

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL
TOOLS LISTSTEST SET, MOTOR-GENERATOR AN/GSM-65
(RAM METER INC. TYPE L-1A)Headquarters, Department of the Army, Washington, D.C.
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SECTION I
INTRODUCTION**1. Scope**

This appendix lists repair parts and special tools required for the performance of organizational maintenance of the AN/GSM-65.

2. General

This Repair Parts and Special Tools List is divided into the following sections:

- a. Prescribed Load Allowance (PLA) - Section II.* A composite listing of the repair parts, special tools, test and support equipment having quantitative allowances for initial stockage at the organizational level.
- b. Repair Parts - Section III.* A list of repair parts

authorized for the performance of maintenance at the organizational level.

c. Special Tools, Test and Support Equipment - Section IV. Not applicable.

d. Index - Federal Stock Number Cross-Reference to Figure and Item Number or Reference Designation - Section V. A list of Federal stock numbers in ascending numerical sequence followed by a list of reference numbers in ascending alpha-numeric sequence, cross-referenced to the illustration figure number or reference designation.

e. Index - Reference Designation Cross-reference to Page Number - Section VI. A list of reference designations cross-referenced to page number.

3. Explanation of Columns

The following provides an explanation of columns in the tabular lists.

a. *Source, Maintenance, and Recoverability Codes* (SMR), Column 1.

(1) Source code indicates the selection status and source for the listed item. Source codes are -

<i>Code</i>	<i>Explanation</i>
P -	Repair parts which are stocked in or supplied from the GSA/DSA, or Army supply system, and authorized for use at indicated maintenance categories.
P 2 -	Repair parts which are procured and stocked for insurance purposes because the combat or military essentiality of the end item dictates that a minimum quantity be available in the supply system.
P 9 -	Assigned to items which are NSA design controlled: unique repair parts, special tools, test, measuring and diagnostic equipment, which are stocked and supplied by the Army COMSEC logistic system, and which are not subject to the provisions of AR 380-41.
P10-	Assigned to items which are NSA design controlled: special tools, test, measuring and diagnostic equipment for COMSEC support, which are accountable under the provisions of AR 380-41, and which are stocked and supplied by the Army COMSEC logistic system.
M -	Repair parts which are not procured or stocked, but are to be manufactured in indicated maintenance levels.
A -	Assemblies which are not procured or stocked as such, but are made up of two or more units. Such component units carry individual stock numbers and descriptions, are procured and stocked separately and can be assembled to form the required assembly at indicated maintenance categories.
X -	Parts and assemblies which are not procured or stocked and the mortality of which normally is below that of the applicable end item or component. The failure of such part or assembly should result in retirement of the end item from the supply system.
X 1 -	Repair parts which are not procured or stocked. The requirement for such items will be filled by use of the next higher assembly or component.
X 2 -	Applied to repair parts which are stocked. The indicated maintenance category requiring such repair parts will attempt to obtain same through cannibalization.

Code

Explanation

Where such repair parts are not obtainable through cannibalization, requirements will be requisitioned, with accompanying justification, through normal supply channels.

G - Major assemblies that are procured with PEMA funds for initial issue only as exchange assemblies at DSU and GSU level. These assemblies will not be stocked above DS and GS level or returned to depot supply level.

(2) Maintenance code indicates the lowest category of maintenance authorized to install the listed item. The maintenance level codes are-

<i>Code</i>	<i>Explanation</i>
C	Operator/crew
O	Organizational maintenance

(3) Recoverability code indicates whether un-serviceable items should be returned for recovery or salvage. Items not coded are expendable. Recoverability codes are-

<i>Code</i>	<i>Explanation</i>
R -	Repair parts and assemblies that are economically repairable at DSU and GSU activities and are normally furnished by supply on an exchange basis.
S -	Repair parts and assemblies which are economically repairable at DSU and GSU activities and which normally are furnished by supply on an exchange basis. When items are determined by a GSU to be uneconomically repairable, they will be evacuated to a depot for evaluation and analysis before final disposition.
T -	High dollar value recoverable repair parts which are subject to special handling and are issued on an exchange basis. Such repair parts normally are repaired or overhauled at depot maintenance activities.
U -	Repair parts specifically selected for salvage by reclamation units because of precious metal content, critical materials, or high dollar value reusable casings or castings.

b. *Federal Stock Number, Column 2.* This column indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

c. *Description, Column 3.* This column indicates the Federal item name and any additional description of the item required. The index number has been included as part of the description to aid in the location of "same as" items. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturers in parentheses.

