



The Hallmark of Quality

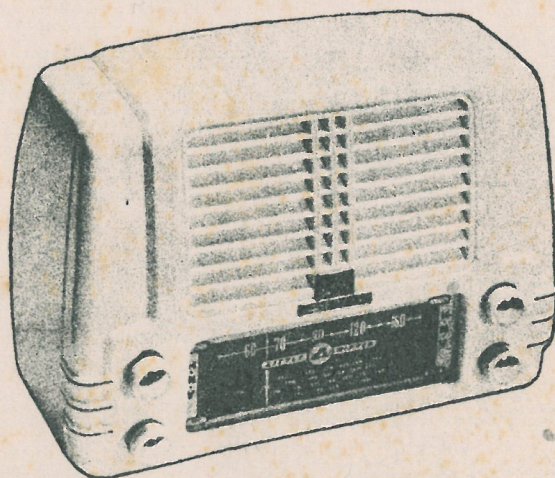
His Master's Voice



SERVICE SHEET

for

Little Nipper....



MODEL 5508

(1951) ✓
see inside

the 8th different model
issued in 1955

cabinet was used
on Australian model 61-51



ISSUED BY

5508

26th September, 1956.

Memo to all H.M.V. Radio Dealers.

Dear Sirs,

(21955 model)

Subject: Model 5508 Little Nipper Radio

We have found that, due to an oversight on our part a small number of these radios have been delivered to dealers suffering from the following defects:-

1. The aerial and oscillator trimmers may not have been sealed sufficiently, and may move due to vibration during transit. If volume appears low it will be necessary to re-adjust these trimmers.
2. If hum is noticed in any of these receivers it will probably be caused by the proximity of the mains lead (near where it connects to the on-off switch) to the grid pin of the 6At6. Moving this lead removes all traces of hum.

These remarks will not apply to any Little Nippers despatched after the 24th September, 1956.

We apologise for any inconvenience caused to our dealers.

Yours faithfully,
HIS MASTER'S VOICE (N.Z.) LIMITED.

A.B. Mowat

A.B. Mowat.
Radio Factory Manager.

HIS MASTER'S VOICE (N.Z.) LTD.
WELLINGTON

"Little Nipper" —

— Model 5508



DESCRIPTION

A.C. RADIO:

Five Valve Broadcast Radio, with provision for Gram. Input.

VALVES:

6 BE 6 - Converter

6 BA 6 - I.F. Amplifier

6 AT 6 - Detector and Audio Amplifier

Note → 6V6GT - Power Amplifier

6X4 - Rectifier

SPEAKER:

Rola - 4X6F

POWER SUPPLY:

230 volts 50 cycles

POWER CONSUMPTION:

27 watts

FREQUENCY RANGE:

540 Kc/s - 1600 Kc/s
(I.F. Frequency 455 Kc/s)

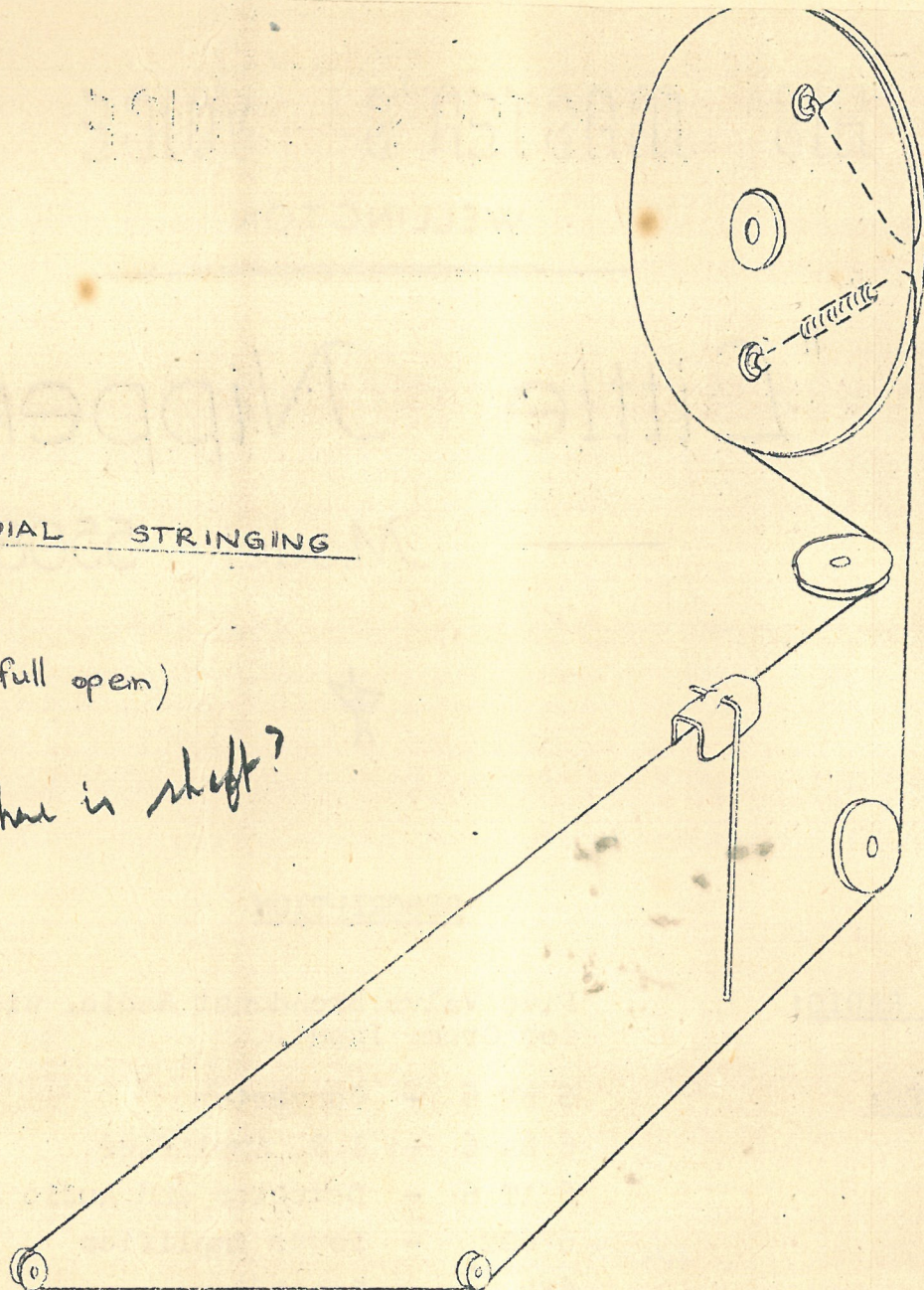
CABINET:

Moulded plastic in multi-colour range
(*"perspex"*)

DIAL STRINGING

(Gang full open)

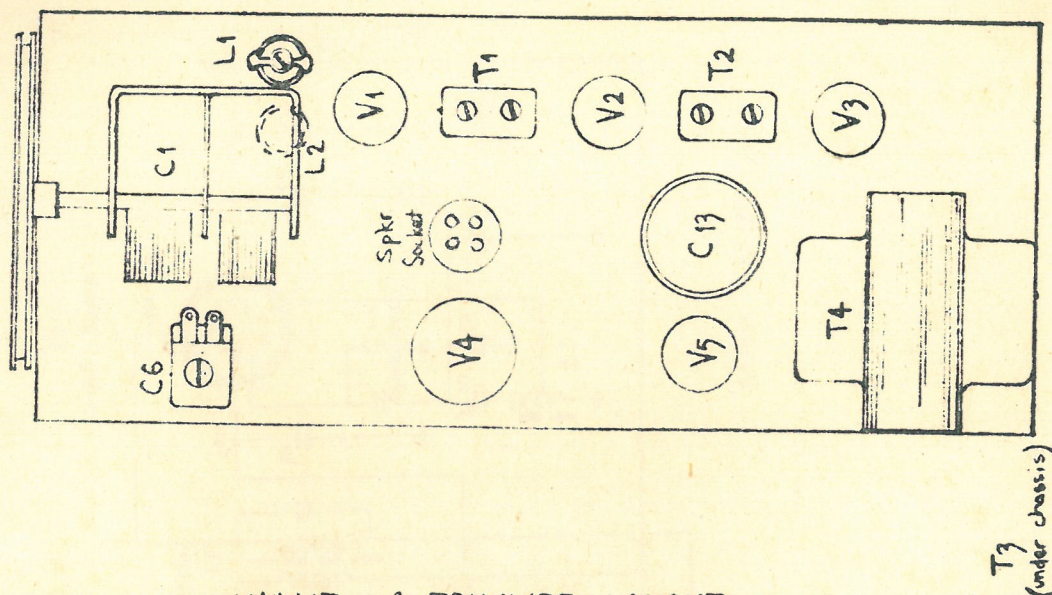
where is shaft?



