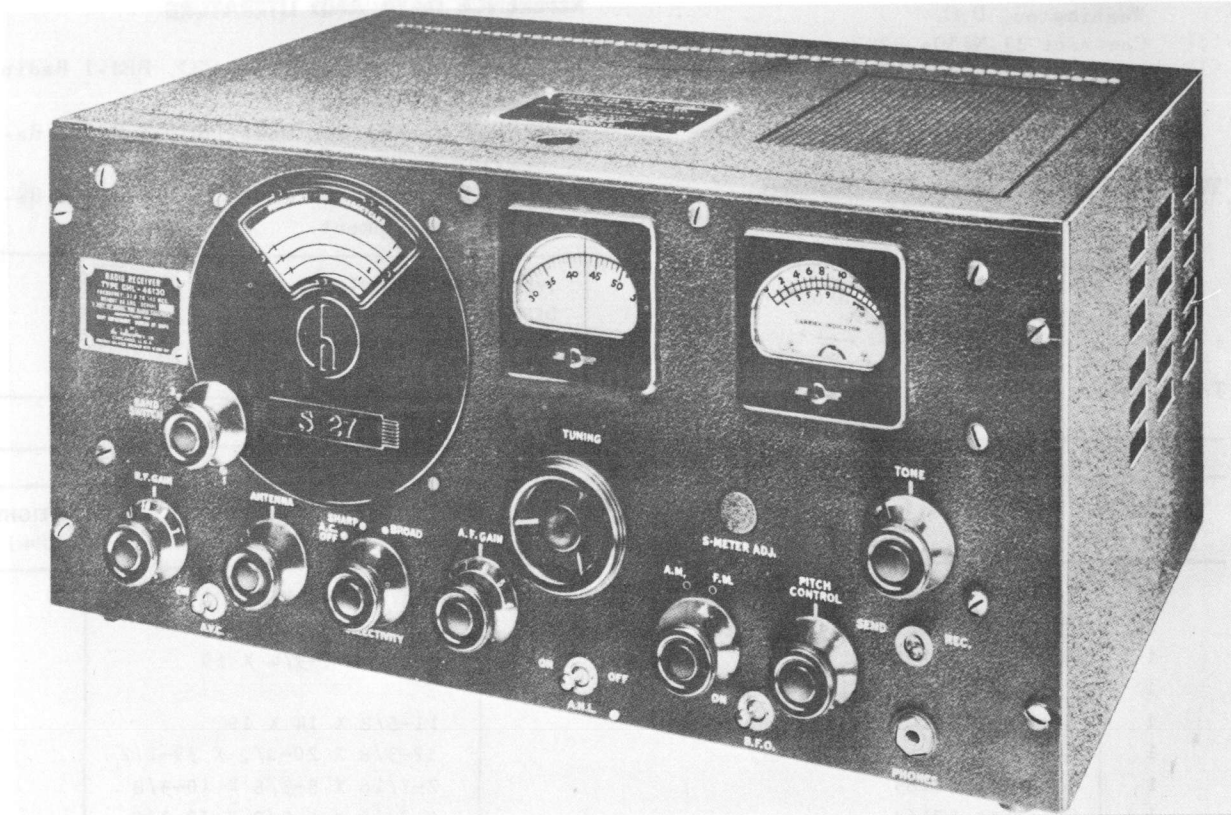


April 1958

Radio-Receivers

RADIO RECEIVING EQUIPMENT RBK, RBK-1, -2, -5, -7, -8, -9, -11 THRU -16



Radio-Receiving Equipment RBK, RBK-1, -2, -5, -7, -8, -9, -11, Thru-16

FUNCTIONAL DESCRIPTION

The RBK Series as indicated above are superheterodyne high frequency communication receivers designed for the reception of signals within the frequency range from 27.8 to 143 megacycles. These equipments are intended primarily for use on ships and other stations of the U. S. Navy.

The equipments are conventional in design but incorporate two features not found in most receivers; an RF amplifier used as a radiation suppressor, and a receptacle for connecting a panoramic adapter.

An outside case (dust cover) is provided with each receiver so that it can be mounted on a desk or table.

They will receive AM, FM and CW signals over a frequency range of 27.8 to 143 megacycles, in three bands.

Receiver disabling is provided by means of a "Send-Receive" switch located on the front panel and a special socket for connect-

ion to the control circuit of the associated transmitter.

No field changes in effect at time of preparation (23 October 1957).

RELATION TO OTHER EQUIPMENT

Similar to S-27, S-27D and S-36 (Halli-crafter) receivers.

Equipment Required but not Supplied: (1) Antenna, (1) 600 ohm headset or 500 ohm headset or 5000 ohm loudspeaker.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE: Superheterodyne.

FREQUENCY RANGE: 27.8 to 143.0 mc.

RECEPTION: A1, A2, A3, and F1, F2, F3.

AUDIO RESPONSE: w/in ± 3 db from 40 to 10000 cps.

