

MODEL RP329 is a portable, mains operated, record player employing two triode-pentode valves in a push pull tone corrected circuit.

A four speed auto-change unit and a crystal pick-up are incorporated to provide reproduction of both standard and long playing records.

Independent bass and treble controls enable the response to be varied at will over a wide range of frequencies.

MAINS SUPPLY : 200-250V A.C. 50 c/s.

MAINS CONSUMPTION : 38 watts with motor switched off.

MAINS ADJUSTMENT : Two voltage tapings are provided on the mains transformer input panel and the connection should be adjusted to suit the local supply voltage. The panel is accessible after removing the small vertical cover, secured by two screws, between the motor board and the rear of the loud-speaker.

VALVES : Both CL82 (Mullard).

RECTIFIER : ECI (Westinghouse).

LOUD-SPEAKER : 6" P.M. 3 ohms at 400 c/s.

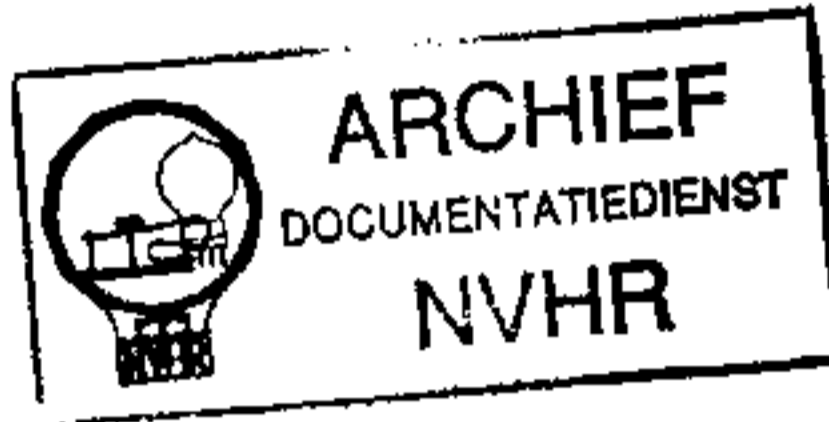
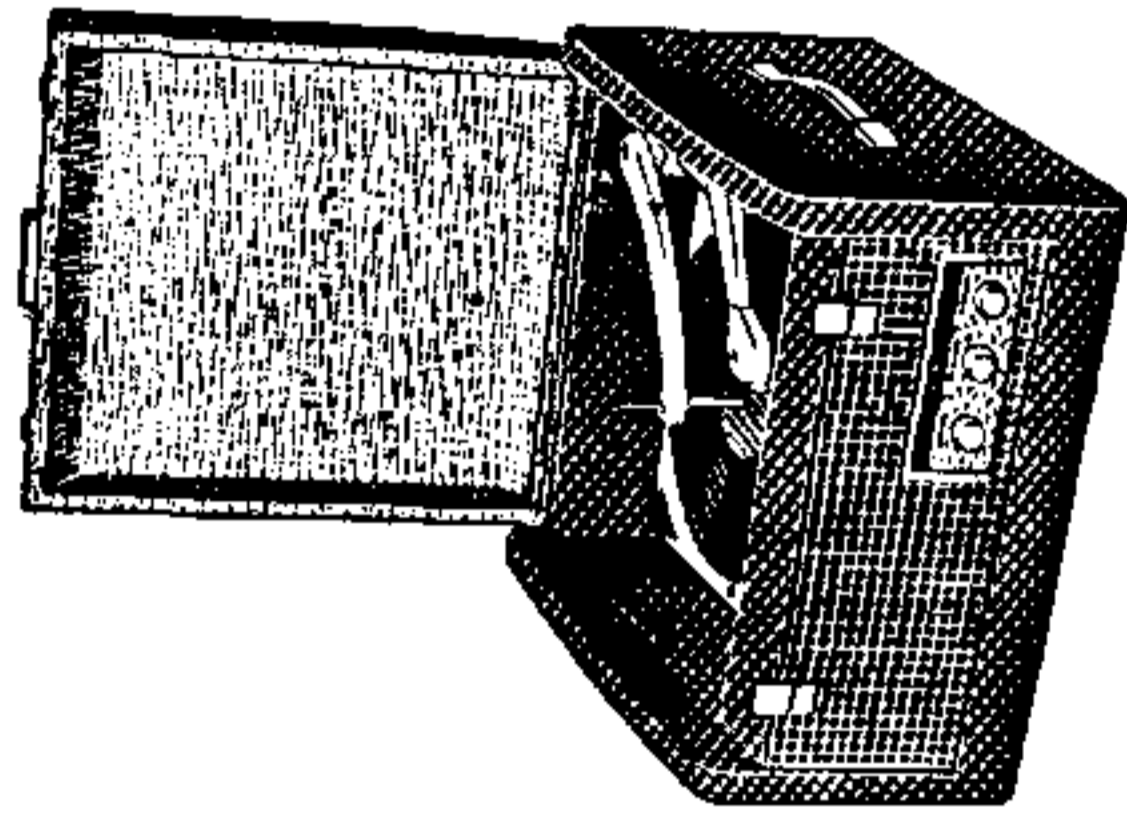
AUTO-CHANGE UNIT : Two models are available, one fitted with a Garrard 120 Mk.2 auto-change unit and the other with a Collaro Conquest auto-change unit.

