

K-B

Model HG35

General Description : Five-valve (including rectifier), three-waveband superheterodyne radiogramophone for use with record speeds of 78, 45 and 33½ r.p.m. Released December 1952.

Power Supply : A.C./D.C. mains, 200–250 volts, A.C. 50 c/s. (two adjustment positions).

Power Consumption : Radio 60 watts; gramophone, 80 watts.

Wavebands : L.W. 880–2100 m. (340–142 kc/s.); M.W. 187–570 m. (1610–525 kc/s.); S.W. 16.3–51 m. (18.4–5.8 Mc/s.).

Audio Output : 3.25 watts to a 10-in. high-flux permanent-magnet loudspeaker of 3 ohms impedance.

Intermediate Frequency : 422 kc/s.

Dial Lamps : 6 volts, 0.2 amp. M.E.S. type.

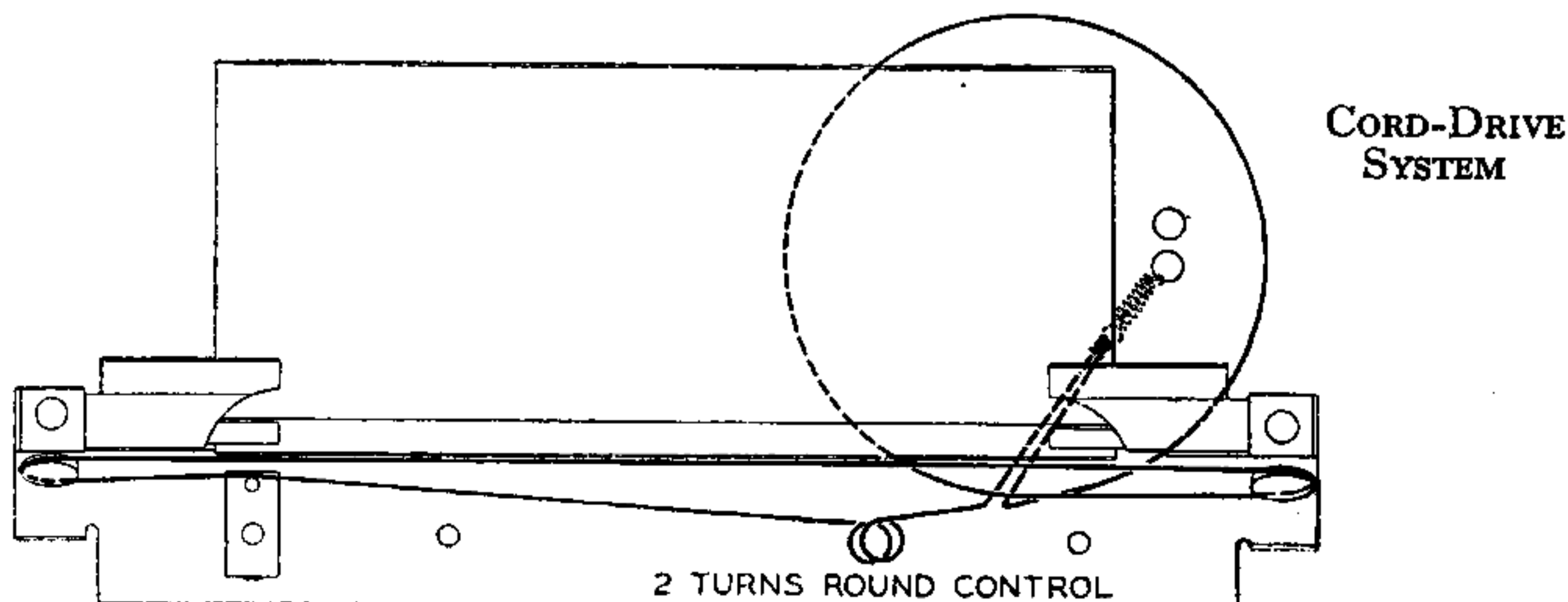
Gramophone Equipment : Garrard RC75 A.C./D.C. changer, Cosmo-cord pick-up type GP19U (white spot), fitted with Compromise needle to operate from all speeds.

