

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

**OPERATOR AND ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS
LIST AND MAINTENANCE ALLOCATION CHART
SIGNAL GENERATORS TS-497/URR, TS-497A-URR, TS-497B/URR, AND TS-497C/URR**

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SECTION		Paragraph	Page
I.	INTRODUCTION		
	Scope	1	1
	Parts for maintenance	2	2
	Requisitioning information	3	2
	Critical items	4	3
	Electron tubes	5	3
	Additional repair parts	6	3
	Comments or suggestions	7	3
II.	FIRST ECHELON FUNCTIONAL PARTS LIST		
III.	SECOND ECHELON FUNCTIONAL PARTS LIST		
IV.	MAINTENANCE ALLOCATION		
	General	8	6
	Maintenance by using organizations	9	6
	Mounting hardware	10	6
	MAINTENANCE ALLOCATION CHART		
	ALLOCATION OF TOOLS FOR MAINTENANCE FUNCTIONS		

**SECTION I
INTRODUCTION**

1. Scope

a. This manual includes an operator's maintenance repair parts and special tools list, an organizational maintenance repair parts and special tools list, and a maintenance allocation chart.

b. The operator's maintenance repair parts and special tools list lists items supplied for initial operation and for running spares. The list includes accessories, parts and material issued as part of the major end item. All items authorized for basic operator maintenance of the equipment are also listed.

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c. The organizational maintenance repair parts and special tools list lists the quantities of repair parts for organizational maintenance and is a basis for requisitioning by organizations which are authorized the major item of equipment. End items of equipments are issued on the basis of allowances prescribed in equipment authorization tables and other documents that are a basis for requisitioning.

d. The maintenance allocation chart assigns maintenance functions and repair operations to be performed by the lowest appropriate maintenance echelon.

e. Columns are as follows:

- (1) *Source, maintenance, and recoverability code.* Not used.
- (2) *Federal stock number.* This column lists the 11-digit Federal stock number.
- (3) *Designation by model.* A dagger (†) indicates the model in which the part is used.
- (4) *Description.* Nomenclature or the standard item name and brief identifying data for each item are listed in this column. When requisitioning, enter the nomenclature and description on the requisition.
- (5) *Unit of issue.* The unit of issue is the supply term applied to the smallest quantity by which the individual item is counted for procurement, storage, requisitioning, allowances, and issue purposes.
- (6) *Expendability.* Expendable items are indicated by the letter X; nonexpendable items are indicated by NX.
- (7) *Quantity authorized.* Under "Items Comprising an Operable Equipment" the column lists the quantity of items supplied for the initial operation of the equipment. Under "Running Spares and Accessory Items" the quantities listed are those issued initially with the equipment as spare parts. The quantities are authorized to be kept on hand by the operator for maintenance of the equipment.
- (8) *Quantity incorporated in unit.* This column lists the quantity of each part found in a given assembly, component, or equipment.
- (9) *Organizational.* The quantities indicated in these columns are maximum levels of repair parts authorized to be kept on hand by units performing organizational maintenance. The quantities are based

on 100 equipments to be maintained for a 15-day period.

- (10) *Illustration.* The "Item No." column lists the reference designations used for identification of the items in the illustration or text of the manual.

2. Parts for Maintenance

When this equipment is used by signal service organizations organic to the theater headquarters or communication zones to provide theater communications, those repair parts authorized up to and including fourth echelon are authorized for stockage by the organization operating this equipment.

3. Requisitioning Information

a. The allowance factors are based on 100 equipments. In order to determine the number of parts authorized for the specific number of equipments supported, the following formula will be used and carried out to two decimal places:

$$X \frac{\text{Specific number of equipments supported}}{\text{allowance factor}} = \text{Number of parts}$$

100

authorized.

b. Fractional values obtained from above computation will be rounded to whole numbers as follows:

- (1) When the total number of parts authorized is less than one, the quantity authorized will be one.
- (2) For all values above one, fractional values below 0.50 will revert to the next lower number, fractional values of 0.5 or larger will advance to the next higher whole number.

c. The number of parts authorized, determined after application of a and b above, represent one prescribed load for a 15-day period. The items and computed quantities thereof must be on hand or on order at all times.

d. Major commanders will determine the number of prescribed loads second echelon units and organizations will carry. Unit and organizations authorized additional prescribed loads will utilize the formula explained in a above but will multiply the number of equipments supported by the number of authorized prescribed loads before completing the formula. Fractional values will be rounded to whole numbers as described above.