CONTROLS : Three controls are provided on a panel at the front as follows :—

Left TREBLE, Centre BASS, Right VOLUME ON/OFF. Additional controls, on the auto-changer, operate the motor on/off and speed. The pick-up is provided with a turn-over head for standard or long playing records.

CIRCUIT DETAILS : The output from the pick-up is fed through the bass and treble filter network, in which R2 is the BASS control and R3 the TREBLE control, to the VOLUME control R5. This is a tapped control with C10 connected between the tap and chassis to provide increased bass response at low volume. VIA forms a conventional A.F. voltage amplifier stage and is directly coupled to the phase splitter valve V2A.

V1B and V2B form a push-pull audio amplifier circuit the input of which is taken from the cathode and anode of V2A via C5 and C6 respectively. Coupling to the loud-speaker is by the transformer T2. C12, across the primary of T2, prevents instability at high frequencies. Negative feedback is provided from the secondary



Ned. Ver. v. Historie v/d Radio

VALVE BASE DATA

Valve	1	2	3	4	5	6	7	8	9	Base
V1, V2	—	At	Ge	Kc	H	A	KG3	G2	G1	B9A

VOLTAGE AND CURRENT DATA

Valve	Anode		Screen		Cathode	
	Volts	mA	Volts	mA	Volts	mA
V1A	58	0.5	—	—	0.17	0.5
V1B	228	31	175	5.8	13.8	36.8
V2A	120	0.5	—	—	50	0.5
V2B	228	31	175	5.8	13.8	36.8

D.C. RESISTANCE OF WINDINGS

Component	Ohms	Part No.
T1 Pri.	76	
" H.T. Sec.	132	SA5653
" L.T. Sec.	*	
T2 Pri.	400	
" Sec.	*	SA5652

* Less than 1 ohm.

