

THE MIL LIST

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This is a static list. I no longer seek entries or add new material. The other directories I maintain are my main priority now.

Military Equipment List ----- 07-30-07

Designation	Description
AM-141B/MRC	Linear power amp, 2-18MHz, designed for use with BC-610( ), 115VAC, 60Hz, 50A
AM-3924	Linear power amp, HF, 1kW, used with AN/FRC-93 and AN/GRC-122 sets
AM-6155/GRT-22	Linear power amp, 225-400MHz, 50w (conservative) 10w in, Eimac X165Z final, extensive metering, can be converted to 116-150MHz, rack mount high, 80 lbs, ITT (model 3212)
AN/ARC-5	"Command Set" WWII airborne receiver and transmitter sets used in various combinations, also known as "liason sets" given their common usage, describes the following possible units (see individual entries):
R-23/BC-453/CBY-46129	Receiver, 190-550kHz
R-24/BC-946/CBY-46145	Receiver, 520-1500kHz
R-25/BC-??/CBY-46104	Receiver, 1.5-3.0MHz
R-26/BC-454/CBY-46105	Receiver, 3.0-6.0MHz
R-27/BC-455/CBY-46106	Receiver, 6.0-9.1MHz
T-19/BC-457/CBY-52209	Transmitter, 3.0-4.0MHz
T-22/BC-459/CBY-52211	Transmitter, 7.0-9.1MHz
MD-7	AM Speech Modulator

The AN/ARC-5 system uses R- and T- designations. The BC- numbers are used in Signal Corps SCR-274N sets. The CBY- numbers are used in the Navy ATA/ARA/RAV/RBD sets.

Receivers all use the same 6-tube superhet design: r.f. amplifier (12SK7), converter (12K8), two i.f. stages (two 12SK7's, or 12SK7/12SK7), detector and two audio stages (12SR7, 12A6)

Transmitters use four tubes: 1626 oscillator, two 1625 finals, and 1629 magic-eye tuning. All have internal VFO and 28VDC dynamotor.

AN/ARC-27 Transceiver, 225-400MHz, 18 preset chan of 1750 possible, AM, 20w, Rockweel Collins and Magnavox, replaced by Collins ARC-159 and Magnavox ARC-164

AN/ARC-33 Transceiver, major component RT-173

AN/ARC-34 Transceiver, 225-400MHz, 3500 chan, AM, 20w, Rockwell Collins and Magnavox. replaced by Collins ARC-159 and Magnavox ARC-164

AN/ARC-44 Transceiver, 24-52mHz, FM, aircraft use, major component RT-294B, replaced by AN/ARC-54

AN/ARC-45 Tranceiver, 225-400MHz, 1750 chan, AM, 1w, 150, 28, and 300VDC, major component RT-295, replaces the AN/ARC-60

AN/ARC-51 Transceiver, 225-400MHz, 1750 chan, 100kHz spacing, AM, 20w, 28VDC, Navy version, Admiral Systems, ASC Systems and Rockwell Collins

AN/ARC-51A Transceiver, similiar to AN/ARC-51

AN/ARC-51AX Transceiver, similiar to AN/ARC-51, 28VDC (inverted to 115VAC 400Hz), major component: RT-702, Army version

AN/ARC-51BX Transceiver, same as AN/ARC-51AX except 3500 chan, 50Hz spacing and major component RT-742

AN/ARC-51X Transceiver, Air Force version of AN/ARC-51BX

AN/ARC-54 Transceiver, 30-69.95mHz, 800 chan, 50Hz spacing, FM, 10w, 28VDC, major component: RT-348, Rockwell Collins, replaced by AN/ARC-131

AN/ARC-55 Transceiver, UHF, AM, major component: RT-349, RT-349A, or RT-349B, replaced by AN/ARC-51BX and AN/ARC-51X

AN/ARC-60A Transceiver, 228-258mHz, AM, 28VDC, major components: R-508 and CV-431, replaced by AN/ARC-45

AN/ARC-73 Transceiver, 116-150mHz, 680 chan, 80 preset, AM, 20w, 28VDC, major components: T-879, R-1123 and C-4074

AN/ARC-73A Transceiver, 116-149.95MHz TX, 108-151.95MHz RX, 50kHz steps, AM, 20w, 28VDC 3.3A, used in OV-1A Bronco aircraft, ASC Systems

AN/ARC-84 Transceiver, 118-136MHz 360 chan TX, 108-136MHz 560 chan RX, AM, 25w, vacuum tube, 27lbs in three components, Allied Technology Inc.

AN/ARC-94 Transceiver, 2-29.999MHz, 1kHz spacing, AM/SSB, major component: RT-698/ARC-94 and 714E-2, 208VAC 400Hz

AN/ARC-101 Transceiver, 116-150MHz, AM, 680 chan TX, 108-150MHz, 880 chan RX, 50kHz spacing, Allied Technology

AN/ARC-102 Transceiver, 2-30MHz, 1kHz spacing, AM/SSB, 100w AM, 400w PEP SSB, major components: RT-698 and C-4390, replaces the AN/ARC-59

AN/ARC-109 Transceiver, 225-400MHz, 3500 chan, AM, 30w, solid-state, Rockwell Collins

AN/ARC-114 Transceiver, 30-76MHz, FM, 920 chan, guards 40.50MHz, 1 or 10w, 28VDC, 7lbs, components vary with aircraft, GTE Sylvania

AN/ARC-114A Transceiver, similiar to AN/ARC-114 except manufactured by E-Systems

AN/ARC-115 Transceiver, 116-150MHz, AM, 1360 chan, guards 121.5MHz, 10w, 28VDC, 7lbs, GTE Sylvania

AN/ARC-115A Transceiver, similiar to AN/ARC-115 except manufactured by E-Systems

AN/ARC-116 Transceiver, 225-400MHz, AM, 3500 chan, 10w, 28VDC, 8lbs, helicopter use, GTE Sylvania

AN/ARC-119 Transceiver, 2-29.999MHz, 1kHz spacing, AM/SSB, major components: RT-698/ARC-119 and 714E-2A, 27.5VDC

AN/ARC-120 Transceiver, 2-29.999MHz, 1kHz spacing, AM/SSB, major components: RT-698/ARC-120 and 713E-3, 115VAC 400Hz

AN/ARC-131 Transceiver, 30-76MHz, 920 chan, FM, 1 or 10w 28VDC, 30lbs, major components: RT-823 and C-7088,

replaces AN/ARC-54

AN/ARC-134B Transceiver, 116-150MHz, 860 chan, 50kHz spacing; 1360 chan in -A version), AM, 25-40w, 28VDC, 20lbs, major components: RT-857 and C-7197

AN/ARC-156 Transceiver, 225-400MHz, 7000 chan, 30w AM and 100w FM/FSK. Made for Navy S-3A and E-2C by Rockwell Collins

AN/ARC-159 Transceiver, 225-400MHz, 7000 chan, 25kHz steps, AM, 30w, 28VDC 12A, Rockwell Collins

AN/ARC-160 Transceiver, 150-173.995MHz, 5kHz steps, FM, simplex or half duplex, 5w, guards 156.8MHz, used by the US Coast Guard and Canadian Transport Ministry for airborne marine communications, 28VDC 2A, GTE Sylvania

AN/ARC-164(v) Transceiver, 225-400MHz, 25kHz spacing, AM, 1-10w, 18, 24 or 28VDC, major component: RT-1167, Magnavox

AN/ARC-186 Transceiver, 30-87.975MHz FM and 108-151.975MHz AM, (108-155.975 in the VHF-186 version), 20 chan presets and manual tune in 25kHz steps, 10w AM/FM, Guards 41.5/121.5MHz, 28VDC 4A, 5"x5"x6.5", 6.5lbs, Rockwell Collins

AN/ARC-515R-1 Transceiver/navigation receiver, VHF, AM, major component: RT-514R-1, used in T-41B aircraft

AN/ARC-524A Transceiver, 118-140MHz, AM, 360 chan, 15w, 28VDC, used in TH-55A aircraft

AN/ARR-15 Receiver, 1.5-18MHz, main component: R-105/ARR-15

AN/ARR-15A Receiver, 1.5-18MHz, main component: R-105A/ARR-15

AN/ART-13 Transmitter, HF, AM/CW/MCW, major component: T-47/ART-13, post-WWII to Korean War

