

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE

REPAIR PARTS AND SPECIAL TOOLS LIST

FOR

RF UNIT CONTROLLER, WEINSCHEL MODEL 4302A

(NSN 5895-01-042-9481)

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REPORTING OF ERRORS

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Section I. INTRODUCTION

1. Scope. This manual lists spares and repair parts that are required for maintenance of the RF Unit Controller, Weinschel Model 4302A. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

2. General. This repair parts and special tools list (RPSTL) is divided into the following sections:

a. Section I. Introduction.

b. Section II. Repair Parts List. A list of spares and repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in numeric sequence, with the parts in each group listed in figure and item number sequence. Bulk materials are listed in National Stock Number (NSN) sequence.

c. Section III. NSN and Part Number Index. A list, in National Item Identification Number (NIIN) sequence, of all NSN's appearing in the listings, followed by a list in alphanumeric sequence of all part numbers appearing in the listings. NSN's and part numbers are cross-referenced to each illustration figure and item number appearance.

3. Explanation of Columns

a. Illustration. This column is divided as follows:

(1) Figure Number. Indicates the figure number of the illustration on which the item is shown.

(2) Item Number. The number used to identify item called out in the illustration.

b. Source, Maintenance, and Recoverability (SMR) Codes.

(1) Source Code. Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code	Definition
PA -	Item procured and stocked for anticipated or known usage.
PB -	Item procured and stocked for insurance purpose because essentiality dictates that a minimum quantity be available in the supply system.
PC -	Item procured and stocked and which otherwise would be coded PA except that it is deteriorative in nature.
PD -	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment.
PE -	Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.
PF -	Support equipment which will not be stocked but which will be centrally procured on demand.

- PG - Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which, because of probable discontinuance or shutdown of production facilities, would prove uneconomical to reproduce at a later time.
- KD - An item of a depot overhaul/repair kit and not purchased separately. Depot kit defined as a kit that provides items required at the time of overhaul or repair.
- KF - An item of a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be replaced at organizational or intermediate levels of maintenance.
- KB - Item included in both a depot overhaul/repair kit and a maintenance kit.
- MO - Item to be manufactured or fabricated at organizational level.
- MF - Item to be manufactured or fabricated at the direct support maintenance level.
- MH - Item to be manufactured or fabricated at the general support maintenance level.
- MD - Item to be manufactured or fabricated at the depot maintenance level.
- AO - Item to be assembled at organizational level.
- AF - Item to be assembled at direct support maintenance level.
- AH - Item to be assembled at general support maintenance level.

- AD - Item to be assembled at depot maintenance level.
- XA - Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
- XB - Item is not procured or stocked. If not available through salvage, requisition.
- XC - Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.
- XD - A support item that is not stocked. When required, item will be procured through normal supply channels.

NOTE

Cannibalization or salvage may be used as a source of supply for any items coded above except those coded XA and aircraft support items as restricted by AR 700-42.

(2) Maintenance Code. Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

Code Application/Explanation

- C - Crew or operator maintenance performed within organizational maintenance.
- O - Support item is removed, replaced, used at the organizational level.
- F - Support item is removed, replaced, used at the direct support level.
- H - Support item is removed, replaced, used at the general support level.
- D - Support items that are removed replaced, used at depot, mobile depot, or specialized repair activity only.

- D - The lowest maintenance level capable of complete repair of the support item is the depot level.
- L - Repair restricted to (enter applicable designated specialized repair activity), Specialized Repair Activity.
- Z - Nonrepairable. No repair is authorized.
- B - No repair is authorized. The item may be reconditioned by adjusting, lubricating, etc., at the user level. No parts or special tools are procured for the maintenance of this item.

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

Code Application/Explanation

- O - The lowest maintenance level capable of complete repair of the support item is the organizational level.
- F - The lowest maintenance level capable of complete repair of the support item is the direct support level.
- H - The lowest maintenance level capable of complete repair of the support item is the general support level.

(3) Recoverability Code. Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

Recoverability Codes	Definition
Z -	Nonrepairable item. When unserviceable, condemn and dispose at the level indicated in position 3.
O -	Reparable item. When uneconomically repairable, condemn and dispose at organizational level.
F -	Reparable item. When uneconomically repairable, condemn and dispose at the direct support level.

- H - Repairable item. When uneconomically repairable, condemn and dispose at the general support level.
- D - Repairable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.
- L - Repairable item. Repair, condemnation, and disposal not authorized below depot/specialized repair activity level.
- A - Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content, high dollar value, critical material or hazardous material). Refer to appropriate manuals/directives for specific instructions.

c. National Stock Number (NSN). Indicates the NSN assigned to the item and which will be used for requisitioning.

d. Part Number. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When a stock numbered item is requisitioned, the item received may have a different part number than the part being replaced.

e. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item. The physical security classification of the item is indicated by the parenthetical entry (insert applicable physical security classification abbreviation, e.g., Phy Sec C1 (C) -Confidential, Phy Sec C1 (S) -Secret, Phy Sec C1 (T) -Top Secret). Items that are included in kits and sets are listed below the name of the kit or set with the quantity of each item in the kit or set indicated in the quantity incorporated in unit column. When the part to be used differs between serial numbers of the same model, the effective serial numbers are shown as the last line of the description. In the Special Tools List, the initial basis of issue (BOI) appears as the last line in the entry for each special tool, special Test, Measurement, and Diagnostic Equipment (TMDE), and other special support equipment. When density of equipments supported exceeds density spread indicated in the BOI, the total authorization is increased accordingly.

g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

h. Quantity Incorporated in Unit. Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of quantity indicates that no specific quantity is applicable (e.g., shims, spacers, etc).

