

**RADIO RECEIVING EQUIPMENT****RBE****FUNCTIONAL DESCRIPTION**

The Model RBE is a complete diversity radio receiving equipment suitable for use at Naval radio stations. It is suitable for diversity reception of CW or TCW radio telegraph signals by loudspeaker or headphones or by telegraph recorder. The equipment also permits the reception of MCW radio telephone signals, by headphone or loudspeaker methods, over separate channels without diversity combination of these separate channels. The components of the equipment are rack mounted to a cabinet type mounting rack. The major units are suitable for operation from a 115 v, 60 cps, AC power supply source and are each provided with self-contained power units to provide all necessary power for both plate and heater circuits.

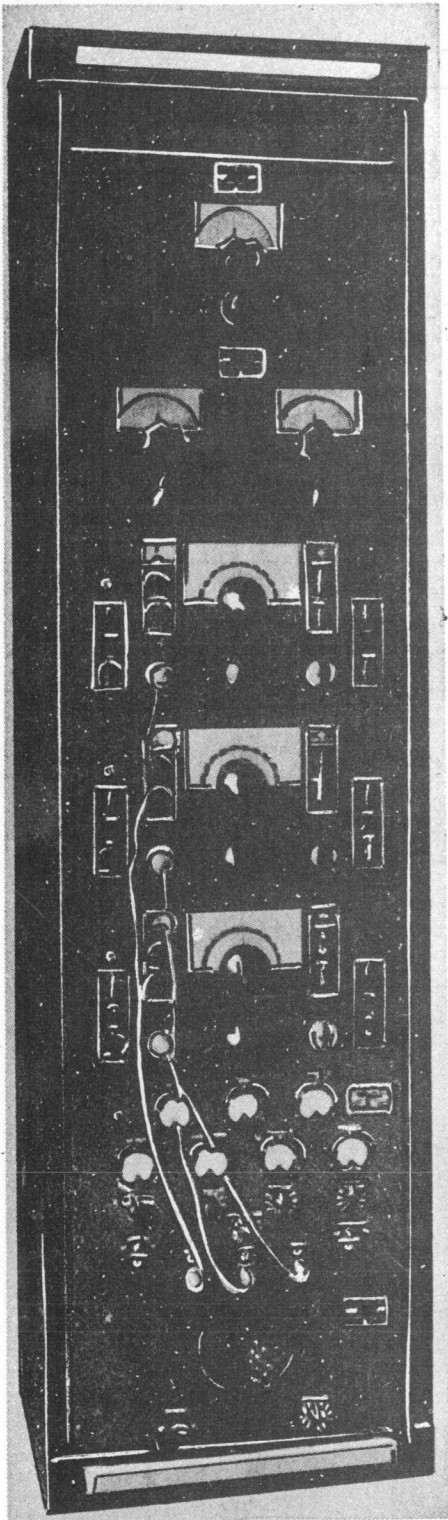
No field changes in effect at time of preparation (7 December 1956).

**RELATION TO OTHER EQUIPMENT**

Equipment Required but not Supplied:  
Three Antennas.

**ELECTRICAL AND MECHANICAL CHARACTERISTICS**

FREQUENCY RANGE: 550 to 30,000 kc.  
 OUTPUT IMPEDANCE: 600 ohms.  
 INTERMEDIATE FREQUENCY: 456 kc.  
 INPUT CONNECTIONS: Single wire type antenna, balanced feed line or a low impedance concentric transmission line.  
 LOUDSPEAKER 49140  
 POWER OUTPUT: 1.75 W.  
 INPUT IMPEDANCE: 600 ohms.  
 POWER SOURCE REQUIRED: 115 v, 60 cps, single phase, 45 W.  
 SINGLE AND DUAL PRESELECTOR 50090 and 50091.  
 FREQUENCY RANGE: 550 to 32,000 kc.  
 INPUT IMPEDANCE: 80 to 125 ohms.  
 OUTPUT IMPEDANCE: 80 to 100 ohms.  
 POWER SOURCE REQUIRED: 115 v, 60 cps, single phase.  
 DIVERSITY COMBINING UNIT  
 TYPE OF RECEPTION: CW or ICW.  
 MAXIMUM SPEED: 500 words/minute.  
 CHANNELS: 3.  
 INPUT IMPEDANCE: 600 ohms.  
 POWER SOURCE REQUIRED: 115 v, 60 cps, single ph.



Radio Receiving Equipment RBE

June 1957

## Radio-Receivers

## RBE

## RADIO RECEIVING EQUIPMENT

## MANUFACTURER'S OR CONTRACTOR'S DATA

General Electric Supply Corp, Washington,  
D.C.

Contract NOs 70248, dated 11 December  
1939.

Contract N171S-59715, dated 25 July  
1940.

(6) 456KC

Total Tubes: (6)

## REFERENCE DATA AND LITERATURE

NAVSHIPS 900261: Technical Manual for Model  
RBE Radio Receiving Equipment.

## TUBE AND/OR CRYSTAL COMPLEMENT

(2) VR-105/30

(9) 6J7

(3) 6C8G

(3) 523

(3) 80

(3) 6SC7

(15) 6K7

(3) 6F8G

(8) 6V6GT/G

(2) 5U4G

(1) 6J5

Total Tubes: (52)

TYPE CLASSIFICATION  
DESIGN COGNIZANCE BUSHIPS  
PROCUREMENT COGNIZANCE  
STOCK NO.

## EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
3	Radio Receivers NT-46142	10-15/32 X 13-9/16 X 19	60
1	Loudspeaker NT-49140	8-23/32 X 8-11/16 X 19	32
1	Diversity Combining Unit NT-50079	12-7/32 X 13-9/16 X 19	60
1	Single Preselector NT-50090	10-15/32 X 10-9/16 X 19	20
1	Dual Preselector NT-50091	10-15/32 X 10-9/16 X 19	34
1	Mounting Rack (Cabinet Type)		
1	Blank Panel		
	Necessary Patch Cords		
1	Set of Equipment Spares		
	Instruction Books		