

Resistors

R1	150kΩ	D3
R2	330Ω	D4
R3	3.9kΩ	D4
RV1	5kΩ	D5

Capacitors

C1	40pF	E4
C2	145pF	D4
C3	200pF	D4
C4	0.047μF	D4

C5	0.1μF	E4
C6	0.1μF	D4
C7	160μF	D5
CT1	—	D4
CT2	—	E4
CT3	—	D4
CT4	—	D4
CV1	—	D4
CV2	—	D4

Coils*

L1	4.7	F3
L2	5.5	D3
L3	17.0	F3
L4	15.0	—

Miscellaneous

S1-S6	—	D3
S7	—	D5
XM1†	—	E3
XM2‡	—	E5

Transistors & Diode

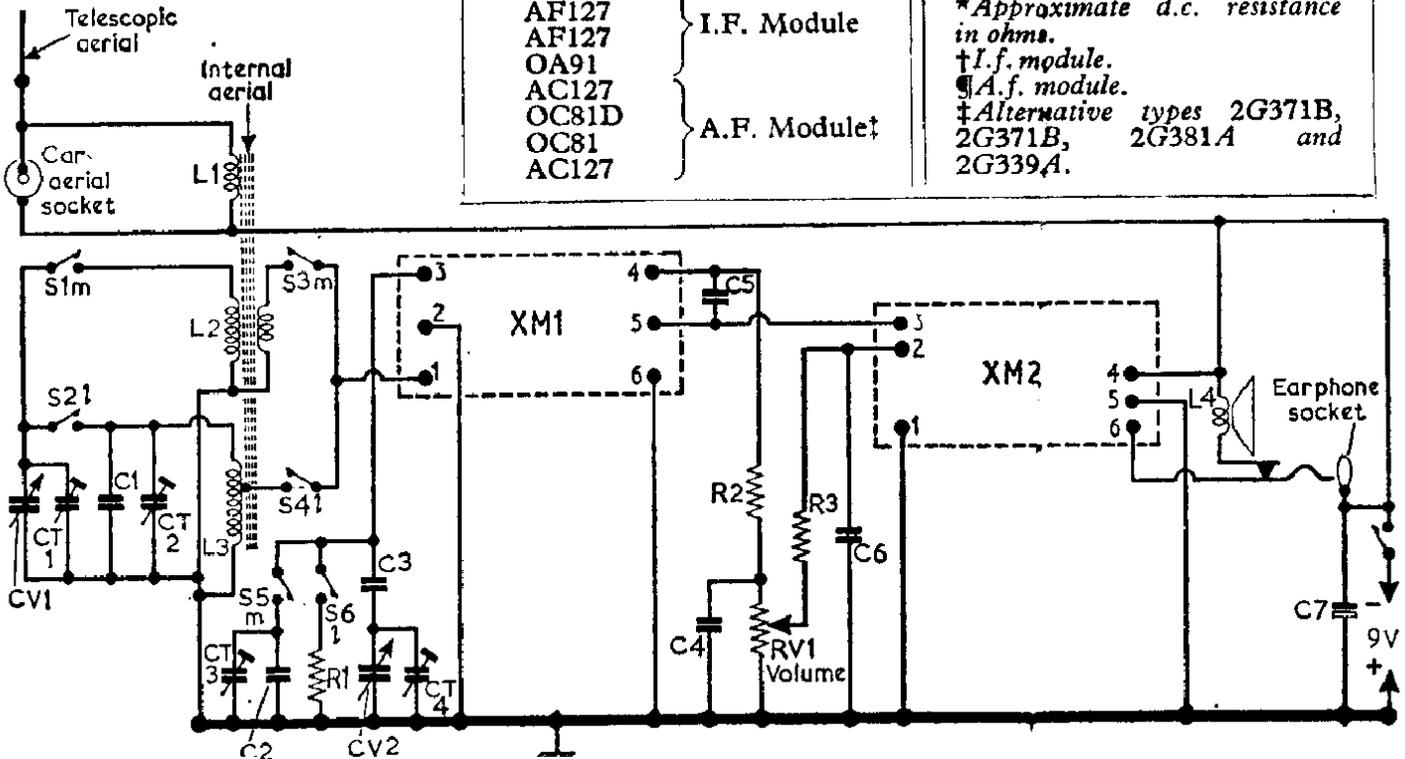
AF127	} I.F. Module
AF127	
AF127	
OA91	} A.F. Module†
AC127	
OC81D	
OC81	
AC127	

*Approximate d.c. resistance in ohms.

†I.f. module.

‡A.f. module.

§Alternative types 2G371B, 2G371B, 2G381A and 2G339A.



PR99 "Curzon"

Constructed of two modules, one containing the mixer, first and second i.f. amplifier and diode detector stages, the other containing the audio driver and complementary push-pull output stages. Seven transistors are employed in all.

Medium and long wavebands are covered as follows: 185-570m (m.w.) and 1,090-1,940m (l.w.). Internal ferrite rod and telescopic aerials are provided and an earphone car type aerial may

CIRCUIT ALIGNMENT

Equipment Required.—An a.m. signal generator; an audio output meter with an impedance of 15Ω or alternatively a 0-2V a.c. voltmeter; a 0.1μF blocking capacitor and a length of insulated wire for use as an r.f. coupling loop.

For alignment of the r.f. circuits, the chassis should be assembled in its case. I.f. alignment may be carried out with the chassis removed from the case.

During alignment the input signal level should not be allowed to exceed 50mW (0.8V a.c. across the speech coil) to prevent a.g.c. action.

- 1.—Connect the output meter in place of the loudspeaker or connect the a.c. voltmeter across the speech coil. Switch receiver to m.w. and connect the signal generator to pin 1 of the i.f. module. Turn the volume control to maximum.
- 2.—Set the tuning gang to approximately 1Mc/s. Feed in a 470kc/s modulated signal and adjust

each i.f. transformer for maximum output on the meter.

- 3.—Connect the signal generator to the r.f. coupling loop and loosely couple the loop to the ferrite rod aerial. Fully close the tuning gang, feed in a 525kc/s signal and adjust the "OSC" coil for maximum output.
- 4.—Fully open the tuning gang, feed in a 1,620 kc/s signal and adjust CT4 for maximum output.
- 5.—Repeat operations 3 and 4.
- 6.—Tune receiver to 500m, feed in a 600kc/s signal and adjust L2 for maximum output. Then tune receiver to 207m, feed in a 1,450 kc/s signal and adjust CT1 for maximum output. Repeat.
- 7.—Switch receiver to l.w. and de-tune L3 by placing a ferrite rod next to the coil, to prevent oscillator "pulling." Fully close the tuning gang, feed in a 155kc/s signal and adjust CT3 for maximum output.
- 8.—Tune receiver to 1,714m and remove the ferrite rod from L3. Feed in a 175kc/s signal and adjust L3 for maximum output. Then tune receiver to 1,154m, feed in 260kc/s signal and adjust CT2 for maximum output.

PERDIO - PR99
CURZON