4. Special Information

a. Repair parts for components of standards sets which can be identified as existing in the supply system will be requisitioned through normal supply channels from the appropriate supply commodity manager.

b. Repair parts for components of standards sets which cannot be identified as to proper supply source will be requisitioned from USAMICOM, using routing identifier B64 and furnishing as a minimum, the following as exception data.

(1) Component stock number of the individual end item to be repaired.

(2) Component manufacturer's equipment model number and serial number.

(3) The equipment manufacturer's stock number as listed in the appropriate manual for the desired repair part.

(4) The repair part reference designation, circuit reference, circuit symbol schematic designation, or reference number as listed in the manufacturer's manual.

(5) The technical specification of the repair part as contained in the appropriate manufacturer's manual.

(6) The title and date of the manufacturer's manual from which the information in paragraphs a, b(3), (4), and (5) above was taken.

NOTE

Repair parts should not be requisitioned for plug-in boards identified in the plug-in board exchange program, except by the depot designated to perform the repair. Repair of calibration set components, with plug-in board assemblies or subassemblies designated as program exchange replacements with a recoverability code of L, will be accomplished by replacing the plug-in board.

c. The plug-in board exchange program functions are as follows:

(1) Requisitioning instructions for initial issue plug-in boards will be provided since new instrument boards are included in the program.

(2) As a plug-in board covered by the program fails, a replacement will be requisitioned. Requisitions will be submitted to Commander, US Army Missile Command, B64, Redstone Arsenal, AL 35898.

(3) Simultaneously with c(2) above, the defective board being replaced will be shipped by certified mail, return receipt requested, to the following address:

Transportation Officer
Anniston Army Depot
M/F Field Service Stock
Anniston, AL 36201

When requisitioning a replacement board, the turn-in document number of the replaced board shall be cited on the requisition.

5. How to Locate Repair Parts

a. When NSN or reference number is unknown:

(1) First. Using the table of contents, determine the assembly (functional group) within which the repair part belongs.

(2) Second. Using the repair parts listing, find the functional group to which the repair part belongs and locate the item by description.

b. When NSN or reference number is known:

(1) First. Using the index of NSN's and reference numbers, find the pertinent NSN or reference number. This index is in ascending NSN cross-referenced to the illustration figure number and item number.

(2) Second. Using the repair parts listing, find the figure and item number, and locate the figure and item number in the repair parts list.

6. Abbreviations. The abbreviations listed below may appear in this RPSTL:

AC-----	alternating current
ACC-----	accordance
ACCUR-----	accuracy
AL-----	aluminum
AMP-----	ampere
ASSY-----	assembly
ASTM-----	American Standard for Testing Materiel
ATTEN-----	attenuation
AWG-----	American Wire Gage
BAN-----	banana
BLK-----	black
BR-----	brass
C-----	centigrade, calibration, cycles per second
CAL-----	calibrate
CAP-----	capacitance
CD-----	code
CER-----	ceramic
COAX-----	coaxial
COMP-----	composition
COND-----	conductor
CONN-----	connector
CONS-----	consisting
CONT-----	continual
COP-----	copper
COR-----	corrosion

CPS-----	cycles per second
CU-----	cubic
CUR-----	current
CYL-----	cylinder
DB-----	decibel
DBL-----	double
DC-----	direct current
DEG-----	degree
DET-----	detector
DIA-----	diameter
DIM-----	dimension
DIV-----	division
DPDT-----	double pole double throw
DPL-----	deployment
ELEC-----	electrical
EQUIPM-----	equipment
F-----	Fahrenheit
FED-----	Federal
FIN-----	finish
FLG-----	flange
FREQ-----	frequency
FSCM-----	Federal supply code for manufacturers
FT-----	foot
GC-----	gigacycles
GEN-----	generator
GHZ-----	gigahertz
GPM-----	gallons per minute
GRAD-----	graduation
H-----	high
HD-----	head
HYDR-----	hydraulic
HZ-----	hertz
ID-----	inside diameter
IN-----	inch
INCL-----	inclusive
K-----	thousand (prefix)
KC-----	kilocycles
KG-----	kilograms
KHZ-----	kilohertz
KMHZ-----	thousand megahertz
KV-----	kilovolts
LAB-----	laboratory
LB-----	pounds
LG-----	length
LT-----	light

