

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

FIELD AND DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOL LISTS

RECTIFIERS, POWER UNIT PP-34/MSM, PP-34C/MSM, AND PP-34D/MSM

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

12 June 1963

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SECTION I INTRODUCTION

1. Scope

a. This manual lists the quantities of repair parts for third, fourth, and fifth echelon field maintenance and is a basis for requisitioning authorized parts. It is also a guide for fifth echelon in establishing initial levels of spare parts.

b. Columns are as follows:

- (1) *Source, maintenance, and recoverability code.* Source, maintenance, and recoverability codes indicate the technical service responsible for supply, the echelons where an item is stocked, echelons where an item is installed or repaired, and

whether an item is repairable or salvageable. The source code column is divided into four Parts.

- (a) *Column A.* This column indicates the materiel code and designates the area of responsibility for supply. AR 810-1 defines the basic numbers used to identify the materiel code. If the part is Signal material responsibility, the column is left blank.
- (b) *Column B.* Not used.
- (c) *Column C.* This column indicates the lowest maintenance echelon authorized to install the part.

* This manual supersedes TM 11-6130-219-35P, 8 October 1959, including C1, 12 May 1960.

This reprint includes all changes in effect at the time of publication - Changes 1 and 2.

"O" - Organizational maintenance (1st and 2d echelon).

"F" - Field maintenance (3d echelon).

"H" - Field maintenance (4th echelon).

(d) *Column D.* The symbols in this column indicate whether the item is repairable or salvageable, as follows:

"R" - indicates that the part or assembly is economically repairable and is supplied, when available, on an exchange basis.

"S" - indicates that the part or assembly may be placed in "ready-for-issue" condition by cleaning, replating, anodizing, adjusting, welding, etc.

(2) *Federal stock number.* This column lists the 11-digit Federal stock number.

(3) *Designation by model.* The dagger (†) indicates model in which the part is used and further, by its position, designates the item number in which the item is identified.

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

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

(7) *Quantity incorporated in unit.* This column lists the quantity of each part found in a given assembly, component, or equipment.

(8) *Field (third echelon).* This column indicates quantities of repair parts authorized for initial stockage for use in the third echelon maintenance

and in supply support to second echelon. The quantities are based on 100 equipment to be maintained for a 15-day period.

(9) *Field (fourth echelon).* The numbers in this column indicate quantities of repair parts authorized for initial stockage for use in fourth echelon maintenance. The quantities are based on 100 equipments to be maintained for a 15-day period.

(10) *Depot (fifth echelon).* The numbers in this column indicate quantities of repair parts authorized for depot maintenance and for initial stockage for maintenance, and for supply support to lower echelons. The entries are based on the quantity required for rebuild of 100 equipments.

(11) *Illustrations.* The "Item No." column lists the reference symbols 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. 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. Other Service Stock Numbers

Other service items listed herein are authorized in accordance with AR 700-51.

5. Requisitioning Information

a. The allowance factors are based on 100 equipments. In order to determine the

number of parts authorized for initial stockage for the specific number of equipments supported, the following formula will be used and carried out to two decimal places.

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

Number of parts authorized for initial stockage.

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

- (1) When the total number of parts authorized is less than 0.5, the quantity authorized will be zero.**
- (2) When the total number of parts authorized is between 0.5 and 1.0, the quantity, authorized will be one.**
- (3) For all values above one, fractional Values below 0.5 will revert to the next lower whole number and fractional Value 0.5 and above will advance to the next higher whole number.**
- (4) When the allowance factor listed**

in the third echelon column is in parentheses (), a quantity of one is authorized for initial stockage even though the computed quantity is less than 0.5. Parenthesis indicates that this item is combat essential.

c. The quantities determined in accordance with the above computation represent the initial stockage for a 15-day period.

6. References

A maintenance allocation chart and basic issue items list are contained in TM 11-965. Additional instructions concerning maintenance of this equipment is contained in TM 11-6130-219-20P.

7. Reporting of Equipment Manual improvements

The direct reporting, by the individual user, of errors, omissions, and recommendations for improving this manual is authorized and encouraged. DA Form 2028 (Recommended Changes to DA Technical Manual Parts Lists or Supply Manual 7, 8, or 9) will be used for reporting these improvements. This form will be completed in triplicate using pencil, pen, or typewriter. The original and one copy will be forwarded direct to Commanding Officer, U.S.