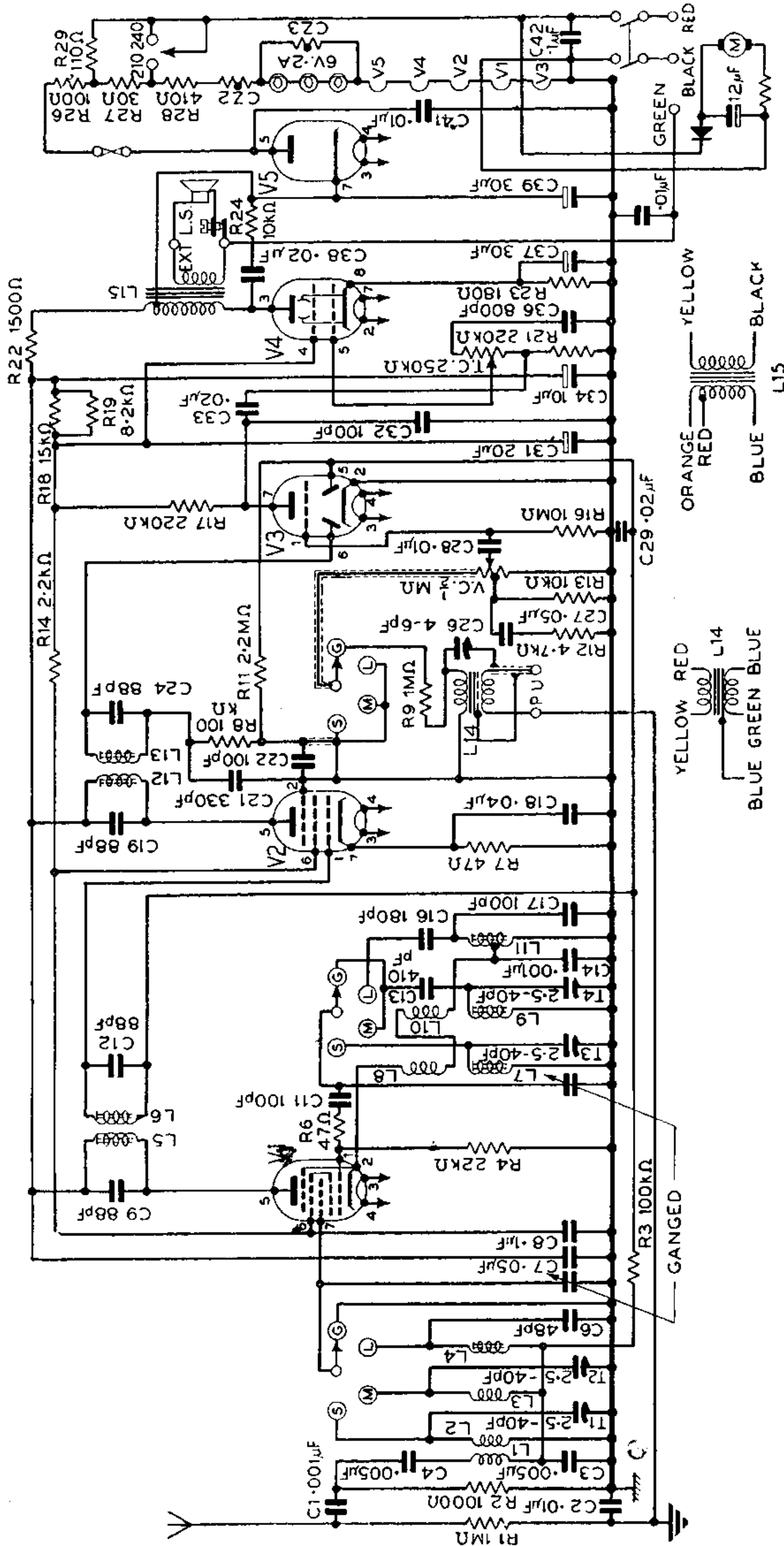
Alignment Procedure : The alignment procedure is similar to Model HR10. *Warning*—Chassis may be live when receiver is connected to mains.

Valve Analysis : The following readings were taken with the bandswitch to M.W., volume control at minimum gain, aerial and earth disconnected. Mains voltage, 240 volts. Receiver adjusted to 240-volt tap. Total mains current, 220 mA.; H.T. current 69 mA. Voltage across 1st Electrolytic capacitor (C39), 210 volts.

Valve	Volts Measured between Socket and Chassis							
	Pin 1	2	3	4	5	6	7	8
V1 12BE6	SN	—	H	H	177	92	SN	—
V2 12BA6	SN	—	H	H	177	92	0.5	—
V3 12AT6	SN	—	H	—	SN	SN	46	—
V4 50L6GT	—	H	195	114	—	92	H	8.7
V5 35W4	200	—	H	H	210 A.C.	H	210	—

SN, slightly negative; H, heaters.





CIRCUIT DIAGRAM—K-B MODEL HG35

The 0.01-μF. capacitor between the green mains lead and chassis was omitted in early models.

D.C. Resistance of Inductors.

L1	Less than 1	L5	20
L2	Less than 1	L6	20
L3	3.4	L7	Less than 1
L4	18	L8	Less than 1
		L9	Less than 1

L10	4.4
L11	8
L12	20
L13	20
L14 (Pri.)	3000

L14 (Sec.)	4000
L15 (Pri.)	Anode to tap 350
L15 (Pri.)	Tap to finish 14
L15 (Sec.)	Less than 1