AN/ASC-15 Radio set, groups three AN/ARC-131 for helicopter use in forward areas

AN/FRC-93 Radio set, Special Forces/USACC/field artillery, HF, SSB, 1kW (PEP) with AM-3979 linear amplifier, other major component: RT-718 transceiver, Collins Radio

AN/FRR-59() Receiver, 2-32MHz, four bands, mechanical digital

dial, USB/LSB/ISB/AM/CW, many 7&9 pin tubes, triple-conversion: 1625-1725/220/80kHz, 25.25h X 22"w X 24"d, 300 lbs, National Radio, no info on variants A or B

- AN/GRC-10 Radio set, National Guard/Army Reserve, VHF, FM, major components: T-235 and R-125
- AN/GRC-19 Radio set, National Guard/Army Reserve, HF, AM/CW, medium power, major components: T-195 and R-392
- AN/GRC-26D Radio set, National Guard/Army Reserve, HF, RTTY, high-power shelter-mounted station for mobile, fixed or semifixed operation, major components: T-368 and R-390, replaced by AN/GRC-122
- AN/GRC-38 Radio set, 0.54-54mHz RX, 2-18mHz TX, AM/CW, consists of one BC-610, two R-274 receivers and CY-1218 control box, two local and one remote operating positions, Hallicrafters, successor to SCR-299, 399 and 499, replaced by AN/GRC-41
- AN/GRC-41 Radio set, HF, CW/AM in half or full-duplex operation, for mobile, fixed, or semi-fixed use, major components: T-368C and R-390
- AN/GRC-46 Radio set, National Guard/Army Reserve, HF, AM/RTTY, transmits 1.5-20mHz, receives 0.5-32 mHz, 100w, 28VDC AN/VRC-29 is equivalent, replaced by AN/GRC-142, shelter mounted
- AN/GRC-50 Radio set, UHF, FM, transportable, major components: T-893 and R-1331
- AN/GRC-87 Manpack transceiver, HF, AM, low-power, similar to mobile AN/VRC-34 set, major component: RT-77/GRC-9
- AN/GRC-103 Radio set, UHF, FM, compact, 24 telephone channels when used with multiplex equipment, major components T-883 and R-1329
- AN/GRC-106 Radio set, HF, SSB, mobile use (but also fixed or semi-fixed), major component: RT-662, replaces AN/GRC-19, variant set AN/ARC-106A uses RT-834
- AN/GRC-109 Radio Set, Special Forces, 3-22MHz, CW, consists of: T-784/GRC-109 transmitter, R-1004/GRC-109 receiver, PP-2685 AC power supply, PP-2684 AC/DC power supply. See RS-1 and individual entries

AN/GRC-122 Radio set, HF, AM/SSB/RTTY, vehicular, part of a family of sets including AN/GRC-142, AN/VSC-2, and AN/VSC-3, replaced AN/GRC-26D for Division HQ use, major components two RT-662's and AM-3924

AN/GRC-125 Radio set, 30-76MHz, FM, for vehicular, manpack, or fixed use, major component RT-505, 1-2w

AN/GRC-142 Radio set, similar to AN/GRC-122 except just one RT-662, replaces AN/GRC-46

AN/GRC-143 Radio set, 4.4-5.0GHz, FM, tropospheric/diffractive scatter mode of operation, major components: T-961 and R-1287

AN/GRC-144 Radio set, 4.4-5.0GHz, FM, general purpose, major components: T-1054 and R-1467

AN/GRC-160 Radio set, AN/PRC-77 variant, 30-76MHz, 920 chan, 50kHz spacing, FM, major component: RT-841

AN/GRC-163 Radio set, Point-to-point infantry communications, VHF, FM, major components modified RT-442 and RT-524

AN/GSQ-151 Seismic detection radio, major component: RC-3A

AN/MRC-102 Radio set, variant of AN/GRC-50, major components: two AN/GRC-50 sets

AN/MRC-103 Radio set, variant of AN/GRC-50, major components: three AN/GRC-50 sets

AN/MRR-8 Radio set, HF, RTTY, air/mobile transportable shelter, major components: R-390 URR receiver, RTTY equipment, diversity circuitry, security gear

AN/MRT-9 Radio set, HF, RTTY, air/mobile transportable shelter, major components: T-368 and R-390

AN/MSC-57 Radio set, 7.25-8GHz via satellite, FM, 3-100w, 115/230VAC 50-60Hz, 22-30VDC, 1375lbs

AN/MSC-58 Radio set, 240-315MHz via satellite, FM, 1-100w, 115/230VAC 50-60Hz, 22-30VDC, 9500lbs

AN/PRC-1 Radio Set, portable, 2-12MHz, two bands, Transmitter: xtal, AM/CW, 30 W, Receiver: AM/CW 18" X 13.25" X 7.25", 32lbs 115/150/200/220/250 VAC, 50/60Hz, manufactured circa 1940, concealed in

a suitcase, used by intelligence and special forces personnel

AN/PRC-5 Radio Set, portable, 4-16MHz, four bands, Transmitter: xtal, AM/CW, 10-16W, Receiver: AM/CW, superhet, 11" X 10" X 4", 25lbs, 110/220VAC 50/60Hz, manufactured late 1940s, concealed in a suitcase, with J-47 key, plug-in xmit coils, HS-30 headset and FT-243 crystals, used by intelligence and special forces personnel

AN/PRC-6 Transceiver, 47-55.4MHz, major component: RT-196, Korean war

AN/PRC-8 Transceiver, 20-28MHz, FM, 1w, manpack/vehicular/fixed station, 1.5, 6, 67.5 VDC (receive), 135VDC (transmit), BA-279 mil-type battery, 8 lbs, Korean war

AN/PRC-9 Transceiver, 27-39MHz, FM, similar to AN/PRC-8

AN/PRC-10 Transceiver, 38-55MHz, FM, similar to AN/PRC-8, less than 1 watt

AN/PRC-25 Transceiver, 30-76MHz, 920 chan, 50kHz spacing, FM, short-range, 1-2w, major component: RT-505/PRC-25, 24VDC from BA-4386 mil-type battery, solid-state except for 2DF4, 18 lbs

AN/PRC-41 Transceiver, 225-400MHz, AM, 3w, manpack/vehicular/field use, major component: RT-695

AN/PRC-41A Transceiver, variant of AN/PRC-41, uses the RT-695A and adds "X-Mode" (secure/scrambled voice)

AN/PRC-47 Transceiver, Special Forces, 2-12MHz, SSB/CW, 20 and 100w (PEP), major component: RT-67, digital tuning, 24VDC, 26.5VDC, or 115VAC 400Hz, portable/vehicular/fixed use

AN/PRC-64A Transceiver, Special Forces, 2.2-6MHz, AM/CW, 4 chan, crystal control, 5w CW, 1.5w AM, 31.2VDC from BA-1509 mil-type battery, CR-89/U or CR-78/U crystals

AN/PRC-66B Transceiver, 225-399.95MHz, 3500 channels, AM, 2w, rechargeable nicad or alkaline battery supply, packset, Rockwell Collins

AN/PRC-68 Transceiver, 30-80MHz on 1000 chan, 50kHz

spacing, 1w, 16VDC from BA-1588/U mil-type battery, handheld

AN/PRC-68A Transceiver, 30-80MHz, 10 randomly programable channels, 25kHz spacing, 2w, 16VDC from BA-715/U mil-type Nicad battery, handheld

AN/PRC-70 Transceiver, 2-76MHz, 25,000 chan, 100kHz spacing, FM/AM/CW/SSB, manpack, detent tuning, 30w (below 50 MHz), 20w (above 50 MHz), replaces AN/GRC-109, AN/PRC-74, and AN/PRC-77

AN/PRC-74 Transceiver, Special Forces, 2-12MHz, SSB/CW, 15w (PEP), 10.5-17VDC or 12-31VDC, or 110/220VAC, battery operated from 70 BA-30 or 10 BB-418/U mil-type batteries, or from PP-4514/PRC-74 supply, variants AN/PRC-74B and AN/PRC-74C operate 2-18MHz replaced by AN/PRC-70

