TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR RADIO SET AN/GRC-213 (NSN 5820-01-128-3935)

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TECHNICAL MANUAL

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ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR

RADIO SET AN/GRC-213 (NSN 5820-01-128-3935)

Current as of December 1986

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028–2 located in back of this manual direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-ME-MP, Fort Monmouth, New Jersey 07703-5000. A reply will be furnished directly to you.

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SECTION I

INTRODUCTION

1. Scope

This manual lists and authorizes 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-213. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

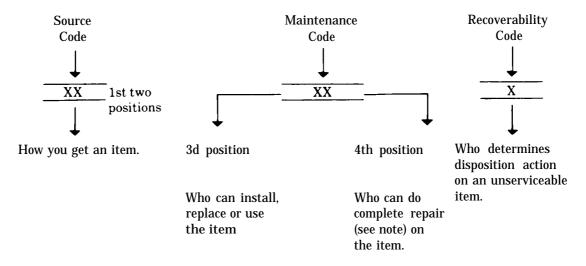
2. General

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 by this RPSTL 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 numeric sequence, with the parts in each group listed in ascending item number sequence. Figure numbers are listed directly beneath the group header.
 - 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 numbered items appearing in the listing, 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 (Section II and III)

- a. Item No. (Column (l)). Indicates the number used to identify items called out in the illustration.
- b. SMR Code (Column (2)). The source, maintenance, and recoverability (SMR) code is a five-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:



NOTE

Complete repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) *Source code* The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follows:

TM 11-5820-923-20P

category
AH—Assembled by
GS category
AL—Assembled by
SRA
AD—Assembled by
Depot

Explanation Code PA Stocked items; use the applicable NSN to request/requisition items with these source PB codes. They are authorized to the category indicated by the code entered in the PC third position of the SMR code. PD NOTE Items coded PC are subject to deterioration. PE PF PG KD Items with these codes are not to be requested/requisitioned individually. They are KF part of a kit which is authorized to the maintenance category indicated in the third KB position of the SMR code. The complete kit must be requisitioned and applied. MO-Made at Items with these codes are not to be requested/requisitioned individually, org/AVUM They must be made from bulk material which is identified by the part category number in the description and usable on code (UOC) column and listed in MF-Made at the Bulk Material group of the repair parts list. If the item is authorized DS/AVUM to you by the third position of the SMR code, but the source code indicategory cates it is made at a higher category, order the item from the higher cate-MH-Made at gory of maintenance. GS category ML-Made at Specialized Repair Activity (SRA) MD-Made at Depot Items with these codes are not to be requested/requisitioned individually. AO-Assembled by The parts that make up the assembled item must be requisitioned or org/AVUM fabricated and assembled at the category of maintenance indicated by the category source code. If the third position code of the SMR code authorizes you to AF-Assembled by replace the item, but the source code indicates the item is assembled at a DS/AVIM higher category, order the item from the higher category of maintenance.

Code Explanation

XA-Do not requisition an "XA" coded item, Order its next higher assembly.

XB—If an "XB" item is not available from salvage, order it using the FSCM and part number given.

XC—Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturers part number.

XD-Item is not stocked. Order an "XD" coded item through normal supply channels using the FSCM and part number given, if no NSN is available.

NOTE

Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 750-1.

- (2) *Maintenance code.* Maintenance codes tell you the category of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:
 - (a) The maintenance code entered in the third position tells you the lowest maintenance category authorized

to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of the following categories of maintenance.

Code

Application/Explanation

- C-Crew or operator maintenance done within organizational or aviation maintenance.
- O-Organizational or aviation unit category can remove, replace, and use the item.
- F-Direct support or aviation intermediate category can remove, replace, and use the item.
- H—General support category can remove, replace, and use the item.
- L—Specialized repair activity can remove, replace, and use the item.
- D—Depot category can remove, replace, and use the item.
- (b) The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance category with the capability to do complete repair (i.e., perform all authorized repair functions). This position will contain one of the following maintenance codes.

NOTE

Some limited repair may be done on the item at a lower category of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.