Army Electronics Materiel Support Agency, ATTN: SELMS-ML Fort Monmouth, N.J. 07703. One information copy will be furnished to the individual's immediate supervisor (officer, noncommissioned officer, supervisor, etc.).

SECTION II. FUNCTIONAL PARTS LIST

SOURCE				DESIGNATION	DESCRIPTION	UNIT	QTY	3RD FIELD	4TH FIELD	5TH DEPOT	ILLUSTRATION	
CODE	FEDERAL STOCK NUMBER	BY MODEL		OF ISSUE		EXP IN UNIT	FIGURE NO.				ITEM NO.	
A	B	C	D									
			6130-224-6089		RECTIFIER, POWER UNIT PP-34/MSM; PP-34C/MSM; PP-34D/MSM: OUTPUT 2 TO 30 VDC, 50 AMP; AC INPUT 105-125 V, 50-60 CPS, SINGLE PHASE							
					NOTE: MODEL COLUMN 1 REFERS TO PP-34/MSM; COLUMN 2 REFERS TO PP-34C/MSM; COLUMN 3 REFERS TO PP-34D/MSM							
	F	R	6625-539-9640	+	AMMETER: MIL TYPE MR26W050DCAAR	NX	1	1.3	0.4		3	N1
	F	R	6625-668-2891	+	AMMETER: BURTON-ROGERS TYPE NO. 17-3	NX	1	1.3	0.4		3	N1
	F	S	4450-406-2087	+	BLADE, PROPELLER, FAN: TORRINGTON MFG PART NO. 1027-4 (NOTE: REPLACEMENT FOR SILTRONIC AND GLOBE IND 'C' MOD ONLY)		1	0.7	0.8		1	P/O F1
5	F	S	6150-263-0675	+	BUS BAR: 2 1/2 IN LG; SIG C DWG NO. SC-D-19442-5		2	1.0	0.3		2	A5,A6
5	F	S	6150-263-0674	+	BUS BAR: 5 5/8 IN LG; SIG C DWG NO. SC-D-19442-32		2	1.0	0.3		2	A16,A17 A9
5	F	S	6150-263-0672	+	BUS BAR: 7 1/8 IN LG; SIG C DWG NO. SC-D-19442-33		1	0.7	0.2		1	A18
				+								A10
5	F	S	6150-263-0673	+	BUS BAR: 8 1/2 IN LG; SIG C DWG NO. SC-D-19442-34		1	0.7	0.2		1	A19
				+								A11
	O		5340-356-0732	+	BUTTON, PLUG: UNI-CARR PART NO. 48155		3	1.3	0.4		3	NP2-NP4
	O		5340-291-0378	+	BUTTON, PLUG: CINCH-JONES SALES PART NO. 41F		3	1.3	0.4		3	NP10-NP16
	O		5935-258-4565	+	CABLE NIPPLE, ELECTRICAL: INS; MUELLER ELEC PART NO. 23 'BLACK'		1	1.0	0.3		2	K25
				+								K15
	O		5975-281-0024	+	CABLE NIPPLE, ELECTRICAL: INS; MUELLER ELEC PART NO. 23 'RED'		1	1.0	0.3		2	K26
				+								K17