d. Unit of Measure, Column 4. A two-character alphabetic abbreviation indicating the amount or quantity of the item upon which the allowances are based; e.g., ft. ea, pr, etc.

e. Quantity Incorporated in Unit, Column 5. This column indicates the quantity of the item used in the AN/GSM-65. Subsequent appearances of the same item in the same assembly are indicated by the letter "REF." A "V" appearing in this column in lieu of a quantity indicates that a definite quantity cannot be indicated (e.g., shims, spacers, etc.).

f. 15-Day Organizational Maintenance Allowances, Column 3 of Section II and Column 6 of Section III.

(1) The allowance columns are divided into four subcolumns. Indicated in each subcolumn opposite the first appearance of each item is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have the letters "REF" in the allowance columns. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

(2) The quantitative allowances for organizational level of maintenance represents one initial prescribed load for a 15-day period for the number of equipments supported. Units and organizations authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the density column applicable to the number of items supported to obtain the total quantity of repair parts authorized.

(3) Organizational units providing maintenance for more than 100 of these equipments shall determine the total quantity of parts required by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51-100 allowance column. *Example,* authorized allowance for 51-100 equipments is 40; for 150 equipments multiply 40 by 1.50 or 60 parts required.

(4) Subsequent changes to allowances will be limited as follows: No change in the range of items is authorized. If additional items are considered necessary, recommendation should be forwarded to Commanding General, U.S. Army Electronics Command, ATTN: AMSEL-ME-NMP-EM, Fort Monmouth, N. J., 07703, for exception or revision to the allowance list. Revisions to the range of items authorized will be made by the USA ECOM National Maintenance Point based upon engineering experience, demand data, or TAERS information.

g. Illustration, Column 7. This column is divided

as follows:

(1) *Figure number, Column 7a.* Not applicable.

(2) *Item number or reference designation, column 7b.* Indicates the reference designation used to identify the item.

4. Special Information

a. Repair parts mortality is computed from failure rates derived from experience factors with the individual parts in a variety of equipments. Variations in the specific application and periods of use of electronics equipment, the fragility of electronic piece parts, plus intangible material and quality factors intrinsic to the manufacture of electronic parts, do not permit mortality to be based on hours of end item use. However, long periods of continuous use under adverse conditions are likely to increase repair parts mortality.

b. The following publication pertains to the AN/GSM-65.

TM 11-6625-680-15-1

Operator's Organizational, DS, GS, and Depot Maintenance Manual: Test Set, Motor-Generator AN/GSM-65 (Ram Meter Inc. type L-1A)

5. Location of Repair Parts

a. This appendix contains two cross-reference indexes (sec. V and sec. VI) to be used to locate a repair part when either the Federal stock number, reference number (manufacturer's part number), or reference designation is known. The first column in each index is prepared in numerical and/or alpha-numerical sequence in ascending order. When a Federal stock number is not listed, refer to the reference number (manufacturer's part number) immediately following the Federal stock number.

b. When the Federal stock number is known, follow the procedures given in (1) and (2) below.

(1) Refer to the index of Federal stock numbers (sec. V) and locate the Federal stock number. The FSN is cross-referenced to the applicable figure and reference designation.

(2) When the reference designation is determined, refer to the reference designation index (sec. VI). The reference designations are listed in numeric-alpha ascending order and are cross-referenced to the page number on which they appear in the repair parts list (sec. III). Refer to the page number noted in the index and locate the reference designation (col. 7b). If the word "REF" appears in the allowance column for the repair part, note the Federal stock num-

ber (col. 2) or manufacturer's part number (col. 3). Refer to the FSN index and note the reference designation for that FSN or part number. Refer to the reference designation index and note the page number given for the reference designation. Refer to the page noted in the RPSTL (sec. III) and locate the reference designation in col. 7b of the repair parts list.

c. When the reference designation is known, follow the procedures given in b(2) above.

d. When neither the FSN nor reference designation is known, identify the part in the illustration and follow directions given in c above or scrutinize column 3 of the repair parts list.

6. Federal Supply Codes for Manufacturers

<i>Code</i>	<i>Manufacturer's name</i>
06833	Advance Instrument Corp.

