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No. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 3 June 1983

OPERATOR AND ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOL LISTS AND MAINTENANCE ALLOCATION CHART TRANSMITTERS, RADIO T-3661ARC (5821-00-503-3434); T-366A/ARC (5821-00-681-9779)

TM 11-5821-207-12P, 28 February 1962, is changed as follows:

Page 3, Section II.1 is added after Section II.

SECTION II.1

CROSS REFERENCE INDEX. The Cross-Reference Index Is a cross-reference listing of part number to National Stock Number.

a. Use of Cross-Reference Index . To order a part listed in the Cross-Reference Index, note part number and then cross-reference that part number to the National Stock Number in the cross-reference index. Then order through normal ordering channels.

b. Ordering Part Numbers Without National Stock Number. If the part number does not have a National Stock Number, then order the part through normal ordering channels using the part number and the FSCM.

CROSS REFERENCE INDEX FORMAT

Parts With AN FSN

FSN	NEW NSN	FSCM	PART NUMBER
58215033434	5821005033434	80058	T-366/ARC
58216819779	5821006819779	80058	T-366A/ARC

By Order of the Secretary of the Army:

E.C. MEYER
General, United States Army
Chief of Staff

Official:

ROBERT M. JOYCE
Major General, United States Army
The Adjutant General

Distribution:

To be distributed in accordance with DA Form 12-36, Organizational Maintenance requirements for T-366/ARC.

U.S. GOVERNMENT PRINTING OFFICE: 1983-64-015/1223

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR AND ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOL LISTS AND MAINTENANCE ALLOCATION CHART TRANSMITTERS, RADIO T-366/ARC AND T-366A/ARC

Headquarters, Department of the Army, Washington 25, D. C.
28 February 1962

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SECTION I
INTRODUCTION

1. Scope

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

(1) The operator's maintenance repair parts and special tools list lists items supplied for initial operation.

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

b. 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*. Not 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.

(5) *Unit of issue.* The unit of issue is each unless otherwise indicated and is the sup

* This manual supersedes TM 11-5821-207-12P, 30 April 1959.

ply term by which the individual item is counted for procurement, storage, requisitioning, allowances, and issue purposes.

(6) *Expandability*. Nonexpendable items are indicated by NX. Expendable items are not annotated.

(7) *Quantity authorized.* Under "Items Comprising an Operable Equipment," the column lists the quantity of items supplied for the initial operation of the equipment.

(8) Illustrations. Not used.

2. Stockage

No parts authorized for stockage at second echelon.

3. Comments or Suggestions

Any comments concerning omissions and discrepancies in this manual will be prepared on DA Form 2028 and forwarded direct to Commanding Officer, U. S. Army Signal Materiel Support Agency, ATTN: SIGMS-ML, Fort Monmouth, N.J.

SECTION II FUNCTIONAL PARTS LIST

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
SOURCE MAINTENANCE AND RECOVERABILITY CODE	FEDERAL STOCK NUMBER	DESIGNATION BY MODEL	DESCRIPTION	UNIT OF ISSUE	EX PEND ABIL ITY	QUAN TITY AUTH OR IZED	ILLUSTRATIONS	
							FIGURE NO	FIGURE NO
	5821-503-3434		TRANSMITTER, RADIO T-366/ARC: 193,A9 type of emission frequency data, 116 to 132 Mc range, 1 band . 5 channels, crystal frequency control, power Output. 1.2w, operating power requirements, dc 28v battery, powered, 4-15/16 in x 5 in x 6 in, ARC type T 11A (28v)	NX				
	5821-681-9779		TRANSMITTER, RADIO T-366/ARC: A3, A9 type of emission, 2w max power output, 116 to 132 mc, 5 channels, crystal frequency control, oper power requirements. 28v dc, 4-15/16 in x 6-11/16 in o/a, ARC part dwg No. 15840 (28v)	NX				
			ITEMS COMPRISING AN OPERABLE EQUIPMENT					
	Ord thru AGC		TECHNICAL MANUAL TM 11-5821-207-12P			2		
			RUNNING SPARES AND ACCESSORY ITEMS					
			NO PARTS AUTHORIZED FOR STOCKAGE AT FIRST ECHELON					

