DECCA

DECCALIAN

Model 81

General Description: Portable, dual-speed $(33\frac{1}{3})$ and 78 r.p.m.), record player with self-contained amplifier and loudspeaker in laminated wood case covered with leather cloth. Weight 33 lb.

Power Supply: A.C. mains, 200-250 volts (three adjustment taps),

50 c/s.

Valves: (V1) 6SL7; (V2) 6V6G; (V3) 5Z4G.

Motor: Constant-speed induction motor with dual-speed drive.

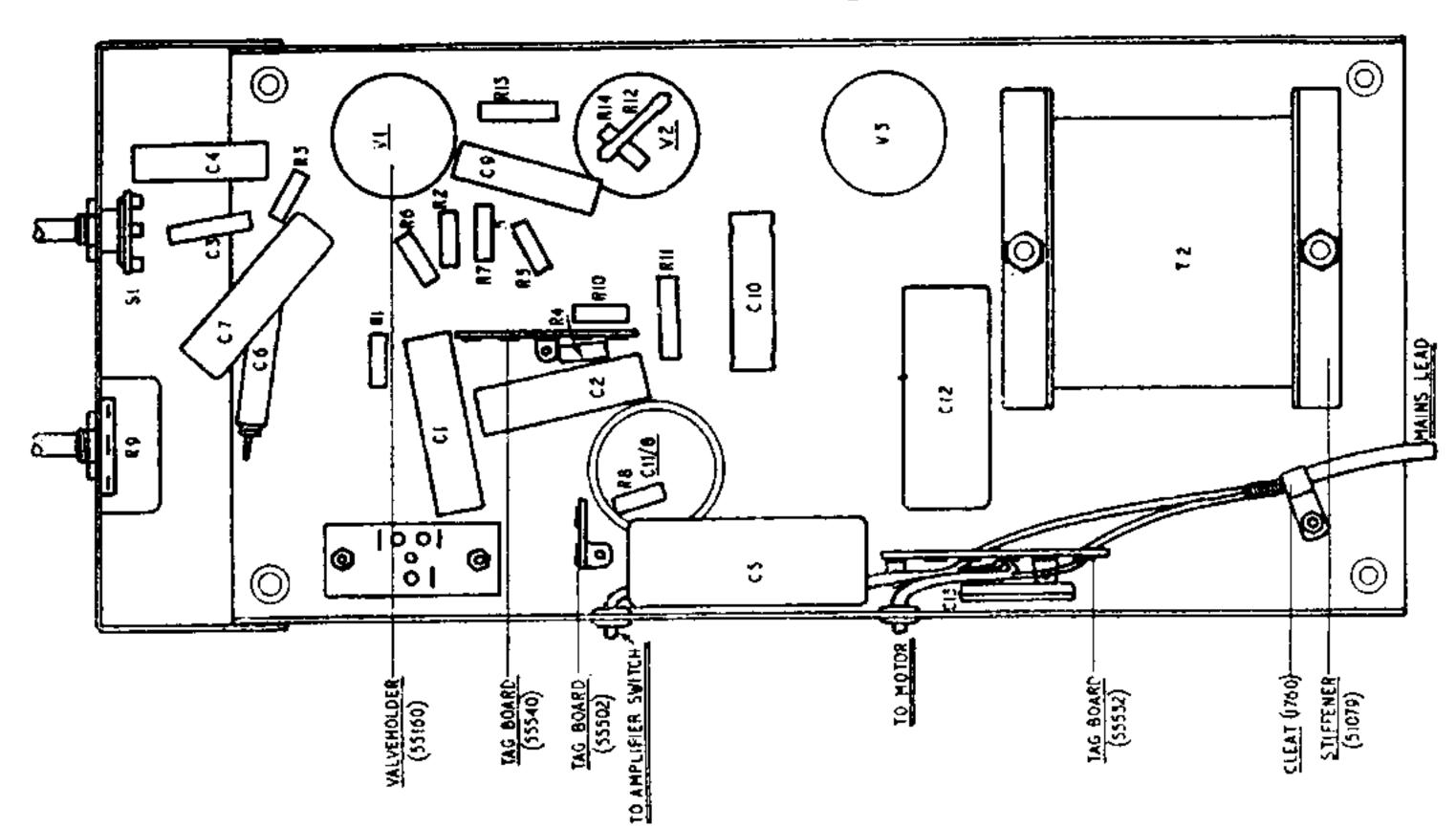
P.U.: Two interchangeable plug-in heads with sapphire styli: red for $33\frac{1}{3}$ r.p.m.; brown for 78 r.p.m. Automatic weight and circuit compensation when changing speed. Spring-balanced arm.

