

STATUS: Standard	AN/FRR- TYPE AN/COMP TYPE NUMBER: R-320/FRC RADIO RECEIVER
CLASSIFICATION OF EQUIPMENT: Unclassified	
USING SERVICE: Army	
DATE OF THIS SHEET: 30 Jan 52	



Radio Receiver R-320/FRC is an a-m (voice, cw, and mcw) receiving equipment used for general communications such as point-to-point, ground-to-air, and ship-to-shore applications or for diversity reception.

Two types of receivers have been procured under this nomenclature designation. R-320/FRC (illustrated above) is a commercial (RCA Model AR-88-F) receiver having avc, i-f gain, and a diode output circuit. It operates in the frequency range 0.535 to 0.32 mc (in 6 bands) and requires 115/230 v ac. It is used in Radio Receiver Assembly OA-56A/FRC, which uses three such receivers for triple diversity reception.

R-320A/FRC is a commercial (Hammarlund SP-600-J-4) receiver having avc, i-f gain, a diode output circuit, a crystal filter, and a beat-frequency oscillator. It operates in the frequency range 0.54 to 54.0 mc, (in 6 bands) and can be adjusted for operation from 95 to 260 v ac (by seven transformer taps).

AN/FRR-TYPE		INSTRUCTION LITERATURE: TM 11-899
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
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(Equipment consists of one major operating component.)

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Electronic warfare detachments.

INSTALLATION: Ground, fixed 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, -188, -193, -274, -281, -399, -499, -506, -536, -543, -585, -694; T-4/FRC, -5/FRC, -83/SR, -158/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: 0.535 - 32.0, in 6 overlapping bands.

Band 1: 0.535 - 1.60.	Band 4: 11.9 - 16.6.
Band 2: 1.570 - 4.55.	Band 5: 16.1 - 22.7.
Band 3: 4.450 - 12.15	Band 6: 22.0 - 32.0.

TYPE OF SIGNAL: Cw, mcw, voice.

POWER OUTPUT: 2.5 w, maximum undistorted.

POWER REQUIREMENTS: 115/230 v, 50/60 cyc ac.

PHYSICAL CHARACTERISTICS

Radio Receiver R-320/FRC weighs 98 pounds net, volume 2.37 cu ft. Packed for export shipment: total weight 200 pounds, total volume 8.93 cu ft. Shipped in 2 packages.