SECTION III
MAINTENANCE ALLOCATION

4. General

a. This section assigns maintenance functions to be performed on components, assemblies, and subassemblies by the lowest appropriate maintenance echelon.

b. Columns in the maintenance allocation chart are as follows:

(1) *Part or component*. This column shows only the nomenclature or standard item name. Additional descriptive data are included only where clarification is necessary to identify the component. Components, assemblies, and subassemblies are listed in top-down order. That is, the assemblies which are part of a component are listed immediately below that component, and the subassemblies which are part of an assembly are listed immediately below that assembly. Each generation breakdown components, assemblies, or subassemblies) is listed in disassembly order or alphabetical order.

(2) *Maintenance function*. This column indicates the various maintenance functions allocated to the echelons.

(a) *Service*. To clean, to preserve, and to replenish lubricants.

(b) *Adjust*. To regulate periodically to prevent malfunction.

(c) *Inspect*. To verify serviceability and to detect incipient electrical or mechanical failure by scrutiny.

(d) Test. To verify serviceability and to detect incipient electrical or mechanical failure by use of special equipment such as gages, meters, etc.

(e) *Replace*. To substitute serviceable components, assemblies, or subassemblies, for unserviceable components, assemblies, or subassemblies.

(f) *Repair*. To restore an item to serviceable condition through correction of a specific failure or unserviceable condition. This function includes but is not limited to welding, grinding, riveting, straightening, and replacement of parts other than the trial and error replacement of running spare type items such as fuses, lamps, or electron tubes.

(g) *Align*. To adjust two or more components of an electrical system so that their functions are properly synchronized.

(h) *Calibrate*. To determine, check, or rectify the graduation of an instrument, weapon, or weapons system, or components of a weapons system.

(i) *Overhaul*. To restore an item to completely serviceable condition as prescribed by serviceability standards developed and published by heads of technical services. This is accomplished through employment of the technique of "Inspect and Repair Only as Necessary" (IROAN) . maximum utilization of diagnostic and test equipment is combined with minimum disassembly of the item during the overhaul process.

(j) *Rebuild*. To restore an item to a standard as near as possible to original or new condition in appearance. Performance, and life expectancy. This is accomplished through the maintenance technique of complete Disassembly of the item, inspection of all parts or components, repair or replacement of worn or unserviceable elements using original manufacturing tolerances and/or specifications and subsequent reassembly of the item.

(3) *1st*, *2d, 3d*, *4th*, *5th echelon*. The symbol X indicates the echelon responsible for performing that particular maintenance operation, but does not necessarily indicate that repair parts will be stocked at that level. Echelons higher than the echelon marked by X are authorized to perform the indicated operation.

(4) *Tools required*. This column indicates codes assigned to each individual tool equipment, test equipment, and maintenance equipment referenced. The grouping of codes in this column of the maintenance

allocation chart indicates the tool, test, and maintenance equipment required to perform the maintenance function.

(5) *Remarks*. Entries in this column will be utilized when necessary to clarify any of the data cited in the preceding columns.

c. Columns in the allocation of tools for maintenance functions are as follows:

(1) *Tools required for maintenance functions*. This column lists tools, test, and maintenance equipment required to perform the maintenance functions.

(2) *1st, 2d, 3d, 4th, 5th echelon*. The dagger (t) symbol indicates the echelons normally allocated the facility.

(3) *Tool code*. This column lists the tool code assigned.

5. Maintenance by Using Organizations

When this equipment is used by signal services organizations organic to theater headquarters or communication zones provide theater communications, those maintenance functions allocated up to and including fourth echelon are authorized to the organization operating this equipment.