Radio-Receivers

RBK, RBK-1, -2, -5, -7, -8, -9, RADIO RECEIVING EQUIPMENT -11 THRU -16

April 1958

AUDIO OUTPUT: 3 W.
 DISTORTION: Less than 5%.
 OUTPUT IMPEDANCE: 500 ohms, 600 ohms balanced, 5000 ohms.
 FEATURES: BFO, AVC.
 ANTENNA: 50 to 100 ft, single wire; half wave double or multiple dipole.
 MOUNTING DATA: The chassis and panel assembly is housed in a metal cabinet w/a hinged lid and rubber feet for table top use. If desired, the receiver may be installed in a standard relay rack.
 POWER SOURCE REQUIRED: 115 or 230 v, 50 to 60 cps, 115 W.

MANUFACTURER'S OR CONTRACTOR'S DATA

The Hallicrafter's Co., Chicago, Ill.
 Contract NOS-87293, dated 16 June (RBK).
 Contract NXs-3265, dated 20 April 1942 (RBK-1).
 Contract NXs-9513 dated 9 July 1942 (RBK-5).
 Contract NXss-21514 (RBK-7).
 Contract NXss-28816 (RBK-8).
 Contract NXss-32842 (RBK-9).
 Contract NXsr-39265 dated 10 June 1944 (RBK-12).
 Contract NXsr-56768, dated 2 February 1945 (RBK-13).
 Contract NXsr-67988, dated 10 June 1944 (RBK-13).
 Contract NXsr-39265, dated 30 June 1944 (RBK-14).
 Contract NXsr-85032, dated 30 December 1944 (RBK-14).
 Contract NXsr-47385 (RBK-11).
 Contract NObs-52200, dated 6 January 1951 (RBK-16).

TUBE AND/OR CRYSTAL COMPLEMENT

RBK-15, -16

(1) OD3W	(1) 6SK7WA
(1) 5U4G	(1) 6SL7WGT
(1) 6AB7	(2) 6V6GTY
(2) 6AC7WA	(1) 954
(2) 6H6	(1) 955
(1) 6J5	(2) 956

Total Tubes: (16)

RBK-12, 13, 14, 9, 8, 7, 5

(1) OD3W	(1) 6SK7WA
(1) 5U4G	(2) 6V6GTY
(1) 6AB7	(1) 954
(2) 6AC7WA	(1) 955
(2) 6H6	(1) 956
(1) 6J5	(1) 6SL7WGT

Total Tubes: (15)

RBK, -1, -2, -11

(1) OD3W	(1) 6J5
(1) 5Z3	(1) 6SK7WA
(1) 6AB7	(2) 6V6GTY
(2) 6AC7WA	(1) 954
(1) 6C8G	(1) 955
(2) 6H6	(1) 956

Total Tubes: (15)

REFERENCE DATA AND LITERATURE

NAVSHIPS 95244, Technical Manual for Model (S-270) RBK, Radio Receiving Equipment, RBK-1, RBK-3, RBK-4, RBK-5, RBK-6, RBK-11.
 NAVSHIPS 95245, Technical Manual for Model RBK-9, Radio Receiving Equipment.
 NAVSHIPS 900,235, Technical Manual for Model RBK-12, -13, -14, Radio Receiving Equipment.
 NAVSHIPS 91616, Technical Manual for Radio Receiving Equipment Navy Model RBK-16.

TYPE CLASSIFICATION
DESIGN COGNIZANCE BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.

SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Radio Receiver -46130-D** or -46130-C*	6.7	15-1/2 X 22-3/4 X 32-1/2	228
		6.7	15-1/2 X 22-3/4 X 32-1/2	228
1	Set of Repair Parts or Radio Receiver-46298-A	10.1	17-1/2 X 23-1/2 X 42-1/2	200

NOTES: *RBK-12, -13

**RBK-14

April 1958

RADIO RECEIVING EQUIPMENT RBK,RBK-1,-2,-5,-7,-8,-9,-11 THRU -16

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Radio Receiver -46130-A or -46130 or -46130-C or -46130-D or -46162 or -46241 or -46298 or -46298-A	9-5/16 X 15-13/16 X 19-1/8 9-1/2 X 15-15/16 X 19-1/8 9-3/8 X 14-3/16 X 19-1/8 9-5/16 X 15-13/16 X 19-1/8 9-5/16 X 15-13/16 X 19-1/8 9-5/16 X 15-3/4 X 19-1/8	63 63 63 78 78
1	Loudspeaker -49172	10-7/8 X 11 X 16	20
1	Set of Equipment Spares	12-3/4 X 15 X 20-1/2	88

REFERENCE DATA AND LITERATURE

UNCLASSIFIED

UNCLASSIFIED

24-49-WO DATA

WEIGHT	NUMBER	DESCRIPTION	UNIT
20	1	Loudspeaker -49172	each
88	1	Set of Equipment Spares	each