

TECHNICAL MANUAL

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LISTS
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)
FOR
RECEIVING SET, RADIO AN/FRR-79
(NSN 5820-00-937-2887)

HEADQUARTERS, DEPARTMENT OF THE ARMY
APRIL 1979



DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LISTS
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)
FOR
RECEIVING SET, RADIO AN/FRR-79
(NSN 5820-00-937-2887)
Current as of 30 September 1978

REPORTING OF ERRORS

You can improve this manual by recommending improvements using DA Form 2028-2 located in the back of the manual. Simply tear out the self addressed form, fill it out as shown on the sample, fold it where shown, and drop it in the mail.

If there are no blank DA Form 2028-2 in the back of your manual, use the standard DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forward to the Commander, US Army Communications and Electronics Material Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703.

In ether case a reply will be furnished direct to you.

Table of Contents

			Page	Illus Figure
SECTION I.	Introduction		1	
II	Repair parts list		5	
Group 00	Receiving Set, Radio AN/FRR-79.....		5	1
01	Receiver Group OR-31/FRR-79 (1)		7	2
	0101 Cabinet, Electrical Equipment CY-6450/FRR-79 (AI)		11	3, 4
	010101 Panel, power distribution (1AA1)		15	5
	010102 Panel, data distribution (1A1A2)		19	6
	01010201 Antenna protector (1AA2A1, 1A1A2A2).....		21	7
	010103 Panel, radio frequency distribution (A1A4)		23	8
	01010301 Amplifier, hybrid (A1A4A4).....		25	9
	0101030101 Electronic component assembly (1AA4A4A1, 1A1A4A4A2)		27	10
	0101030102 Electronic component assembly (A1A4A4A3)		29	11
	01010302 Amplifier, hybrid (1A1A4AS)		31	12
	0101030201 Electronic component assembly (1A1A4A5A1, A1A4A5A2)		33	13
	0101030202 Electronic component assembly (1AA4A5A3)		35	14
	0102 Receiver, Radio R-1543/FRR-79 (A3, 1A4).....		39	15
	010201 Network, hybrid circuit (A3A3, 1A4A3).....		43	16
	01020101 Circuit card assembly (1A3A3A1, 1A4A3A1).....		47	17
	010202 Selector, automatic gun control (1A3A8, 1A4A8)		49	18
	01020201 Circuit card assembly (1A3A8A1, A4A8A1).....		53	19
	010203 Amplifier, intermediate frequency (A3A9 thru 1A3A12) (1A4A9 thru A4A2).....		55	20
	01020301 Circuit card assembly (1A3A9A1 thru 1A3A12A1), (1A4A9A1 thru 1A4A12A1)		59	21
	0102030101 Photoelectric cell (A3A9A1A thru A3A12A1A1), (A4A9A1A1 thru 1A4A12A1A)		63	22
	0102030102 Photoelectric cell housing assembly (A3A9A1A2 thru 1A3A12A1A2, (1A4A9A1A2 thru A4A12A1A).....		65	23
	010204 Power supply (1A3AS5, 1A4A15).....		67	24
	01020401 Circuit card assembly (A3A15A1, 1A4A15A1).....		71	25

*This manual supercedes TM 11-5820-601-34P, 29 March 1974.

