

STATUS: Limited Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

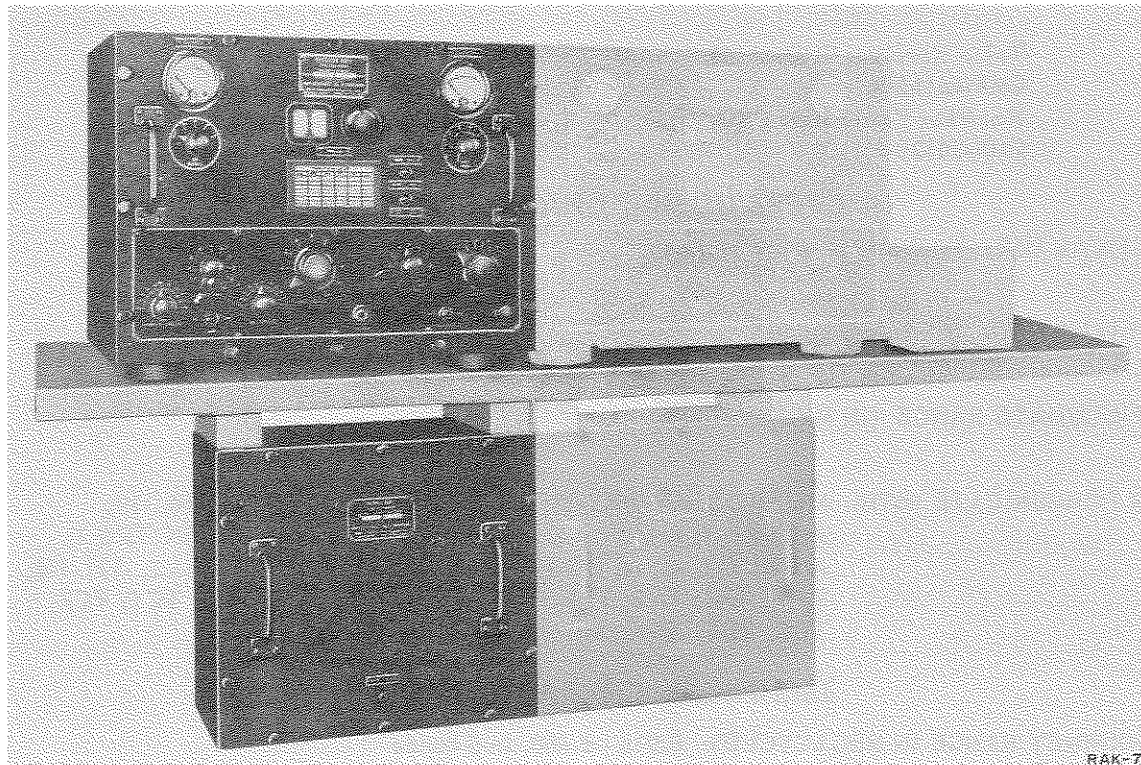
USING SERVICE: Navy

DATE OF THIS SHEET: 29 Mar 52

AN/URR-TYPE

SERVICE TYPE NUMBER: RAK-7, -8

RADIO RECEIVING EQUIPMENT



RAK-7

Radio Receiving Equipments RAK-7 and -8 are general purpose tuned-radio-frequency receivers designed primarily to receive telegraph signals within the frequency range 0.015 to 0.600 mc.

Each of these equipments is 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 RAL-5 through -8 receivers which permits this type of operation.

In an emergency, the receiver can be operated directly from batteries.

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

AN/URR-TYPE		INSTRUCTION LITERATURE: NavShips 900,232; 900,480
RAK-7, -8		CLASSIFICATION OF EQUIPMENT: Unclassified
: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	Radio Receiver CND-46155, CMX-46155-A	13-5/16 x 18 x 16-3/4	74
1	Rectifier Power Unit CND-20131, CMX-20131-A	12-1/4 x 14 x 8-5/8	42

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.

POWER OUTPUT: 170 mw.

POWER REQUIREMENTS: With ballast tube: 200 w, 110-120 v, 60 cyc, 1 phase.
Without ballast tube: 60 w, 110-120 v, 60 cyc, 1 phase.
Battery operation: 12.6 w, 6.3 v and 8.1 w, 180 v.

PHYSICAL CHARACTERISTICS

Radio Receiving Equipment RAK-7 or -8 measures 26 x 18 x 16-3/4 inches, net weight 196 pounds, volume 4.7 cu ft. Packed for domestic shipment: total weight 371 pounds, total volume 16.9 cu ft. Shipped in 4 packages.