AN/PRC-77 Transceiver, Special Forces, 30-76MHz, 920 chan, 50kHz spacing, FM, manpack or vehicular, 1-2w, 24VDC from BA-4386 mil-type battery, major component: RT-841/PRC-77, replaced by the AN/PRC-70, production:

contract	date	manufacturer	quantity	cost
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	1968	RCA/Electrospace Corp.	unknown	
	1973	E-Systems (S. Korea)	unknown	
	1981	Sentinel Electronics	12,194	\$976
	1983	Sentinel Electronics	3,000	
	1984	C&G Associates	2,116	\$870
	1985	Cincinnati Electronics	40,000	
	1986	Iran Communications	unknown	
	1989	Lucas-Hazelton	unknown	
	1990	Napco-Keystone	6,000	
	????	Taidran (Isreal)	unknown	\$1200

AN/PRC-90 Transceiver, aircraft rescue, UHF, 3 channels, AM, 1/2w, 14VDC from 1568/U mil-type battery, comes with 243.0 and 282.8MHz crystals, 2 lbs (including battery), waterproof

AN/PRC-96 Lifeboat radio, 121.5 and 243.0MHz xtal control, voice and emergency beacon, solid state, 2.9V lithium battery (two req'd), 6"x4"x2", 3.5lbs, C-RAN Corp.

AN/PRC-117 Transceiver, 30-90MHz, 2400 chan, 25kHz spacing, eight preset chan, FM, 1-10w, frequency-hopping



mode, 12VDC, 13lbs, manpack, major component:  
RT-1406, PRC-117, Harris Corp

AN/PRC-601 Transceiver, 47-57MHz, 25kHz spacing, xtal control,  
FM, handie-talkie, two mile range, GTE Sylvania

AN/PRC-602 Transceiver, 70-80MHz, features same as AN/PRC-601

AN/PRR-9 Receiver, 47-57MHz, crystal controlled, 2 chan,  
for helmet/pocket/harness use, 6VDC from BA-505/U  
mil-type battery, 11oz w/batt, used with AN/PRT-4

AN/PRR-9(XE-9) Receiver, 47-57MHz, 150Hz tone squelch, crystal  
controlled, 1 chan, for helmet/pocket/harness use,  
3VDC from mil-type battery, 11oz. w/batt, used with  
AN/PRT-4A

AN/PRT-4 Transmitter, 47-57MHz, crystal controlled, 2 chan,  
FM, 1/2w on one channel, 1/4w on other channel,  
15VDC from BA-399/U mil-type battery, equipped with  
51.0MHz crystal, used with AN/PRR-9

AN/PRT-4A Transmitter, 47-57MHz, 150Hz tone squelch, crystal  
controlled, 2 chan, FM, 1/2w on one channel, 1/4w  
on other channel, 15VDC from BA-399/U mil-type  
battery, equipped with 51.0MHz crystal, used with  
AN/PRR-9 or AN/PRR-9A

AN/TRC-24 Radio set, transportable, National Guard/Army  
Reserve, 50-1875MHz, various modes, 10-120w, major  
components: T-302 and R-417

AN/TRC-29 Radio set, transportable, National Guard/Army  
Reserve, microwave, rear-area multichannel  
communications, major components: T-389/TRC-29,  
T-303/G, R-543/TRC-29, and R-418/G

AN/TRC-38 Radio set, transportable, similar to AN/TRC-29, but  
with dual transmitting/receiving components

AN/TRC-39 Radio set, transportable, similar to AN/TRC-29, but  
with triple transmitting/receiving components

AN/TRC-40 Radio set, transportable, variant of AN/TRC-39

AN/TRC-41 Radio set, transportable, variant of AN/TRC-39

AN/TRC-68A Radio set, transportable, 225-400MHz, 1750 chan,  
100kHz spacing, AM, 1.5w, 24VDC or 115/230VAC  
50-60Hz, major component: CA-2649, for airborne

assault support

AN/TRC-80 Radio set, transportable, 4.4-5GHz, 5 voice and one RTTY channel, FM, 120F9, 1kW, 120/280VAC, 3ph, 400Hz, troposcatter propagation, deployed with Pershing missiles

AN/TRC-87 Radio set, transportable/ground, UHF, major component R-1121

AN/TRC-90 Radio set, transportable, National Guard/Army Reserve, microwave terminal, FM, used with AN/PRC-47 sets

AN/TRC-97B Radio set, transportable, National Guard/Army Reserve, 4.4-5GHz, FM, 10,000F9, 1kW, 120/208VAC 400Hz, for line-of-sight, troposcatter, or obstacle gain diffraction propagation

AN/TRC-108 Radio set, transportable, similar to AN/GRC-50

AN/TRC-109 Radio set, transportable, similar to AN/GRC-50

AN/TRC-110 Radio set, transportable, similar to AN/GRC-50

AN/TRC-117 Radio set, transportable, similar to AN/GRC-50

AN/TRC-129 Radio set, transportable, similar to AN/TRC-90

AN/TRC-132 Radio set, transportable, 4.4-5GHz, FM, multiplex operation, 1kW, 208VAC 3ph 60Hz, for troposcatter

AN/TRC-132A Radio set, variant of AN/TRC-132, 10 kW

AN/TRC-138 Radio set, transportable, variant of AN/GRC-144 for repeater usage

AN/TRC-143 Radio set, transportable, similar to AN/GRC-50

AN/TRC-151 Radio set, transportable, variant of AN/GRC-50, but with dual set of major components

AN/TRC-152 Radio set, transportable, variant of AN/GRC-50, but with triple set of major components

AN/TRC-156 Radio set, transportable, 240-315MHz, FM, TACSATCOM-1 ground terminal system, 2 or 20w, 20-28VDC, 120lbs

AN/TRC-157 Radio set, transportable, 240-315MHz, FM,

TACSATCOM-1 ground terminal system, 1-500w, 115/230 VAC 60Hz

AN/TRR-30 Receiver, 7.25-8GHz, FM, TACSATCOM-1 alert monitor, 18-30VDC

AN/TRR-32 Receiver, same capabilities as AN/TRR-30

AN/TSC-61A Ground station, air-traffic control, transportable, major components: AN/ARC-51BX, AN/ARC-73A, AN/ARC-102, and AN/VRC-46 sets

AN/TSC-74 Control center, shelter mounted, ground communications, major components AN/GRC-106 and AN/VRC-46 sets

AN/TSC-79 Radio set, transportable, 7.25-8GHz, FM, TACSATCOM-1 ground terminal, 3w, 20-28VDC.

AN/TSC-80 Radio set, transportable, 7.25-8GHz, FM, TACSATCOM-1 ground terminal, 1.5-500w, 115/230VAC 60Hz

AN/TSC-85 Similar to AN/TSC-80, but 500w

AN/TSC-93 Similar to AN/TSC-85

AN/TSQ-70A Ground station, air traffic control, transportable, major components: AN/ARC-51BX, AN/ARC-73A, AN/ARC-102, RT-524, and RT-511

AN/TSQ-71A Shelter, for dual GCA installations, major components: AN/ARC-51BX, AN/ARC-73A, AN/VRC-46

AN/TSQ-72A Ground station, air traffic control, major components: AN/ARC-51BX, AN/ARC-73A, AN/ARC-102, AN/VRC-46

AN/URC-8(XN-1) Receiver-transmitter set, 2-30MHz, four bands, major components: R-627, T-474 and PP-1190, Collins Radio

AN/URC-10A Transceiver, portable, air/sea rescue, 240-260MHz, two channels, AM, 200mw, 16VDC

AN/URC-11 Transmitter, air/sea rescue, single chan 243.0MHz, AM, odd power requirements, Korean war

AN/URC-68 Transceiver, 38-42 and 230-250MHz, 4 chan, xtal control, FM, 200mw UHF, 500mw VHF, 11-16VDC from BA-1112/U mil-type battery, common frequencies:

38.9, 40.1, 40.5, 41.0, 235.0, 241.0, and 245.5  
mHz.

