

TM 11-5820-1045-20P

TECHNICAL MANUAL

**ORGANIZATIONAL MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST**

FOR

RADIO SET AN/GRC-193B(V)1

(NSN 5820-01-262-9546)

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HEADQUARTERS, DEPARTMENT OF THE ARMY

15 SEPTEMBER 1990

Technical Manual

HEADQUARTERS
DEPARTMENT OF THE ARMY

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Washington, DC, 15 September 1990

ORGANIZATIONAL MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
FOR
RADIO SET AN/GRC-193B(V)1
(NSN 5820-01-262-9546)

Current as of 15 June 1990

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-LC-ME-PS, Fort Monmouth, New Jersey 07703-5000. In either case, a reply will be furnished 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 Radio Set AN/GRC-193B(V)1. 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.

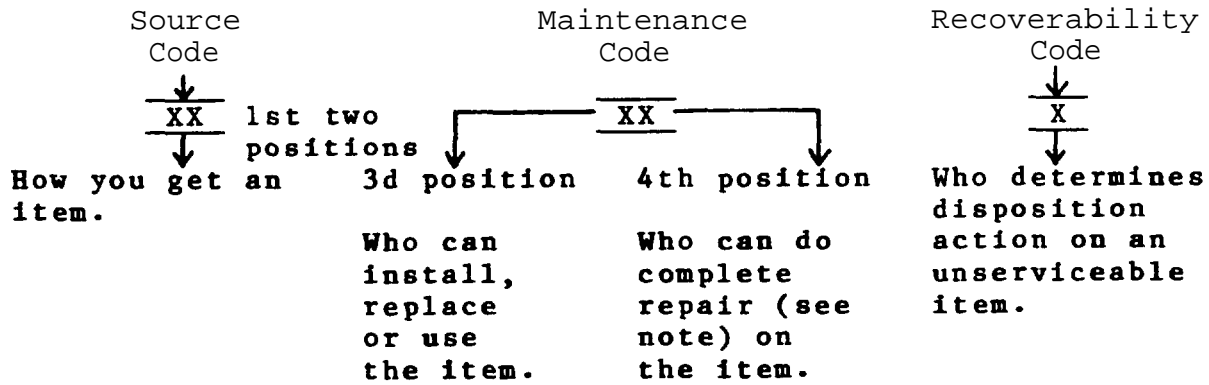
b. Section III. Special Tools List. Not applicable.

c. Section IV. Cross-Reference Indexes. 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. The figure number and item number index lists figure and item numbers in numeric sequence and cross-references National stock number, Commercial and Government Entity Code, and part numbers.

3. Explanation of Columns (Section II and III)

a. Item No. (Column (1)). 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:

<u>Code</u>	<u>Explanation</u>
PA	Stocked items: use the applicable NSN to request/requisition items with these source codes. They are authorized to the category indicated by the code entered in the third position of the SMR code.
PB	
PC	
PD	
PE	
PF	
PG	

NOTE

Items coded PC are subject to deterioration.

KD	Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the third position of the SMR code. The complete kit must be requested and applied.
KF	
KB	

<u>Code</u>	<u>Explanation</u>
MO - Made at org/AVUM category MF - Made at DS/AVIM category MH - Made at GS category ML - Made at Specialized Repair Activity (SRA) MD - Made at Depot	Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by the part number in the description and usable on code (UOC) column and listed in the Bulk Material group of the repair parts list. If the item is authorized to you by the third position code of the SMR code, but the source code indicates it is made at a higher category, order the item from the higher category of maintenance.

AO - Assembled by org/AVUM category AF - Assembled by DS/AVIM category AH - Assembled by GS category AL - Assembled by SRA AD - Assembled by Depot	Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the category of maintenance indicated by the source code. If the third position code of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher category, order the item from the higher category of maintenance.
--	--

<u>Code</u>	<u>Explanation</u>
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 CAGEC and part number given.	
XC - Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.	
XD - Item is not stocked. Order an "XD" coded item through normal supply channels using the CAGEC 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.

<u>Code</u>	<u>Application/Explanation</u>
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 1 lower category of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.

<u>Code</u>	<u>Application/Explanation</u>
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.

<u>Code</u>	<u>Application/Explanation</u>
-------------	--------------------------------

- | | |
|-----|---|
| 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:

<u>Recoverability codes</u>	<u>Application/Explanation</u>
-----------------------------	--------------------------------

- | | |
|-----|--|
| 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 repairable, condemn and dispose of the item at organizational or aviation unit category. |
| F - | Reparable item. When uneconomically repairable, condemn and dispose of the item at direct support or aviation intermediate category. |
| H - | Reparable item. When uneconomically repairable, 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 (SEA). |
| 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 appropriate manuals/directives for specific instructions. |

c. CAGEC (Column (3)). The Commercial and Government Entity Code (CAGEC) 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 an 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 alphanumeric sequence.

