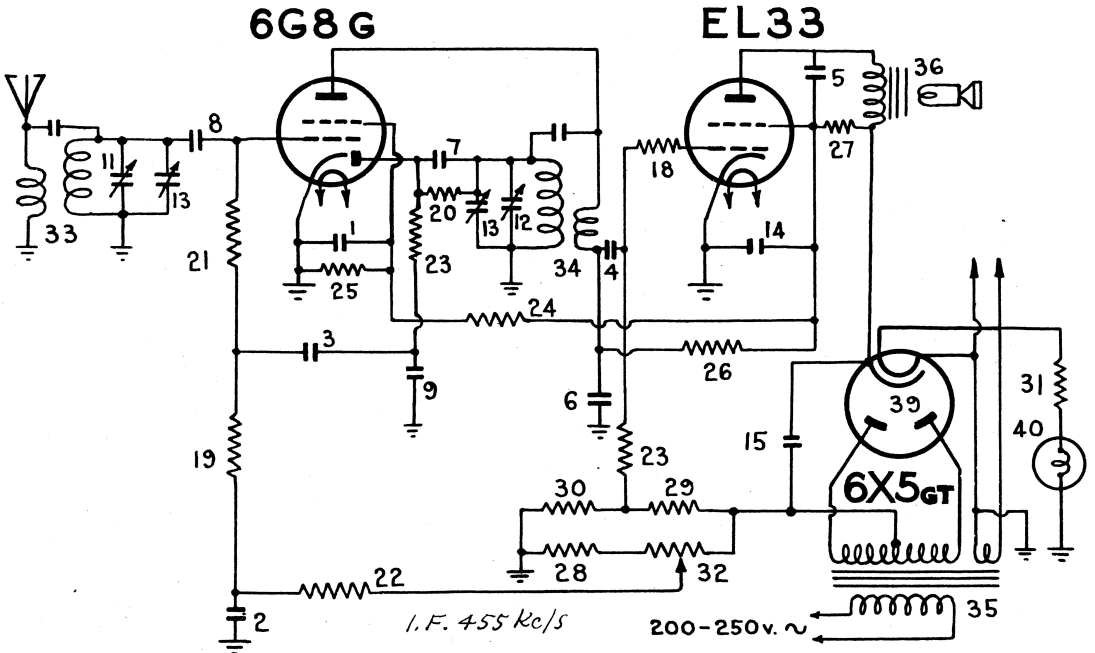
NATIONAL RADIO

Manufactured by National Radio Corporation Ltd., Adelaide.

NATIONAL GLP

3-V., T.R.F., B/C.



1.	.05MFD Paper condenser	±20%	200V	PC 102
2.	.05MFD " "	±20%	200V	PC 102
3.	.01MFD " "	±20%	600V	PC 140
4.	.01MFD " "	±20%	600V	PC 140
5.	.01MFD " "	±20%	600V	PC 140
6.	.0005MFD Mica Con.	±10%	1000V.T.	PC 144
7.	.0001MFD " "	±10%	1000V.T.	PC 571
8.	.0001MFD " "	±10%	1000V.T.	PC 571
9.	.00005MFD " "	±10%	1000V.T.	PC 572
11.	Half-plate Mica con. trim.			PC 737
12.	" " " " "			PC 250
13.	2 gang var. con.			PC 635
14.	16MFD elect. con.	±20%	350V.P.	PC 275
15.	16MFD " "	±20%	525V.P.	PC 659
18.	100,000 ohm car. res.	±10%	½W.IRC.BT½	PR 103
19.	3 megohm car. res.	±10%	½W.IRC.BT½	PR 282
20.	3 megohm car. res.	±10%	½W.IRC.BT½	PR 282
21.	1.75 megohm car. res.	±10%	½W.IRC.BT½	PR 248
22.	1 megohm " "	±10%	½W.IRC.BT½	PR 246
23.	500,000 ohm " "	±10%	½W.IRC.BT½	PR 245
24.	200,000 " " "	±10%	1W.IRC.BT1	PR 414
25.	100,000 " " "	±10%	½W.IRC.BT½	PR 103
26.	70,000 " " "	±10%	1W.IRC.BT1	PR 617
27.	5,000 " " "	±10%	1W.IRC.BT1	PR 304
28.	2,000 " " "	±10%	½W.IRC.BT½	PR 253
29.	1,000 " wirewound res.	±10%	½W.IRC.BW½	PR 252
30.	200 ohm " "	±10%	½W.IRC.BW½	PR 176
31.	5 ohm " "	±10%	½W.IRC.BW½	PR 568
32.	25,000 ohm car. pot.	1 3/16" M.F.		PR 654

NATIONAL GLP

ALIGNMENT PROCEDURE

EQUIPMENT

Signal Generator.
Dummy Antenna - 40 mmfd cond.
Output meter.
Alignment tool:- Type PM581.

ALIGNMENT CONDITIONS

Load impedance - 8,000 ohms.

Output level - 50 milliwatts (Voice coil open circuit)
15 " (" " in ")

Volume Control - Full on.

A.C. Supply - 240 volts 50 cycles input to transformer 220-250 volt primary tap.

Dummy Antenna - During alignment the 40 mmfd dummy antenna is not connected in series with the 17 ft. aerial, but is connected directly to the aerial where it enters the chassis or cabinet by a fine pin inserted through the insulation of the aerial load. The aerial lead is to be fully rolled up into a small hank.

Operation No.	Generator Connections	Freq.	Dummy Antenna	
1	To antenna refer above	1400 KC	40 mmfd mica cond.	With gang plates fully meshed set dial pointer on the end of travel mark indicated by small dot on top of dial scale. Then set generator at 1400 KC. and tune receiver to this frequency. Adjust Ant. & R.F. Transformers for max. output.

Tuning range after alignment 540 - 1640 KCS.

VOLTAGE TABLE

EQUIPMENT

Volt Meter:-

1,000 ohms per volt with 0 - 250 volt and 0 - 10 volt scales.

Conditions of test:-

All voltages measured from tube socket contacts to chassis. 230 volts 50 cycle A.C. imput and receiver turned to off station position with volume control adjusted to max. volume position.

Valve	Filament	Plate	Screen	Grid	Cathode
6G8G	6.3	55	20	-1.5	0
EL33	6.3	165	165	-4.4	0
6X5GT	6.3	165	-	-	183

TUBE COMPLEMENT:-

TYPE 6G8G REFLEXED RF and AUDIO AMPLIFIER & DETECTOR.
TYPE EL33G PENTODE POWER OUTPUT.
TYPE 6X5GT FULL WAVE RECTIFIER.

TUNING RANGE:-

540 KC - 1640 KC.

POWER CONSUMPTION:-

Approx. 25 watts.

GENERAL DESCRIPTION:-

The Model "GLP" is a T.R.F. Receiver designed to give satisfactory reception of local broadcast stations. The 6G8G functions primarily as an R.F. amplifier the output of which is rectified at the diode. The audio component is then passed back through a resistance - capactive filter network to the grid of the 6G8G for further amplification at audio frequencies. The amplified audio frequencies are then coupled to the Power output valve in the conventional way. The aerial consists of 17 feet of stranded hookup wire which is matched to the primary of the aerial coil.