<i>Code</i>	<i>Manufacturer's name</i>
24446	General Electric Co.
24655	General Radio Co.
71590	Globe-Union Inc., Centralab Division
76545	Mueller Electric Co.
81349	Military Specifications
96906	Military Standards

7. Reporting of Equipment Publication Improvements

The reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commanding General, U.S. Army Electronics Command, ATTN: AMSEL-ME-NMP-EM, Fort Monmouth, N.J. 07703.

(1) FEDERAL STOCK NUMBER	SECTION II. PRESCRIBED LOAD ALLOWANCE (2) DESCRIPTION	USABLE ON CODE	(3) 15-DAY ORG MAINT ALLOWANCE (A) (B) (C) (D) 1-5 6-20 21-50 51-100
4920-437-2442	CABLE ASSEMBLY, POWER, ELECTRICAL: CX-12084/GSM-65		2
4920-437-2443	CABLE ASSEMBLY, POWER, ELECTRICAL: CX-12083/GSM-65		2
4920-437-2444	CABLE ASSEMBLY, POWER, ELECTRICAL: CX-12085/GSM-65		2
4920-437-2446	CABLE ASSEMBLY, POWER, ELECTRICAL: CX-12086/GSM-65		2
4920-437-2448	CABLE ASSEMBLY, POWER, ELECTRICAL: CX-12087/GSM-65		2
4920-437-2461	CABLE ASSEMBLY, POWER, ELECTRICAL: CX-12088/GSM-65		2
4920-437-2467	CABLE ASSEMBLY, POWER, ELECTRICAL: CX-12089/GSM-65		2
4920-437-2468	CABLE ASSEMBLY, POWER, ELECTRICAL: CX-12082/GSM-65		2
5355-841-3340	KNOB: P168 (71590)		2
5935-223-0572	CLAMP, ELECTRICAL: MS3507-12 (96906)		2
5935-280-2192	CLAMP, ELECTRICAL: MS3057-24 (96906)		2
5935-722-4601	CLAMP, ELECTRICAL: MS3507-16 (96906)		2
5940-501-7669	TERMINAL, LUG: MS20659-5 (96906)		2
5940-577-7570	TERMINAL, LUG: MS20659-18 (96906)		2
5940-681-9713	TERMINAL, LUG: MS20659-4 (96906)		2
5940-688-8812	TERMINAL, LUG: MS20659-31 (96906)		2
6240-155-8714	LAMP, INCANDESCENT: 313 (24446)		2