SOURCE CODE	FEDERAL STOCK NUMBER	DESIGNATION BY MODEL	DESCRIPTION	UNIT OF ISSUE	EXP	QTY IN UNIT	3RD FIELD	4TH FIELD	5TH DEPOT	ILLUSTRATION	
										FIGURE NO.	ITEM NO.
A B C D			PP-34/MSM, C & D (CONTINUED)								
	O 6145-160-4981	+ + +	CABLE, POWER, ELECTRICAL: MIL TYPE CO-02HGF (2/10)0640	FT		6	31.2	11.4	30		P/O W1
5	F 5925-246-4645	+ +	CIRCUIT BREAKER: SQUARE D PART NO. SK-3375			1	1.3	0.4	3		S1
	F 5925-808-7357	+	CIRCUIT BREAKER: HEINEMANN ELEC PART NO. AM12MG4-25-250VAC4			2	1.9	0.6	6		CB1, CB2
	F 5925-151-9671	+ +	CIRCUIT BREAKER: SPST; AN TYPE AN3160-50			1	1.3	0.4	3		S2
		+									CB3
	F 5340-376-9284	+ + +	CLAMP, LOOP: ADEL DIV, GEN METALS PART NO. 754-3-2-6			7	2.1	0.7	7		E17 THRU E22
	F 5340-511-6497	+ + +	CLAMP, LOOP: 1 1/2 IN LG;ADEL PART NO. 755-10-2-10			1	0.7	0.2	1		E24
	O 5940-230-1195	+ +	CLIP, ELECTRICAL: MUELLER ELEC PART NO. 21 'T'			1	1.5	0.4	4		E15
		+									E16
	O 5940-220-9759	+ +	CLIP, ELECTRICAL: MUELLER ELEC PART			1	1.5	0.5	4		E16
		+									E14
	O 5935-187-0729	+ + +	CONNECTOR, PLUG, ELECTRICAL: HUBBELL PART NO. 7436			1	1.3	0.4	3		P1
5	F S 4140-274-1331	+ +	FAN, VENTILATING, PROPELLER: ILG CAT NO. 48090, SIZE 103SH, TYPE Q (NOTE: REPLACEMENT FOR 'PLAIN' AND C MOD MADE BY GENERAL TRANSFORMER CO ONLY)		NX	1	1.5	0.5	4		F1
10	F 5325-281-1557	+ +	GROMMET, RUBBER: 1 1/8 IN OD; ANA STD AN931-10-14			1	0.7	0.2	1		MP1 E12

SOURCE				DESIGNATION							ILLUSTRATION		
CODE		FEDERAL STOCK NUMBER	BY MODEL	DESCRIPTION		UNIT OF ISSUE	EXP	QTY IN UNIT	3RD FIELD	4TH FIELD	5TH DEPOT	FIGURE NO.	ITEM NO.
A	B	C	D	PP-34/MSM, C & D (CONTINUED)									
F	S	4140-980-7251	+	IMPELLER, FAN, AXIAL: 10 IN OD; 5 BLADES; TORRINGTON MFG PART NO. 0-1040-5-CW				1	1.5	0.5		4	B2
F		5970-245-3842	+	INSULATOR, SLEEVING, ELECTRICAL: IVICO TYPE XTE-30(3/8)		FT		1	1.3	0.4		3	
O		5355-160-6067	+ + +	KNOB: AH & H DWG NO. 80989-211				1	1.0	0.3		2	MP5 MP1
O		5355-558-2395	+ + +	KNOB: KURZ-KASCH PART NO. S-246-3L				2	1.5	0.5		4	MP7,MP8 MP8,MP9
5	O	6240-186-6594	+ + +	LAMP LM-41: INCANDESCENT				1	(4.5)	1.6		25	DS1-2
5	O	6210-270-4100	+ + +	LENS, INDICATOR LIGHT: RED; DIALCO PART NO. 31-431				1	1.3	0.4		3	DS1-1
5	F	6210-295-2317	+ +	LIGHT, INDICATOR: DIALCO PART NO. 31101-431				1	1.3	0.4		3	DS1
5	F	6210-844-7090	+	LIGHT, INDICATOR: DIALCO PART NO. 75C-431				1	1.3	0.4		3	DS1
F		6105-532-4327	+	MOTOR, ALTERNATING CURRENT: ILG ELEC VENT MOD NO. 568 (NOTE: REPLACEMENT FOR SILTRONIC AND GLOBE IND C MODEL ONLY)			NX	1	1.5	0.5		4	P/O F1
F		6105-067-7517	+	MOTOR, ALTERNATING CURRENT: REDMOND MOTOR DIV PART NO. AK4L43J			NX	1	1.5	0.5		4	B1
F	S	6130-392-5811	+ +	PANEL, FAN GUARD: SIG C DWG NO. SC-D-19447				1	*	*		1	
F		5940-194-7710	+ + +	POST, BINDING: STD ELEC TIME PART NO. BJ-5M 'RED'				1	1.5	0.5		4	E27 E8
F		5940-194-7709	+ + +	POST, BINDING: STD ELEC TIME PART NO. BJ-5M 'BLACK'				1	1.5	0.5		4	E28 E1
F		6130-249-5596	+ +	RECTIFIER, METALLIC: MIL TYPE RS80S300BS503				1	1.3	0.4		3	SR1