Code

Application/Explanation

- O-Organizational or aviation unit is the lowest category that can do complete repair of the item.
- F—Direct support or aviation intermediate is the lowest category that can do complete repair of the item.
- H—General support is the lowest category that can do complete repair of the item.
- L-Specialized repair activity (designate the specialized repair activity) is the lowest category that can do complete repair of the item.
- D-Depot is the lowest category that can do complete repair of the item.
- Z-Nonreparable. No repair is authorized.
- B-No repair is authorized. (No parts or special tools are authorized for the maintenance of a "B" coded item). However, the item may be reconditioned by adjusting, lubricating, etc., at the user category.
- (3) Recoverability code, Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the SMR Code as follows:

Recoverability codes

Application/Explanation

- Z—Nonreparable Item. When unserviceable, condemn and dispose of the item at the category of maintenance shown in the third position of SMR Code.
- O—Reparable item. When uneconomically reparable, condemn and dispose of the item at organizational or aviation unit category.
- F—Reparable item. When uneconomically reparable, condemn and dispose of the item at direct support or aviation intermediate category.
- H—Reparable item. When uneconomically reparable, condemn and dispose of the item at general support category.
- D—Reparable item. When beyond lower category repair capability, return to depot. Condemnation and disposal of item not authorized below depot category.
- L-Reparable item. Condemnation and disposal not authorized below specialized repair activity (SRA).
- A—Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.
- c. FSCM (Column (3)). The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.
- d. Part Number (Column (4)). 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 you use a NSN to requisition an item, the item you receive may have a different part number from the part ordered.

- e. Description and Usable on Code (UOC) (Column (5)). This column includes the following information.
 - (1) The Federal item name and, when required, a minimum description to identify the item.
- (2) The statement "END OF FIGURE" appears just below the last item description in Column (5) for a given figure in both section II and section III.
 - f. Qty (Column (6)). 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. A "V" appearing in this column in lieu of a quantity indicates that the quantity is variable and the quantity may vary from application to application.

4. Explanation of Columns (Section IV)

- a. National Stock Number (NSN) Index.
- (1) *Stock number column*. This column lists the NSN by National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN. When using this column to locate an item, ignore the first four digits of the NSN. When requisitioning items use the complete NSN (13 digits).
- (2) *Fig. column.* This column lists the number of the figure where the item is identified/located. The illustrations are in numerical sequence in sections II and III.
- (3) *Item column.* The item number identifies the item associated with the figure listed in the adjacent Fig. column. This item is also identified by the NSN listed on the same line.
 - b. Part Number Index. Part numbers in this index are listed by part number in ascending alphameric sequence.
 - (1) FSCM column. This column lists the Federal supply code for manufacturer (FSCM).
 - (2) Part number column. This column indicates the part number assigned to the item.
- (3) *Stock number column.* This column lists the National stock number for the associated part number and manufacturer identified in the part number and FSCM columns to the left.
- (4) Fig. column. This column lists the number of the figure where the item is identified/located in sections II and III.
- (5) *Item column.* The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

5. Special Information

- a. Associated Publications. The publications listed below pertain to the AN/GRC-213 and its components:
- TM 11-2300-476-14&P, Installation Kits, Electronic Equipment: MK-2442/GRC-213 for Armored Personnel Carrier-Ml 13 A1; MK-2443/GRC-213 for Utility Truck-MK151A1; MK-2444/GRC-213 for Cargo Truck-M561; MK-2445 for Carrier Command Post-M577A1; MK-2446/GRC-213 for Truck M882 or M1008A1 CUCV; MK-2447/GRC-213 for General Purpose Wheeled or Tracked Vehicle. (To be published.)
- TM 11-5820-467-24P, Antenna Group AN/GRA-50.
- TM 11-5820-923-12, Radio Set AN/GRC-213.
- TM 11-5985-379-14&P, Antenna AS-2259/GR.
- b. Illustrations-Listing. The illustrations in this RPSTL are identical to those published in TM 11-5820-923-34P. Only those parts coded "C" or "O" in the third position of the SMR code are listed in the tabular listing; therefore, there may be a break in the item number sequence, figure number and page number. Only illustrations containing organizational or aviation unit authorized items appear in this RPSTL.
- c. National Stock Numbers. National stock numbers (NSN's) that are missing from P source coded items have been applied for and will be added to this TM by future change/revision when they are entered in the Army Master Data File (AMDF). Until the NSN's are established and published, submit exception requisitions to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-MM, Fort Monmouth, NJ 07703-5000 for the part required to support your equipment.

