

RECEIVER OUTFIT CDV

SUMMARY OF DATA

PURPOSE

A Standard V.H.F. Receiver Outfit fitted in Ships and Store Stations as a replacement for Receiver Outfit CDU. It is used in conjunction with Type 87M/MS/P.

TYPE OF RECEPTION

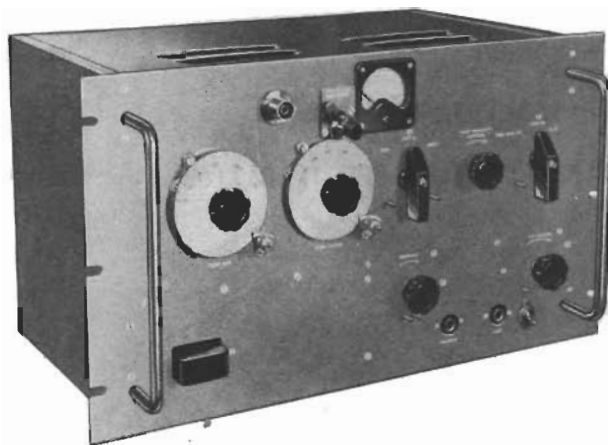
C.W. and Voice.

FREQUENCY RANGE

100-156 Mc/s crystal controlled.
Intermediate Frequency - 9.72 Mc/s.

MAJOR UNITS

Patt. No.	DESCRIPTION	PHYSICAL DATA			
		Height	Width	Depth	Weight
61357	Receiver Unit 62H	10½"	19"	12"	35 lb
W8356A	Power Unit for Receiver P38 or 10D/17395 PU Type 234A	7"	19"	12"	35 lb
54819	Rack, 19 ins Design 1	21"	19½"	12"	20 lb



RECEIVER UNIT 62H

When two or three Receiver Units 62H are supplied they are fitted into Patt. 54819 Rack. One Receiver Unit 62H is mounted in a non pattern framework.

BRIEF TECHNICAL DESCRIPTION

Receiver Unit 62H is a crystal controlled superheterodyne set with two R.F. stages, mixer stage, and three I.F. stages of mid-frequency 9.72 Mc/s. The first heterodyne frequency, is derived from the local oscillator circuit consisting of the crystal oscillator and trebler followed by a harmonic amplifier further multiplying by six. The first heterodyne frequency is thus eighteen times that of the crystal.

A second heterodyne oscillator operating in the I.F. band is used to produce a beat note in the 2nd Detector output. Two stages of A.F. amplification are provided, and there is also a double-diode noise limiting valve and a double-diode triode A.G.C. valve.

ELECTRICAL CHARACTERISTICS

Sensitivity:- On Voice 10 uV for a 20 db Signal to Noise ratio.

On C.W. 5 uV for a 20 db Signal to Noise ratio.

A.F. Response:- (Reference level 0 db = 1000 c/s.)

At 200 c/s. 4 db down.

At 5000 c/s. 6 db down.

Max. Power Output:- 200 mW into balanced 600 ohm line.

POWER REQUIREMENTS AND CONSUMPTION

Receiver Outfit CDV requires 200/250 volts 50 c/s A.C. fed to the Patt. W8356A Power Unit, which gives the following supplies to Receiver Unit 62H. or Power Unit 234A

H.T. - 260 volts D.C.

L.T. - 6.3 volts at 4.3 amps A.C.

The consumption is 60 watts.

AERIAL SYSTEM

Facilities are available for connecting via a single core concentric line to either a Type 3 dipole, wide band dipole or a "J" match type of aerial.

HANDBOOK

BR. (^{BR1511}~~in course of preparation~~) BR1422 (for AP W 8356A Penn Unit)

ESTABLISHMENT LIST

E.1045

INSTALLATION SPECIFICATION

B394 (When fitted with Type 87M/MS).