SOURCE				DESIGNATION	DESCRIPTION	UNIT	QTY				ILLUSTRATION		
CODE	FEDERAL	STOCK	NUMBER	BY MODEL		OF	IN	3RD	4TH	5TH	FIGURE	ITEM	
A	B	C	D			ISSUE	EXP	FIELD	FIELD	DEPOT	NO.	NO.	
					PP-34/MSM, C & D (DONTINUED)								
	F	6130-977-2751		+	RECTIFIER, METALLIC: RADIO RECEPTOR PART NO. 133-5065			1	1.3		0.4	3	CR1
	F	5945-188-5273		+ +	RELAY, SOLENOID: A-B PART NO. 110-702			1	1.5		0.5	4	MS1
	F	5945-950-2389		+	RELAY, SOLENOID: FURNAS ELECTRIC PART NO. 41DA40AF			1	1.5		0.5	4	E13
9	F	6305-206-9723		+	SCREW, MACHINE: SHAKEPROOF 'SEMS FASTENER'			53	*		*	53	
	F	6625-351-6061		+ +	SHUNT, INSTRUMENT: MIL TYPE MSA-500			1	1.0		0.3	2	R1
	F	6130-356-2050		+	SUPPORT, MOUNTING: FOR TH-1; SIG C DWG NO. SC-D-19462-2			1	0.7		0.2	1	MP6 MP13
	F	5930-498-6995		+ +	SWITCH, ROTARY: OHMITE PART NO.212-10			2	(2.3)		0.7	8	S3,S5 S2,S3
	F	5930-568-5883		+ + +	SWITCH, ROTARY: ELECTRO SW PART NO. 8338			1	1.5		0.5	4	S1
	F	5930-228-3008		+ +	SWITCH, THERMOSTATIC: CURTIS DEV TYPE TH			1	1.5		0.5	4	TH1 S4
	F	6130-257-1463		+ +	TERMINAL BOARD: 8 TERM; SIG C DWG NO. SC-D-19453-2			1	0.7		0.2	1	TB1
	F	5940-257-1462		+ +	TERMINAL BOARD: 6 TERM; SIG C DWG NO. SC-D-19453-3			1	0.7		0.2	1	TB2
	F	5940-643-5015		+ +	TERMINAL, STUD: 1 9/16 IN LG; SIG C DWG NO. SC-D-19453-7			8	2.3		0.7	8	E7 THRU E14
	F	5940-643-5026		+ +	TERMINAL, STUD: 1 11/16 IN LG; SIG C DWG NO. SC-D-19453-8			6	1.9		0.6	6	E1 THRU E6
	F	5950-199-2293		+	TRANSFORMER, POWER, STEP-DOWN: SIG C DWG NO. SC-C-19488			1	1.3		0.4	3	T1,T2
	F	5950-648-1502		+	TRANSFORMER, POWER, STEP-DOWN: RADIO CONTROLS PART NO. 7116A, DWG NO. RCP-24			1	1.3		0.4	3	T1

SOURCE CODE	FEDERAL STOCK NUMBER	DESIGNATION BY MODEL	DESCRIPTION	UNIT OF ISSUE	EXP	QTY IN UNIT	3RD FIELD	4TH FIELD	5TH DEPOT	ILLUSTRATION	
										FIGURE NO.	ITEM NO.
A B C D			PP-34/MSM, C & D (CONTINUED)								
F	5950-260-0505	+ +	TRANSFORMER, POWER, FIXED, AUTO TRANSFORMER: SIG C DWG NO. SC-D-19487			1	1.3	0.4		3	T2
F	5950-405-2774	+	TRANSFORMER, POWER, FIXED, AUTO TRANSFORMER: RADIO CONTROLS PART NO. 7116B DWG NO. RCPL24			1	1.3	0.4		3	T2
H	6625-221-0546	+	WINDOW, METER: RADIO CONTROLS DWG NO. RCP-72			1		*		1	
O	6145-164-6865	+ + +	WIRE, ELECTRICAL: MIL TYPE CO-01HOF (1/6)0520			25	332.5	135.0		125	P/O W2 W3

