

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

Organizational Maintenance Repair Parts List  
RADIO SET AN/GRC-19

Headquarters, Department of the Army, Washington, D.C.  
7 May 1969

Current as of February 1969

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SECTION I

INTRODUCTION

**1. Scope**

This manual contains a list of repair parts required for the performance of organizational maintenance for Radio Set AN/GRC-19.

**Note.**

**No special Tools, Test, and support equipment required.**

**2. General**

This repair parts and special tools list is divided into sections.

*a. Prescribed Load Allowance List (PLA), Section II.* The PLA is a consolidated listing of repair parts allocated for initial stockage at organizational maintenance category. This is a mandatory minimum stockage allowance.

*b. Repair Parts for Organizational Maintenance, Section III.* Repair parts authorized for organizational maintenance is included in this section.

**3. Explanation of Columns**

An explanation of the columns in sections II and III is given below.

*a. Source, Maintenance, and Recoverability Codes, Column 1, Section III.*

(1) Source code, column 1a. The selection status and source for the listed item is noted here.

Source codes and their explanations are as follows:

<i>Code</i>	<i>Explanation</i>
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P..... Applies to repair parts that are stocked in or supplied from the GSA/DSA, or Army supply

system, and authorized for use at indicated maintenance categories.

(2) Maintenance code, column 1b. The lowest category of maintenance authorized to install the listed item is noted here.

<i>Code</i>	<i>Explanation</i>
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O..... Organizational Maintenance

(3) Recoverability code, column 1c. The information in this column indicates whether unserviceable items should be returned for recovery or salvage. Recoverability codes and their explanations are as follows:

**Note.**

**When no code is indicated in the recoverability column, the part will be considered expendable.**

<i>Code</i>	<i>Explanation</i>
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R..... Applies to repair parts and assemblies which are economically repairable at DSU and GSU activities and normally are furnished by supply on an exchange basis.

*b. Federal Stock Number, Column 1, Section II, Column 2, Section III.* The Federal stock number for the item is indicated in this column.

*c. Description, Column 2, Section II, Column 3, Section III.* The Federal item name, a five-digit manufacturer's code and a part number are included in this column.

\*This manual supersedes 11-5820-295-20P, 15 December 1961.

d. *Unit of Issue, Column 4, Section III.* The unit used as a basis of issue, e.g., ea, pr, ft, yd, etc is indicated in this column.

e. *Quantity Incorporated in Unit Pack, Column 5, Section III.* The actual quantity contained in the unit pack is noted in this column.

f. *Quantity Incorporated in Unit, Column 6, Section III.* The quantity of repair parts in an assembly is given in this column.

g. *Maintenance Allowances (Column 3, Section II; Column 7, Sections III.*

(1) The allowance columns are divided into subcolumns. Indicated in each subcolumn the total quantity of item authorized for the number of equipments supported. 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 category of maintenance represent 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 appropriate density column to obtain the total quantity of repair parts authorized.

(3) Subsequent changes to organizational allowances will be limited as follows: No change in the range of items is authorized. If additional items are considered necessary, recommendations should be forwarded to Commanding General, U. S. Army Electronics Command, ATTN: AMSEL-ME-NMPNR, 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.

h. *Illustration, Column 8, Sections III.*

(1) Figure number, Column 8a. The number of the illustration in which the item is shown in TM 11-5820-295-10.

(2) Item or symbol number, column 8b. The callout number used to reference the item in the illustration appears in this column.

#### 4. Reference Publications

a. The following publications pertain to Radio Set AN-GRC-19 and its components.

TM 11-806	Radio Transmitters T-195/GRC-19, T-195A/GRC-19, and T-195B/GRC-19.
TM 11-5820-295-10	Operator's Manual: Radio Set AN/GRC-19.
TM 11-5820-334-10	Operator's Manual: Radio Receiver R-392/URR. (TO. 31R1-2URR-42).
TM 11-5820-334-20	Organizational Maintenance Manual: Radio Receiver R-392/URR.
TM 11-5820-334-20P	Organizational Maintenance Repair Parts and Special Tools Lists: Receiver, Radio R-392/URR.
TM 11-5820-335-20P	Organizational Maintenance Repair Parts and Special Tool Lists: Transmitter, Radio T-195/GRC 19, T-195A/GRC-:19, and T-195B/GRC-19.
TM 11-5965-231-15P	Operator, Organizational, Field and depot Maintenance Repair Parts and Special Tool Lists and Maintenance Allocation Chart: Headset, Electrical H-113/U.

#### 5. Location of Repair Parts

Check the description column to locate the repair part. This column is arranged in alphabetical order.

#### 6. Federal Supply Codes

This paragraph lists the Federal supply code and the associated manufacturer's name.

Code .....	Manufacturer
02660 .....	Amphenol
03056 .....	Friedman
80063 .....	Signal Corps
81349 .....	Mil
95104 .....	Collins Radio Co.