AN/URC-100 Transceiver, 30-88 and 225-400mHz, AM (UHF)/FM (VHF  
and via SATCOM), scrambled speech, manpack,  
Motorola

AN/URC-101 Variant of AN/URC-100, but 116-150 and 225-400mHz

AN/URC-104 Variant of AN/URC-100

AN/VRC-7 Transceiver, 47-58mHz, FM, cont tuning, 2 presets,  
0.5w, 6 and 90VDC, major component: RT-70/GRC

AN/VRC-12 Radio set, vehicular/fixed use, 30-76mHz, FM, major  
components: RT-246/VRC, RT-524/VRC, R-442/VRC

AN/VRC-24A Radio set, 225-400mHz, AM, vehicular version of  
AN/TRC-68A, major component: OA-2648/VRC-24A

AN/VRC-29 Radio set, National Guard/Army Reserve, similar to  
AN/GRC-46, but for armored personnel carriers,  
major component AN/GRC-19, replaced by AN/VSC-3

AN/VRC-34 Radio set, vehicular version of AN/GRC-87

AN/VRC-42 Radio set, short range, vehicular and fixed use,  
major components RT-246/VRC, RT-524/VRC, R-442/VRC

AN/VRC-43 Variant of AN/VRC-42

AN/VRC-44 Variant of AN/VRC-42

AN/VRC-45 Variant of AN/VRC-42

AN/VRC-46 Variant of AN/VRC-42

AN/VRC-47 Variant of AN/VRC-42

AN/VRC-48 Variant of AN/VRC-42

AN/VRC-53 Radio set, vehicular form of AN/PRC-25 and GRC-125

AN/VRC-64 Radio set, vehicular form of AN/PRC-77

AN/VSC-2 Radio set, HF, RTTY/AM/SSB/CW, major component:  
RT-662, replaced AN/VSC-1, variant of AN/GRC-122  
and AN/GRC-142

AN/VSC-3 Radio set, similar to AN/VSC-2, replaces AN/VRC-29

AN/WRR-3 Receiver, 14-500kHz, 5 bands, AM/CW, 7&9 pin tube, mech digital frequency readout, 117VAC 60/400Hz, 80lbs, major component R-1134/WRR-3

BC-191 Transmitter

BC-223 Transmitter, 2-5.2mHz (plug-in tuning units, 2-3, 3-4.5 and 4.5-5.2mHz), AM/CW, 25w, tubes: 801 osc and amp, 46 mod, designed to load into 15' whip, part of SCR-245

BC-312 Receiver, 1.5-18mHz

BC-314 Receiver, LW

BC-342 Receiver, HF

BC-348 Receiver, 200-500kHz and 1.5-18mHz, six bands, AM/CW, crystal filter, 915 kHz IF, BFO, MVC/AVC, 28v, 3a for DM-28 dynamotor, 10.5"x18"x9.5", 44lbs, variants:

Model	Manufacturer	Tube line-up
E	RCA	41, 6B8, 6C5, 6F7, 6K7 (3)
H	Belmont Radio	6E8G, 6C5, 6F7, 6J7 6K6GT, 6K7 (3)
J	Wells-Gardner	6SR7, 6K6GT, 6SA7, 6SJ7 6SK7WA (4)
K	Belmont Radio	same as H
L	Belmont Radio	same as H
M	Stromberg-Carlson	same as E
N	Wells-Gardner	same as J
O	RCA	same as E
P	RCA	same as E
Q	Wells-Gardner	same as J
R	Belmont Radio	same as H
S	RCA	same as E

(we could use more info on variants)

BC-375 Transmitter

BC-453 Receiver, AN/ARC-5 "Command Set", aka: R-23/ARC-5 and CBY-46129(ATA/ARA), 190-550kHz, IF 85kHz, 6-tubes, VFO, 28VDC

BC-454 Receiver, AN/ARC-5 "Command Set" aka: R-26/ARC-5 and CBY-46105(ATA/ARA), 3.0-6.0mHz, IF 1415kHz, 6-tubes, VFO, 28VDC

BC-455 Receiver, AN/ARC-5 "Command Set", aka: R-27/ARC-5 and CBY-46106(ATA/ARA), 6.0-9.1mHz, IF 2830kHz, 6-tubes, VFO, 28VDC

BC-457 Transmitter, AN/ARC-5 "Command Set", aka: T-19/ARC-5 and CBY-52209(ATA/ARA), 3.0-4.0mHz, 4-tubes, VFO, 28VDC

BC-459 Transmitter, AN/ARC-5 "Command Set", aka: T-22/ARC-5 and CBY-52211(ATA/ARA), 7.0-9.1mHz, 4-tubes, VFO, 28VDC

BC-603 Receiver, 20-28mHz, FM, continuous thumb wheel tuning plus 10 presets, tubes, squelch, built-in speaker

BC-610 Transmitter, 1.5-18mHz, AM/CW, 400w,(Eimac 250TH final), frequency by plug-in tuning units and final coils (up to three at once), FT-171B xtals, part of SCR-299, SCR-399, SCR-499, or GRC-38 AM requires BC-614 (or Hallicrafters HT-5) speech amplifier, 390 lbs (without BC-614), 1939-1955, Hallicrafters (based on HT-4)

BC-778 Transmitter, "Gibson Girl", WWII, rescue, hand cranked, automatic SOS on 500 and 8364kHz, hand keyed on 500kHz, watertight case, built-in key and deployable antenna, 18lbs

BC-946 Receiver, AN/ARC-5 "Command Set", aka: R-24/ARC-5 and CBY-46145(ATA/ARA), 520-1500kHz, IF 239kHz, 6-tubes, VFO, 28VDC

BC-1255 Receiver, 70-150mHz, vacuum tube, 6" cube, R. L. Drake

C-605 Control box, used with RT-173/ARC-33

C-2006A Control box, used with RT-173/ARC-33

C-4074 Control box, used with AN/ARC-73

C-4390 Control box, used with AN/ARC-102

C-7088 Control box, used with AN/ARC-131

C-7197 Control head, for AN/ARC-134

CAY-46076-A Receiver, 0.2-2mHz, requires either CAY-21387-A

dynamotor or CAY-20086 rectifier power supply and CAY-23278 control unit, Westinghouse Electric, part of RBM-5

CAY-46077-A Receiver, 2-20MHz, requires either CAY-21387-A dynamotor or CAY-20086 rectifier power supply and CAY-23278 control unit, Westinghouse Electric, part of RBM-5

CAY-23278 Control box for RBM-5

CRV-46151 Receiver, 1.95-9.05 kHz, 4 Bands, analog turret tuning, triple conversion, octal tubes plus ballast, 26.8lbs, 8"x6.5"x15.5", RCA Contract No. NOS-98559, Feb 23,1942

CU-1424/U Antenna coupler, 8 receiver distribution, 2-32MHz, solid-state, 1.5dB gain, 8dB max noise figure, 72ohm in & out, "C" connectors, rack mount 3.5" high

CU-1638/GR Antenna coupler, 6 receiver distribution amp, 2-30MHz, 3 dB gain, 7 dB max noise figure, 50 ohm in & out, "N" connectors, rack mount 3.5" high, 15 lbs

CV-116/URR FSK converter, receive only, 450-510kHz IF, rack mount 8.75", 80 lbs

CV-431 Frequency converter/transmitter, 228-258MHz, AM, 16 chan, 2w, 28VDC, major component of AN/ARC-60A

CV-591A/URR Converter, USB/LSB, 455kHz IF, 7/9 pin tubes, remote controllable, rack mount 5.25" high, 24lbs, Technical Materiel Corp.

CV-1750 Receiving converter, 235-1000MHz, 60mHz IF out, round dials, nuvistors, 7077s & 7486, rack mount 3.5" high, Communications Electronics Inc.

CV-1758/URR Converter, USB/LSB, 455kHz IF, 7/9 pin tubes, rack mount 5.25" high, 24lbs, Technical Materiel Corp.