SECTION III. REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE			(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUSTRATIONS	
(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR CODE			(A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100	(A) FIG NO	(B) ITEM NO OR REFERENCE DESIGNATION
	4920-348-5793	A001 TEST SET, MOTOR-GENERATOR AN/GSM-65: TEST INVERTER OUTPUT VOLTAGE, CURRENT, AND FREQUENCY; 282 DC OPERATING POWER REQUIREMENT; OVERALL DIM 24-1/8 IN. LG, 16-1/4 IN. W, 17-1/8 IN. H; ACCESSORY ITEM: EIGHT POWER CABLES.	USABLE ON CODE							1
P-C-S	4920-437-2468	A002 CABLE ASSEMBLY, POWER, ELECTRICAL CX-12082/GSM-65		EA	1	*	*	2		1W1
P-O	5935-280-2192	A004 CLAMP, ELECTRICAL: MS3057-24 (96906)		EA	8	*	*	2		1W1MP1
X2-O		A005 CLIP, ELECTRICAL: 27 (76545)		EA	4					1W1E1
P-C-S	4920-437-2443	A009 CABLE ASSEMBLY, POWER, ELECTRICAL: CX-12083/GSM-65		EA	1	*	*	2		1W2
P-O	5940-681-9713	A015 TERMINAL, LUG: MS20659-4 (96906)		EA	3	*	*	2		1W3E2
P-O	5940-688-8812	A017 TERMINAL, LUG: MS20659-31 (96906)		EA	4	*	*	2		1W2E4
P-C-S	4920-437-2442	A019 CABLE ASSEMBLY, POWER, ELECTRICAL: CX-12084/GSM-65		EA	1	*	*	2		1W3
P-C-S	4920-437-2444	A028 CABLE ASSEMBLY, POWER, ELECTRICAL: CX-12085/GSM-65		EA	1	*	*	2		1W4
P-O	5940-501-7669	A034 TERMINAL, LUG: MS20659-5 (96906)		EA	4	*	*	2		1W4E2
P-O	5940-577-7570	A035 TERMINAL, LUG: MS20659-18 (96906)		EA	2	*	*	2		1W4E3
P-C-S	4920-437-2446	A037 CABLE ASSEMBLY, POWER, ELECTRICAL: CX-12086/GSM-65		EA	1	*	*	2		1W5
P-O	5935-223-0572	A039 CLAMP, ELECTRICAL: MS3507-12 (96906)		EA	3	*	*	2		1W5MP1
P-C-S	4920-437-2448	A045 CABLE ASSEMBLY, POWER, ELECTRICAL: CX-12087/GSM-65		EA	1	*	*	2		1W6
P-C-S	4920-437-2461	A051 CABLE ASSEMBLY, POWER, ELECTRICAL: CX-12088/GSM-65		EA	1	*	*	2		1W7
P-O	5935-722-4601	A053 CLAMP, ELECTRICAL: MS3507-16 (96906)		EA	2	*	*	2		1W7MP1
P-C-S	4920-437-2467	A059 CABLE ASSEMBLY, POWER, ELECTRICAL: CX-12089/GSM-65		EA	1	*	*	2		1W8
P-C	5920-661-0530	A124 FUSE, CARTRIDGE: F03B250V15-100A (81349)		EA	1	*	*	*		1A3F101
P-C	5920-808-8342	A126 FUSE, CARTRIDGE: F03B250V1-2A (81349)		EA	1	*	*	*		1A3F102
P-C	5920-284-6796	A128 FUSE, CARTRIDGE: F03B32V5A (81349)		EA	2	*	*	*		1A3F103
P-O	5355-841-3340	A141 KNOB: P168 (71590)		EA	2	*	*	2		1A3MP6
P-O	5355-490-1001	A143 KNOB: 56F21A13 (06833)		EA	1	*	*	*		1A3MP8
P-O	5355-504-9566	A144 KNOB: KNSP12 (24655)		EA	1	*	*	*		1A3MP9
P-O	6240-155-8714	A145 LAMP, INCANDESCENT: 313 (24446)		EA	2	*	*	2		1A3DS1
P-O	6210-057-1910	A147 LENS, INDICATOR LIGHT: GN3 (81349)		EA	1	*	*	*		1A3XDSA1
P-O	6210-067-8381	A148 LENS, INDICATOR LIGHT: RN3 (81349)		EA	1	*	*	*		1A3XDSA2

SECTION V. INDEX-FEDERAL STOCK NUMBER CROSS REFERENCE

TO FIGURE AND ITEM NUMBER OR REFERENCE DESIGNATION

FEDERAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER OR REF DESIGNATION	FEDERAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER OR REF DESIGNATION
4920-348-5793		1			
4920-437-2442		1W3			
4920-437-2443		1W2			
4920-437-2444		1W4			
4920-437-2446		1W5			
4920-437-2448		1W6			
4920-437-2461		1W7			
4920-437-2467		1W8			
4920-437-2468		1W1			
5355-490-1001		1A3MP8			
5355-841-3340		1A3MP6			
5920-284-6796		1A3F103			
5920-661-0530		1A3F101			
5920-808-8342		1A3F102			
5935-223-0572		1W5MP1			
5935-280-2192		1W1MP1			
5935-722-4601		1W7MP1			
5940-501-7669		1W4E2			
5940-577-7570		1W4E3			
5940-681-9713		1W2W2			
5940-688-8812		1W2E4			
6210-057-1910		1A3XDSA1			
6210-067-8381		1A3XDSA2			
6240-155-8714		1A3DS1			
REFERENCE NO.	MFG. CODE	FIG. NO.	ITEM NUMBER OR REF. DESIGNATION		
KNSP12	24655		1A3MP9		
27	76545		1W1E1		

SECTION VI. INDEX-REFERENCE DESIGNATION
CROSS REFERENCE TO PAGE NUMBER

REFERENCE DESIGNATION	PAGE NUMBER	REFERENCE DESIGNATION	PAGE NUMBER	REFERENCE DESIGNATION	PAGE NUMBER
1	2				
1W1	2				
1W1E1	2				
1W1MP1	2				
1W2	2				
1W2E1	2				
1W2W2	2				
1W3	2				
1W4	2				
1W4E2	2				
1W4E3	2				
1W5	2				
1W5MP1	2				
1W6	2				
1W7	2				
1W7MP1	2				
1W8	2				
1A3DS1	2				
1A3F101	2				
1A3F102	2				
1A3F103	2				
1A3MP6					
1A3MP8	2				
1A3MP9	2				
1A3XDSA1	2				
1A3XDSA2	2				

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