

TECHNICAL MANUAL }
NO.1105985-249-24P }

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 27 JULY 1977

**ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)
FOR
ANTENNA GROUP AN/GRA-12
(NSN 5985-00-174-2007)**

Current as of 7April 1977

REPORTING OF ERRORS
You can help improve this manual by calling attention to errors and by recommending improvements and stating your reasons for the recommendations. Your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) should be mailed direct to Commander, US Army Electronics Command, ATTN: DRSEL-MA-Q, Fort Monmouth, New Jersey 07703. A reply will be furnished direct to you.

		Page	Illus Figure
SECTION	I.	Introduction	1
	II.	Repair parts list	5
Group	00	Antenna Group AN/GRA-12	5
	01	Accessory Kit MX-1137/GRA-12.....	5
		0101 Reel RL-122/GRA-4(See TM 11-5985-259-14P for parts).....	5
	02	Antenna Mast Assembly AB-86/GRA-4 (See TM 11-5985-229-12P and TM 11-5985-229-35P for parts)	
SECTION	III.	Special tools list (Not applicable)	
	IV.	National stock number and part number index	7

***This manual supersedes TM 11-5985-249-24P, 15 August 1973.**

**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, direct support, and general support maintenance of the AN/GRA-12. 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:

<i>Code</i>	<i>Definition</i>
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 or outfittings. Not subject to automatic replenishment.

<i>Code</i>	<i>Definition</i>
MF—	Item to be manufactured or fabricated at the direct support maintenance level.
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.
F—	Support item is removed, replaced, used at the direct support 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>
F—	The lowest maintenance level capable of complete repair of the support item is the direct 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:

<i>Recoverability codes</i>	<i>Definition</i>
Z—	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.

Recoverability
codes

Definition

F— Repairable item. When uneconomically repairable, condemn and dispose at the direct support level.

D— Repairable 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 70842 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

The following publications pertain to the AN/ GRA-12 and its components:

TM 11-2651, Antenna Groups AN/GRA-4 and AN/ GRA-12

TM 11-5985-229-12P, Mast AB-86/GRA

TM 11-5985-229-35P, Mast AB-85/GRA

TM 11-5985-259-14P, Reel RL-122/GRA-4

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.

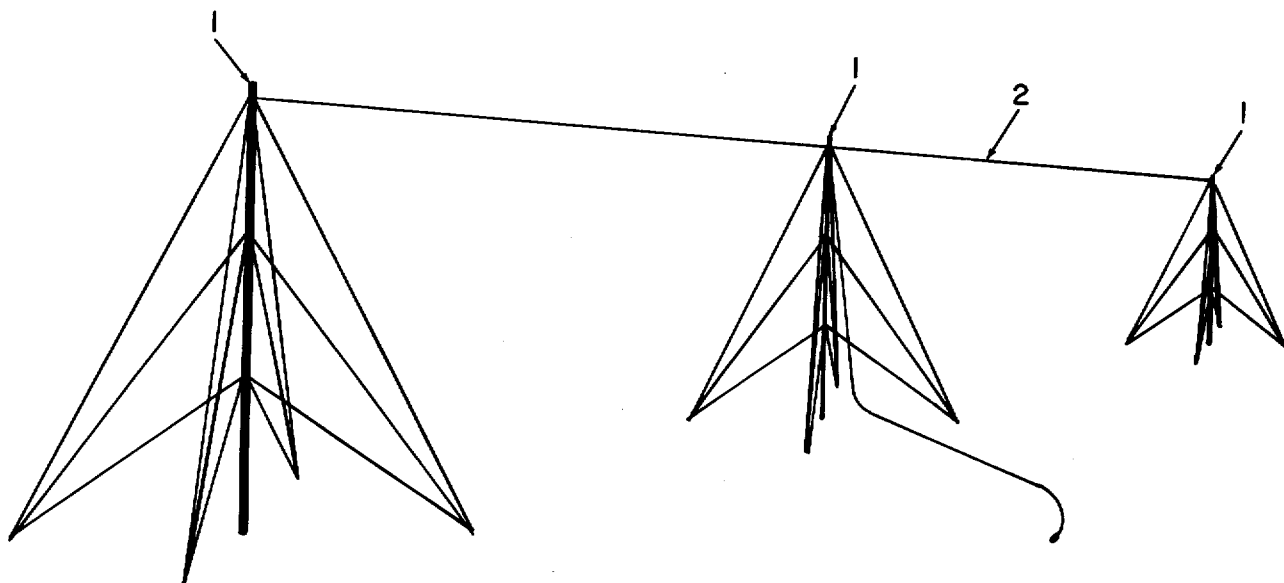
(1) *First.* Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in NIIN sequence followed by a list of part numbers in alphameric sequence, cross-referenced to the illustration figure number and item number.

(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)



EL3GJ001

Figure 1. Antenna Group AN/GRA-12.