CIRCUIT ANALYSIS

Voltage Reading

<u>Valve</u>	<u>No.</u>	<u>Pin 1</u>	<u>Pin 2</u>	<u>Pin 3</u>	<u>Pin 4</u>	<u>Pin 5</u>	<u>Pin 6</u>	<u>Pin 7</u>	<u>Pin 8</u>
6BE6	1	-2v	10mv	0	6.3v	145v	58v	0.5v	-
6BA6	2	-0.5v	0.65v	0	6.3v	145v	58v	0.65v	-
6AT6	3	-0.7v	0	0	6.3v	0.58	0.58	80v	-
6V6	4	-	6.3v	160v	170v	-30mv	0	0	6v
6X4	5	160AC	-	0	6.3v	-	160AC	175	-



VALVE & TRIMMER LAYOUT

ALIGNMENT

I.F. ALIGNMENT:

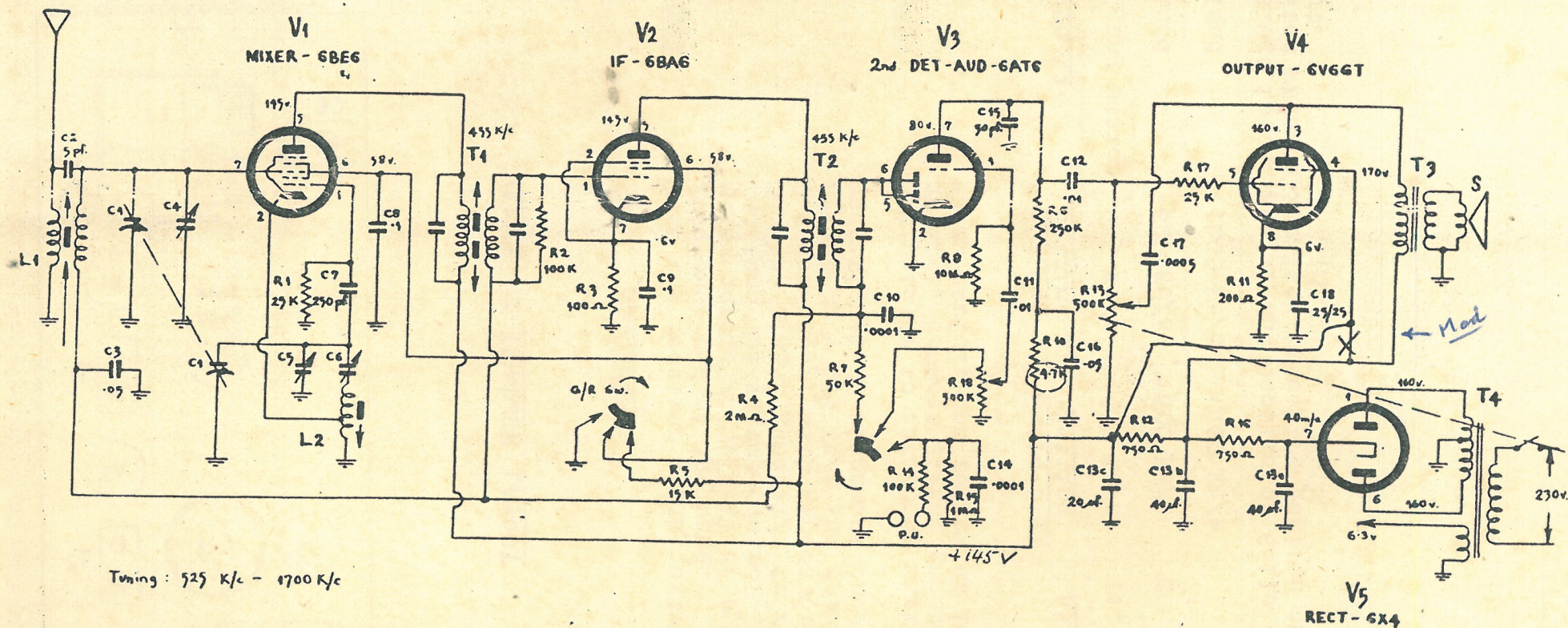
Tune the receiver to the extreme low frequency end of the band. Connect output meter across voice coil of speaker (3 ohm) and turn the volume control fully clockwise. Connect signal generator to receiver via 0.1 condenser, with generator set at I.F. frequency - 455 Kc/s and proceed as shown in operation 1 of alignment chart.

