

SUMMARY OF DATA

PURPOSE

Unattended or attended HF receiver for use as part of COMIST equipment.

FREQUENCY

Discrete 1 kHz frequencies in the range 1-30 MHz.
Interpolation of the 1 kHz can be made.

I.F.

100 kHz.

I.F. BANDWIDTHS

13 kHz, 6.5 kHz, 3 kHz, 1.2 kHz, 300 Hz, 100 Hz.

BRIEF DESCRIPTION

For unattended reception the r.f. input, from common aerial working via aerial selector switch, is passed to the receiver via a pre-selector. The MHz content of the wanted signal frequency is selected by a MHz control, the kHz content is selected on a synthesiser. The wanted frequency is selected and held to the accuracy and stability of an internal or external frequency standard. The signal output is taken from a sideband converter which converts the i.f. into SSB or ISB audio frequency. The DSB audio is produced in the receiver.

In emergency the CJK can be used as an attended receiver with a second VFO taking the place of the synthesiser.

INPUTS

R.F. signal from Common Aerial working via an aerial selector switch fitted in the cabinet 100 kHz from Frequency Standard.

OUTPUTS

I.F. at 100 kHz

1 MHz

1.7 MHz

A.F. Two outputs 3 mW at 600 ohms SSB, ISB or DSB

One output 10 mW at 600 ohms SSB, ISB or DSB

A.G.C.

SHORT Charge 2.0 ms Discharge 200 ms

LONG Charge 3.0 ms Discharge 5 seconds

POWER SUPPLY

100-115 V, 200-250 V, 40 Hz to 65 Hz, 500 W

Consumption 330 W (100 W approximately for Receiver only)

115 or 230 V, 100 W a.c. or d.c. for anti-condensation heaters



RECEIVER OUTFIT CJK

PHYSICAL DETAILS

The five major units are contained in drawers which fit into a main cabinet.

		<u>Height</u>	<u>Depth</u>	<u>Width</u>	<u>Weight</u>
5820-99-580-1650	Cabinet	41½ in.	25 in.	21½ in.	197 lb
5820-99-580-1595	Power Supply (for synthesiser)	5½ in.	19 in.	19 in.	44 lb
5820-99-580-1596	Selector Protector, Radio Receiver (Pre-selector)	7 in.	19 in.	19 in.	45 lb
5820-99-580-1597	Receiver Radio	10½ in.	18 in. (Chassis)	19 in.	67 lb
5820-99-580-1598	Synthesiser Electrical Frequency	7 in.	19½ in.	19 in.	33 lb
5820-99-580-1599	Converter, Sideband-Tuner Radio Frequency (sideband Converter)	5½ in.	13½ in.	19 in.	28 lb

HANDBOOK

BR 2396

ESTABLISHMENT LIST

E1354

INSTALLATION SPECIFICATION

B931