CV-1892/TSC-26 SSB converter, USB/LSB, 455kHz IF, nuvistors, audio, carrier & sub-carrier meters, AFC, rack mount 5.25", 29 lbs

CY-1218/GRC Control box, for AN/GRC-38, similar to the JB-70 control box, Hallicrafters

G-133 Receiver, 0.2-30MHz, AM/CW/SSB, tubes, Collins 51S1 converted to military aero by LTV, 117VAC 60/400Hz, and 24VDC (for panel lights), 40 lbs

ID6/APN4 Indicator, LORAN readout, five inch, used with APN-4 LORAN set, APN-4 was the first LORAN set

IF-751 Spectrum display unit, 21.4MHz IF, bandwidth variable to 3MHz, 1" h X 3" w CRT, rack mount 3.5" high, Communication Electronics, Inc. (model SM-9310A)

JB-70 Control box, used with SCR-399

MD-7 AM speech modulator, AN/ARC-5 "Command Set"

ME-165/G Standing wave ratio power meter, internal 50 ohm/600 watt dummy load, 0-600 watt meter, uses twelve 600 ohm non-inductive resistors, 9.8" h X 10.5" w X 9.8" d, 20 lbs, designed for T-368

MXF-327 RF/AF Amplifier, 30-80 MHz, 15W RF, 12-30VDC, used with PRC-68A and -68B handheld in vehicular mount.

OA-2648 Transceiver, 225-400MHz, 1750 chan, 100kHz spacing AM, 1.5w, 24VDC or 115/230VAC 50-60Hz, major component of AN/VRC-24A

OA-2649 Similar to OA-2648, but for AN/TRC-68A set

PE-55 Dynamotor power supply for SCR-245

PP-114/VRC-3 Power supply for SCR-300 (BC-1000) WWII backpack radio, vibrator, for vehicular use

PP-629/URR Power supply for R-391 autotune circuit, 24VDC, 3amps

PP-1190(XN-1)/URC-8 Power supply for T-474/URC-8 and R-627/URC-8, 122lbs, Collins Radio

PP-2684 Power supply for T-784/GRC-109 and R-1004/GRC-109, input 75, 90, 110, 130, 150, 180, 220, 260 VAC and 6 VDC, output 6.3 VAC @ 1.5A, 450 VDC @ 100 mA, 1.5 VDC @ 300 mA, 108 VDC @ 20 mA regulated, 10" X 8.5" X 5.5", 28 pounds, Admiral Corporation, 1962-1969. Part of AN/GRC-109.

PP-2684A as above, except different case and cover fasteners. Oklahoma Aerotronics Inc 1969-1973



PP-2685 Power supply for T-784/GRC-109 and R-1004/GRC-109, Input 75, 90, 110, 130, 150, 180, 220, 260 VAC. Output same as PP-2684. 8.5" X 5.5" X 5.5", 12lbs, Admiral Corp., 1962-1969

PP-2685A as above, except different case and cover fasteners. Oklahoma Aerotronics Inc., 1969-1973

R-23/ARC-5 Receiver, AN/ARC-5 "Command Set", aka: BC-453(SCR-274N) and CBY-46129(ATA/ARA), 190-550kHz, IF 85kHz, 6-tubes, VFO, 28VDC

R-24/ARC-5 Receiver, AN/ARC-5 "Command Set", aka: BC-946(SCR-274N) and CBY-46145(ATA/ARA), 520-1500kHz, IF 239kHz, 6-tubes, VFO, 28VDC

R-25/ARC-5 Receiver, AN/ARC-5 "Command Set", aka: CBY-46104(ATA/ARA), 1.5-3.0MHz, IF 705kHz, 6-tubes, VFO, 28VDC

R-26/ARC-5 Receiver, AN/ARC-5 "Command Set", aka: BC-454(SCR-274N) and CBY-46105(ATA/ARA), 3.0-6.0MHz, IF 1415kHz, 6-tubes, VFO, 28VDC

R-27/ARC-5 Receiver, AN/ARC-5 "Command Set", aka: BC-455(SCR-274N) and CBY-46106(ATA/ARA), 6.0-9.1MHz, IF 2830kHz, 6-tubes, VFO, 28VDC

R-48/TRC-8 Receiver, 230-250MHz, guards 243.0MHz, tubes built-in speaker, squelch, 117VAC, 75lbs

R-77/ARC-3 Receiver, 100-156MHz, 8 chan, xtal control, 6uV sensitivity, remote controllable, part of AN/AFR-3

R-105/ARR-15 Receiver, 1.5-18.5MHz, 6 bands, 10 autotune memory channels or continuous manual tuning, unique tunable IF allows tuning to 1kHz accuracy (ref. to internal 100kHz calibrator), AM/CW, local or remote control, 14 tubes, 12A6, 12H6, 12SL7 (2), 12SG7 (5), 12SJ7 (5) plus crystal detector, 7.9"h x 10.4"w x 21.6"d, 39.5lbs with dynamotor, 26.5VDC, used with AN/ART-13 transmitter

with R-105A/ARR-15 Receiver, 1.5-18MHz, similiar to R-105 but improved detector, calibrator and audio output stages, 14 tubes, 12A6, 12H6, 12SL7 (3), 12SG7 (5), 12SJ7 (4), (crystal detector replaced by 1/2

12SL7), used with AN/ART-13 transmitter, (postwar: became Collins 51H-3, list price \$1200), production:

contract	date	manufacturer	quantity
NOas-51-259	1951	Collins Radio	unknown
NOas-53-983	1953	Collins Radio	unknown

R-108/GRC Receiver, 20-28mHz, FM, tubes, 135VDC and 6VDC, 32lbs, part of AN/GRC-8 set.

R-109/GRC Receiver, 27-39mHz, otherwise same as R-108

R-110/GRC Receiver, 38-54mHz, otherwise same as R-108

R-125/GRC-10 Receiver, 54-80mHz, FM

R-174/GRC-5 Receiver, 1.5-18.0mHz, 4 bands, AM/SSB/CW, 8 tubes, no speaker, 8 and 600 ohm output, 90 and 1.5VDC, 23lbs

R-220/URR Receiver, 20-230mHz, seven bands, AM/FM/CW, bandwidths: 10/50/200kHz, 5mHz xtal calibrator, uses wire-lead sub-mini and 7&9 pin mini tubes, 95ohm twinax ant input, outputs for panadapter and RDF, rack mount 10.5" high, 80lbs, 115VAC, 60Hz, Motorola corp., see also R-1538/GLQ-3

R-274A/FRR Receiver, 0.54-54mHz, six bands, AM/CW, two versions: Hammurlund SP-600JX or Hallicrafters SX-73, rack mount 10.5" high

R-274C/FRR Receiver, 0.54-54mHz, same as R-274A/URR except: provisions for fixed frequency xtal control operation

R-278A/G Receiver, 225-400mHz, 100kHz, autotune, 44 tubes, requires external speaker or headphones, 12"h X 19"w X 21"d, 115 lbs, Collins Radio, used in AN/GRD-6 radio direction finder

R-278A/GR Receiver, 225-400mHz, same as R-278A/G except: rack mount, cannot be used with AN/GRD-6

R-388/URR Receiver, 0.5-30.5 mHz, 30 bands, linear analog tuning, 5-step crystal filter, S-meter, AM/CW, 117VAC 60Hz, militarized version of Collins Radio 51J-3, production:

contract	year	manufacturer	quantity
1908-PHILA-51	1951	Collins Radio	unknown
3131-PHILA-51	1951	Collins Radio	unknown
3164-PH-51	1951	Collins Radio	unknown
25635-PHILA-53-36	1953	Collins Radio	unknown

R-388A/URR Receiver, 0.5-30.5mHz, similar to R-388/URR mechanical filters, militarized version of Collins 51J-4

R-389 Receiver, 15-1500kHz, 2 ranges, 7 bands, mechanical digital dial, PTO, AM/CW, bandwidths: 0.1/1/2/4/8kHz, (0.1&1 xtal), 7&9 pin tubes, autotune, dual audio chains, squelch, rack mount 10.5" high, 82 lbs, production:

contract	year	manufacturer	quantity
14214-PH-51	1951	Collins Radio	unknown

R-390 Receiver, 0.5-32mHz, thirty-two 1mHz bands, mechanical digital dial, PTO, AM/CW, bandwidths: 0.1/1/2/4/8/16kHz (0.1&1 xtal, no mech filters), 7&9 pin and 2-6082 tubes(hv reg), dual audio chains, squelch, two RF stages, 125 ohm balanced antenna in w/twinax and unbalanced w/"C" connectors, rack mount 10.5" high, 90lbs, production:

contract	year	manufacturer	quantity
14214-PH-51	1951	Collins Radio	unknown
26579-PH-52	1952	Motorola	unknown