SECTION IV MAINTENANCE ALLOCATION CHART

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
PART OR COMPONENT	MAINTENANCE FUNCTION	1ST ECH	2ND ECH	3RD ECH	4TH ECH	5TH ECH	TOOLS REQUIRED	REMARKS
TRANSMITTER RADIO T 366/ARC, T-366A/ARC	service		X					
	inspect		X					
	test		X				7, 8	
				X			4, 6, 10, 12, 16	
	replace		X				8	
	repair			X			4, 6, 8, 10, 12, 13, 14	
	align						4, 12, 13	
	rebuild					X	1, 2, 3, 5, 9, 11, 12,	
					X		13, 14	
	overhaul							

SECTION V ALLOCATION OF TOOLS FOR MAINTENANCE FUNCTIONS

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
TOOLS REQUIRFD FOR MAINTENANCE FUNCTIONS	1ST ECH	2ND ECH	3RD ECH	4TH ECH	5TH ECH	TOOLS REQUIRED	REMARKS
T-366/ARC; T 366A/ARC (continued)							
ANALYZER SPECTRUM TS-723/U					+	1	
AUDIO OSCILLATOR TS-382/U				+	+	2	
ELECTRONIC MULTIMETER ME 26/U				+	+	3	
MULTIMETER TS 352/1				+	+	4	
FREQUENCY METER AN/URM 81				+	+	5	
MAINTENANCE KIT, ELECTRONIC EQUIPMENT MK 157/C,GRM			+	+	+	6	
MULTIMETER AN/URM-105		+				7	
TOOL KIT TK IIS/M		+				8	
RF WATTMETER AN/URM 20			+	+	+	9	
TEST SET, ELECTRON TUBE TV-2/U					+	10	
TEST SET, ELECTRON TUBE TV-7/U			+	+		11	
TEST SET, SIGNAL GENERATOR AN/USM 44				+	+	12	
TOOL EQUIPMENT TK-87/U			+	+	+	13	
TOOL EQUIPMENT TK RB/U				+	+	14	

By Order of Secretary of the Army:

G. H. DECKER,
General, United States Army,
Chief of Staff.

Official:

J. C. LAMBERT,
Major General, United States Army,
The Adjutant General.

Distribution:

To be distributed in accordance with DA Form 12-31 requirements for Operators & Crew For All Fixed and Rotor Wing Aircraft.

822-450 U.S. GOVERNMENT PRINTING OFFICE: 1962--610977/474

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THE METRIC SYSTEM AND EQUIVALENTS

LINEAR MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
1 Meter= 100 Centimeters . 1000 Millimeters ~ 39.37 Inches
1 Kilometer = 1000 Meters = 0.621 Miles

SQUARE MEASURE

1 Sq Centimeter = 100 Sq Millimeters = 0.155 Sq Inches
1 Sq Meter= 10,000 Sq Centimeters = 10.76 Sq Feet
1 Sq Kilometer = 1,000,000 Sq Meters = 0.0386 Sq Miles

WEIGHTS

1 Gram . 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
1 Kilogram . 1000 Grams - 2.2 Lb
1 Metric Ton ~ 1000 Kilograms ~ 1 Megagram = 1.1 Short Tons

CUBIC MEASURE

1 Cu Centimeter = 1000 Cu Millimeters = 0.06 Cu Inches
1 Cu Meter = 1,000,000 Cu Centimeters = 35.31 Cu Feet

LIQUID MEASURE

1 Milliliter = 0.001 Liters . 0.0338 Fluid Ounces
1 Liter = 1000Milliliters-33.82FiuidOunces

TEMPERATURE

5/9(F - 32) = C
212Fahrenheit is equivalent to 100 Celsius
90 Fahrenheit is equivalent to 32.2 Celsius
32 Fahrenheit is equivalent to 0 Celsius
9/5 C+32.F

APPROXIMATE CONVERSION FACTORS

TO CHANGE	*TO*	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6 451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
Pints	Liters	0.473
Quarts	Liters	0.946
Gallons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.358
Pounds Per Square Inch	Kilopascals	6.895
Miles Per Gallon	Kilometers Per Liter	0.425
Miles Per Hour	Kilometers Per Hour	1.609

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers.	Acres	2.471
Cubic Meters	Cubic Foot	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
Liters	Gallons	0.264
Grams	Ounces	0.035
Kilograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pound-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
Kilometers per Liter	Miles per Gallon	2.354
Kilometers per Hour	Miles per Hour	0.621

PIN: 022922-000