Table of Contents - Continued

Group		Page	Illus/ Figure
	Circuit card assembly (1A3, A15A2, 1A4A5A2)	75	26
01020403	Electronic component assembly (1A3A15A4, 1A4A15A4)	77	27
010205	Mixer stage, VHF (1A3A16, 1A4A16)	79	28
01020501	Circuit card assembly (A3A16A, 1A4A16A1)	83	29
010206	Mixer stage, high frequency (A3A20, 1A4A20)	87	30
01020601	Circuit card assembly (1A3A20A1, 1A4A20A1)	89	31
01020602	Circuit card assembly (1A3A20AR1, 1A4A20AR1)	91	32
01020603	Circuit card assembly (1A3A20AR2, 1A4A20AR2)	95	33
010207	Equalizer, high frequency (1A3A21, 1A4A21)	97	34
01020701	Circuit card assembly (1A3A21A1, 1A4A21A1)	101	35
0102070101	Light coupler, amplifier, (1A3A21A1A1, 1A4A21A1A1)	105	36
0102070102	Photoelectric (1A3A21A1A2, 1A4A21A1A2)	107	37
010208	Alarm, monitor (A3A29, 1A4A29)	109	38
01020801	Circuit card assembly (1A3A29A1, 1A4A29A1)	113	39
010209	Radio receiver, subassembly (1A3A35, 1A4A35)	117	40
01020901	Circuit card assembly (1A3A35A1, 1A4A35A1)	121	41
01020902	Radio receiver subassembly (A3A35A2, 1A4A35A2)	123	42
0102090201	Switch, rotary (A3A35A2A1, A4A35A2A1)	125	43
01020903	Filter assembly (1A3A35A32, 1A4A35A32)	127	44
01020904	Circuit card assembly (A3A35A39, 1A4A35A39)	129	45
01020905	Filter assembly (1A3A35A46, 1A4A35A46)	131	46
0102090501	Filter assembly y (1A3A35A46A1, 1A4A35A46A1)	133	47
010210	Preselector, radio frequency (1A3A37, 1A4A37)	135	48
01021001	Preselector subassembly (1A3A37A1, 1A4A37A1)	137	49
0102100101	Circuit card assembly (1A3A37A1A1, 1A4A37A1A1)	139	50
0102100102	Circuit card assembly (1A3A37A1A2, 1A4A37A1A2)	143	51
0102100103	Circuit card assembly (1A3A37A1A3, 1A4A37A1A3)	147	52
0102100104	Preselector subassembly (1A3A37A1A4, 1A4A37A1A4)	151	53
0102100105	Circuit card assembly (A3A37A1Z1, 1A4A37A1Z1)	155	54
010211	Filter assembly, electrical bandpass (1A3FL18, 1A4FL18)	159	55
01021101	Electronic component assembly (1A3FL18A1, 1A4FL18A1)	161	56
0103	Control, electronic frequency (1A5)	165	57
010301	Electronic frequency subchassis (1A5A1)	169	58
01030101	Electronic frequency y subchassis (A5A1A1)	173	59
0103010101	Switch, push, main diversity (1A5A1A1A1)	175	60
0103010102	Light indicator fault (1A5A1A1A2)	177	61
0103010103	Switch, push, afcon can fail (A5A1A1A3)	179	62
0103010104	Switch, push, fine tune (1A5A1A1A4)	181	63
0103010105	Switch, rotary, circuit tester (1A5A1A1A5)	183	64
01030102	Filter assembly (1A5A1FL2)	185	65
010302	Calibrator, frequency (1A5A2)	187	66
01030201	Circuit card assembly (1A5A2A1)	191	67
010303	Monitor, radio frequency (1A5A4)	195	68
01030301	Circuit card assembly (1A5A4A1)	197	69
010304	Control, electrical frequency (1A5A5)	199	70
01030401	Circuit card assembly (1A5A5A1)	203	71
010305	Amplifier, intermediate frequency (1A5A13)	205	72
01030501	Circuit card assembly (1A5A13A1)	209	73
010306	Alarm monitor (1A5A29)	211	74
01030601	Circuit card assembly (1A5A29A1)	215	75
010307	Oscillator, radio frequency (1A5A31)	217	76
01030701	Circuit card assembly (1A5A31A1)	221	77
01030702	Electronic component assembly (1A5A31A2)	223	78
01030703	Circuit card assembly (1A5A31A3)	225	79
010308	Detector, radio frequency (1A5A38)	227	80
01030801	Circuit card assembly (1A5A38A1)	231	81
010309	Detector, radio frequency (1A5A39)	235	82
01030901	Circuit card assembly (1A5A39A1)	239	83
010310	Power supply (1A5PS1)	243	84
01031001	Circuit card assembly (1A5PS1A1)	247	85
01031002	Circuit card assembly (1A5PS1A2)	251	86
01031003	Electronic component assembly (1A5PS1A3)	253	87
0104	Monitor radio f frequency ID-1562/FRR-79 (1A6)	257	88
010401	Power Supply (1A6A10)	261	89