R-390A Receiver, 0.5-32mHz, thirty-two 1mHz bands, mechanical digital dial, PTO, AM/CW, bandwidths: 0.1/1/2/4/8/16 kHz (0.1&1 xtal, others mech), 7&9 pin tubes, dual audio chains, single RF stage, 125 ohm balanced ant input w/twinax or unbalanced w/"C" connector, rack mount 10.5" high, 85lbs, production:

contract	year	manufacturer	quantity
14214-PH-51	1955	Collins Radio	300-400
63-PH-54	1955	Motorola	10,000
375-PH-54	1955	Collins Radio	10,000
08719-PH-55	1956	Collins Radio	10,000
14-PH-56	1956	Motorola	10,000

14385-PH-58	1958	Motorola	10,000
42428-PC-58	1959	Stewart-Warner	10,000
20139-PC-60-A1-51	1960	Stewart-Warner	10,000
23137-PC-60	1960	Electronic Asst. Corp.	10,000
21852-PC-61	1961	Capehart Corp.	10,000
35064-PC-62	1962	Amelco	10,000
37856-PC-63	1963	Teledyne/Imperial	10,000
DA-36-039-SC-81547	1963	Stewart-Warner	10,000
FR-11-022-C-4-26418(E)	1966	Comm. Systems	10,000
FR-36-039-N-6-00189(E) or DAAB05-67-C-0155	1967	Electronic Asst. Corp.	10,000
DAAB05-68-C-0040	1968	Dittmore-Freimuth	unknown

(for more information see "Electric Radio" #24 & #27)

R-391 Receiver, identical to R-390 except w/8 channel autotune mechanical memory (requires external 24VDC 3amp supply, PP-629/URR), 87.2lbs, production:

contract	year	manufacturer	quantity
21852-PH-50-93	1950	Collins	unknown
14214-PH-51	1951	Collins	unknown
11424-PH-51	1951	Collins	unknown

R-392 Receiver, 0.5-32mHz, thirty-two 1mHz bands, mechanical digital dial, PTO, AM/CW, bandwidths: 2/4/8kHz, 7&9 pin & octal tubes including 26A6, 26A7, 26C6 & 26D6, ruggedized watertight vehicular case: 11.5"h X 14.5"w X 11"d, 58lbs, 28VDC 5amps, production:

contract	date	manufacturer	quantity
3075-PH-51	1951	Collins Radio	unknown
11653-PH-52	1952	Collins (subcontracts to Stewart-Warner and Stromberg-Carlson)	unknown
52713-PP-61	1961	Dubrow Electronic Ind.	unknown
15283-PP-63	1963	Western Electric	unknown

R-417 Receiver, 50-1875mHz, 6 bands, RTTY/FAX and other specialized emissions, part of the AN/TRC-24 set, 115VAC 60Hz

R-418/G Receiver, 1.7-2.4GHz, pulse-position modulated accessory equipment, AN/TRC-29 set, 115VAC 60Hz

R-442/VRC Receiver, 30-76mHz, 920 chan, part of AN/VRC-12, AN/VRC-44, AN/VRC-47, and AN/VRC-48 sets, 24 VDC

R-508 Receiver, 228-258mHz, AN/ARC-60A set, 28VDC

R-543/TRC-29 "Order wire receiver", 1.7-2.4gHz, part of AN/TRC-29 set, 115VAC 60Hz

R-627/URC-8 Receiver, 2-30mHz, four bands, AM/CW, tubes, PTO or xtal control, bandwidths: 2/8.4kHz (mech filters), requires PP-1190 power supply, rack mount 10.5" high, 91lbs, manual: Navships 92831, used with T-474/URC-8, Collins Radio

R-648/ARR-41 Receiver, 190-550kHz and 2-25mHz, AM/CW, tubes, mech digital frequency readout, mech filters, BFO, dial lock, 24VDC dynamotor, 35lbs

R-808/GRC-14 Receiver, 2-32mHz, AM/CW/FSK narrow/wide, built-in RTTY converter, 117VAC or 24VDC, 130lbs

R-892/URC-44 Receiver, 0.54-19mHz, AM, tubes, 117VAC 60Hz, 70lbs

R-902A/L Receiver, 1.5-8mHz, AM/CW, remote-control by 45-bit serial data stream, requires 5 A5, and 36 VDC, (difficult to convert to civilian use)

R-1004/GRC-109 Receiver, 3-22 MHz, three bands, mechanical analog dial, AM/CW, 6 tubes (1T4, 1U5, 1L6), single conversion, 455kHz IF, 8.5" X 5.5" X 5.5", 11lbs, Admiral Corp., 1.4VDC@300mA, 108VDC@30mA, 1962-1969, part of AN/GRC-109

R-1004A/GRC-109 as above, except different case and cover fasteners. Oklahoma Aerotronics Inc., 1969-1973

R-1051 Receiver, 2-30mHz, direct dial frequency synthesis, 0.5kHz increments, USB/LSB/ISB/AM/FSK, bandwidths: 3.1/6kHz (tied to mode), solid-state except for two rf tubes, 7"h X 17.4"w X 18.9"d, 84 lbs

R-1051B As above except tunes to 0.1kHz increments

R-1121/TRC-87 Receiver, 225-400mHz, 50kHz spacing, AM, 120/208VAC 400Hz 3ph, allegedly operable on 117VAC 60Hz, Motorola

R-1123/ARC-73 Receiver, 116-152mHz, 720 chan, AM, 28VDC, part of AN/ARC-73 set, used w/C-4074 control head

R-1134/WRR-3() Receiver, 14-600kHz, AM/CW, mech digital freq readout, tubes, 117VAC 60/400Hz, 80 lbs, Bendix Radio, no data on A or B variants

R-1287/GRC-143 Receiver, 4.4-5gHz, multichannel PCM equip: 3200F9, 115V 230VAC 47-63Hz

R-1307/URR Receiver/freq. selective voltmeter, 0.3-800kHz, six bands, analog dial, AM/FM/USB/LSB/CW, bandwidths: 1/2/4/8kHz, 7&9 pin/nuvistor tubes, rack mount 9"h, 25 lbs, Rycom (Railway Communications)

R-1329 Receiver, 220-1850mHz, 4 bands, 500F9, 115VAC 47-420Hz

R-1331 Receiver, 601-1000mHz and 1350-1850mHz, cont tuning, FM/1200F9, 115VAC 47-63Hz

R-1401 Receiver, 1-600kHz, 6 digit electronic counter w/DAFC, AM/CW/USB/LSB/MCW/FSK, bandwidths: 0.15/1/3/6kHz, solid-state w/nixies in counter, ant attn, noise blanker, s-meter, rack mount 3.5"h, 34 lbs, Communications Electronics Inc. (model 357)

R-1420/URR Receiver, 30-300mHz, two bands/tuners, analog filmstrip dial, bandwidths: 20/300kHz, nuvistors and solid-state, rack mount 3.5"h, Communications Electronics, Inc. (model 905A)

R-1467 Receiver, 4.4-5gHz, 3000F9, 120VAC 60Hz

R-1490A/G Variant of R-1401, specs unknown

R-1538/GLQ-3 Receiver, 20-230mHz, same as R-220/URR except: 115VAC, 400Hz modular internal supply

R-2093/TRQ-35V Spectrum monitor, 2-30mHz, 3kHz steps, AM/SSB/FM, mil. version of BR Communications Model RSS-4 HF, 25 kHz bandwidth, 30 minutes activity memory

R-2174/URR Receiver/freq. selective voltmeter, 0.3-420kHz, six bands, analog dial, AM/USB/LSB, bandwidths: 0.1/3/10 kHz, 7&9 pin tubes, rack mount 9" high, 25 lbs, Rycom (Railway Communications)

R-2174/URR Receiver, Racal RA-6790/GM need more info

RBM-5 Receiver system, consists of 2 receivers CAY-46076-A (0.2-2mHz) and CAY-46077-A (2-20mHz), either CAY-21387-A dynamotor or CAY-20086 rectifier power supply and CAY-23278 control unit, AM/CW/MCW, Westinghouse Electric, contract no. NXsr-38081, companion transmitter: TDE (ground version of TBW)

and GO-9)

