

REGENTONE**Model ARG349**

General Description : Five-valve (including rectifier), three-waveband superheterodyne automatic radiogramophone. Released July 1949.

Power Supplies : A.C. mains, 110-130 and 200-250 volts, 50 c/s. Consumption 40 watts.

Wavebands : S.W. 14.9-50 m. (19.5-6 Mc/s.); M.W. 180-550 m. (1666-550 kc/s.); L.W. 900-2000 m. (330-150 kc/s.).

Audio Output : 3 watts.

Intermediate Frequency : 465 kc/s.

Valves : (V₁) 7S7; (V₂) 7B7; (V₃) 7C6; (V₄) 7C5; (V₅) 7Y4. In some models V₃ is 7B6.

Dial Lamps : Two 6.5 volts, 0.3 amp.

Ext. Loudspeaker : Impedance 2.5 ohms.

Gram. P.U. : High-impedance or crystal types.

Gram. Motor : Garrard RC70A and RC70B.

Circuit Modifications : In early models the rectifier heater supply was obtained from the common secondary on the mains transformer, later a separate winding was added. In later models the oscillator padders were locked with spring wire clips in place of 6 B.A. nuts.

Alignment Procedure :

Equipment : Modulated signal generator. Output meter to match 2.5 ohms. Small screw-driver. 6 B.A. Box spanner. Non-inductive trimming tool. For R.F. adjustments inject signals via dummy aerial. Output should be maintained at 50 mW. Set volume at maximum gain and tone control fully anti-clockwise. All operations to be repeated till no further improvement is obtained.

I.F. : Switch to M.W. gang closed. Inject 465-kc/s. signal into control grid of V₁. Adjust cores in I.F.T.₂ (bottom first) then I.F.T.₁ (bottom first) with non-inductive screw-driver, till no further gain is obtained.

L.W. : Switch to L.W. Adjust pointer with gang fully open to cover the datum marks (two black spots on scale). Tune to 1000 m. and inject 150-kc/s. signal. Adjust core of L₆ from top of chassis, afterwards locking with 6 B.A. nut if fitted.

M.W. : Switch to M.W. Tune to 200 m., inject 1500-kc/s. signal and adjust VC₇, then VC₂. Tune to 500 m., inject 600-kc/s. signal and adjust core of L₅.

S.W. : Switch to S.W. Tune to and inject 18-Mc/s. signal. Adjust VC₆, then VC₁, rocking gang. Tune to 6 Mc/s. and adjust core of L₄. Choose least capacity position on VC₆.

	Anode	Screen	Osc. Anode	Cathode
V ₁	220 v.	85 v.	105 v.	—
V ₂	220 v.	100 v.	—	—
V ₃	85 v.	—	—	—
V ₄	205 v.	220 v.	—	9.2 v.
V ₅	260 A.C.	—	—	275 v.

REGENTONE**Model ARG349U**

General Description : As for ARG349 but for A.C./D.C. supplies. Released July 1950.

Power Supply : A.C./D.C. mains, 200–250 volts, 40–100 c/s. Consumption 60 watts.

Wavebands : As for ARG349

Intermediate Frequency : 465 kc/s.

Audio Output : 2 watts.

Valves : (V1) 14S7; (V2) 7B7; (V3) 7C6; (V4) 35A5; (V5) 35Z3.

Dial Lamps : Two 3.3 volts, 0.15 amp.

Ext. Loudspeaker : Impedance 2.5 ohms.

Gram. P.U. : High impedance or crystal types.

Gram. Motor : Garrard RC65A U16.

Alignment Procedure : As for ARG349.

Voltage Checks : Measured on Avo Model 7 testmeter. Chassis negative.

	<i>Anode</i>	<i>Screen</i>	<i>Osc. Anode</i>	<i>Cathode</i>
V1	240 v.	92 v.	95 v. (operative) 58 v. (inoperative)	1.7 v. (operative)
V2	240 v.	92 v.	—	2.3 v.
V3	92 v.	—	—	1.18 v.
V4	230 v.	92 v.	—	5.4 v.

REGENTONE**Model RG58U**

General Description. Five-valve (including rectifier), three-waveband superheterodyne radiogramophone. Released May 1951.

Power Supply : A.C./D.C. mains, 200–250 volts.

Wavebands : As for ARG57.

Intermediate Frequency : 465 kc/s.

Valves : As for ARG349U.

Ext. Loudspeaker : Impedance 2.5 ohms.

Gram. P.U. : High impedance.