(1) CAGEC column. This column lists the Commercial and Government Entity Code (CAGEC).

(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 CAGEC 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.

c. Figure and Item Number Index.

(1) Fig. column. This column lists the number of the figure where the item is identified/located in sections II and III.

(2) 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.

(3). Stock number column. This column lists the National stock number for the item.

(4) CAGEC column. The Commercial and Government Entity Code (CAGEC) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc. , that supplies the item.

(5) Part number column. Indicates the primary number used by the manufacturer (individual, 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 item.

5. Special Information

a. Associated Publications. The publications listed below pertain to the AN/GRC-193B(V)1 and its components:

TM 11-5820-467-24P, Organizational, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Antenna Group AN/GRA-50

TM 11-5820-477-23P, Organizational and Direct Support Maintenance Repair Parts and Special Tools List for Radio Set Control Group AN/GRC-39, AN/GRC-39A, AN/GRC-39B, and AN/GRC-39C

TM 11-5820-1045-12, Operator's and Organizational Manual for Radio Set AN/GRC-193B(V)1

TM 11-5820-1046-12, Operator's and Organizational Manual for Radio Set AN/PRC-104B(V)4

TM 11-5820-1047-12, Operator's and Organizational Manual for Radio Set AN/GRC-213A(V)1

TM 11-5820-1047-20P, Organizational Maintenance Repair Parts and Special Tools List for Radio Set AN/GRC-213A(V)1

TM 11-5985-379-14&P, Operator's, Organizational, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Antenna, AS-2259/GR.

c. Illustrations - Listing. The illustrations in this RPSTL are identical to those published in TM 11-5820-1045-40P. 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.

d. 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-LC-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.

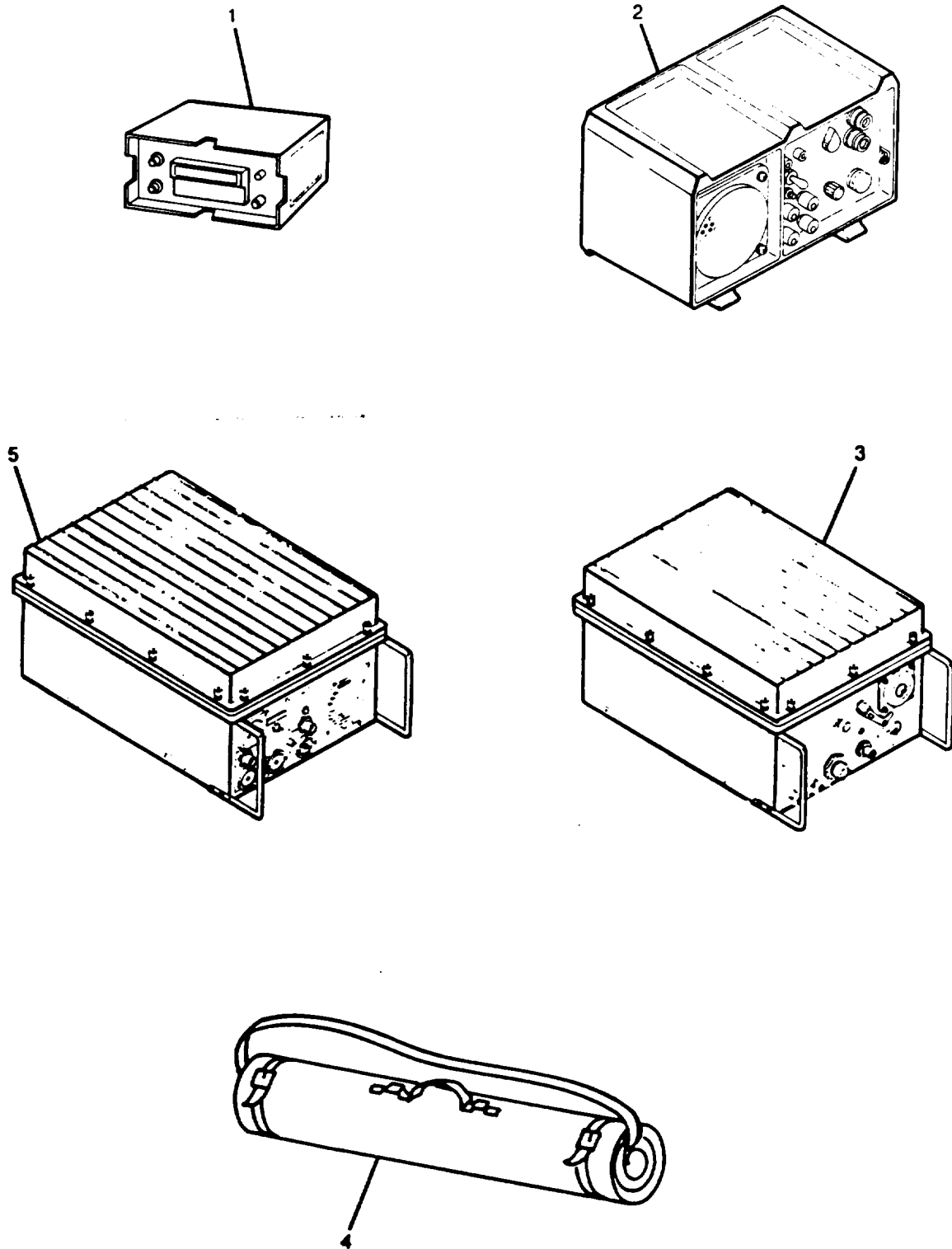
(1) First. Using the index of National stock numbers and part numbers, find the pertinent National stock number or part number. The NSN index is in National item Identification number (NIIN) sequence (para 4a(1)). The part numbers in the part number index are

