

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE REPAIR PARTS
AND SPECIAL TOOL LISTS,
RADIO SET AN/PRC-41

Headquarters, Department of the Army, Washington 25, D.C.

25 August 1964

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SECTION I
INTRODUCTION

1. Scope

a. This manual lists the quantities of repair parts authorized for organizational maintenance and constitutes a basis for requisitioning when the major item of equipment is authorized to the organization. These equipments are issued on the basis of allowances prescribed in equipment authorization tables and other documents which are a basis of requisitioning. This equipment is combat essential.

b. Columns are as follows:

- (1) *Federal stock number.* This column lists the 11-digit Federal stock number.
- (2) *Designation by model.* Not used.
- (3) *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.
- (4) *Unit of issue.* The unit of issue is each unless

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

- (5) *Expendability.* Nonexpendable items are indicated by NX. Expendable items are not annotated.
- (6) *Quantity incorporated in unit.* This column lists the quantity of each part found in a given assembly, component, or equipment.
- (7) *Organizational.* The quantities indicated in this column 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.
- (8) *Illustration.* Not used.

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 general support are authorized for stockage by the organization operating this equipment.

3. Additional Repair Parts Authorization

An asterisk (*) in the column titled "15 Day Maintenance Allowance per 100 Equipments" indicates that an item is not authorized for stockage but if required, may be requisitioned for immediate use only.

4. 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.

$$\text{Specific number of equipments supported} \times \frac{\text{allowance factor}}{100} =$$

Number of parts 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 0.5 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 organizational units 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.

5. References

A maintenance allocation chart and basic issue items list are contained in TM 11-5820-510-12. Additional instructions concerning maintenance of this equipment are contained in:

Operator, Organizational, Field end Depot Maintenance Repair Parts and Special Tools List:

TM 11-5965-202-15P, Handsets H-33E/PT and H-33F/PT.

6. Reporting of Equipment Manual Improvements

The direct reporting by the individual user of errors, omissions, and recommendations for improving this equipment manual is authorized and encouraged. DA Form 2028 will tee used for reporting these improvements. This form may be completed by using pencil, pen, or typewriter. DA Form 2028 will be completed in triplicate and forwarded by the individual using the manual. The original and one copy will be forwarded direct to: Commanding General, U. S. Army Electronics Command, ATTN: AMSEL-MR-MP-P, Fort Monmouth, New Jersey 07703. One information copy will be furnished to the individual's immediate supervisor (officer, noncommissioned officer, supervisor, etc.).

SECTION II. FUNCTIONAL PARTS LIST

FEDERAL STOCK NUMBER	DESIGNATION BY MODEL	DESCRIPTION	UNIT OF ISSUE	EXP	QTY IN UNIT	MAINT ORG ALLOW	ILLUSTRATION	
							FIGURE No.	ITEM No.

SECTION II. FUNCTIONAL PARTS LIST

5820-889-3997		RADIO SET AN/PRC-41: portable manpack; amplitude modulate; frequency range 225.0 mc; battery powered in manpack operation; adaptable to fixed or vehicular operation by means of Installation Kit MK-706/PRC-41.		NX					
		COVER, ELECTRICAL CONNECTOR: Metallic material, bayonet locking mounting, with attached chain; 0.500 inch long, 1.093 inch diameter; Amphenol-Borg Electronics Corporation part Number 372-2179-00. (L4Ra3-0152A)			2	*			
5935-283-8306		COVER, ELECTRICAL CONNECTOR: Metallic material, internally threaded 5/8-24 thread; with attached chain; 0.562 inch long, 0.781 inch diameter; Dage Electric Company part number 583-3			1	*			
5920-010-6652		FUSE, CARTRIDGE: 3 amp, 250 volts maximum; 1-1/4 inch long 0.250 inch ferrule diameter; MIL type F02A250V3AS			4	5.7)			
5355-951-4083		KNOB: round with bar face shape; aluminum body; setscrew mounted 1.125 inch overall diameter; 0.750 inch thick overall; Collins Radio Co part #549-6077-002			3	*			
5355-954-3568		KNOB: round; aluminum body; setscrew mounted; 0.531 inch outside diameter; 0.563 inch thick overall; Collins Radio Co part #548-7390-002			1	*			
5935-954-3069		KNOB: round; aluminum body; setscrew mounted; 0.750 inch overall diameter; 0.875 in thick overall; Collins Radio Part No. 549-7389-002			1	*			
6240-155-7836		LAMP, INCANDESCENT: midget; flange base; 28 volts, 0.04 amp. MIL type MS25237-327			4	7.7)			

AN/PRC-41 1

By Order of Secretary of the Army:

HAROLD K. JOHNSON
General, United States Army,
Chief of Staff

Official

J. C. LAMBERT
Major General, United States Army,
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CofEngrs (1)	USACECDA (1)
TSG (1)	USACECDA (Monmouth ofc) (1)
CofSptS (1)	USATC AD (2)
USAARMBD (2)	USATC Armor (2)
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USCONARC (5)	USATC Inf (2)
USAMC (5)	USASTC (3)
USAMICOM (4)	WRAMC (1)
USAECOM (7)	Army Pic Cen (2)
USASMCOM (2)	AMS (1)
OS Maj Comd (3)	Chicago Proc Dist (1)
OS Base Comd (2)	Army Tml (1) except Oakland (5)
LOGCOMD (2)	POE (1)
MDW (1)	Sig Fld Maint Shops (3)
Armies (2)	USA Cold Rgn RE Lab (2)
Corps (2)	USAERDL (2)
USA Corps (3)	USAELRDA (White Sands) (13)
11th Ai r Assault Div (3)	Units org under fol TOE:
Instl (2) except	11-16 (2)
Ft Monmouth (63)	11-57 (2)
Ft Hancock (4), Ft Gordon (5)	11-97 (2)
Ft Huachuca (10)	11-98 (2)
Svc Colleges (2)	11-117 (2)
Br Svc Sch (2)	11-155 (2)
GENDEP (OS) (2)	11-157 (2)
Sig Sec. GENDEP (OS) (5)	11-337 (2)
Sig Dep (OS) (12)	11-500 (AA-AE) (4)
Army Dep (2) except Sharpe (3)	11 -557 (2)
Tobyhanna, Lexington (12)	11-587 (2)
Sacramento (28), Ft Worth (8)	11-592 (2)
Navajo, Savanna (5)	11-597 (2)
Letterkenny (5), Charleston (3)	

NG: None

USAR: None

For explanation of abbreviations used, see AR 320-50.

GPO 818-933

CHANGE

No. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 20 June 1983

**ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOL LISTS
RADIO SET AN/PRC 41 (5820 00 889 3997)**

TM 11-5820-510-20P, 25 August 1964, is changed as follows:

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

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SECTION III

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
59200106652	59620000106652	81349	F02A250V3AS
62401557836	6240001557836	81349	MS25237 327
59352838306	NONE	91637	583 3
58208893997	5820008893997	80058	AN/PRC-41
53559514083	5355009514083	13499	549-6077-002
59359543069	5935009543069	90107	549-7389-002
53559543568	5355009543568	13499	548 7390 002

CROSS REFERENCE INDEX FORMAT

Parts With AN FSN

OLD PART NUMBER	NEW NSN	FSCM	NEW PART NUMBER
372 2179-00		02660	

By Order of the Secretary of the Army:

Official:

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

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

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To be distributed in accordance with DA Form 12-51, Organizational Maintenance requirements for AN/PRC-41.

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THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.

SOMETHING WRONG WITH PUBLICATION

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER

PUBLICATION DATE

PUBLICATION TITLE

BE EXACT PIN-POINT WHERE IT IS

PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.

IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT.

TEAR ALONG PERFORATED LINE

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SIGN HERE

THE METRIC SYSTEM AND EQUIVALENTS

WEIGHT 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

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

LIQUID MEASURE

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

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 = 0.386 Sq. Miles

CUBIC MEASURE

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

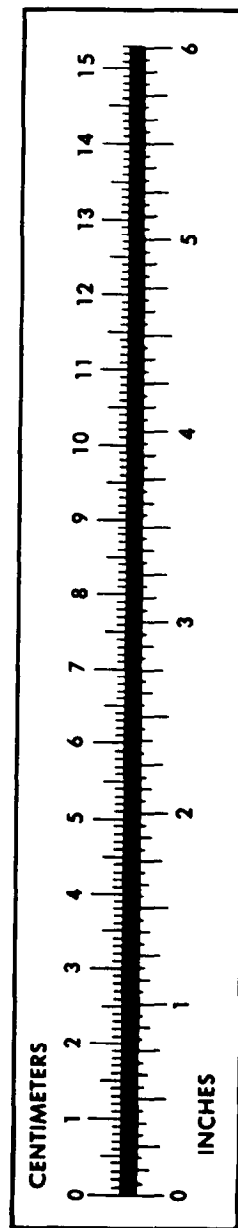
TEMPERATURE

$5/9(^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 212° Fahrenheit is equivalent to 100° Celsius
 90° Fahrenheit is equivalent to 32.2° Celsius
 32° Fahrenheit is equivalent to 0° Celsius
 $9/5^{\circ}\text{C} + 32 = ^{\circ}\text{F}$

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
its	Liters	0.473
arts	Liters	0.946
allons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
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
Meters	Yards	1.094
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 Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
ers	Gallons	0.264
ms	Ounces	0.035
ograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pounds-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
ometers per Liter	Miles per Gallon	2.354
ometers per Hour	Miles per Hour	0.621



PIN: 015743-001