R.F. ALIGNMENT:

Set pointer to reference mark at left hand end of dial, connect signal generator via a standard dummy aerial, and follow as in operations 2 and 3.

<u>Feed Sig. Gen to</u>	<u>Sig.Gen Setting</u>	<u>Radio Dial Setting</u>	<u>Adjust</u>	<u>Adjust for</u>
1. C1 rear gang stator	455 Kc/s	540 Kc/s	T1, T2.	Max output
2. Aerial lead	600 Kc/s	600 Kc/s	C	Max output
3. Aerial lead	1400 Kc/s	1400 Kc/s		Max output

Note: The slugs in the Aerial and Oscillator Coils should only be adjusted when calibration in centre portion of dial scale is out.



SCHEMATIC DIAGRAM

5-Valve B.C. (1955-56)

D.C. Voltages with no signal, volume control off, gang full in - Meter 1000.Ω/volt.

Handwritten notes:
 R10 = 4.7K
 or is it meant to be a bias booting a/c at cap? obviously yes
 5508 "Little Wipper"

PARTS LIST

<u>Item No.</u>	<u>Part No.</u>	<u>Description.</u>
C1	1500-06	Polar 2 gan (min).
C2	1500-C3	5 PF Ceramic
C3	1500-A7	.05 350 V.
C4		3 - 30 P.F. Trimmer (on Gang)
C5		3 - 30 P.F. Trimmer (on Gang)
C6	1500-09	Padder T.P. 11D
C7	1500-J	.00025 Mica
C8-9	1500-J1	.1 350
C10-14	1500-R	.0001 Silver Mica
C11-12	1500-B5	.01 350
C13A-B-C	1500-N4	Electro 40-40-20 350
C15	1500-E	50 Pfd. Mica
C17	1500-L	500 Pfd. Mica
C18	1500-L9	25 Mfd. 25 WV. Electro.
R1-17	1300-F2	25K $\frac{1}{2}$ W
R2-14	1300-G7	100K $\frac{1}{2}$ W
R3	1300-G	100 Ohm. $\frac{1}{2}$ W
R4	1300-J1	2 Meg $\frac{1}{2}$ W
R5	1300-I6	15K 2W
R6	1300-K4	250K $\frac{1}{2}$ W
R7	1300-G2	50K $\frac{1}{2}$ W
R8	1300-K1	10 Meg $\frac{1}{2}$ W
R10	1300-Q4	4.7K $\frac{1}{2}$ W
R11	1300-Q	200 Ohm. 1W
R12-16	1300-B8	750 Ohm. 4W. ww.
R13	PO.1145	$\frac{1}{2}$ Meg with switch
R15	1300-I8	1 Meg ohm. $\frac{1}{2}$ W
R18	PO.252	$\frac{1}{2}$ Meg Pot L/SW
	DR.922	Dial Drum
	TR.1162	I.F. Transformer 1001/52 AP.
	TR.1315	Power Transformer
	SP.308	6 - 4 Rola Speaker
	TR.37	Output Transformer ECG.87
	PO.232	Dial Pointer (White)
	SC.309	Dial Scale
	JA.1164	Closed circuit phone jacks
	CO.881	B.C. Aerial Coil
	CO.882	B.C. Osc. Coil
	LA.1182	Panel Lamp
		6 BE 6
		6 BA 6
		6 AT 6
		6 V 6 GT.
		6X4
	KN.1314	Knobs 4063