Table of Contents - Continued

			Page	Illus/ Figure
Group	01040101	Circuit card assembly (1A6A10A1)	265	90
	01040102	Circuit card assembly (1A6A10A2)	267	91
	01040103	Electronic component assembly (1A6A10A4)	269	92
	010402	Amplifier, monitor (1A6A11)	271	93
	01040201	Circuit card assembly (1A6A11A1)	273	94
	010403	Audio frequency subassembly (1A6A20)	277	95
	01040301	Audio frequency subassembly (1A6A20A10)	281	96
	0104030101	Switch, rotary (1A6A20A10A1)	283	97
	0104030102	Switch, rotary (1A6A20A10A2)	285	98
	0104030103	Switch, push, operate standby (1A6A20A10A3)	287	99
	01040302	Attenuator, variable (1A6A20AT1 thru 1A6A20AT8)	289	100
	01040303	Circuit card assembly (1A6A20A40)	291	101
	0105	Contro, Converter C-7666/FRR-79 (1A7)	293	102-104
	010501	Circuit card assembly (1A7A1)	301	105
	010502	Circuit card assembly (1A7A2)	303	106
	010503	Circuit card assembly (1A7A3)	305	107
	010504	Circuit card assembly (1A7A4)	307	108
	010505	Circuit card assembly (1A7A6)	309	109
	010506	Circuit card assembly (1A7A7)	311	110
	010507	Circuit card assembly (1A7A8)	313	111
	010508	Circuit card assembly (1A7A9)	317	112
	010509	Circuit card assembly (1A7A12)	321	113
	010510	Circuit card assembly (1A7A13)	325	114
	010511	Circuit card assembly (1A7A15)	327	115
	010512	Circuit card assembly (1A7A16)	331	116
	010513	Circuit card assembly (1A7A17)	335	117
	010514	Circuit card assembly (1A7A18)	339	118
	010515	Circuit card assembly (1A7A21)	343	119
	010516	Circuit card assembly (1A7A24)	347	120
	010517	Circuit card assembly (1A7A25)	351	121
	010518	Circuit card assembly (1A7A26)	355	122
	010519	Converter subassembly (1A7A27)	359	123
	01051901	Converter subassembly (1A7A27A1)	363	124
	01051902	Panel, fuse (1A7A27A2)	367	125
	0106	Synthesizer Electrical 0-1488/FR (See TM 11-5820-598-34P and TM 11-5820-599-34P for parts)		
02	Control, Receiver C-7667/FRR-79 (2)		369	126, 127
	0201	Re mote control subassembly (2A25)	375	128
	020101	Remote control subassembly (2A25A1)	381	129
	0202	Circuit card assembly (2A10)	385	130
	0203	Circuit card assembly (2A4)	387	131
	0204	Circuit card assembly (2A21)	391	132
	0205	Circuit card assembly (2A9)	395	133
	0206	Circuit card assembly (2A7)	397	134
	0207	Circuit card assembly (2A11)	401	135
	0208	Circuit card assembly (2A6)	403	136
	0209	Circuit card assembly (2A23)	407	137
	0210	Circuit card assembly (2A8)	409	138
	0211	Circuit card assembly (2A2)	411	139
	0212	Circuit card assembly (2A20)	415	140
	0213	Circuit card assembly (2A3)	417	141
	0214	Circuit card assembly (2A15, 2A16)	421	142
	0215	Circuit card assembly (2A24)	425	143
	0216	Circuit card assembly (2A5)	427	144
	0217	Circuit card assembly (2A12)	431	145
	0218	Circuit card assembly (2A19)	433	146
	0219	Circuit card assembly (2A14)	435	147
	0220	Circuit card assembly (2A22)	439	148
	0221	Circuit card assembly (2A17, 2A18)	443	149
SECTION	III.	Special tools list (Not applicable)		
	IV.	National stock number and part number index		444

SECTION I INTRODUCTION

1. Scope

This manual spares and repair parts; special tools; special test, measurement, and diagnostic equipment (CmDE), and other special support equipment required for performance of direct support and general support maintenance of the AN/FRR-79. It authorizes the requisitioning and issue of spare and repair parts indicated by the source and maintenance codes.

2. General

This Repair Parts and Special Tool List is divided into the following sections:

a. *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.

b. *Section III Special Tools List.* Not applicable.

c. *Section IV National Stock Number and Part Number Index.* A list, in National item identification number (NN) sequence, of National stock numbers (NSN) appearing in the listings, followed by a list, in alphanumeric sequence, of part numbers appearing in the listings. National stock numbers 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 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 or anticipated or known
------	---

PD -	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial; issue or outfitting Not subject to automatic replenishment.
------	--

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 Source 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 level 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 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
------	-------------------------

O -	Support item is removed, replaced, used at the organizational level.
-----	--

F -	Support item is removed, replaced, used at the direct support level.
-----	--

D -	Support items that are removed, replaced, used at depot, mobile depot, specialized repair activity only.
-----	--

(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 (authorized maintenance functions). This position will contain one of the following maintenance codes:

Code	Application/Explanation
------	-------------------------

F -	The lowest maintenance level capable of complete repair of the support item is the direct support
-----	---

D -	The lowest maintenance level capable of complete repair of support item is the depot level.
-----	---

Z -	Nonreparable. No repair is authorized.
-----	--

(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 follows:

Recoverability codes	Definition
----------------------	------------

Z -	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
-----	--

F -	Reparable item. When uneconomically reparable, condemn and dispose at the direct support level.
-----	---

D -	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.
-----	---

L -	Reparable item. Repair, condemnation, and disposal not authorized below depot/specialized repair activity level.
-----	--