6. How to Locate Repair Parts

- a. When National stock number or part number is not known.
- (1) *First.* Using the table of contents, determine the assembly group or subassembly group to which the item belongs, This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.
 - (2) Second. Find the figure covering the assembly group or subassembly group to which the item belongs.
 - (3) *Third,* Identify the item on the figure and note the item number.
- (4) Fourth. Refer to the Repair Parts List for the figure to find the part number for the item number noted on the figure.
 - (5) Fifth. Refer to the Part Number Index to find the NSN, if assigned.
 - 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. The NSN index is in National item identification number (NIIN) sequence (para 4a(l)). The part numbers in the part number index are listed in ascending alphameric sequence (para 4b). Both indexes cross-reference you to the illustration figure and item number of the item you are looking for.

(2) Second. After finding the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

7. Abbreviations

Not applicable.

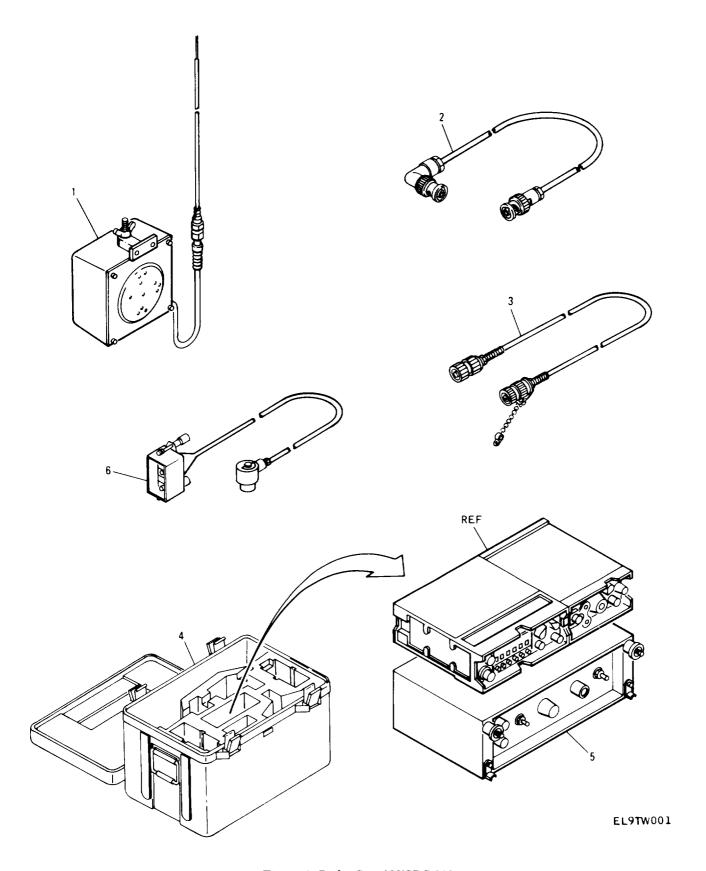


Figure 1. Radio Set, AN/GRC-213

SECTIO	ON II			TM11-5820-923-20P	
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				GROUP 00 RADIO SET AN/GRC-213	
				FIGURE 1	
1	PADZZ	81349	MIL-L-12632/4	LOUDSPEAKER, PER	1
2	PAOZZ	87990	755002B9017	CABLE ASSEMBLY RF	1
3	PAOZZ	87990	755002B9019	CABLE ASSY, POWER	1
4	PDODD	80058	AN/PRC-104A	RADIO SET (SEE FIG 2 FOR BREAKDOWN)	1
5	PAODD	80058	AM-7152/GRC-213	AMPLIFIER,PWR-SPLY (SEE FIG 5 FOR BREAKDOWN)	1

