

RECEPTION SET R 206, MK. I AND POWER SUPPLY UNIT NO. 15

DATA SUMMARY

PURPOSE

Sensitive receiver for use with special wireless services.

DESCRIPTION

High-grade 11-valve superheterodyne receiver for reception of C.W., M.C.W. and R/T (AM) signals, capable of high re-setting accuracy, incorporating crystal filters for high selectivity (2.5 and 0.7 kc/s bandwidth).

PHYSICAL DATA

	<i>Reception set R 206, Mk. I</i>	<i>Power supply unit No. 15</i>
Weight:	100 lb.	43 lb.
Height:	13 in.	12½ in.
Length:	25 in.	7 in.
Width:	13½ in.	14½ in.

FREQUENCY

Coverage: 0.55-30 Mc/s
Internal: 465 kc/s.

AERIAL SYSTEM

Provision for use with all types of aerial. Normally used with rhombic aerial.

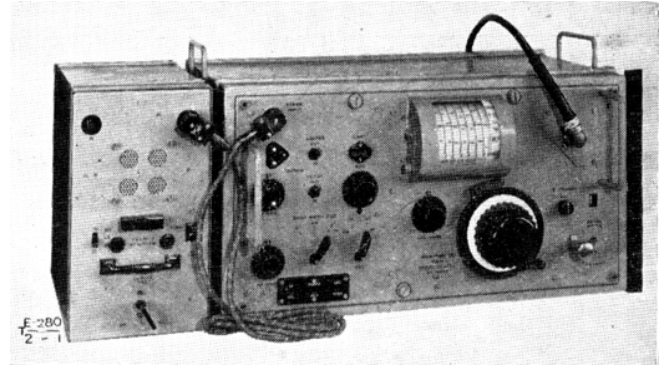


Fig. 1—General view of equipment

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PERFORMANCE

Power and type of output: 1W max. A.F. in 10Ω, 150Ω and 600Ω.
Sensitivity: R/T order of 1½-2½μV } for signal-noise ratio of 20db.
C.W.: better than 1μV } for a nominal pass-band of 2.5 kc/s.

POWER REQUIREMENTS AND CONSUMPTION

Power supply unit No. 15 operated from: A.C. mains of 110-240V
40-60 c/s up to 60VA; or from D.C. 12V supply up to 50W.

VALVES

Circuit ref.	Type	Function
RECEPTI	ON SET R 206	
V1A	ARP 35 R.F. pentode	1st R.F. amplifier
V2A	ARP 34 R.F. pentode	2nd R.F. amplifier
V3A	ARTH 2 Triode-hexode	Mixer
V1B	ARP 35 R.F. pentode	Local oscillator
V2B	ARP 34 R.F. pentode	1st I.F. amplifier
V2C	ARP 34 R.F. pentode	2nd I.F. amplifier
V4A	AR 21 Double-diode-triode	2nd detector and A.F. amplifier

VALVES—contd.

Circuit ref.	Type	Function
V2E	ARP 34 Pentode	Beat oscillator
V2D	ARP 34 R.F. pentode	A.V.C. amplifier
V5A	ARDD 5 Double-diode	A.V.C. rectifier
V6A	VT 52 Pentode	A.F. output
POWER SUPPLY UNIT No. 15		
V1A-B	6X5G Double-diode	Anodes strapped to work as half-wave rectifier
V2A	AW2 (or CV188)	Voltage stabilizer

REMARKS

The R 206, Mk. II is being developed and will incorporate minor circuit changes, a different type of tuning dial and a different method of range selection. Details will be published at a later date.
The R 206, Mk. I incorporates a drum type tuning dial.
The frequency coverage is 0.05-30 Mc/s when the set is used in conjunction with Adaptors, frequency range, No. 1.

END

This replaces Tels. E 280, Issue 1, dated 16 Aug. 1943. All paras. have been amended and Fig. 1 is additional.