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.

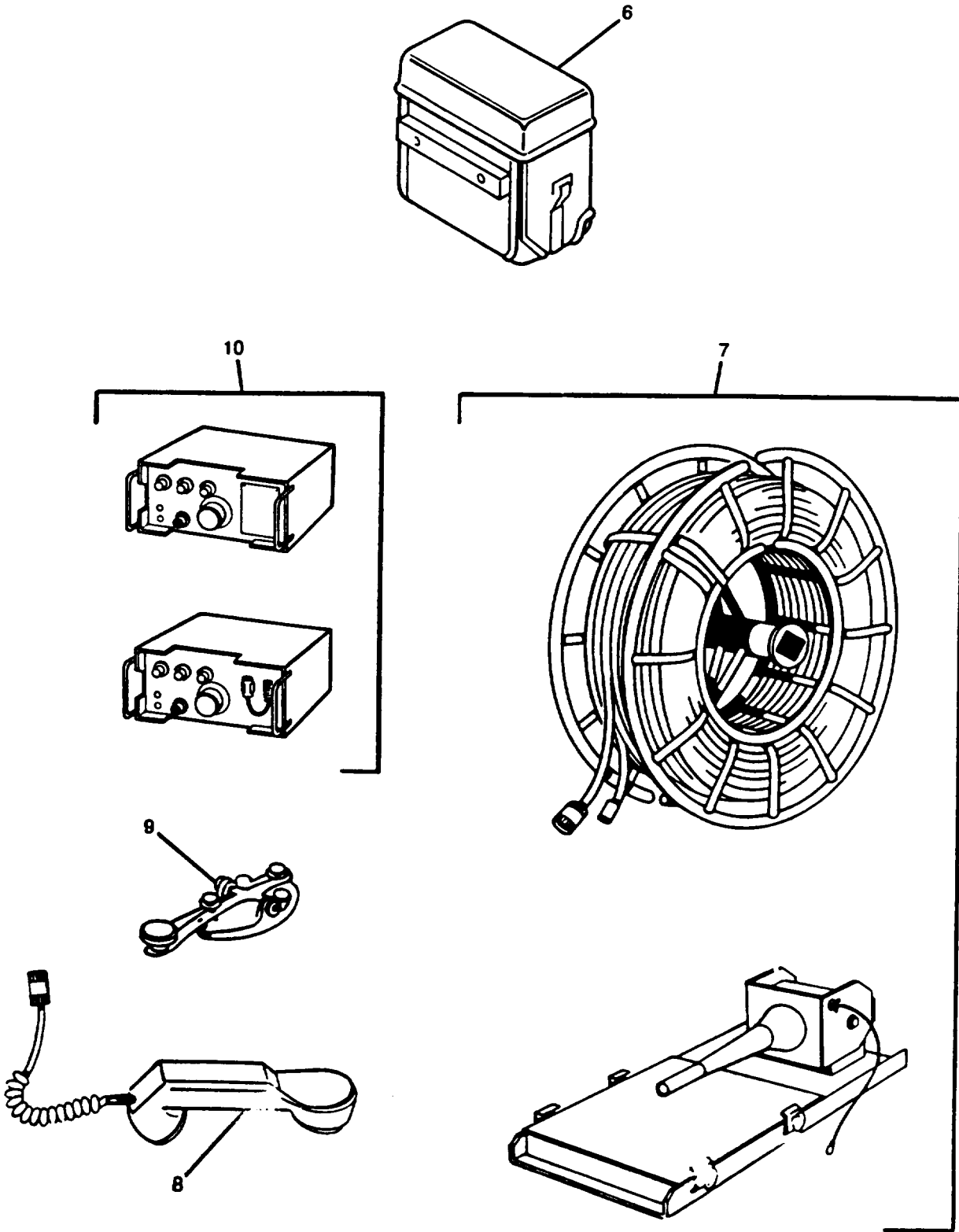
7. Abbreviations

Not applicable.