END OF FIGURE

CABLE ASSY AUDIO

1

6

PAOZZ

87990 755002B9018

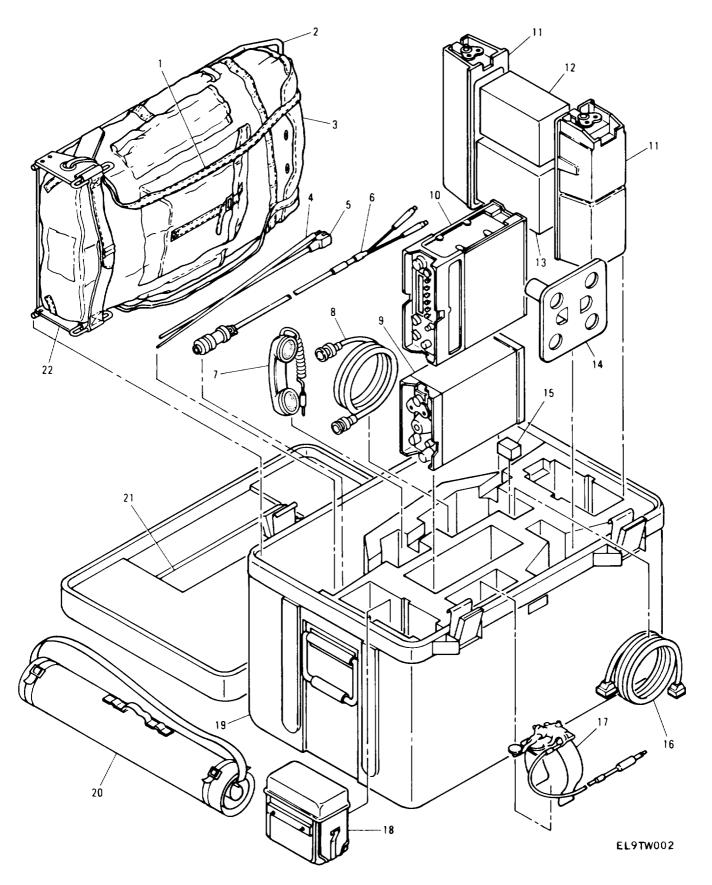


Figure 2. Radio Set, AN/PRC-104A

SECTION II TM11-5820-923-20P

(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				GROUP 01 RADIO SET AN/PRC-104A	
				FIGURE 2	
1	XBOZZ	81337	2-2-313	STRAP WEBBING	1
2	XBOZZ	81337	2-3-291	CARGO SHELF	1
3	XB0ZZ	81337	2-2-344	PACK FIELD	1
4	PAOZZ	80058	AT-271A/PRC	ANTENNA	1
5	PAOZZ	80058	AB-129/PR	ANTENNA ELEMENT	1
6	PAOZZ	01365	79A5029A0050	CABLE ASSEMBLY, SPCL	1
7	PAOZZ	80058	H250A/U	HANDSET	1
8	XBOZZ	05276	2249-C-22	CABLE ASSY, RAD-FREQ	1
9	PAODD	80058	AM-6874/PRC-104	AMPLIFIER, RAD-FREQ (SEE FIG 4 FOR	1
				BREAKDOWN)	
10	PAOHH	80058	RT-1209/URC	RCVR-XMTR (SEE FIG 3 FOR BREAKDOWN)	1
11	PAOZZ	87990	79A5029A0000	CASE, BATTERY ASSY	1
12	PCOZA	80058	BA-5590/U	BATTERY (1) NONRECH	2
13	PAOBA	80058	BB-590/U	BATTERY, STORAGE	2
14	PAOZZ	87990	755002A0900	ADAPTER ANTENNA	1
15	PAOZZ	80058	UG-349A/U	ADAPTER, CONNECTOR	1
16	PAOZZ	87990	755002A1260	CABLE, EXT BTRY	1
17	PAOZZ	87990	755002A1000	KEY TELEGRAPH	1
18	XBOFF	80058	ANGRA50	ANTENNA GROUP (SEE TM11-5820-467-	1
				24P FOR BREAKDOWN)	
19	PDOHH	24995	431-6379	CASE, TRANSIT	1
20	PAOFF	80058	AS2259GR	ANTENNA (SEE TM11-5985-379-14&P	1
				FOR BREAKDOWN)	
21	XCOZZ	87990	755002B9020	CARD, INSTRUCTION	1
22	XBOZZ	81337	2-3-290	PACK, FRAME	1

