

STATUS: Commercial	AN/FRR-TYPE
CLASSIFICATION OF EQUIPMENT: Unclassified	
USING SERVICE: Air Force	
DATE OF THIS SHEET: 28 Apr 52	
COMMERCIAL TYPE NUMBER:	COLLINS 75A-2
	RADIO RECEIVER



Radio Receiver Collins 75A-2 is a double conversion, superheterodyne equipment designed for coverage of only the amateur bands in the frequency range of 1.5 to 30.0 mc. It is normally used for fixed ground, point-to-point communication in the Military Amateur Radio Systems (MARS) and has provisions for f-m reception by inserting NBFM adaptor 148C-1, and for check point calibration by inserting Crystal Calibrator Unit BR-1.

The input circuit operates from coaxial transmission lines, (such as RG-8/U (52 ohms) and RG-11/U (73 ohms)).

It has an automatic noise limiter for a-m reception, and a manually operated shunt-type noise limiter for cw.

Visual tuning accuracy to within 1 kc for the amateur bands 1.5 to 21.8 mc; and 2 kc for the 10 and 11 meter amateur bands (26 to 30 mc) is provided.

Provision has been made to connect a blocking voltage to mute the receiver audio when the key of an associated transmitter is closed.

Power requirements are 85 w of 115 v, ac.

AN/FRR-TYPE		INSTRUCTION LITERATURE: Collins 75A-2 Collins Instruction Book
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Receiver 75A-2	21-1/8 x 12-1/2 x 13-1/6	50
1	Speaker	15 x 11-1/8 x 9-1/8	15

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Issued for use in the Military Amateur Radio Systems.

INSTALLATION: Fixed ground for either table or standard 19-inch relay rack mounting.

APPROXIMATE RANGE (IN MILES): (Nominal) Long.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -21, -25, -26; AN/ART-13; AN/CRT-3; AN/FRC-10; AN/FRT-5, -6, -15, -17, -18; 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, -401, -447, -610; MBS; MQ; OA-60A/FRT; OA-60B/FRT; RC-52; SCR-177, -188, -193, -274, -281, -399, -499, -506, -536, -543, -585, -694; T-4/FRC, -83/SR, -158/FRT, -159/FRT, -171/FR, -172/FR, -173/FR, -174/FR, -175/FR, -177/FR, -180/FR; TBA; TBC; TBK; TBL; TBM; TBN; TBO; TBQ; TBW; TBX; TBY; TCB; TCC; TCE; TCH; TCK; TCP; TCS; TCZ; 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: 1.6 - 32.0 in 6 bands.

Band 1: 1.6 - 2.0

Band 3: 6.4 - 8.0

Band 5: 19.2 - 24.0

Band 2: 3.2 - 4.0

Band 4: 12.8 - 16.0

Band 6: 25.6 - 32.0

TYPE MODULATION: Am and fm.

TYPE OF SIGNAL: Cw, mcw, and phone.

POWER OUTPUT: Audio output; 2.5 w at 500 ohm impedance.

POWER REQUIREMENTS: 85 w, 115 v, 50/60 cyc, ac.

PHYSICAL CHARACTERISTICS

Radio Receiver Collins 75A-2 measures 21-1/8 x 24 x 13-1/6 inches, net weight 65 pounds, volume 2.9 cu ft. Packed for domestic or export shipment: total weight 70 pounds, total volume 3 cu ft. Shipped in 1 package.