M-----	thousand	RPM-----	revolutions per minute
MA-----	milliampere	S-----	single
MAX-----	maximum	SEC-----	seconds
MC-----	megacycles	SECT-----	section
MFD-----	millifarads	SERR-----	serrated
MFR-----	manufacturer	SHK-----	shank
MG-----	milligrams	SNG-----	single
MHZ-----	megahertz	SPEC-----	specification
MIN-----	minimum, minutes	SPL-----	special
ML-----	milliliters	SQ-----	square
MM-----	millimeters	STD-----	standard
MOD-----	modified	STGT-----	straight
MSEC-----	milliseconds	SW-----	switch
MTL-----	material	SWR-----	standing wave ratio
MV-----	millivolts	SYS-----	system
MW-----	milliwatts	TEL-----	telescopic
NBS-----	National Bureau Standards	TERM-----	terminal
NEG-----	negative	THD-----	thread
NO-----	number	THERM-----	thermometer
NOM-----	nominal	THK-----	thick
NPT-----	National Pipe Thread	TSTR-----	tester
NSN-----	National stock number	U-----	unit
OA-----	overall	UF-----	microfarads
OD-----	outside diameter	UHF-----	ultra high frequency
OPER-----	operating	V-----	volts
OZ-----	ounce	VAC-----	volts alternating current, vacuum
PCS-----	pieces	VDC-----	volts direct current
PCT-----	percent	VHF-----	very high frequency
PF-----	picofarads	VSWR-----	voltage standing wave ratio
PK-----	peck	W-----	watts, with, width
PLTD-----	plated	WT-----	weight
PN-----	part number		
POS-----	positive		
PP-----	peak-to-peak		
PSI-----	pounds per square inch		
PWR-----	power		
REF-----	reference		
REP-----	repetition		
REQ-----	required		
REQMTS-----	requirements		
RES-----	resistance		
RF-----	radio frequency		
RG-----	range		
RH-----	right hand		
RL-----	reel		
RM-----	rack mounted		
RMS-----	root mean square		
ROT-----	rotating		

SECTION II. REPAIR PARTS LIST

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
						GROUP 7011 CONTROLLER, RF UNIT 4302A 93459		
						MAINFRAME ASSEMBLY CONSISTING OF:		
1	10	PAHZZ	5935-00-683-1256	57-40360	02660	CONNECTOR, RECEPTACL.....	EA	1
1	20	PAHZZ	5935-00-754-8787	MS24055-1	96906	CONNECTOR, RECEPTACL.....	EA	1
1	30	PAHZZ	5935-00-681-4722	126-218	02660	CONNECTOR, RECEPTACL.....	EA	1
1	40	PAHZZ	5935-00-474-6109	2156728-1	10001	CONNECTOR, RECEPTACL.....	EA	1
1	50	PAHZZ	5962-00-369-7739	M38510/03004BCB	81349	MICROCIRCUIT, DIGITA	EA	2
1	60	PAHZZ	5962-00-428-7809	M38510/01001BEB	81349	MICROCIRCUIT, DIGITA	EA	1
1	70	PAHZZ	5905-00-114-0711	RCR07G472JS	81349	RESISTOR, FIXED, COMP	EA	1
1	80	PAHZZ	5905-00-105-7764	RCR07G222JS	81349	RESISTOR, FIXED, COMP	EA	7
1	90	PAHZZ	5905-00-110-7620	RCR07G102JS	81349	RESISTOR, FIXED, COMP	EA	7
1	100	PAHZZ	5905-00-106-3668	RCR07G220JS	81349	RESISTOR, FIXED, COMP	EA	1
1	110	PAHZZ	5945-01-078-6460	JRM1049	77342	RELAY, ELECTROMAGNET.....	EA	1
1	120	PAHZZ	5945-01-078-6460	JRM1049	77342	RELAY, ELECTROMAGNET.....	EA	1
1	130	PAHZZ	5961-00-892-0734	JAN1N483B	81349	SEMICONDUCTOR DEVIC.....	EA	1
1	150	PAHZZ	5961-00-124-0113	2N4401	04713	TRANSISTOR	EA	1
1	160	PAHZZ	5961-00-124-0117	2N4403	04713	TRANSISTOR	EA	7

SECTION III. NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5905-00-105-7764	1	80	5935-00-474-6109	1	40
5905-00-106-3668	1	100	5935-00-681-4722	1	30
5905-00-110-7620	1	90	5935-00-683-1256	1	10
5905-00-114-0711	1	70	5935-00-754-8787	1	20
5961-00-124-0113	1	150	5961-00-892-0734	1	130
5961-00-124-0117	1	160	5945-01-078-6460	1	110
5962-00-369-7739	1	50	5945-01-078-6460	1	120
5962-00-428-7809	1	60			

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
JAN1N483B	81349	1	130	RCR07G222JS	81349	1	80
JRM1049	77342	1	110	RCR07G472JS	81349	1	70
JRM1049	77342	1	120	126-218	02660	1	30
MS24055-1	96906	1	20	2N4401	04713	1	150
M38510/01001BEB	81349	1	60	2N4403	04713	1	160
M38510/03004BCB	81349	1	50	2156728-1	10001	1	40
RCR07G102JS	81349	1	90	57-40360	02660	1	10
RCR07G220JS	81349	1	100				

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