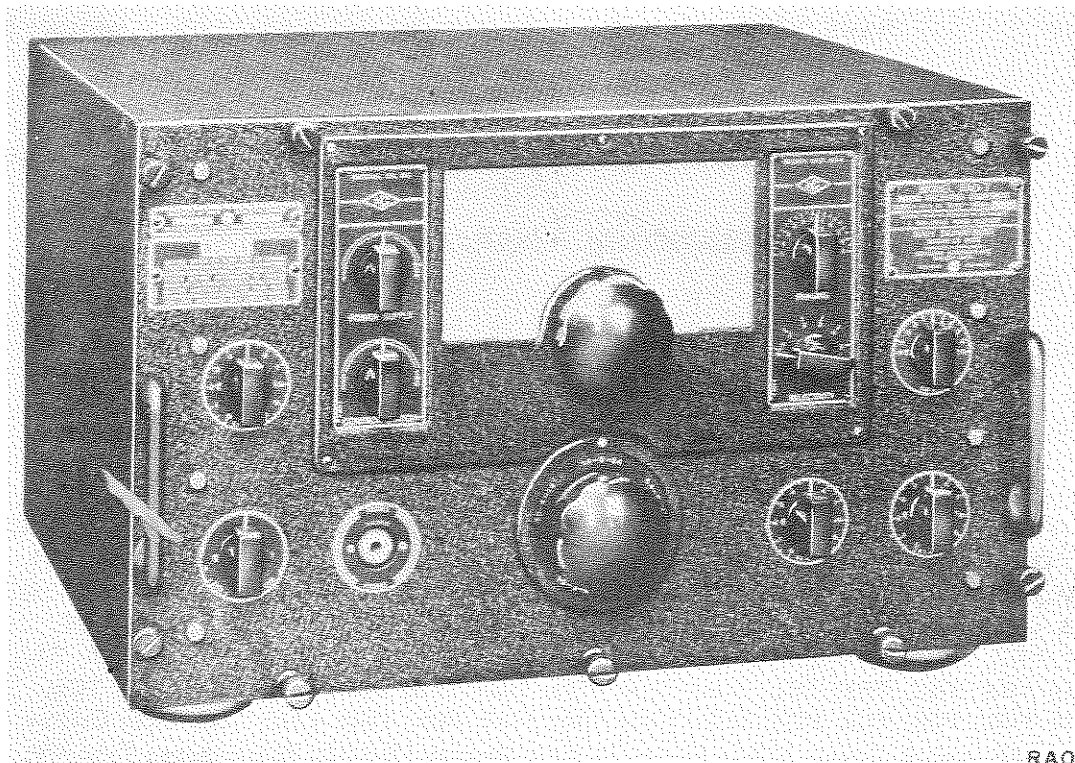


STATUS: Limited Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Navy
DATE OF THIS SHEET: 29 Mar 52

AN/FRR-TYPE

SERVICE TYPE NUMBER: RAO, RAO-1
RADIO RECEIVING EQUIPMENT



Radio Receiving Equipments RAO and RAO-1 are high-selectivity, general purpose receivers for receiving radiotelegraph or voice signals.

They are similar in design: RAO is designed for rack installation; RAO-1 for table installation.

Both receivers are supplied with loudspeakers and fitted with loudspeaker power output sockets distinct from the headset output sockets.

Electrically, RAO-1 is the same as RAO with the addition of a noise limiter and a second stage of a-f amplification.

A headset and an antenna are required but not supplied.

These receivers may be operated from batteries in an emergency.

AN/FRR-TYPE		INSTRUCTION LITERATURE: Not Available
RAO, RAO-1	SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO RECEIVING EQUIPMENT		USING SERVICE: Navy
		DATE OF THIS SHEET: 29 Mar 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Receiver Unit CNA-46072, -46088	10-7/8 x 17-9/16 x 13-3/8	55
1	Loudspeaker CNA-49092, -49106	7 x 19 x 3-1/2 9-7/16 x 10-1/4 x 7-7/16	Not Available 11

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shore stations.

INSTALLATION: Ground.

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: 0.54 - 30.0, in 5 bands.

Band 1: 0.54 - 1.30.

Band 4: 6.4 - 14.0.

Band 2: 1.3 - 2.8.

Band 5: 14.0 - 30.0.

Band 3: 2.8 - 6.4.

TYPE MODULATION: AM.

TYPE OF SIGNAL: Cw, icw, mcw, voice.

POWER OUTPUT: 12-mw output to headset socket.
2-w output to loudspeaker socket.

POWER REQUIREMENTS: RAO: 50 w, 115 v ($\pm 10\%$) 50/62 cyc, 1 phase.RAO-1: 70 w, 115 v ($\pm 10\%$) 50/62 cyc, 1 phase.

Battery operation: 16.8 w, 240 v and 20 w, 6.3 v.

PHYSICAL CHARACTERISTICS

Radio Receiving Equipment RAO or RAO-1 measures 20-5/16 x 17-9/16 x 13-3/8 inches.