END OF FIGURE

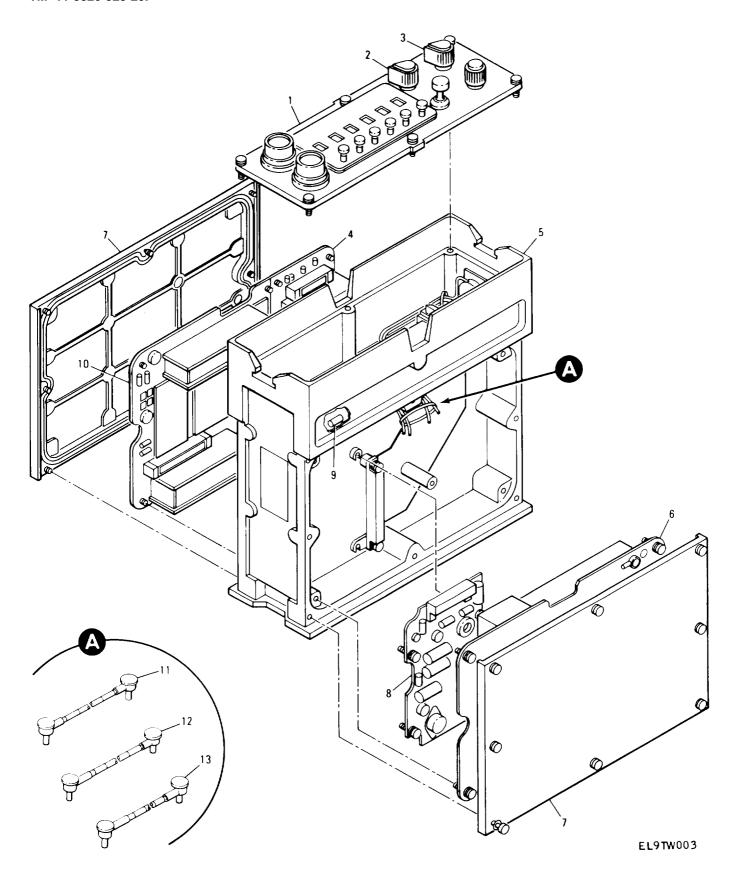
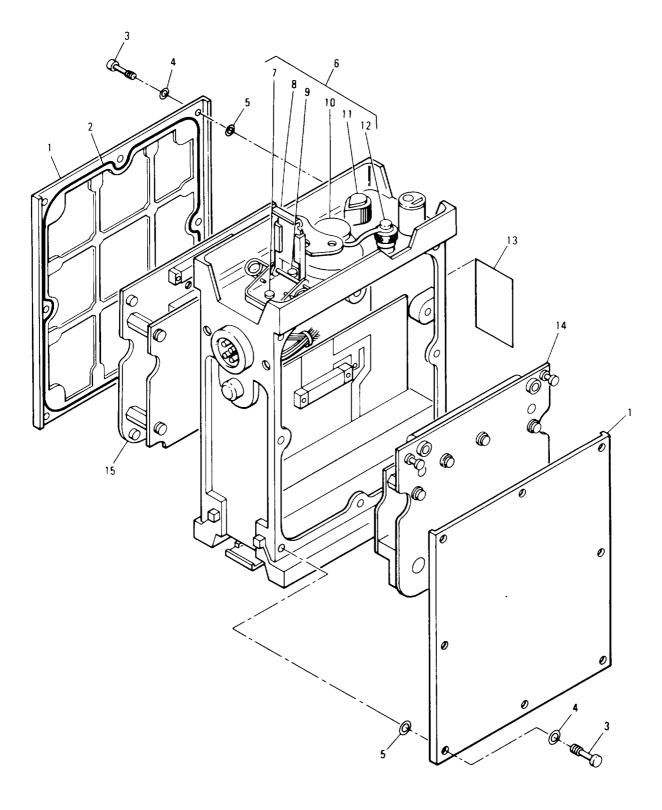