OTHER COMPONENTS

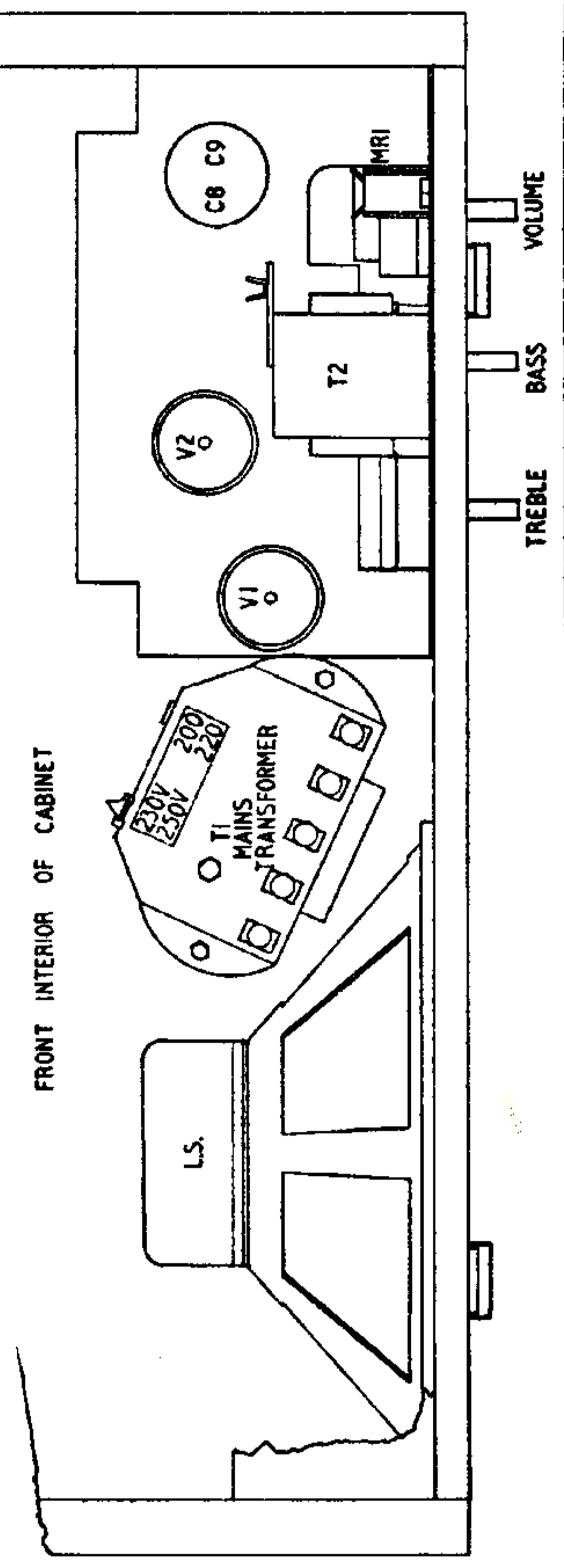
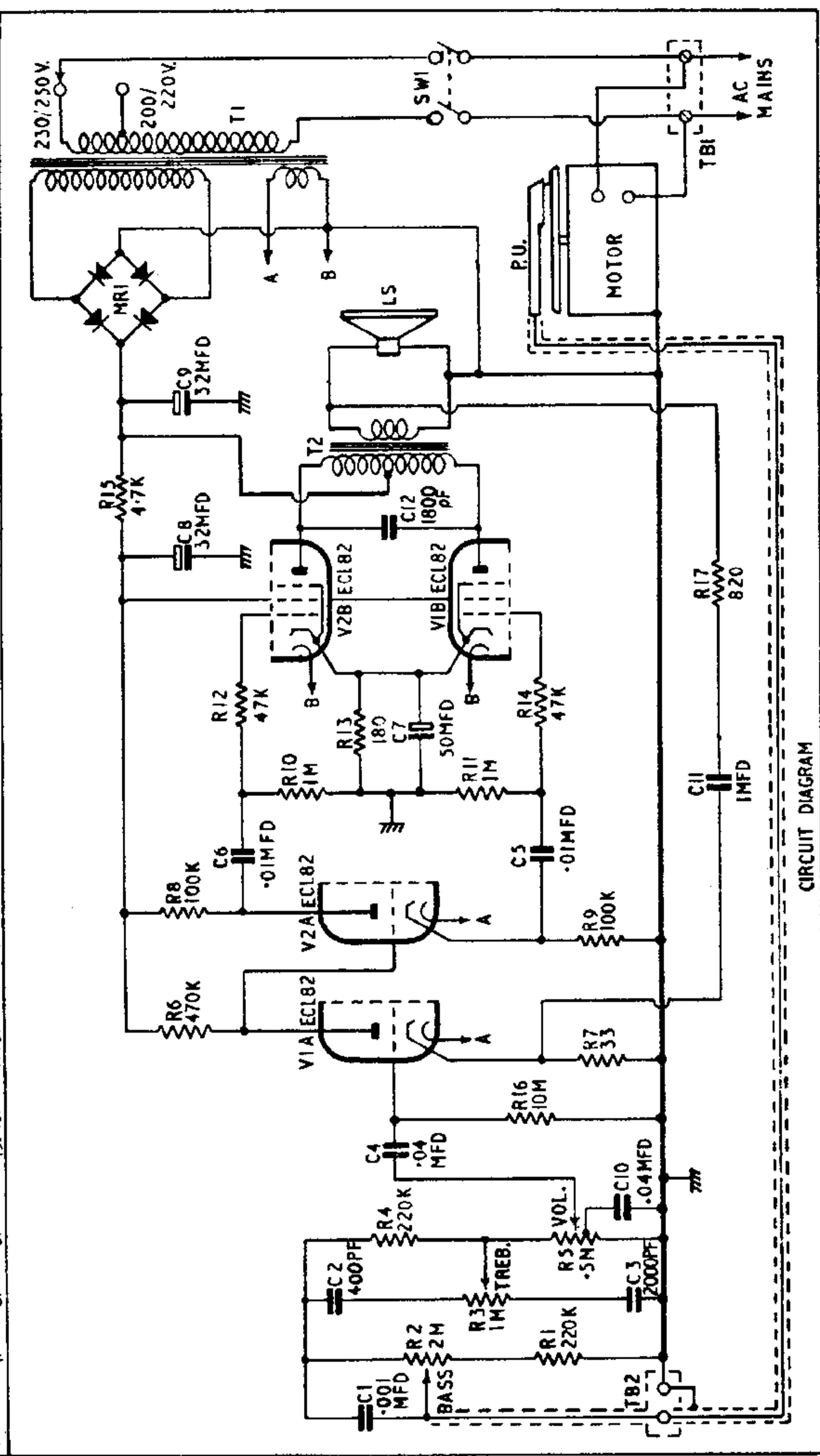
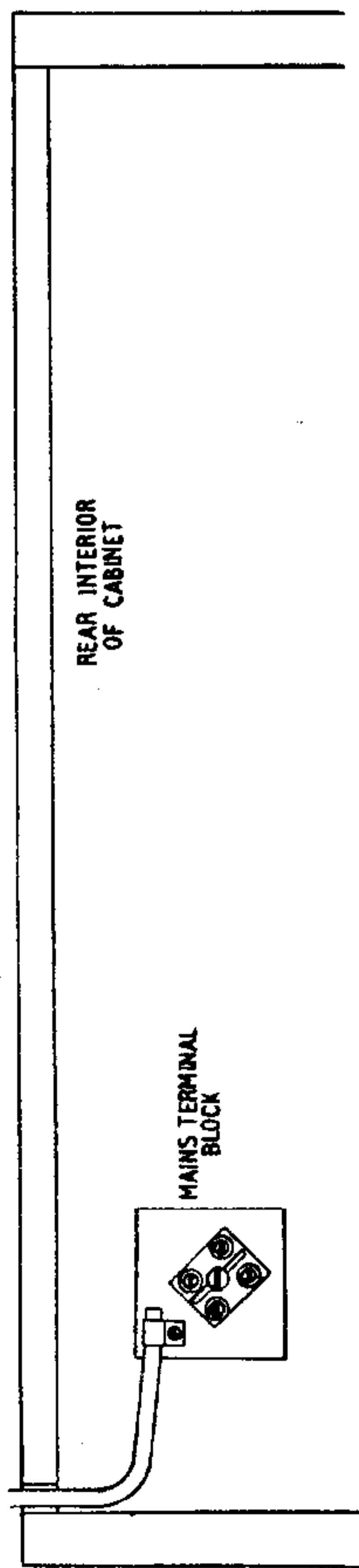
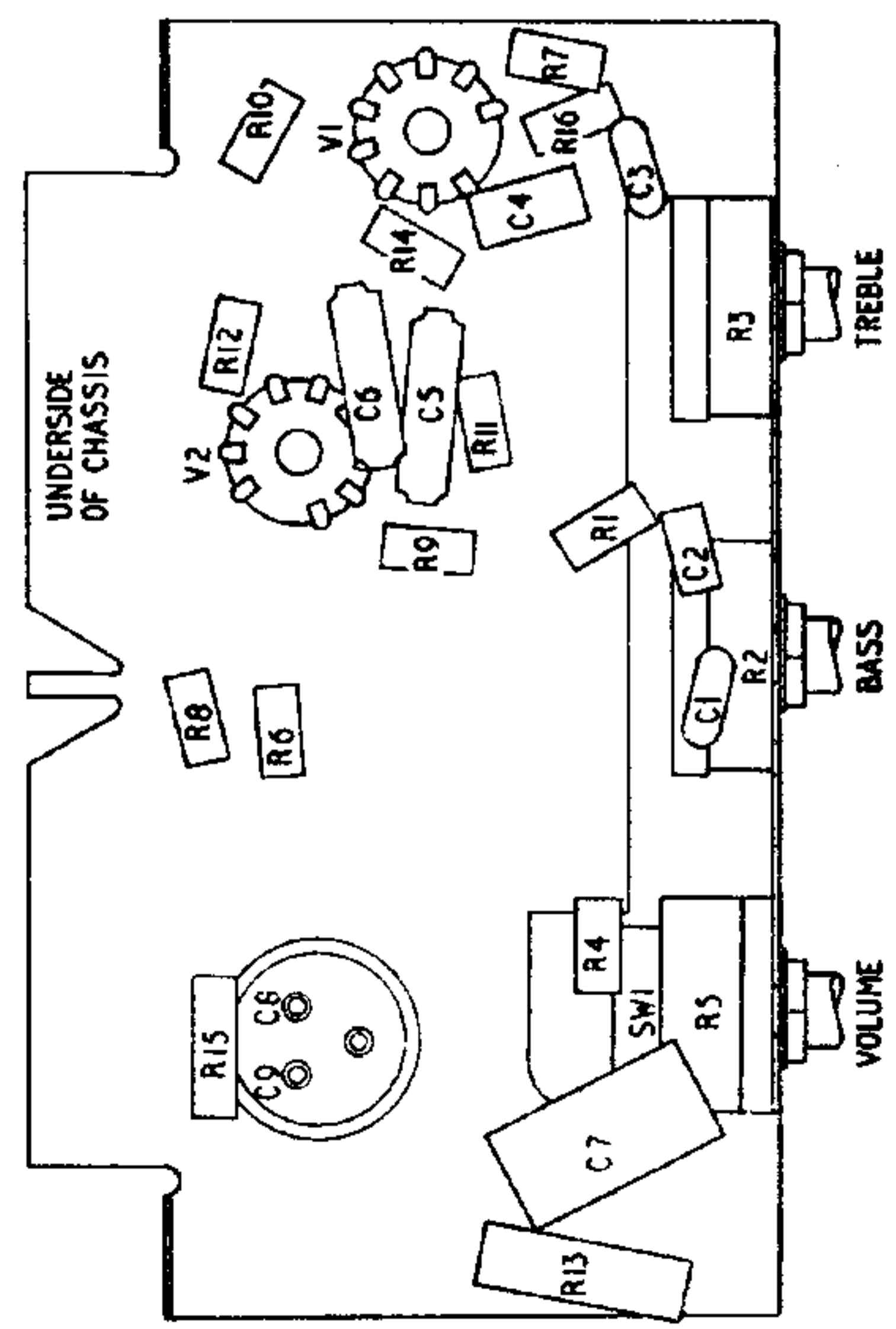
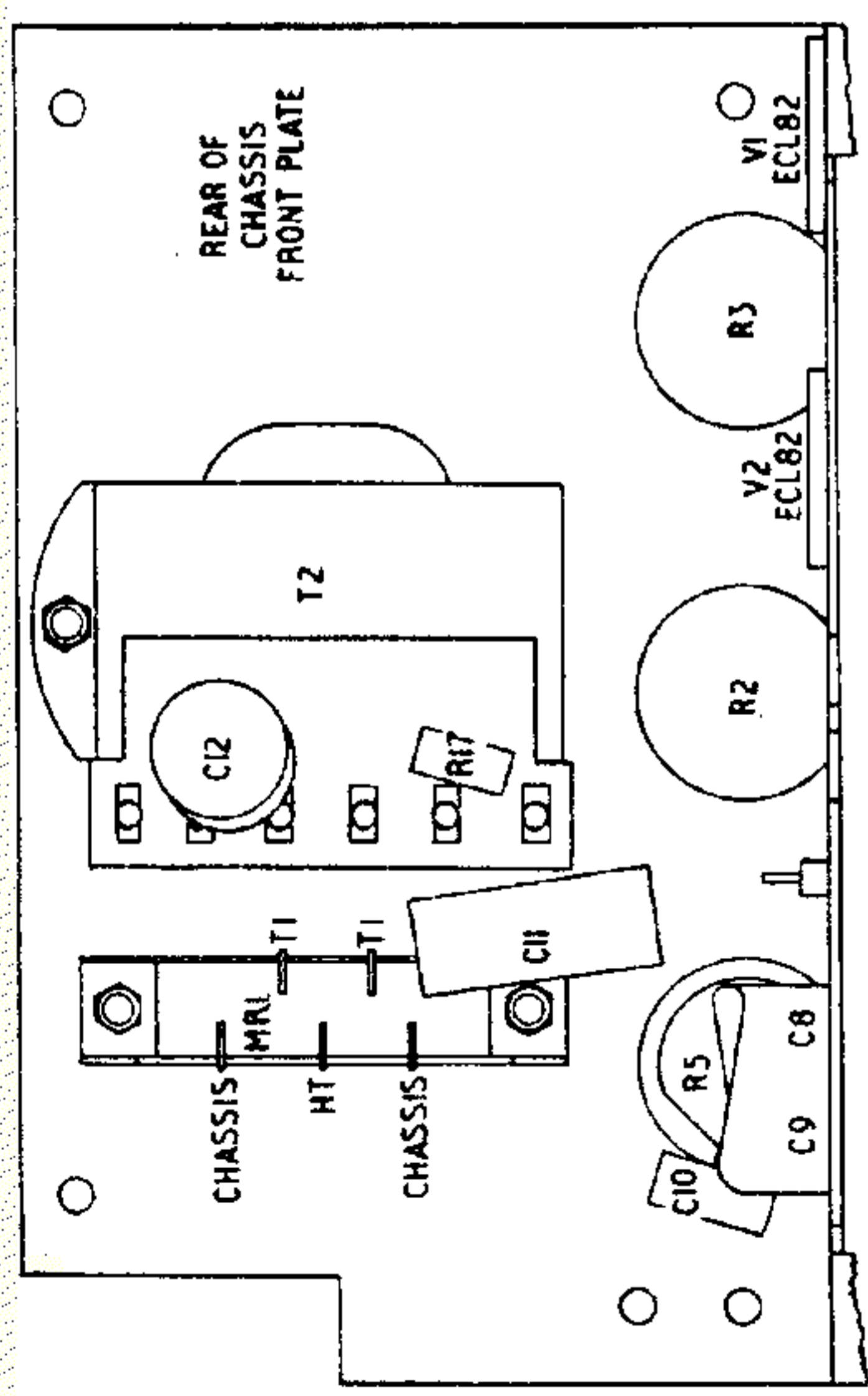
Component	Circuit Ref.	Part No.
H.T. Rectifier	MRI	B108297
Volume Control	R5 and SW1	C108296
Loud-speaker		D108288
Knob		DP24917

of T2 through R17, C11 to the cathode of V1A. Power supplies originate from the mains transformer, T1, which has a tapped primary and two secondary windings. The H.T. winding feeds the full wave metal rectifier, MRI, and smoothing is by R15, C8 and C9. The L.T. winding on the transformer supplies 6.3V to the valve heaters.

CHASSIS REMOVAL : Replacement of valves may be effected after removing the small panel as for mains adjustment. To dismantle further, disconnect the receiver from the mains supply then remove the four screws securing the motor board to the cabinet. Gently lift the front of the motor board then disconnect the motor mains lead from the terminals at the rear of the cabinet base and unsolder the pick-up leads from the terminals on the auto-change unit. The auto-change unit may now be withdrawn. Remove the three control knobs, first slackening the grub-screws, then remove the four screws securing the chassis to the front of the cabinet. This allows the chassis to be placed at any convenient angle on the base of the cabinet for component testing and replacement.

The transformer and chassis may be removed from the cabinet as a complete unit. First unsolder the loud-speaker leads then disconnect the transformer supply lead from the terminal block and remove the screws securing the transformer to the base of the cabinet. The unit is then free and may be withdrawn without disturbing the inter-connecting leads between the transformer and chassis.

C1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



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