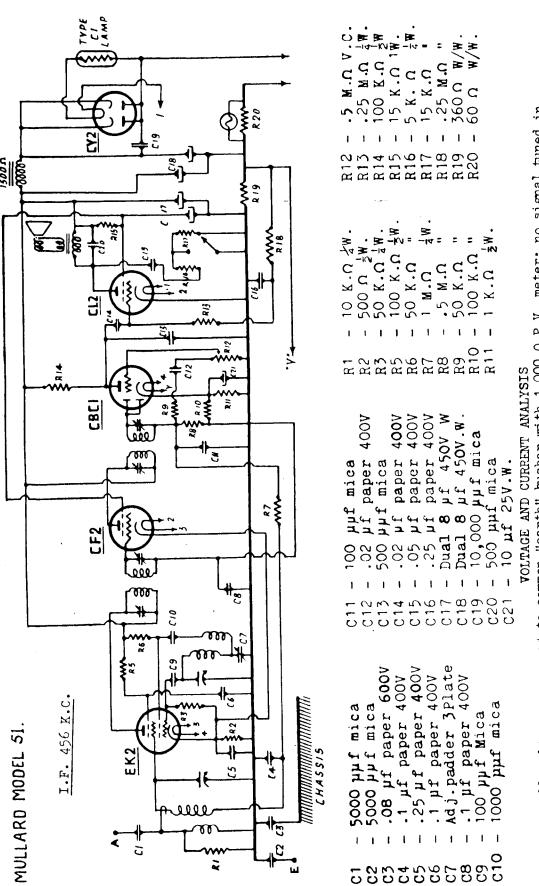
## Mullard Model 51

(Circuit Diagram and operating conditions will be found on Page 296.)

Mullard model 51 is a five-valve receiver designed for broadcast coverage and operation from 200-250 volts A.C. or D.C. mains. This receiver is of the "moulded mantel" type and is fitted with three controls—volume, tuning and tone (three positions). The loudspeaker is a 6½ inch unit with a field-coil resistance of 1.500 ohms.

The circuit arrangement and layout of this receiver follow conventional "A.C./D.C." practice in that the valve heaters are series-connected and all return leads are taken to a common negative busbar, chassis, aerial terminal and earth terminal all being isolated by means of high-voltage test condensers. The valves employed are all Mullard "200 mA." heater types and their sequence is as indicated by the numerals shown under each heater lead. Compensation for fluctuating supply voltage is provided by the use of a type C1 barretter as beater voltage dropping resistor. Finally, it should be noted that the dial-lamp is not wired in series with the heater circuit proper, as is usually the case; instead, it is shunted across a resistor in the common negative return lead for the entire receiver.

## "Mullard" A.C./D.C. Broadcast Model 51



to common "earth" busbar with 1,000 0.P.V. meter; no signal All voltages measured

•	ì				1	00 4
Bias Volts	3.2	3.2	0.1	16.5	,	of 200 - 25
Osc. snode volts	100	******	-	ł		permits variation
Screen mA	1-	0.8	!	5.5		retter (C1)
Screen volts	50	185 2.5 90 0.8	1	8		s input. Bar
Plate mA	1.1	2.5	o.	35	S. A.C.)	h 240 volt
Plate volts	185	185	48	170	265 (R.M.	nge taken wit
Valve	EK2	CF2	CBC1	CL2	CY2	ill meach

A general description of this model will be found on Page 300.