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
59251519671	5925001519671	03680	AN3160-50
61451604981	6145001604981	81349	C0-02HGF(2/10)0640
53551606067	5355001606067	04009	80989-211
61451646865	6145001646865	81349	C0-01HOF(1/6)0520
62401866594	6240001866594	81349	LM-41
59351870729	5935001870729	81992	7436
59451885273	5945001885273	01121	110-702
59401947709	5940001947709	56631	BJ-5M 'BLACK'
59401947710	5940001947710	56631	BJ-5M 'RED'
59501992293	5950001992293	80063	SC-C-19488
53052069723	5305002069723	78189	SEMS FASTENER
59402209759	5940002209759	76545	21C MARKED MINUS
66252210546	6625002210546	80063	RCP-72
61302246089	6130002246089	80058	PP-34C/MSM PP34DMSM
59302283008	5930002283008	73613	TH
59402301195	5940002301195	76545	21'T'
59702453842	5970002453842	57604	XTE-30(3/8)
59252464645	5925002464645	56303	SK-3375
61302495596	6130002495596	81349	RS80S300BS503
59402571462	5940002571462	80063	SC-D-19453-3
61302571463	6130002571463	80063	SC-D-19453-2
59352584565	5935002584565	76545	23 BLACK
59502600505	5950002600505	80063	SC-D-19487
61502630672	6150002630672	80063	SC-D-19442-33
61502630673	6150002630673	80063	SC-D-19442-34
61502630674	6150002630674	80063	SC-D-19442-32
61502630675	6150002630675	60380	SC-D-19442-5
62102704100	6210002704100	72619	31-431
41402741331	4140002741331	30190	48090
59752810024	5975002810024	76545	23 RED
53252811557	5325002811557	75543	AN931-10-14
53402910378	5340002910378	71785	41F
62102952317	6210002952317	72619	31101-431
66253516061	6625003516061	81349	MSA-500
53403560732	5340003560732	61864	48155
61303562050	6130003562050	80063	SC-D-19462-2
53403769284	5340003769284	81982	754-3-2-6
61303925811	6130003925811	80063	SC-D-19447
59504052774	5950004052774	80063	7116B
44504062087	4450004062087	60380	1027-4
59304986995	5930004986995	44655	212-10
53405116497	5340005116497	81982	755-10-2-10
61055324327	6105005324327	05106	C MODEL ONLY
66255399640	6625005399640	81349	MR26W050DCAAR
5355582395	535500582395	75376	S-246-3L
59305685883	5930005685883	82121	8338
59406435015	5940006435015	80063	SC-D-19453-7
59406435026	5940006435026	80063	SC-D-19453-8

CROSS REFERENCE INDEX FORMAT

PARTS WITH AN FSN

FSN	NEW NSN	FSCM	PART NUMBER
59506481502	5950006481502	80063	7116A, DWG NO RCP-24
66256682891	6625006682891	74542	17-3
59258087357	5925008087357	74193	AM12MG4-25-250VAC4
59459502389	5945009502389	23826	41DA40AF
53409502637	5340009502637	13094	34-374
53409505710	5340009505710	13094	34-406
62109509320	6210009509320	74970	147-1000
61059513932	6105009513932	23452	AF-84 TYPE AK-4
61309772751	6130009772751	55631	133-5065
41409807251	4140009807251	60380	0-1040-5-CW

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Chief of Staff.

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Ft Monmouth (63)	DCA (1)	11-587
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Br Svc Sch (2)	USARDL Trp Comd (10)	11-597
GENDEP (OS) (2)	Ft Hancock (4)	29-56
Sig Dep (OS) (12)		

NG: State AG (3); Units-same as active army except allowance is one (1) copy to each unit.

USAR: None.

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

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



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

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PUBLICATION DATE

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GRAPH

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NO.

TABLE
NO.

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AND WHAT SHOULD BE DONE ABOUT IT.

TEAR ALONG PERFORATED LINE

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