SMB501079-2	80063	3	19
SMB501079-2	80063	3	23
SMB501079-2	80063	4	17
SMB502634	80063	3	8
SMB502634	80063	4	9
SMB502828	80063	3	10
SMB502828	80063	4	6
SMB502930	80063	4	18
SMC500407	80063	3	4
SMC500427	80063	1	14
SMC500896-3	80063	3	17
SMC502637	80063	3	27
SMC502924	80063	5	1
SMC503203	80063	4	14
SMC508584	80063	3	21
SMD500139	80063	3	20
SMD500428	80063	1	9
SMD500501	80063	3	18
SMD500502	80063	3	22
SMD500797	80063	1	4
SMD502972	80063	5	6
271-1606	80063	6	1

LATEST NATIONAL STOCK NUMBER ASSIGNMENT

STOCK NUMBER	FIG. NO.	ITEM NO.
5965-00-163-9947	1	6
6150-00-170-5573	5	8
5985-00-199-8831	6	1
5995-00-578-6353	5	4

ADDITIONAL LATEST NATIONAL STOCK NUMBER ASSIGNMENTS

STOCK NUMBER	FIG. NO.	ITEM NO.
5305-00-054-5650	3	9
8105-00-200-2329	1	8
5305-00-402-2646	3	2
5305-00-544-6185	4	15
5310-00-782-1349	3	11
5310-00-782-1349	4	7
5985-00-930-7223	6	4

LATEST PART NUMBER ASSIGNMENTS

PART NUMBER	FSCM	FIG. NO.	ITEM NO.
AN960-C4	88044	3	11
AN960-C4	88044	4	7
CW206GR	80058	1	8
LP56A92S5	03038	4	15
LP57J40S4	03038	3	2
MS51957-16	96906	3	9
SC-C-446-46	80063	6	4

By Order of the Secretary of the Army:

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

Official:

J.C. PENNINGTON
Brigadier General, United States Army
The Adjutant General

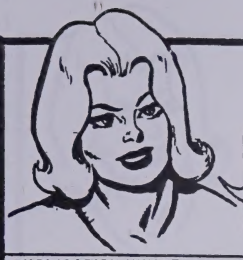
Distribution:

To be distributed in accordance with DA Form 12-51, Organizational Maintenance requirements for AN/GRC-106.

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TM 11-5820-520-20P-1

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	DATE	TITLE
TM 11-5840-340-12	23 Jan 74	Radar Set AN/MPQ-76

BE EXACT. . .PIN-POINT WHERE IT IS

PAGE NO.	PARAGRAPH	FIGURE NO.	TABLE NO.
2-25	2-28		
3-10	3-3		3-1
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 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. DeSpiritof 999-1776

SIGN HERE: SSG I.M. DeSpiritof

DA FORM 1 AUG 74 2028-2 (TEST)

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

TEAR ALONG DOTTED LINE

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL MANUALS



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PUBLICATION NUMBER	DATE	TITLE
TM 11-5820-520-20P-1		

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US Army Electronics Command
ATTN: DRSEL-MA-Q
Fort Monmouth, New Jersey 07703

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REVERSE OF DA FORM 2028-2 (TEST)

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL MANUALS



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