CE2AE001

Figure 1. AN/GRC-193B (V) Radio Set (Sheet 1 of 2)



CE2AE002

Figure 1. AN/GRC-193B (V) Radio Set (Sheet 2 of 2)

SECTION II			TM11-5820-1045-20P		(5)	(6)
(1)	(2)	(3)	(4)			
ITEM	SMR	CAGEC	PART		DESCRIPTION AND USABLE ON CODES (UOC)	QTY
NO	CODE		NUMBER			
				GROUP 00	AN/GRC-193B(V)1 RADIO SET	
					FIGURE 1	
1	PAOHH	80058	RT-1209A/URC		RECEIVER-TRANSMITTE...	1
2	PAOHD	80058	AM-6879/URC		AMPLIFIER-CONVERTER.....	1
3	PAODD	80058	CU-2064A/GRC-193		COUPLER,ANTENNA	1
			B(V)1			
4	PAOFF	80058	AS-2259/GR		ANTENNA	1
5	PAODD	80058	AM-6545B/GRC-193		AMPLIFIER,RADIO FRE	1
			(V)			
6	PAODD	80058	AN/GRA-50		ANTENNA GROUP	1
7	PAOFF	14304	755017B0771		ANTENNA KIT,SITING	1
8	PAOZZ	80058	H250A/U		HANDSET	1
9	PAOZZ	80058	KY-872/PRC-104		KEY TELEGRAPH	1
10	PAODD	80058	AN/GRA-39C		RADIO SET GROUP	1

END OF FIGURE

SECTION IV

TM 11-5820-1045-20P

CROSS-REFERENCE INDEXES

NATIONAL STOCK NUMBER INDEX					
STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5965-01-043-3463	1	8			
5985-00-106-6130	1	4			
5985-00-892-0758	1	6			
5820-01-070-1950	1	2			
5820-01-196-0204	1	10			
5985-01-220-0541	1	7			
5820-01-270-5099	1	1			

SECTION IV**TM 11-5820-1045-20P****CROSS-REFERENCE INDEXES**

CAGE	PART NUMBER	PART NUMBER INDEX		
		STOCK NUMBER	FIG.	ITEM
80058	AM-6545B/GRC-193 (V)		1	5
80058	AM-6879/URC	5820-01-070-1950	1	2
80058	AN/GRA-39C	5820-01-196-0204	1	10
80058	AN/GRA-50	5985-00-892-0758	1	6
80058	AS-2259/GR	5985-00-106-6130	1	4
80058	CU—2064A/GRC-193 B(V)1		1	3
80058	H250A/U	5965-00-043-3463	1	8
80058	KY-872/PRC-ID4		1	9
80058	RT-1209A/URC	5820-01-270-5099	1	1
14304	755017B0771	5985-01-220-0541	1	7

CROSS-REFERENCE INDEXES

FIGURE AND ITEM NUMBER INDEX

FIG.	ITEM	STOCK NUMBER	CAGE	
1	1	5820-01-270-5099	80058	RT-1209A/URC
1	2	5820-01-070-1950	80058	AM-6879/URC
1	3		80058	CU-2064A/GRC-193 B(V)1
1	4	5985-00-106-6130	80058	AS-2259/GR
1	5		80058	AM-6545B/GRC-193 (V)
1	6	5985-00-892-0758	80058	AN/GRA-50
1	7	5985-01-220-0541	14304	755017B0771
1	8	5965-00-043-3463	80058	H250A/U
1	9		80058	KY-872/PRC-104
1	10	5820-01-196-0204	80058	AN/GRA-39C

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PUBLICATION NUMBER TM 11-5840-340-20P	PUBLICATION DATE 23 Jan 78	PUBLICATION TITLE Radar Set AN/PRC-76
--	-------------------------------	--

BE EXACT PIN-POINT WHERE IT IS				IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO	
33				For item 2, change the NSN to read: 5835-00-134-9186. <u>Reason:</u> Accuracy.
44		19		Identify the cover on the junction box (item no. 5). <u>Reason:</u> It is a separate item and is not called out on figure 19.
45				Add the cover of the junction box as an item in the listing for figure 19. <u>Reason:</u> Same as above

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