

STATUS: Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army

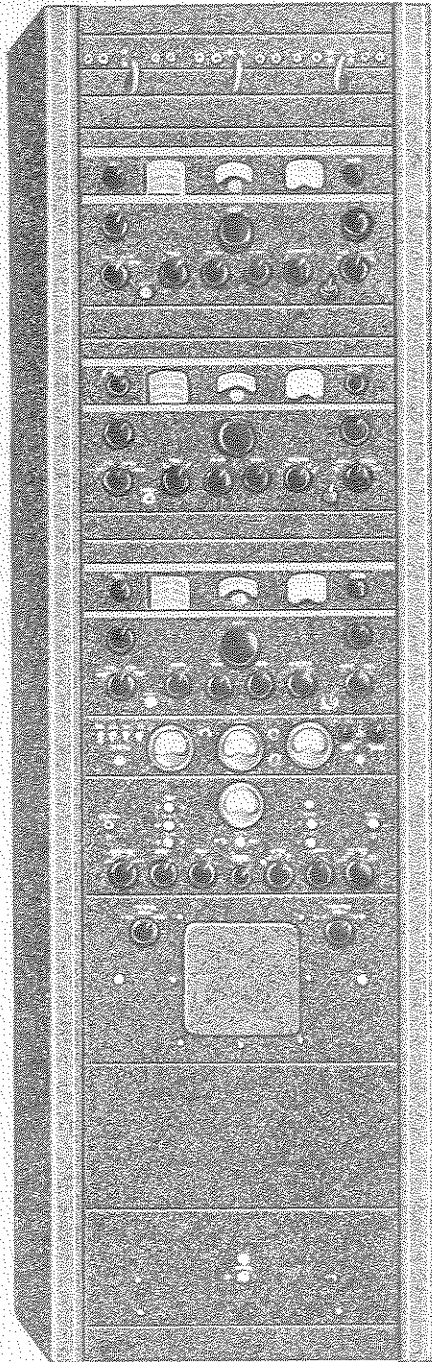
DATE OF THIS SHEET: 15 Feb 52

AN/FRR-TYPE

AN/COMP TYPE NUMBER:

OA-58/FRC

RADIO RECEIVER ASSEMBLY



OA-58/FRC

Radio Receiver Assembly OA-58/FRC is a long-range, medium-and high-frequency, triple-diversity, a-m (voice, cw, and mcw) fixed-station radio receiving equipment, designed to minimize the effects of fading.

This equipment consists of three superheterodyne radio receivers, each with an individual power supply, a tone keyer, a monitoring unit, loudspeaker, and accessories assembled to a standard relay rack, and inclosed in a steel floor-type cabinet.

Each of the receivers can be operated separately from its own doublet or rhombic antenna. The monitoring unit is common to all receivers and operates on its own power supply unit. The loudspeaker can be switched to any one, or all, of the radio receiver outputs.

Operates on 108-126-150 or 230-v ac.

AN/FRR-TYPE		INSTRUCTION LITERATURE: TM 11-889A
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
3	Radio Receiver (RCA Model AR-98F)	10-1/2 x 19 x 19 (each)	235.50
1	Cabinet	94 x 21 x 22	275.0
1	Monitoring Unit	3-1/2 x 7-1/2 x 19	10.50
1	Tone Keyer Unit	7 x 11 x 19	26.50
1	Monitoring Unit Power Supply	7 x 7 x 19	17.50
1	Loudspeaker Assembly	10-1/2 x 4-1/2 x 19	26.50

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Fixed plant.

INSTALLATION: Fixed ground station.

APPROXIMATE RANGE (IN MILES): Long.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -21, -25; AN/ART-13; AN/CRT-3; AN/FRC-10; AN/FRT-5, -6, -15, -17, -18, -19; AN/GRC-9, -13, -26; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7, -19, -20; AN/SRT-4; AN/TRQ-1; AN/URT-2, -3, -4, -10; AN/VRC-1, -4; AN/VRT-1; BC-191, -339, -365, -401, -447, -610; MBS; MQ; OA-60A/FRT, -60B/FRT; RC-52; SCR-177, -198, -193, -274, -291, -399, -499, -506, -536, -543, -585, -694; T-4/FRC, -5/FRC, -83/SR, -159/FRT, -159/FRT, -171/FR, -172/FR, -173/FR, -174/FR, -175/FR, -177/FR, -180/FR; TAB; TAJ; TAQ; TBA; TBC; TBK; TBL; TBM; TBN; TBO; TBU; TBW; TBX; TBY; TCB; TCC; TCE; TCH; TCK; TCP; TCS; TCZ; TDD; TDE; TDF; TDH; TDN; TDO; TEB; TEC; TEF; Collins 18S-4 (AF Model); Collins 32V-2; Fisher TS 25-3; Marconi TH-41-B; Westinghouse Type MW; Wilcox 96D, 99A.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 0.54 - 32.0 in 6 bands.

Band 1: 0.54 - 1.6

Band 4: 11.9 - 16.6

Band 2: 1.57 - 4.55

Band 5: 16.1 - 22.7

Band 3: 4.45 - 12.15

Band 6: 22.0 - 32.0

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, voice, and mcw.

POWER OUTPUT: 12 mw, 2.5 w with receiver amplifier.

POWER REQUIREMENTS: 450 w, 108-126-150, or 230 v, 50/60 cyc, ac.

PHYSICAL CHARACTERISTICS

Radio Receiver Assembly OA-58/FRC measures 22 x 84 x 21 inches, net weight 650 pounds.
 Packed for domestic shipment: total weight 1,122 pounds, total volume 78.74 cu ft,
 2 ship tons.