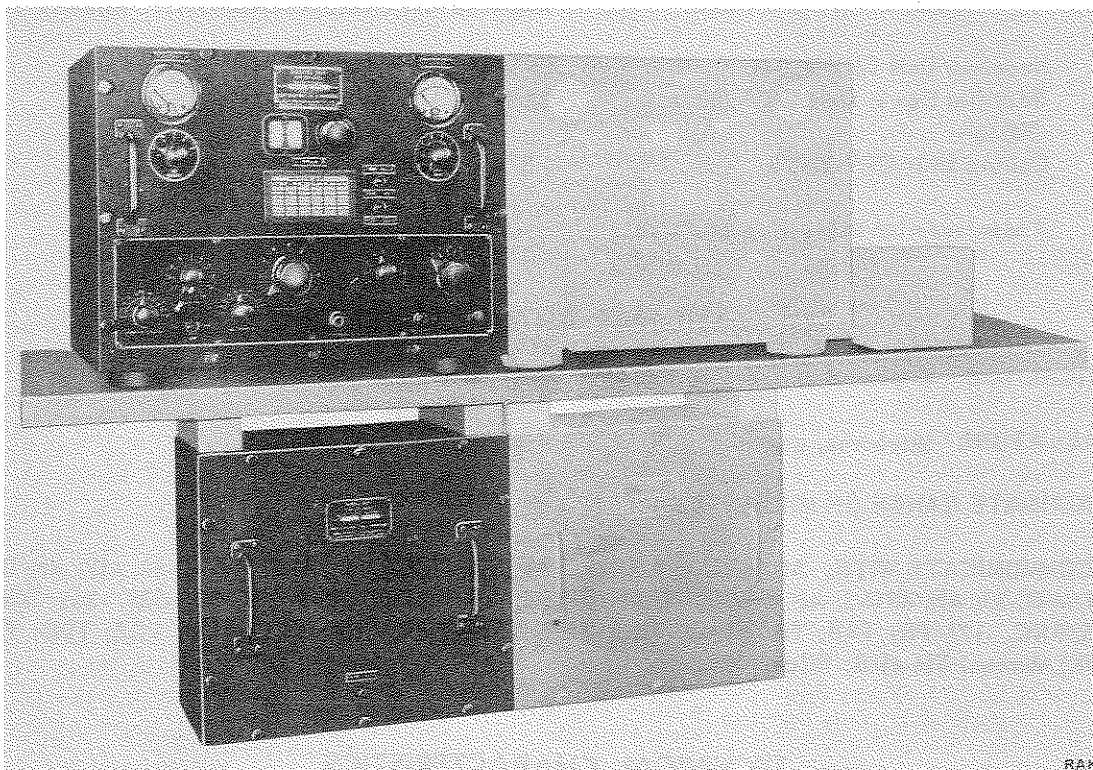


STATUS: Limited Standard
 CLASSIFICATION OF EQUIPMENT: Unclassified
 USING SERVICE: Navy
 DATE OF THIS SHEET: 29 Mar 52

AN/URR-TYPE

SERVICE TYPE NUMBER: RAK, RAK-1 through 4
 RADIO RECEIVING EQUIPMENT



RAK

Radio Receiving Equipments RAK, and RAK-1 through -4 are general purpose tuned-radio-frequency receivers designed primarily to receive radiotelegraph signals within the frequency range 0.015 to 0.600 mc. Voice reception is intelligible only above 0.2 mc.

These equipments are essentially identical. The RAK is battery operated only but, in an emergency, the RAK-1 through -4 can also be operated from batteries. These receivers are often installed adjacent to an RAL series receiver to form a complete two-channel installation for guarding two frequencies simultaneously. A separate control unit is supplied with the RAK-1 through -4 which permits this type of operation.

Equipment required but not supplied: 600-ohm headset and receiving antenna.

AN/URR-TYPE	INSTRUCTION LITERATURE: 1B-23299; -23299-1; 23299-2; -26678
	CLASSIFICATION OF EQUIPMENT: Unclassified
RAK, RAK-1 through 4 : SERVICE TYPE NUMBER	USING SERVICE: Navy
RADIO RECEIVING EQUIPMENT	DATE OF THIS SHEET: 29 Mar 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Receiver Unit CRV-46044	13-5/16 x 18 x 16-3/4	74
*1	Rectifier Power Unit CRV-20036, -20036A	12-1/4 x 14 x 8-5/8	41
*1	Control Unit CRV-23073	4-3/4 x 5-3/8 x 3-5/8	2

* Supplied with RAK-1 through -4 only.

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shipboard or shore stations.

INSTALLATION: Shipborne, ground.

APPROXIMATE RANGE (IN MILES): Long.

CAN COMMUNICATE WITH: AN/ARC-8; AN/ART-13; AN/CRT-3, -5; AN/FRT-4, -10, -19; AN/GRT-2; AN/MRC-20; AN/SRC-3; AN/SRT-1, -3; AN/TRQ-1; AN/URT-2, -3, -4; BC-191, -329, -365; SCR-177; T-5/FRC, -171/FR; TAB; TAJ; TAQ; TBL; TBN; TBU; TBW; TCE; TCG; TCY; TCZ; TDD; TDE; TDK; Marconi TH-41-B; Wilcox 99A.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 0.015 - 0.600, in 6 bands.

Band 1: 0.015 - 0.025.	Band 4: 0.0775 - 0.153.
Band 2: 0.025 - 0.0435.	Band 5: 0.153 - 0.308.
Band 3: 0.0435 - 0.0775.	Band 6: 0.308 - 0.600.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, icw, mcw, voice (above 0.2 mc).

POWER OUTPUT: 170 mw.

POWER REQUIREMENTS: Without ballast tube: 60 w, 115 v ($\pm 10\%$) 60 cyc, 1 phase.

With ballast tube: 200 w, 115 v ($\pm 10\%$) 60 cyc, 1 phase.

Battery operation: 12.6 w, 6.3 v and 8.1 w, 180 v.

PHYSICAL CHARACTERISTICS

Radio Receiving Equipments RAK and RAK-1 through 4 measure 26 x 18 x 16-3/4 inches each.