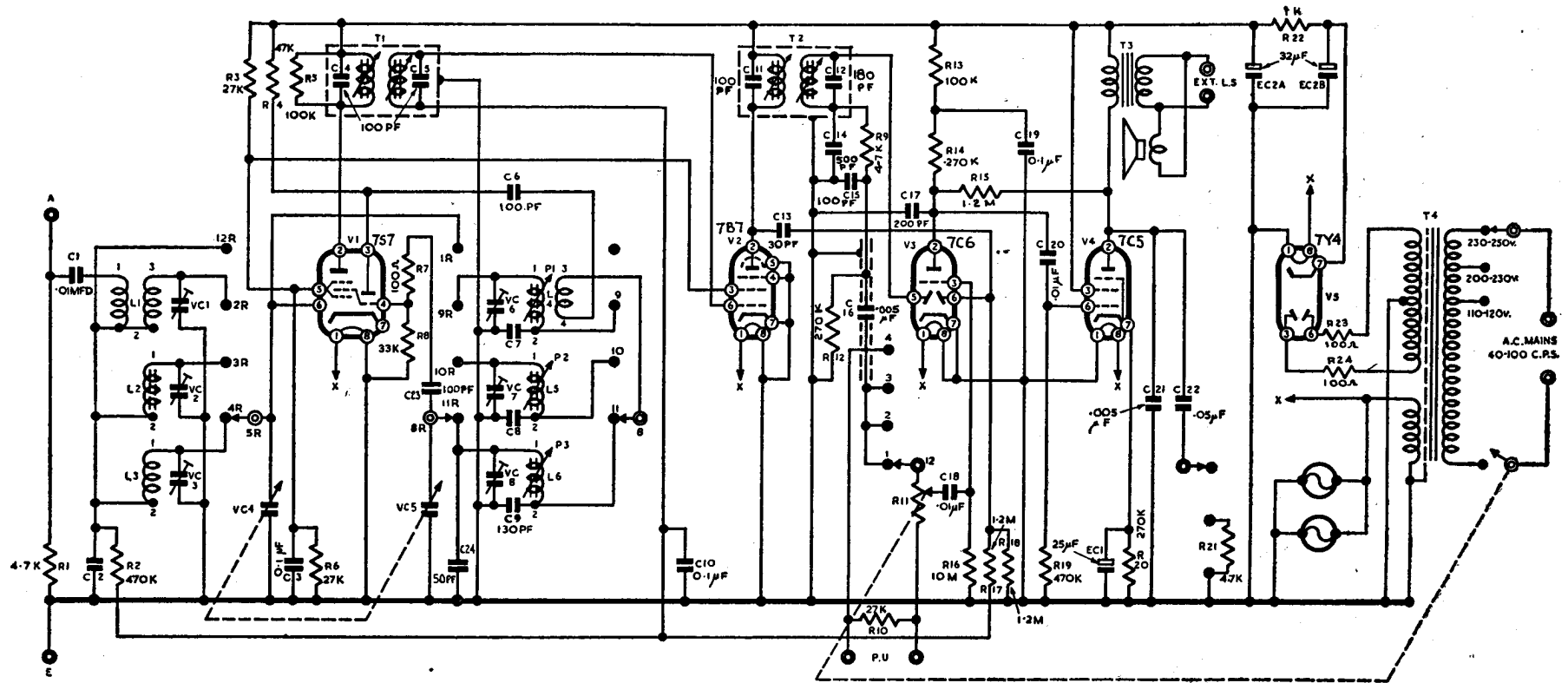
Gram. Unit : Garrard U5 single-record player.

Circuit Diagram : As for ARG349U.

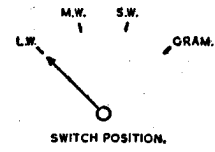
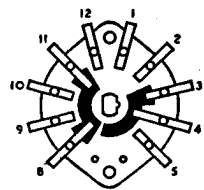
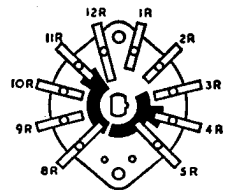
Circuit Modifications : As for ARG349U.

Alignment Procedure : As for ARG349U.

Voltage Checks : As for ARG349U.