#### 7. Indexes of Publications

a. *DA Pam 310-4.* Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions,

changes, or additional publications pertaining to the equipment.

b. *DA Pam 310-7.* Refer to DA Pam 310-7 to determine whether there are modification work orders (MWO's) pertaining to the equipment.

#### 8. Reporting of Equipment Manual Improvements

The reporting of errors, omissions, and recommendations for improving this equipment manual 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-AD, Fort Monmouth, N. J. 07703.

**SECTION II  
PRESCRIBED LOAD ALLOWANCE LIST**

(1) Federal stock number	(2) Description	(3) 15-Day org maint. alw			
		(A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100
5820-199-8831	MAST SECTION: 80063 No. SC-DL-100588			2	2
5820-199-8841	MAST SECTION: 80063 No. SC-DL-100588				2
5820-199-8843	MAST SECTION: 80063 No. SC-DL-100588				2

**SECTION III  
REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE**

(A) S O U R C E  C D	(B) M A I N T C D C	(C) R E C O D E	(2)  FEDERAL STOCK NUMBER	MODEL						(3)  DESCRIPTION	(4)  UNIT OF ISSUE	(5)  QTY INC IN UN PK	(6)  QTY INC IN UNIT	(7) 15 DAY ORG. MAINT. ALW.				(8) ILLUSTRATIONS	
				1	2	3	4	5	6					(A)	(B)	(C)	(D)	(A)	(B)
				1-5	6-20	21-50	51-100	FIG. NO.	ITEM OR SYMBOL NO.										
P P P P P P P P	O O O O O O O O	R   R   R   R   R   R   R   R	5820-030-0155 5820-571-1828 5820-571-2558 5965-504-6370 5970-197-3576 5805-503-3395 5820-199-8831 5820-199-8843 5820-199-8841																
<b>RADIO SET AN/GRC-19</b>																			
										ea	1								
										ea	1	1	*	*	*	*			
										ea	1	1	*	*	*	*			
										ea	1	1	*	*	*	*			
										ea	1	1	*	*	*	*			
										ea	1	3	*	*	2	2			
										ea	1	1	*	*	*	2			
										ea	1	1	*	*	*	2			

By Order of the Secretary of the Army:

Official:

KENNETH G. WICKHAM,  
*Major General, United States Army,  
The Adjutant General.*

W. C. WESTMORELAND,  
*General, United States Army,  
Chief of Staff.*

Distribution: To be distributed in accordance with DA Form 12-51, (qty rqr block No. 90) organizational maintenance requirements for AN/GRC-19 radio set.

U.S. GOVERNMENT PRINTING OFFICE: 1969-342-017/2989

804-407

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block; margin-left: 20px;"> <p style="margin: 0;"><i>THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.</i></p> </div>		SOMETHING WRONG WITH PUBLICATION	
		FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)	
		DATE SENT	
PUBLICATION NUMBER		PUBLICATION DATE	PUBLICATION TITLE
IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT.			
BE EXACT PIN-POINT WHERE IT IS			
PAGE NO.	PARA- GRAPH	FIGURE NO.	TABLE NO.
PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER		SIGN HERE	

## The Metric System and Equivalents

### Linear Measure

1 centimeter = 10 millimeters = .39 inch  
 1 decimeter = 10 centimeters = 3.94 inches  
 1 meter = 10 decimeters = 39.37 inches  
 1 dekameter = 10 meters = 32.8 feet  
 1 hectometer = 10 dekameters = 328.08 feet  
 1 kilometer = 10 hectometers = 3,280.8 feet

### Weights

1 centigram = 10 milligrams = .15 grain  
 1 decigram = 10 centigrams = 1.54 grains  
 1 gram = 10 decigrams = .035 ounce  
 1 decagram = 10 grams = .35 ounce  
 1 hectogram = 10 decagrams = 3.52 ounces  
 1 kilogram = 10 hectograms = 2.2 pounds  
 1 quintal = 100 kilograms = 220.46 pounds  
 1 metric ton = 10 quintals = 1.1 short tons

### Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce  
 1 deciliter = 10 centiliters = 3.38 fl. ounces  
 1 liter = 10 deciliters = 33.81 fl. ounces  
 1 dekaliter = 10 liters = 2.64 gallons  
 1 hectoliter = 10 dekaliters = 26.42 gallons  
 1 kiloliter = 10 hectoliters = 264.18 gallons

### Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch  
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches  
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet  
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet  
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres  
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

### Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch  
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches  
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

## Approximate Conversion Factors

<i>To change</i>	<i>To</i>	<i>Multiply by</i>	<i>To change</i>	<i>To</i>	<i>Multiply by</i>
inches	centimeters	2.540	ounce-inches	Newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	Newton-meters	1.356	metric tons	short tons	1.102
pound-inches	Newton-meters	.11296			

### Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
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