Figure 3. Receiver/Transmitter, RT-1209/URC

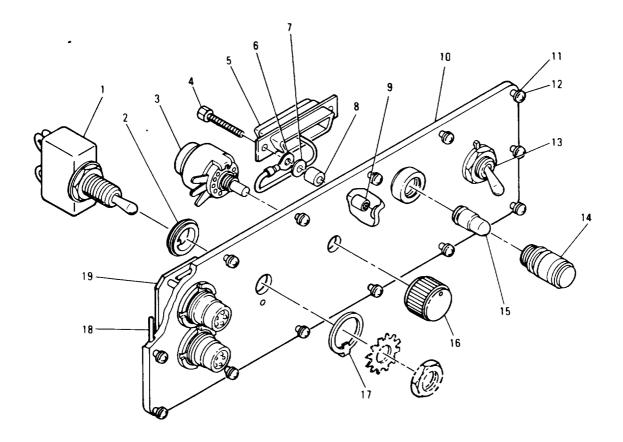
SECTIO	ON II			TM11-5820-923-20P	
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				GROUP 0101 RECEIVER-TRANSMITTER RT-1209/URC	
				FIGURE 3	
2	PAOZZ PAOZZ	96906 96906	MS91528-0K1B MS91528-0E1B	KNOB KNOB	2 1
				END OF FIGURE	



EL9TW004

Figure 4. Amplifier, Radio Frequency AM-6874

SECTIO	ON II			TM11-5820-923-20P	
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				GROUP 0102 AMPLIFER, RADIO FREQUENCY AM-6874	
				FIGURE 4	
10 11	PAOZZ PAOZZ	87990 96906	755002A0514 MS91528-0K1B	COVER, ANTENNA BASE KNOB	1 1
				END OF FIGURE	



EL9TW006

SECTIO	ON II			TM11-5820-923-20P	
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				GROUP 0201 CONTROL PANEL	
				FIGURE 6	
14	PAOZZ	96906	MS25041-2	LIGHT, INDICATOR	1
15	PAOZZ	96906	MS25237-387	LAMP, INCANDESCENT	1
16	PAOZZ	96906	MS91528-1E2B	KNOB	1
				END OF FIGURE	

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	NATIONAL FIG.	STOCK NUM	DEX NUMBER	FIG.	ITEM
5965-00-043-3463	2	7			
5985-00-106-6130	2	20			
5985-00-243-4127	2	5			
6210-00-542-6393	6	14			
5985-00-646-2365	2	4			
5935-00-739-2242	2	15			
6240-00-763-7744	6	15			
5965-00-876-2375	1	1			
5355-00-959-3161	3	2			
	4	11			
5355-00-994-3435	6	16			
6135-01-036-3495	2	12			
6140-01-063-3918	2	13			
5820-01-065-4442	2	16			
5820-01-065-4458	4	10			
5820-01-065-4459	2	14			
5820-01-065-5044	2	9			
5805-01-067-5388	2	17			
5820-01-069-2638	2	10			
6135-01-080-2886	2	11			
6135-01-092-4807	2	6			
5820-01-127-5855	1	5			
5820-01-141-7953	1	4			
5995-01-213-5188	1	2			
5820-01-214-8802	2	19			
5995-01-219-9441	1	6			
5995-01-219-9516	1	3			