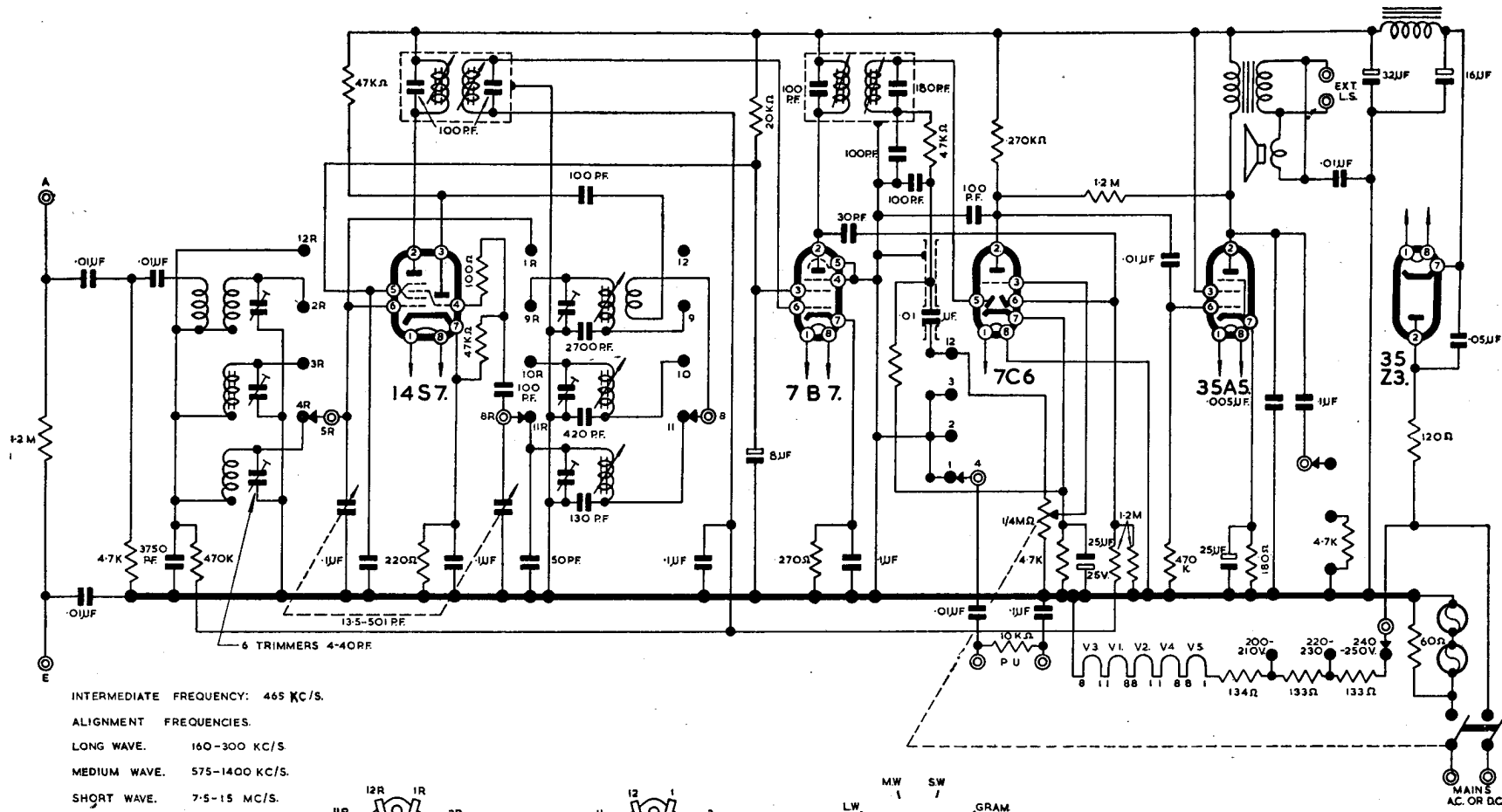


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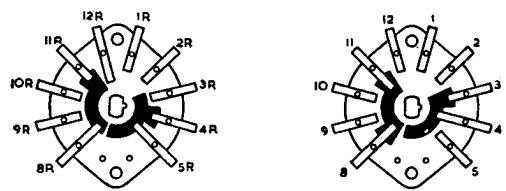


SWITCH WAFER AS SEEN WHEN LOOKING AT UNDERSIDE OF CHASSIS.

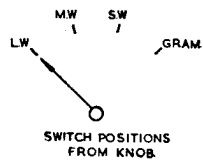
CIRCUIT DIAGRAM—REGENTONE MODEL ARG349



INTERMEDIATE FREQUENCY: 465 KC/S.
 ALIGNMENT FREQUENCIES:
 LONG WAVE. 160-300 KC/S.
 MEDIUM WAVE. 575-1400 KC/S.
 SHORT WAVE. 7.5-15 MC/S.



SWITCH WAFER AS SEEN WHEN VIEWING CHASSIS FROM UNDERSIDE



CIRCUIT DIAGRAM—REGENTONE MODEL ARG349U

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