



HIS MASTER'S VOICE

Service Sheet

ISSUED BY SERVICE DIVISION, HIS MASTER'S VOICE (N.Z.) LTD., G.P.O. BOX 295, WELLINGTON.

525 semi cabinet
1952V

NEW "LITTLE NIPPER"

535/BC

also 545 1954?

A five valve superheterodyne receiver using loctal valves. Bakelite cabinet moulded in two sections.

CONTROLS: Tuning, Volume: On-Off, Tone—two position lever type switch.

VALVE COMPLEMENT—Mixer, 7S7; IF, 7B7; Detector Audio, 7C6; Power Output, 7C5; Rectifier, 7Y4.

VALVE SOCKET VOLTAGES—measured to chassis.

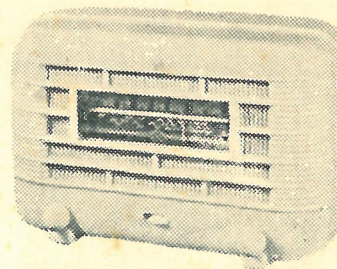
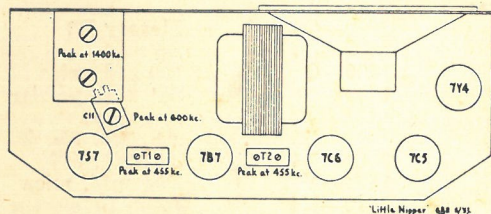
	Plate	Screen	Cathode
7S7 Mixer	170 ✓	100	0
7B7 IF	170	100	2.1
7C6 Det. Audio	60	—	—
7C5 Output	165	135	7
7Y4 Rectifier	—	—	175
7S7 Triode Plate	100 volts	—	—

Voltmeter 1000 ohms per volt. Volume control OFF. No applied signal.

FREQUENCY RANGE: 550 kc/s to 1500 kc/s.

POWER SUPPLY—AC mains only 230 volt—50 cycles.
Consumption .11 amp.

CABINET DIMENSIONS—Length 12in.; Height, 7½in.; Depth 5½in.



ALIGNMENT INSTRUCTIONS

With gang plates fully meshed, set dial pointer under left end of scale opening. Set output-meter to 50 milliwatt range and connect across speaker voice coil. Turn receiver volume control full on and keep output meter deflection at approximately half scale by reducing signal-generator output. Between the signal-generator output cable and the receiver, use for RF a dummy antenna and for IF use a .1 mfd. condenser.

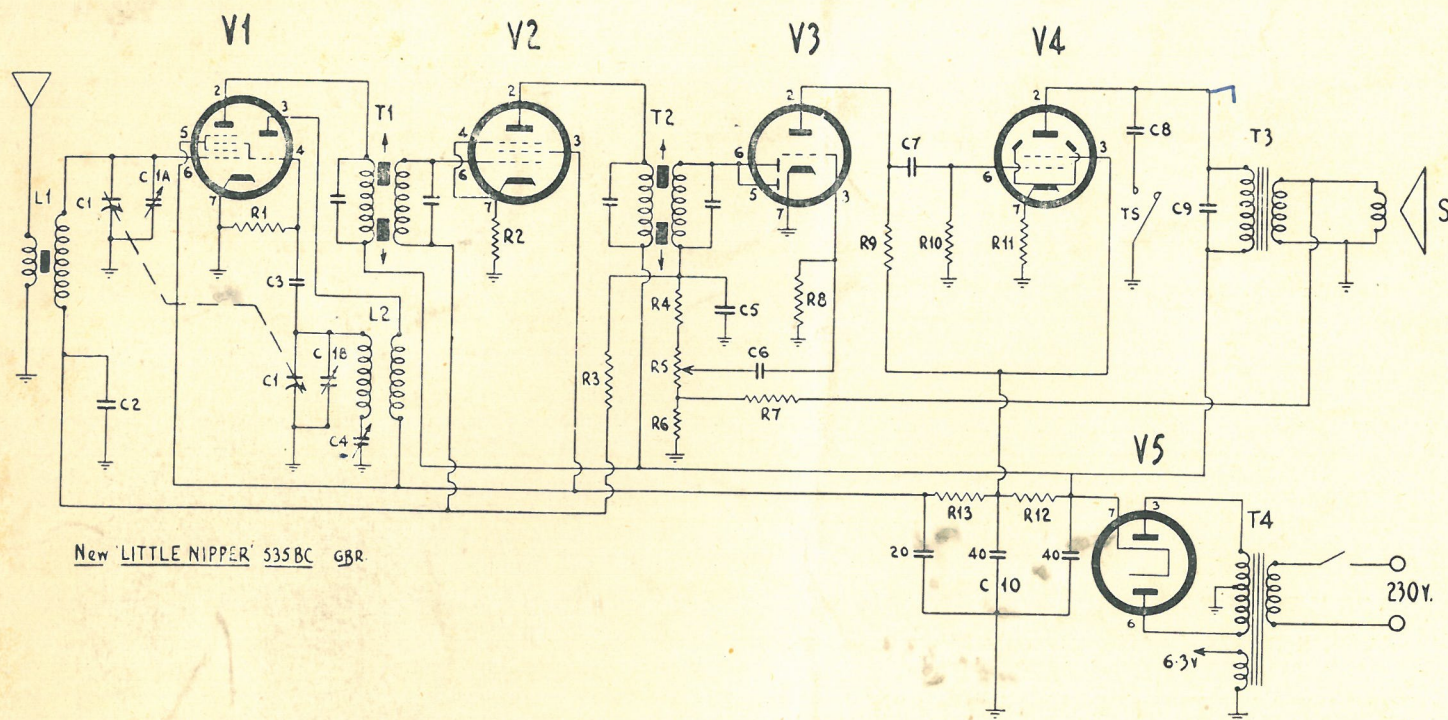
Connect Sig. Gen. to	Set Sig. Gen. to	Radio Dial Setting	Adjust	Adjust for
1. Grid lug of Aerial coil	455 kc	1500 kc	Screwed slugs of T1, T2.	Max. Output
2. Aerial lead	600 kc	600 kc 'rock gang'	CH 4	Max. Output
3. Aerial lead	1400 kc	1400 kc	Rear gang trimmer then Front gang trimmer	Max. Output

