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RADIO CORPORATION PTY. LTD.

126-130 GRANT STREET, SOUTH MELBOURNE, S.C.4. DIVISION OF ELECTRONIC INDUSTRIES LTD.

TECHNICAL BULLETIN

MICROGRAM MODEL "GML"

5-Valve Superheterodyne Broadcast Receiver

A. 3-speed (333, 45 and 78 R.P.M.) Single Record Player

For operation from:-

Power Trans. Primary Mains Taps: 200-220V. and 221-250V. Power Consumption:-

Radio Operation:- 40 Watts.-approx.

200-250 Volts 50 Cycle AC Supply Mains.

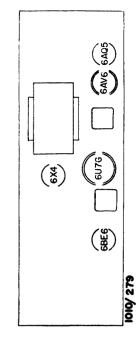
Gramo Operation:- 60 Watts.-approx.

Tuning Range:-

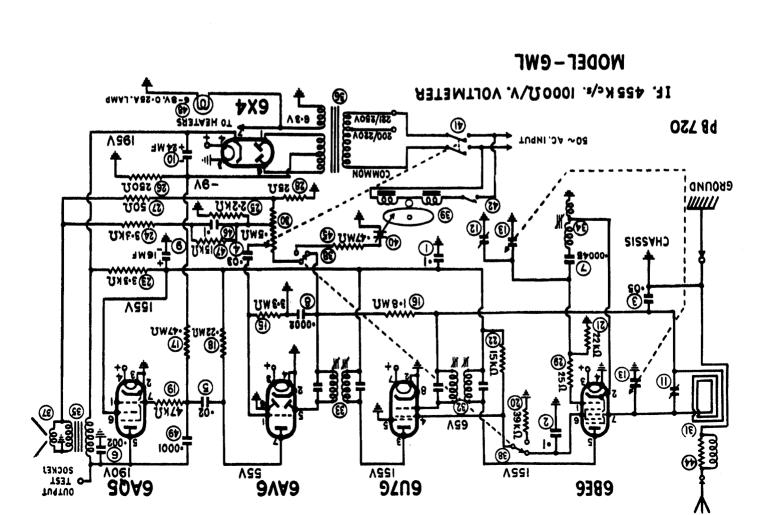
535-1610 Kc/s.: 560.7 - 186.3 Metres.

This Bulletin contains:-

Alignment Procedure Circuit Diagram



VALVE PLACEMENT DIAGRAM



ALIGNMENT PROCEDURE

EQUIPMENT ALIGNMENT CONDITIONS

Dummy Antenna Mica Capacitor : 0.01MF (for I.F. trans. alignment) Output Meter: Signal Generator: : 200MMF. Mica Load Impedance : 5,500 0hms when connected across output meter is secondary. speaker transformer

Alignment Tools: Type M195 and PM581.

Output Level Vol. Control Intermed. Freq.: 455 Kc/s.
Input Voltage : 230 Volts 50 Cycle Load Impedance : 4 Ohms when output meter is : 50 Milliwatts Max. Vol. fully clockwise speaker transformer connected across AC. input to trans.

2 -Remove push-on type control knobs.

221-250 volt pri. tap.

- Fasten clip on to pick-up arm.
- ÿ Remove two screws, cup washers and rubber washers situated each side of motor mount plate near side of cabinet.
- Prise up motor mount plate with motor attached.
- 5 Disconnect pick-up lead plugs from their sockets.
- 6 Unsolder AC. leads to motor at the terminal strip or unfasten the leads inside the switch terminal box on the motor mount plate.
- 7 Remove two screws fastening loop aerial to cabinet.
- œ Remove the nut and washers on each screw protruding through the two brackets on the rear of chassis and the nut and washer on each screw protruding through the two slotted brackets on the front of the chassis.
- 9. Tilt chassis on its power transformer end.

Opera tion	- Generator Connectio	Opera-Generator Generator Dummy tion Connection Frequency Antenna	Dummy Antenna	Instructions
No. T	No. 10. To control	455 Kc/s.	455 Kc/s. 0.01MF. Mica	Leave grid cap on valve. Feak 2nd I.F.
O3 (79)	grid of 6U7G valve		capacitor in series with generator	trans. pri. and sec. for max. output.
11. T	<pre>ll. To control grid of</pre>	455 Kc/s.	0.01MF. Mica capacitor in	Turn cond. gang plates fully out of mesh. Leave grid wire attached to
~ 6	(pin No. 7)		series with generator	valve socket. Peak 1st I.F. trans. pri. and sec. for max. output.
12.				Repeat operations No. 10 and 11.
13 R	apit chace	ie to ophine	+ and make the	13. Refit chassis to cabinet and make sume the mits of the minute

- 13. Kerit chassis to cabinet and make sure the nuts on the mount screws are tightened securely.
- 14. Refit push-on type control knobs
- 15. Refit loop aerial to cabinet.
- 16. Fully mesh the cond. gang. plates and set the centre of the control knob pointer to align with the centre of the end of travel mark on the dial reading near 540 Kc/s.

tion Opera-Generator Generator Dummy Connection Frequency Antenna

Instructions

18. To AVC end 1400 Kc/s. of loop aerial (outside turn of sec.)	17. To AVC end 600 Kc/s. of loop aerial (outside turn of sec.)
200 MMF Mica capacitor in series with generator	200 MMF Mica capacitor in series with generator
Turn cond. gang and control knob pointer to 1400 Kc/s. Adjust oscl. coil trim. condenser for logging and peak loop aerial trim. cond. for max. output. The loop aerial must be in its mounted position when the loop trimmer is being peaked.	Turn cond. gang and control knob pointer to 600 Kc/s. and peak the oscl. coil ind. trim (iron core) for max. output. Rock the gang to and fro through the signal while adjusting.

- 19. Repeat operations No. 17 and 18
- 20. Refit motor assembly to cabinet in exact reverse procedure to removing it.

LOOP AERIAL

OSCL. COIL

Inside turn - EARTH SOCKET AND CHASSIS Outside turn - AERIAL LOADING COIL Primary (3 turns)

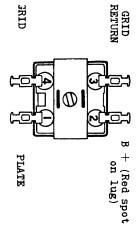
Outside turn - AVC. Inside turn - GRID.

Secondary

GRID - Series Pad (Red spot under lug) CHASSIS CATHODE

CATHODE

No. 1 I.F. TRANS.



No. 2 I.F. TRANS