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

FSCM PART NUMBER STOCK NUMBER FIG. ITEM 80058 AB-129/PR 5985-00-243-4127 2 5 80058 AM-6874/PRC-104 5820-01-165-5044 2 9 80058 AM-7152/GRC-213 5820-01-127-5855 1 5 80058 ANGRA50 2 18 80058 ANGRA50 2 18 80058 AS2259GR 5985-00-106-6130 2 2 80058 AT-271A/PRC 5985-00-646-2365 2 4 80058 BA-5590/U 6135-01-036-3495 2 12 80058 BB-590/U 6140-01-063-3918 2 13 80058 BB-590/U 5965-00-087-2375 1 1 96906 MS25237-387 6240-00-763-7744 6 <t< th=""><th></th><th></th><th>PART NUMBER INDEX</th><th></th><th></th></t<>			PART NUMBER INDEX		
80058 AM-6874/PRC-104 5820-01-065-5044 2 9 80058 AM-7152/GRC-213 5820-01-127-5855 1 5 80058 AN/PRC-104A 5820-01-141-7953 1 4 80058 ANGRA50 2 18 80058 AS2259GR 5985-00-106-6130 2 20 80058 AT-271A/PRC 5985-00-646-2365 2 4 80058 BA-5590/U 6135-01-036-3495 2 12 80058 BB-590/U 6140-01-063-3918 2 13 80058 H250A/U 5965-00-043-3463 2 7 81349 MILL-1-2632/4 5965-00-0876-2375 1 1 96906 MS25237-387 6240-00-763-7744 6 15 96906 MS25237-387 6240-00-763-7744 6 15 96906 MS91528-0E1B 33 3 96906 MS91528-1E2B 5355-00-994-3435 6 16 80058 RT-1209/URC 5820-01-069-2638 2 10 80058 UG-349A/U 5935-00-739-2242	FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
80058 AM-7152/GRC-213 5820-01-127-5855 1 5 80058 AN/PRC-104A 5820-01-141-7953 1 4 80058 ANGRA50 2 18 80058 AS2259GR 5985-00-106-6130 2 20 80058 BA-5590/U 6135-01-036-3495 2 12 80058 BA-5590/U 6140-01-063-3918 2 13 80058 BB-590/U 6140-01-063-3918 2 1 81349 MIL-I-12632/4 5965-00-876-2375 1 1 96906 MS25041-2 6210-00-542-6393 6 14 96906 MS91528-0E1B 3 3 96906 MS91528-0E1B 5355-00-994-3435 6 16 80058 RT-1209/URC 5820-01-069-2638 2 10 80058 RT-1209/URC 5820-01-069-2638 2	80058	AB-129/PR	5985-00-243-4127	2	5
80058 AN/PRC-104A 5820-01-141-7953 1 4 80058 ANGRA50 2 18 80058 AS2259GR 5985-00-106-6130 2 20 80058 AT-271A/PRC 5985-00-646-2365 2 4 80058 BA-5590/U 6135-01-036-3495 2 12 80058 BB-5590/U 6140-01-063-3918 2 13 80058 H250A/U 5965-00-433-3463 2 7 81349 MIL-L-12632/4 5965-00-876-2375 1 1 96906 MS25041-2 6210-00-542-6393 6 14 96906 MS91528-0E1B 3 3 96906 MS91528-0E1B 5355-00-959-3161 3 2 96906 MS91528-1E2B 5355-00-994-3435 6 16 80058 RT-1209/URC 5820-01-069-2638 2 10 80058 UG-349A/U 5935-00-739-2242 2 15 81337 2-2-313 2 1 81337 2-3-290 2 2 2 81337	80058	AM-6874/PRC-104	5820-01-065-5044	2	9
80058 ANGRA50	80058	AM-7152/GRC-213	5820-01-127-5855	1	5
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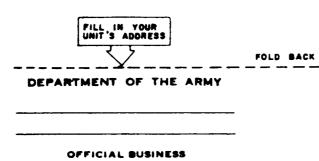
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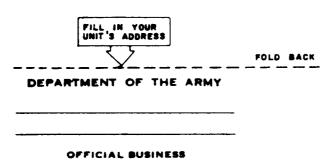
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