SECTION II REPAIR PARTS LIST

TM 11-5985-249-24P

(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
1	1	XDODD		AB-86/GRA-4	80058	GROUP 00 ATENNA GROUP AN/GRA-12	EA	3
1	2	XDOFF		MX-1137/GRA-12	80058	ANTENNA MAST ASSEMBLY ACCESSORY KIT.....	EA	1
					5			

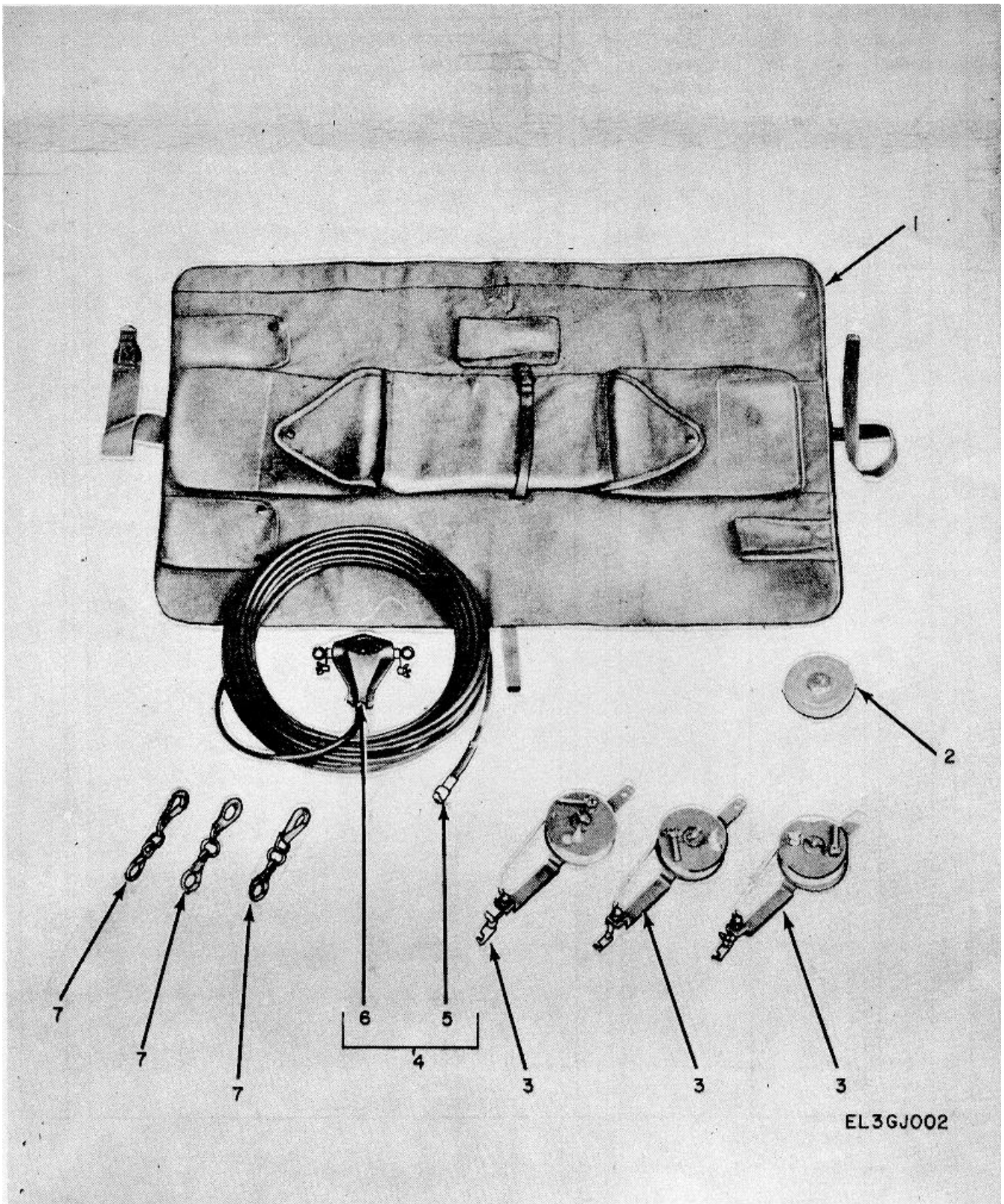


Figure 2. Accessory Kit MX-1137/GRA-12.

SECTION II

TM 11-5985-249-24P

(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
						GROUP 01 ACCESSORY KIT MX-1137/GRA-12		
2	1	PAOZZ	5820-00-497-9644	CW206GR	80058	BAG	EA	1
2	2	PAOZZ	5210-00-221-1888	7325DP	33363	TAPE, MEASURING.....	EA	1
2	3	PDODD	5985-00-497-8765	SCDL34891	80063	REEL, RL-122/6GRA-4.....	EA	3
2	4	PAOFF	5995-00-752-1362	CG-692/U	80058	CABLE .ASSEMBLY.RADIO FREQUENCY ...	EA	1
2	5	PAFZZ	5935-00-928-3127	UG21U	80058	CONNECTOR.PLUG, ELECTRICAL, RADIO FREQUENCY	EA	1
2	6	PAFZZ	5985-00-247-6281	DL-SC-A-339530	80063	CONNECTOR, PLUG, ELECTRICAL.....	EA	1
2	7	PAOZZ	5820-00-313-8944	SCB32170	80063	HOOK	EA	3

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

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

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5210-00-221-1888	2	2	5820-00-497-9644	2	1
5985-00-247-6281	2	6			
5820-00-313-8944	2	7	5995-00-752-1362	2	4
5985-00-497-8765	2	3	5935-00-928-3127	2	5

Part Number	FSCM	Fig. No.	Item. No.	Part Number	FSCM	Fig. No.	Item No.
AB-86/GRA-4	80058	1	1	SCB32170	80063	2	7
CG-692U	80058	2	4				
CW-206GR	80058	2	1				
14X-1137/GRA-12	80058	1	2	UG21U	80058	2	5

LATEST PART NUMBER ASSIGNMENTS

PART NUMBER	FSCM	FIG NO	ITEM NO.
DL-SC-A-339530	80063	2	6
SC/D489L	80063	2	3
7325P	33363	2	2

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