RECEIVER OUTFITS CHD(1) AND CHD(2)

SUMMARY OF DATA

PURPOSE

To measure accurately the characteristic frequency of a radio signal.

BRIEF DESCRIPTION

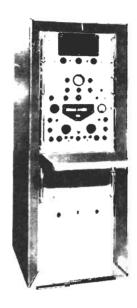
The receiver is tuned to the radio signal to be monitored using normal methods. The tuning is then precisely adjusted using the signal comparator which indicates the 'on tune' position by a stationary lissajous figure on a cathode-ray tube. The characteristic frequency is then measured using the electronic frequency counter.

TYPE OF RECEPTION

Carrier frequency with or without any of the various forms of amplitude or frequency-modulation.

MAJOR UNITS

	OUTFIT CHD(1)	OUTFIT CHD(2)
Receiving Set, Frequency Measuring Cabinet, Electrical Equipment Counter, Electronic, Frequency Comparator, Signal Mixer Stage, Frequency Receiver, Radio Power Supply (for Counter) Panel, Power Supply	5820-99-971-8700 5820-99-971-8705 5820-99-971-8706 5820-99-971-8701 5820-99-971-8702 5820-99-971-8709	5820-99-971-8326 5820-99-971-8704 5820-99-972-2292 5820-99-971-8706 5820-99-971-8323 5820-99-971-8710
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RECEIVER OUTFIT CHD(1)

PHYSICAL DATA

Five of these units are mounted on angle slides in a mild steel or aluminium cabinet. The cabinet is fitted with an auto-transformer, distribution panel and cooling fan.

	Height	Width	Depth	Weight
Receiver Outfit CHD(1)	160 cm	61 cm	61 cm	186.9 Kg
	(63 in.)	(24 in.)	(24 in.)	(412 lb)
Receiver, Radio	26.7 cm	48.3 cm	50.8 cm	30.4 Kg
	(10.5 in.)	(19 in.)	(20 in.)	(67 lb)
Mixer Stage, Frequency	4.5 cm	48.3 cm	36.2 cm	4.8 Kg
	(1.75 in.)	(19 in.)	(14.25 in.)	(10.5 lb)
Counter, Electronic Frequency	26.7 cm	48.3 cm	40.6 cm	21.8 Kg
	(10.5 in.)	(19 in.)	(16 in.)	(48 lb)
Comparator, Signal	13.3 cm	48.3 cm	39.4 cm	17.2 Kg
	(5.25 in.)	(19 in.)	(15.5 in.)	(38 lb)
Cabinet, Electrical Equipment	160 cm	61 cm	61 cm	86.2 Kg
	(63 in.)	(24 in.)	(24 in.)	(190 lb)
Power Supply (for Counter)	26.7 cm	22.8 cm	40.6 cm	26.3 Kg
	(10.5 in.)	(9 in.)	(16 in.)	(58 lb)
Receiver Outfit CHD(2)	160 cm	61 cm	61 cm	186.9 Kg
	(63 in.)	(24 in.)	(24 in.)	(412 lb)
Receiver, Radio	26.7 cm	48.3 cm	50.8 cm	30.4 Kg
	(10.5 in.)	(19 in.)	(20 in.)	(67 lb)
Mixer Stage, Frequency	8.9 cm	48.3 cm	36.2 cm	4.8 Kg
	(3.5 in.)	(19 in.)	(14.5 in.)	(10.5 lb)
Counter, Electronic Frequency	17.8 cm	48.3 cm	22.8 cm	5.4 Kg
	(7 in.)	(19 in.)	(9 in.)	(12 lb)
Comparator, Signal	13.3 cm	48.3 cm	39.4 cm	17.2 Kg
	(5.25 in.)	(19 in.)	(15.5 in.)	(38 lb)
Cabinet, Electrical Equipment	160 cm	61 cm	61 cm	86.2 Kg
	(63 in.)	(24 in.)	(24 in.)	(190 lb)

ELECTRICAL CHARACTERISTICS

Frequency range 12.5 kHz to 30 MHz (10 kHz — CHD(2)

Frequency standard Internal, 100 kHz with a stability of at least five parts in 10⁷; provision

is made for the application of an external 100 kHz frequency standard.

Input of external 0.1 volt at 100 kHz into 70 ohms. frequency standard

Sensitivity Better than one microvolt.

Accuracy Plus or minus the accuracy of the frequency standard, with the addition of plus or minus one count of the Frequency Meter. A typical figure

is ±2 Hz.

-2 mz.

POWER REQUIREMENTS AND CONSUMPTION

Power requirements 100-125 volts, or 200-250 volts, at 45-60 Hz.

Consumption 600 watts approximately

HANDBOOKS

BR 2353 Receiver Outfit CHD(1)

BR 1171 Receiver Radio, RA.17K BR 1171 Mixer Stage, Frequency, RA.37C

BR 2214 Counter Electronic Frequency, SA.21C

BR 2353 Comparator Signal, SA.77

BR 2214 Power Supply for \$A.21C

BR 2450 Receiver Outfit CHD(2)

BR 1171 Receiver Radio, RA.17R BR 1171 Mixer Stage Frequency, F

BR 1171 Mixer Stage Frequency, RA.137C BR 2450 Counter, Electronic Frequency SA.535C

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ESTABLISHMENT LIST

E 1269 Receiver Outfit CHD(1) R 1511 Receiver Outfit CHD(2)

MAINTENANCE SCHEDULES

Catalogue No. 4603

COMMERCIAL EQUIVALENTS

Outfit CHD(1) is Racal Frequency Measuring Set RA.78C which includes Receiver RA.17K and L.F. Converter, RA.37A.

Outfit CHD(2) is Racal Frequency Measuring Set, RA.78J which includes Receiver RA.17R and L.F. Converter, RA.137C.

Outfit CHD(2) will include the Frequency Meter SA.535C in lieu of SA.21C and its power supply.