RC-3A/GSQ-151 Receiver, seismic detection, 126.6 mHz fixed, 9 VDC

RP-1 Power supply for RT-3 and RR-2. Input 75, 90, 110, 130, 150, 180, 220, 260VAC and 6VDC, output 6.3VAC@1.5A, 450VDC@100mA, 1.5VDC@300mA, 108VDC@20mA regulated, 10" X 8.5" X 5.5", 28lbs, Admiral Corp., built for CIA, 1950-1962, part of RS-1

RP-2 Power supply for RT-3 and RR-2. Input 75, 90, 110, 130, 150, 180, 220, 260VAC. Output same as RP-1. 8.5" X 5.5" X 5.5", 12 lbs, Admiral Corp., built for CIA, 1950-1962, part of RS-1

RR-2 Receiver, 3-22mHz, three bands, mechanical analog dial, AM/CW, 6 tubes (1T4, 1U5, 1L6), single conversion, 455kHz IF, 8.5" X 5.5" X 5.5", 11lbs, Admiral Corp., 1.4VDC @ 300mA, 108VDC @ 30mA, built for CIA, 1950-1962, part of RS-1

RS-1 Radio Set, 3-22MHz, consists of: RT-3 transmitter, RR-2 receiver, RP-2 AC power supply, RP-1 AC/DC power supply, built for CIA, also see AN/GRC-109 and individual entries

RT-3 Transmitter, 3-22MHz, three bands, crystal control (FT-243), CW, 6AC7 oscillator, 2E26 final amp, built-in key, 8.5" X 5.5" X 5.5", 12lbs, Admiral Corp., 6.3V AC/DC@1.5A, 450VDC@100mA, 1962-1969 part of RS-1

RT-60 Transceiver, air/sea rescue, 240-260 and 270-290mHz (normally set for 243.0 and 282.8mHz), AM

RT-66 Transceiver, 20-28mHz, cont tuning or presets, FM, 27 tubes, 12 or 24VDC from PP-109, PP-112, or PP-282 power supplies, 42 lbs

RT-67 Transceiver, similar to RT-66, 27-39mHz

RT-67/PRC-47 Transceiver, 2-12mHz, 1kHz steps, digital tuning, SSB/CW, 20 and 100w (PEP), major component of AN/PRC-47 set, 24 or 26.5VDC or 115VAC 400Hz

RT-68 Transceiver, similar to RT-66, 38-55mHz

RT-70/GRC Transceiver, 47-58mHz, cont tuning or two presets, FM, 1/2w, 90 and 6VDC, major component of AN/VRC-7

set, Korean war

RT-77/GRC-9 Transceiver, 2-12MHz, cont tuning, AM/CW, 15w CW, 7w AM, 6, 12 or 24VDC, part of AN/GRC-87 and AN/GRC-34 sets

RT-159B/URC-4 Transceiver, 121.5/243.0 MHz, xtal control, AM/MCW, portable, mini tubes, separate battery pack, extendable "rabbit ears" like antenna, Philharmonic Radio and Telephone Corp. contract no. AF-33(600)-21243

RT-173/ARC-33 Transceiver, 225-399.9MHz, 100kHz chan spacing, 20 presets, AM, 8W, used w/C-605 or C-2006A control box, 28VDC w/dynamotor DY-63, Bendix Radio

RT-174/PRC-8 Transceiver, major component of AN/PRC-8

RT-175/PRC-9 Transceiver, major component of AN/PRC-9

RT-176/PRC-10 Transceiver, major component of AN/PRC-10.

RT-196/PRC-6 Transceiver, 47-55.4MHz, crystal control (CR-23), hand-held, 13 tubes, 1.5A45, and 90VDC, 6lbs, replaced by AN/PRR-9 and AN/PRT-4 combo set, Korean war

RT-246/VRC Transceiver, 30-76MHz, 10 autotune presets, FM, 10-35w, major part of AN/VRC-12, 56lbs

RT-294B Transceiver, 24-52MHz, 280 chan, 1kHz spacing, FM, 8w, major component of AN/ARC-44, uses SB-327/ARC-44 control head, 28VDC

RT-295 Transceiver, 225-400MHz, 1750 chan, AM, 1w, part of AN/ARC-45, requires 28, 150 and 300VDC

RT-311/ARC-38 Transceiver, 2-25MHz, 20 autotune presets, AM, 100w (above 14 MHz), 90w (below 14 MHz), similar to Collins 618-S1, 25 tubes, requires 28, 250, 600, -50, -65 and 6VDC, and 117VAC 400Hz, no SSB (see RT-594 for SSB), 65lbs

RT-348/ARC-54 Transceiver, 30-40MHz, 50kHz spacing, FM, 10w, major component of ARC-54, 28VDC

RT-380/AR Transceiver, 2-18MHz, AM/CW, similar to Collins 18S4, 100w, 10 chan, 16 tubes, 600 ohm audio, requires 400, 750 and 28VDC, Collins



RT-505/PRC-25 Transceiver, 30-76MHz, 920 chan, 50kHz spacing, FM, 1-2w, solid-state except 2DF4 final, 20VDC from mil-type BA-4386 battery, 18lbs

RT-524/VRC Transceiver, manual tuning version of RT-246/VRC, built-in speaker, part of AN/VRC-12 and AN/TSQ-70A sets, and in modified form of AN/GRC-163 sets

RT-594/ARC-38A Transceiver, like the RT-311/ARC-38, but w/SSB

RT-662/GRC Transceiver, 2-30MHz, 1kHz chan spacing, SSB/CW, 200w CW, 400w (PEP) SSB, 27VDC, major component of AN/GRC-106, AN/GRC-122, AN/GRC-144, AN/VSC-2, and AN/VSC-3 sets, 27VDC, 47lbs

RT-671 Transceiver, 2-11.999MHz, 20/100w PEP, USB, digital 1kHz steps, solid-state except: 5907, 7761, 7905 & PL-177WA final, 7" h X 21.25" w X 13.5" d, 45 lbs, Collins Radio, 24VDC 20amps or 115VAC 400Hz

RT-695 Transceiver, 225-400MHz, crystal control, AM, 3w, 24VDC, major component in AN/PRC-41

RT-695A Transceiver, variant of RT-695, allows for speech scrambling, major component of AN/PRC-41A

RT-698/ARC-94 Transceiver, 2-29.999 MHz, 28,000 1kHz chan, USB/LSB/ISB/AM/CW, 100w AM/CW, 400w PEP SSB, transistorized except for RF and finals, used w/714E-2 or control box, 208VAC 400Hz, (mil version of 618T).

RT-698/ARC-102 Transceiver, 2-29.999MHz, 1kHz channels, AM/CW/SSB, 100w AM/CW, 400w (PEP) SSB, used with C-3490 control head, 28VDC, 64lbs

RT-698/ARC-119 Transceiver, same as RT-698/ARC-94 except 27.5VDC and used with 714E-2A control box

RT-698/ARC-120 Transceiver, same as RT-698/ARC-94 except 115VAC 400Hz and used with 713E-3 control box

RT-702/ARC-51X Transceiver, 225-399.9MHz, 1750 chan, 100kHz spacing, AM, 16w, 28VDC inverted to 115VAC 400Hz, guards 243.0mHz

RT-718 Transceiver, 3.4-5 and 6.5-30MHz, cont tuning, SSB/CW, 100w (PEP), 110/220VAC 50-400Hz or 12VDC (using MP-1 power supply), part of AN/FRC-93 set, Collins Radio

RT-742/ARC-51BX Transceiver, similar to RT-702/ARC-51X, but 50kHz chan spacing

RT-759/ARC-112 Transceiver, 2-29.999 MHz, 28,000 1kHz chan, USB/LSB/ISB/AM/CW, transistorized except for RF and finals, pressurized case, Collins Radio (modified version of 618T)

RT-823 Transceiver, 30-76MHz, 920 chan, FM, 1 and 10 w, part of AN/ARC-131 set, used w/C-7088/ARC-131 control head, 28VDC, 27lbs (+3 lbs with C-7088)

RT-834/GRC Transceiver, version of RT-662/GRC, but 100Hz spacing

RT-841/PRC-77 Transceiver, 30-76MHz, 920 chan, 50kHz spacing, FM 1-2w, 24VDC from mil-type BA-4386 battery, similar to RT-505/PRC-25, but solid-state, part of AN/PRC-77, AN/VRC-64, and AN/GRC-160 sets

RT-857/ARC-134 Transceiver, 116-150MHz, 1360 chan, 25kHz spacing, AM, 25-40w, 28VDC, used with C-7197 control head, 20 lbs, RT-857/ARC-134B variant has 50 kHz spacing, made by Wilcox

RT-1167/ARC-164 Transceiver, 225-400MHz, 25kHz chan spacing, CW or scrambled/unscrambled AM, 1-10w, 18, 24 or 28VDC

RT-1393/USQ Transceiver, advanced all purpose, HF, 284,000 chan, 100 field programmable memory channels, simplex duplex or semi-duplex operation, AM/SSB/ISB, LED freq readout

RT-1406/PRC-117 Transceiver, 30-90MHz, 2400 chan, 25kHz spacing, 8 presets, FM, 1 or 10w (0.1w model avail), 12VDC, automatic frequency hopping capability

SCR-245 Radio set, major components: BC-223, BC-312, PE-55, 1.5-18MHz rx, 2-5.2MHz tx, 12/24VDC, short-range vehicular use

SCR-274N Signal Corps designation for AN/ARC-5 "Command Set".