Repeat 2 and 3

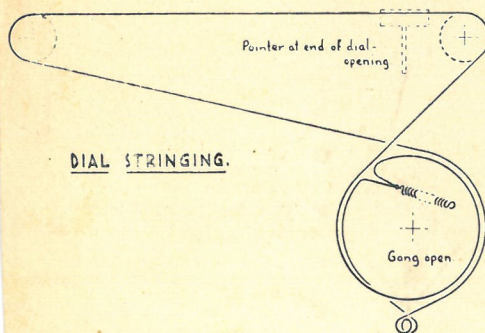
535 BC

Modifications above serial no 28970
aerial + osc coils have adjustable iron cores.

*TS
also
545*



New 'LITTLE NIPPER' 535BC GBR.



Condensers:

C1	1500—G5
C2	1500—A7
C315	1500—Q
C4	1500—09
C6	1500—A4
C7	1500—B5
C8	1500—B4
C9	1500—Y
C10	1500—N4

Resistors:

R1,4	1300—G2
R22	1300—S
R3	1300—S2
R5	PO 1110
R6	1300—B
R7	1300—G
R8	1300—K1
R9	1300—K4
R10	1300—I3
R11	1300—A5
R12,13	1300—D1

Valves:

V1	1400—R2
V2	1400—Q9
V3	1400—R1
V4	1400—R
V5	1400—R3
LA	1089

L1	CO—392
L2	CO—393
T1,2	TR—1160
T3	SP—229

T4	TR—137
TS	SW—105
S	SP—229

Store Pt. No.

Plessey R2
 .05 mfd.
 100 pfd. mica
 TP 11D padder
 .001 mfd. mica
 .01 mfd. 350V
 .01 mfd. 500V
 .004 mfd. mica
 40-40-20 electro 350WV.

50K 1/2W
 220 ohm 1/2W
 2.2 meg. 1/2W
 1/2 meg. pot. + switch
 10 ohm 1/2W
 100 ohm 1/2W
 10 meg. 1/2W
 250K 1/2W
 500K 1/2W
 330 ohm 1W
 3K 1W

757

157—Mixer
 7B7—IF
 7C6—Det. Audio
 7C5—Output
 7Y4—Rectifier
 Panel Lamp 6.8V.
 BC Aerial Coil
 BC Osc. Coil
 Min. I.F. Philips 5731/52
 Output x Former
 5000 ohm—Rola 5F

Power Transformer
 Tone-control switch
 Speaker, Rola 5F.

note unapproved IF cathode
" " o/p "
no beam in 757