Ext. Loudspeaker: Impedance 3 ohms.

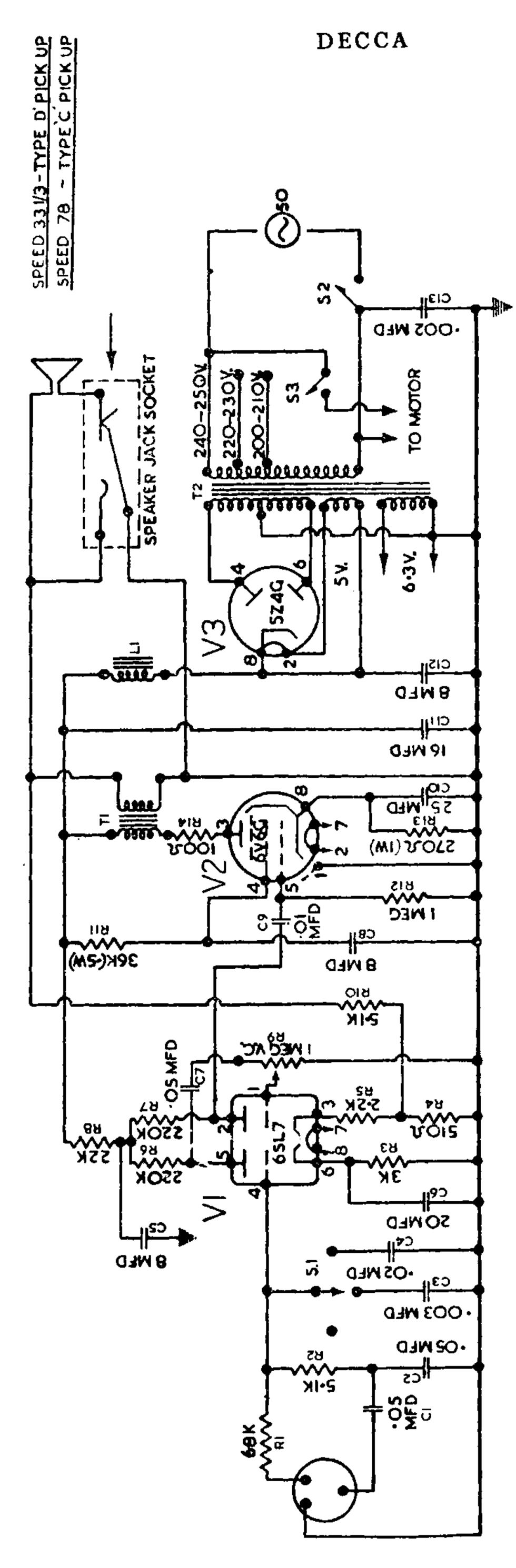
Circuit Notes: The 78-r.p.m. pick-up head has a connecting link that joins CI to chassis to provide correct bias compensation. SI forms a three-position top-cut tone control. The first section of the double-triode VI forms a conventional voltage amplifier, while the second section has negative feedback applied by the absence of by-passing on the cathode-bias resistors, and by the feedback link through RIO. The power amplifier (V2) has an anode stopper (RI4) and reduced screen voltage by the action of RII. The secondary voltage of the output transformer is connected to the internal loudspeaker via a jack socket: inserting a jack plug for an external loudspeaker automatically disconnects the internal one. The secondary voltage of TI is also reduced and applied as negative feedback to VI by RIO/R4.

Modifications: The 22-kilohm decoupling resistor (R8) is now con-

nected to C8 instead of to C11 in order to improve stability.



Under View of Chassis



ALL RESISTORS .25 WATT EXCEPT WHERE OTHERWISE DENOTED PICK-UP INPUT SOCKET IS VIEWED FROM OUTSIDE OF CHASSIS

CIRCUIT DIAGRAM—DECCALIAN MODEL 81

All resistor values and	watta		ge ratings are shown on the circuit diagram.	ram.	Capaci	Capacitor details are as follows:	
	J	900	250-v. wkg. (paper tubular)	83	œ	500-v. wkg. (electrolytic)	
	30		350-v. wkg. (paper tubular)	රි	10.0	350-v. wkg. (paper tubular)	
	30	~	350-v. wkg. (midget tubular)	C_{10}	25	wkg.	
	ිට		rooo-v. wkg. (paper tubular)	CII	91	450-v. wkg. (electrolytic)	
	Š		500-v. wkg. (electrolytic)	CIZ	œ	wk	
	9	20	12-v. wkg. (electrolytic)	Cr_3	0.003	(moulded mica)	
	C3	0.02	350-v. wkg. (paper tubular)				