SCR-299 Radio set, major components: BC-610, (2) BC-312

SCR-399 Radio set, major components: BC-610, (2) BC-314

SCR-499 Radio set, major components: BC-610, (2) BC-318

T-19/ARC-5 Transmitter, AN/ARC-5 "Command Set", aka:  
BC-457(SCR-274N) and CBY-52209(ATA/ARA),  
3.0-4.0MHz, 4 tubes, VFO, 28VDC

T-22/ARC-5 Transmitter, AN/ARC-5 "Command Set", aka:  
BC-459(SCR-274N) and CBY-52211(ATA/ARA),  
7.0-9.01MHz, 4 tubes, VFO, 28VDC

T-47/ART-13 Transmitter, 2-18MHz, AM/CW/MCW, 100w, 11 chan  
autotune mechanical memory, uses C-87 control box,  
tube line-up: 6V6, 12SA7, (2) 12SJ7, (2) 12SL7, (2)  
811, 813, 837, and (2) 1625, requires 24VDC 10A,  
400VDC 225ma. and 1250VDC 250ma, dynamotor  
DY-12/17, 23.5" x 16" x 11", 85 lbs, part of  
AN/ART-13, used with AN/ARR-15() receiver

T-74/CRT-3 Transmitter, "Gibson Girl", see BC-778

T-195/GRC-19 Transmitter, 1.5-20MHz, 80-100w plate mod AM/CW,  
4 bands, PTO, autotune, antenna coupler, 4X150D  
final, 2-4X150D mod, 11.5h X 22w X 14.25d, 135 lbs,  
28VDC 42amps, Collins Radio

T-235/GRC-10 Transmitter, 54-71MHz, coat tuning, 10 and 40w,  
60F9 and 80F9, part of AN/GRC-10, AN/GRC-39,  
AN/GRC-40, AN/MRC-68A, and AN/MRC-112, 26VDC or  
115/230VAC 60Hz

T-302 Transmitter, 50-1875MHz, various emissions, 10 to  
120w, part of AN/TRC-24, AN/MRC-54, AN/MRC-69 and  
AN/MRC-73, 115VAC 60Hz

T-303/G Transmitter, 1.7-2.4GHz, 4500F9, 10w, part of  
AN/TRC-29, AN/TRC-38, AN/TRC-39, AN/TRC-40, and  
AN/TRC-41, 115VAC 60Hz

T-368/URT Transmitter, 1.5-20MHz, 450w CW, 400w plate mod AM,  
4 bands, PTO, 4-400 final, 4-125 mod, 41.5"h X  
32"w X 31"d, 650 lbs, 115VAC single-phase 2200w  
(AM)

T-389/TRC-29 "Order Wire" Transmitter, part of AN/TRC-38,  
AN/TRC-39, AN/TRC-40, AN/TRC-41, and AN/TRC-29,  
115VAC 60Hz

T-474/URC-8 Transmitter, 2-30MHz, four bands, PTO or 4 xtal  
channels (CR-18/U), AM/CW, 42w, requires PP-1190  
power supply, rack mount 10.5" high, 86lbs, manual:  
Navships 92831, used with R-627/URC-8, Collins  
Radio

T-631/GRC-14 Transmitter, 2-20MHz, 400 watts, 117VAC 60Hz

T-784/GRC-109 Transmitter, 3-22MHz, three bands, crystal control (FT-243), CW, 6AC7 oscillator, 2E26 final amp, built-in key, high-speed keyer port for AN/GRA-71, 8.5" X 5.5" X 5.5", 12 lbs, Admiral Corp., 6.3 VAC or VDC @ 1.5A, 450 VDC @ 100mA, 1962-1969. Part of AN/GRC-109

T-784A/GRC-109 as above, except different case and cover fasteners, Oklahoma Aerotronics Inc, 1969-1973. Part of AN/GRC-109

T-789/ARC-73 Transmitter, 116-150MHz, 680 chan, 80 presets, AM, 20w, requires C-4074/ARC-73A control head, 28VDC

T-893 Transmitter, 601-1000MHz and 1350-1850MHz, 1200F9, 8-30w, used with various sets, 115VAC 60Hz

T-961/GRC-143 Transmitter, 4.4-5GHz, 3200F9, 1kW, used with AN/GRC-143, AN/TRC-112, and AN/TRC-121, 115/230VAC 60Hz

T-983 Transmitter, 220-1850MHz, 500F9, 15-25w, used with several sets, 115VAC 47-420Hz

T-1054/GRC-144 Transmitter, 4.4-5GHz, 3000F9, 0.25w, part of AN/GRC-144 and AN/TRC-138, 120VAC 60Hz

URR-52B Receiver, 30-1000MHz, analog dials, four bands/tuners, AM/FM/CW bandwidths: 20/75/300kHz, built-in SDU, nuvistors and solid-state, rack mount 5.25"h, Communications Electronics, Inc. (model RS-111)

714E-2 Control box, used with RT-698/ARC-94

714E-2A Control box, used with RT-698/ARC-119

713E-3 Control box, used with RT-698/ARC-120

#### APPENDIX A:

#### The Joint Electronics Type Designation

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e.g. AN/FRR-59A

AN - Army-Navy

/  
 F - installation  
 R - type of equipment  
 R - purpose  
 -  
 59 - model number  
 A - modification letter

installation	l	type of equipment
-----	l	-----
A - airborne	l	A - invisible light, heat
B - underwater	l	radiation
C - air transportable	l	B - pigeon
D - pilotless carrier	l	C - carrier
F - fixed	l	D - radiac
G - ground, general	l	E - nupac
K - amphibious	l	F - photographic
M - ground, mobile	l	G - telegraph or
P - pack, portable	l	teletypewriter
S - water surface craft, ship	l	I - interphone and PA
T - ground, transportable	l	J - electromechanical
U - general, utility	l	K - telemetering
V - ground, vehicular	l	L - countermeasures
W - water, surface	l	M - meteorological
and underwater	l	N - sound in air
-----	l	P - radar
purpose	l	Q - sonar
-----	l	R - radio
A - auxiliary assemblies	l	S - special types
B - bombing	l	T - telephone (wire)
C - communications	l	V - visual
D - direction finding	l	-----
E - ejection release		
G - fire control		
H - recording		
L - searchlight control		
M - maintenance and test assemblies		
N - navigation aids		
P - reproducing		
Q - special or combination of purposes		
R - receiving		
S - detecting range bearing		
T - transmitting		
W - control		

Thus an AN/FRR-59A is: Fixed Radio Receiver, model no. 59

The JETDS Nomenclature System replaced the older service specific systems. The list could use more information on these older systems. All I have so far is:

Pre-JETDS Army Designations:

SCR - Signal Corps Radio

BC - Basic Components

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APPENDIX B:

Contract Numbers:  
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A note on contract numbers: The office where the contract was issued and the date of issuance is embedded in the contract number.

Thus contract 14214-PH-51 (an important Collins contract) was issued in Philadelphia in 1951. Equipment was often manufactured the same year (14214-PH-51 is a notable exception. See "Electric Radio", #27 for further information).

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