

RAYMOND - MINIT

Drive Cord Replacement.—Two feet of twine is sufficient for the drive cord, whose course is shown in our under-chassis view, where the system is seen in the minimum gang position. A special double tag is used to clamp the ends and to hook on to the spring, but it is not essential.

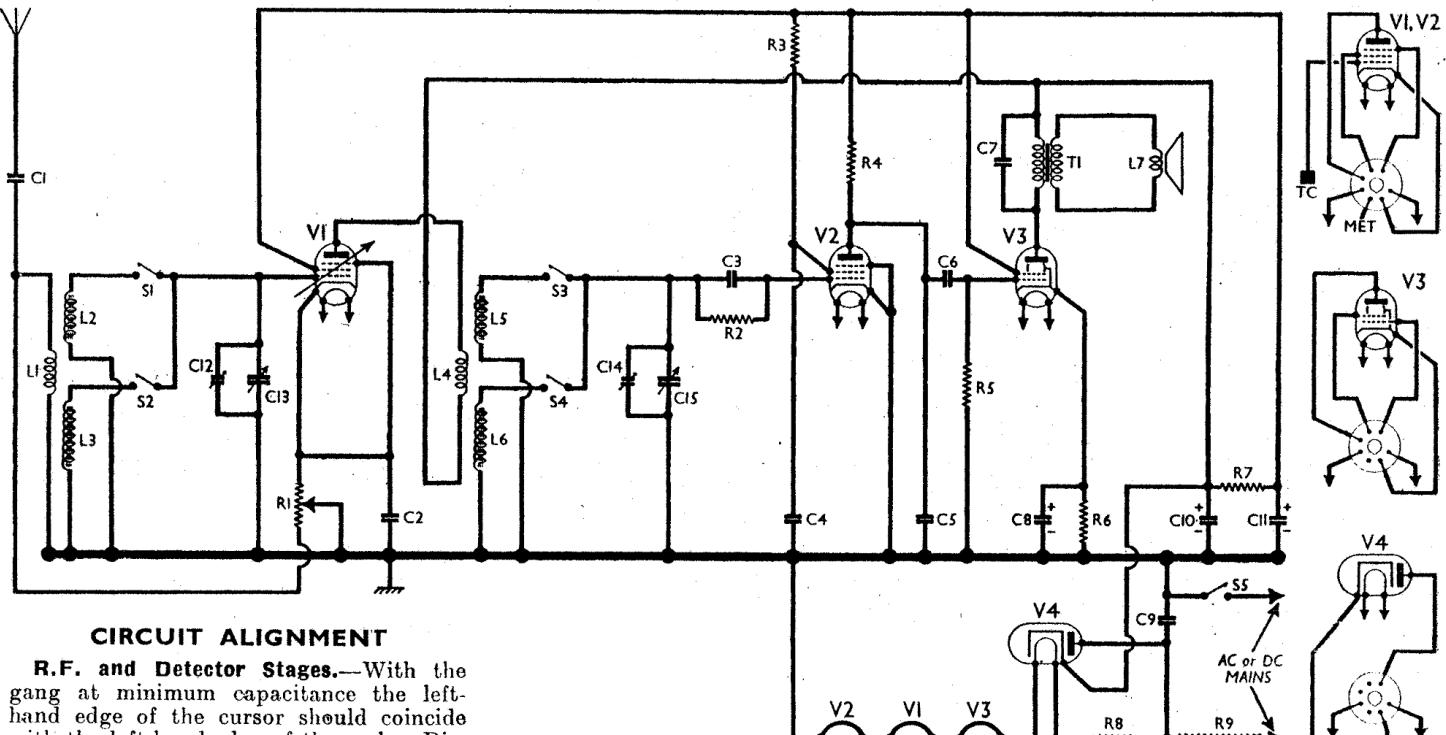
The cursor is a flexible stamping which can be slipped on to the cord after fitting. The scale is a glass strip which is a friction fit in end clamps, and can be released with an upward movement.

RESISTORS			Values (ohms)	Location	OTHER COMPONENTS	Approx. Values (ohms)	Location
R1	Volume control	...	10,000	D1	L1	Aerial coupling	25-0
R2	V2 C.G. resistor	...	6,200,000	B2	L2	} Aerial tuning coils	2-7
R3	V2 S.G. feed	...	2,000,000	H4	L3	30-0	C2
R4	V2 anode load	...	500,000	I3	L4	R.F. coupling	45-0
R5	V3 C.G. resistor	...	1,000,000	H4	L5	Detector tuning	2-7
R6	V3 G.B.	...	180	H4	L6	} coils	30-0
R7	H.T. smoothing	...	5,000	I3	L7	Speech coil	2-5
R8	{ Heater ballast resistors	...	145	I4	T1	Output { Pri. trans.	160-0
R9†	}	...	550	J4	S1-S4	Sec. W/band switches	0-4

† Line cord.

CAPACITORS			Values (μF)	Location
C1	Aerial isolator	...	0.01	D2
C2	V1 cathode by-pass	...	0.01	E4
C3	V2 C.G. capacitor	...	0.01	B2
C4	V2 S.G. decoupl.	...	0.05	H4
C5	R.F. by-pass	...	0.0002	H4
C6	A.F. coupling	...	0.01	H4
C7	Tone corrector	...	0.03	B2
C8*	V3 cath. by-pass	...	2.0	A1
C9	Mains R.F. by-pass	...	0.05	I4
C10*	H.T. smoothing	...	24.0	A1
C11*	capacitor	...	16.0	A1
C12†	Aerial M.W. trim.	...	—	C2
C13†	Aerial tuning	...	0.0004	C1
C14†	Det. M.W. trim.	...	—	C2
C15†	Det. tuning	...	0.0004	C1

* Electrolytic. † Variable. ‡ Pre-set.



CIRCUIT ALIGNMENT

R.F. and Detector Stages.—With the gang at minimum capacitance the left-hand edge of the cursor should coincide with the left-hand edge of the scale. Disconnect attached aerial and connect signal generator leads to A tag and, via an $0.1 \mu F$ isolating capacitor, to chassis.

M.W.—Switch set to M.W. (clockwise position when viewed from rear of chassis). Tune to 200 m on scale, turn volume control until the receiver is just below the reaction point, and feed in a 200 m (1,500 kc/s) signal. Adjust C14 (location reference C2) for maximum output. Feed in a

230.8 m (1,300 kc/s) signal, tune it in, and adjust C12 (C2) for maximum output. Tune to 500 m on scale, feed in a 500 m (600 kc/s) signal, and check that the point of maximum signal is obtained within $\frac{1}{2}$ in from the calibration mark.

L.W.—No adjustments are provided for this band, but sensitivity and calibration should be checked at several points.

Diagram of the waveband switch unit, viewed from the front of an inverted chassis.

