



HIS MASTER'S VOICE

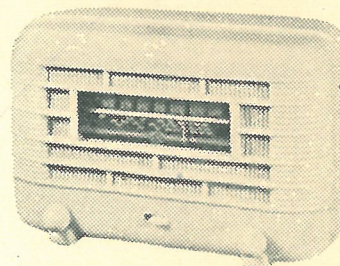
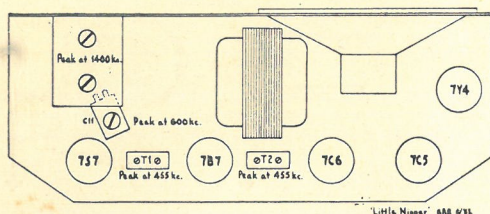
Service Sheet

ISSUED BY SERVICE DIVISION, HIS MASTER'S VOICE (N.Z.) LTD., G.P.O. BOX 293, WELLINGTON.

535 = 1953
545 = 1954

LITTLE NIPPER

525/BC



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.

7S7 Mixer	115	130	1.8
7B7 IF	115	130	1.8
7C6 Det. Audio	60	—	—
7C5 Output	150	155	8
7Y4 Rectifier	—	—	165
7S7 Triode Plate	130 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

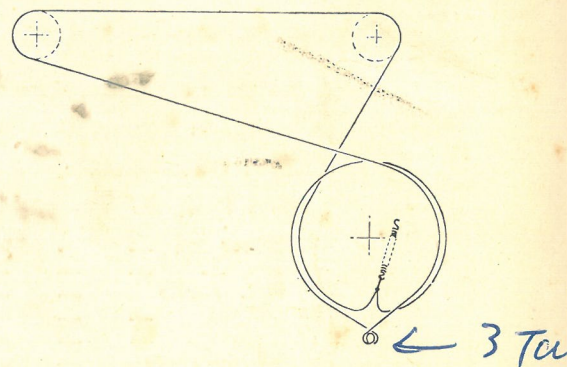
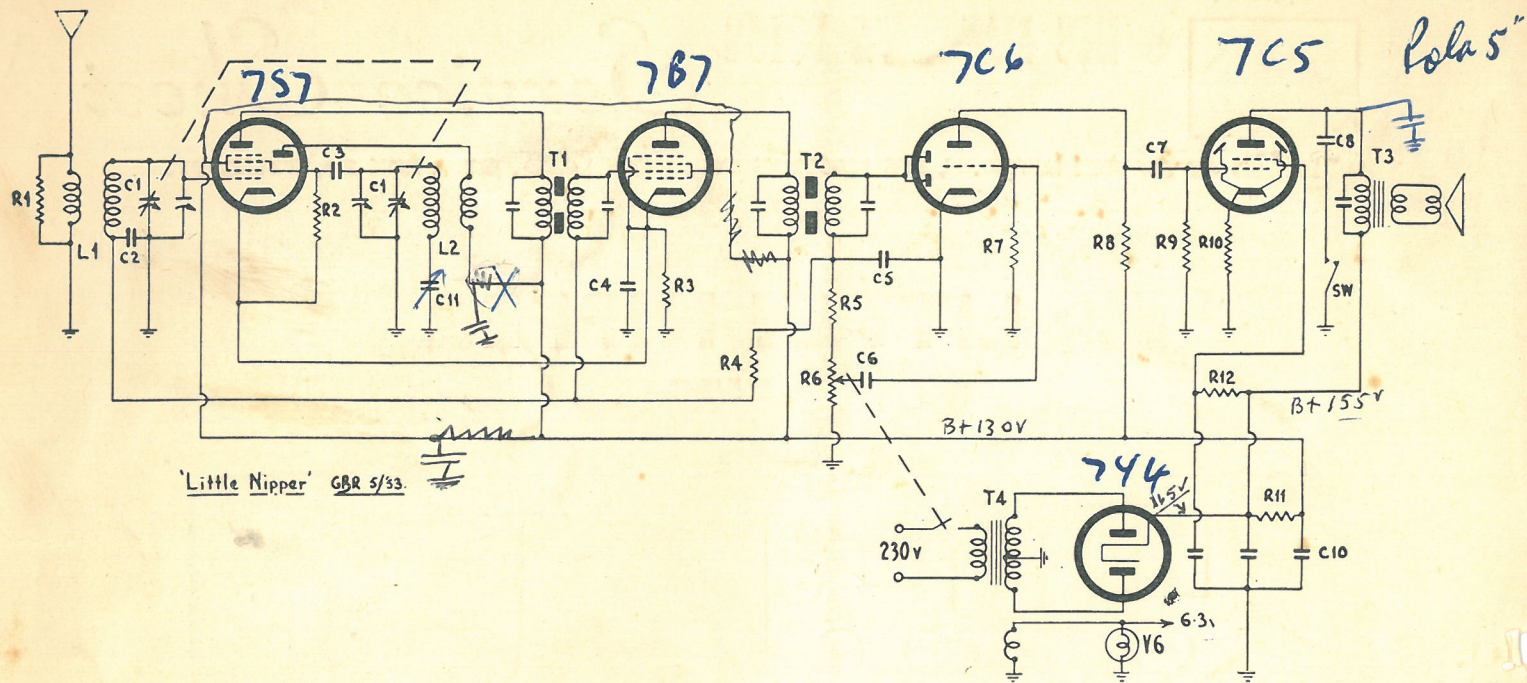
With gang plates fully meshed, set dial pointer under left end of scale opening. Set output-meter to 50 milliwatt range and connect across speaker voice coil. Turn receiver volume control full on and keep output meter deflection at approximately half scale by reducing signal-generator output. Between 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'	C11	Max. Output
3. Aerial lead	1400 kc	1400 kc	Rear gang trimmer then Front gang trimmer	Max. Output

Repeat 2 and 3

schematic dated May 1953

525BC



CONDENSERS		Store			Store
	Part No.			Part No.	
C1	1500-G5	2-gang Plessey R1	R11	1300-L8	2k 5 watt w.w.
C2	1500-A7	.05 mfd. 350 w.v.	R12	1300-Q4	4,700 ohm. 1/2 watt carbon
C3, 5	1500-Q	.0001 mfd. mica	VALVES		
C4	1500-C1	.25 mfd. 500 w.v.	V1	1400-R2	7S7-Mixer
C6, 7, 8	1500-B5	.01 mfd. 350 w.v.	V2	1400-Q9	7B7-IF
C9	1500-Y	.004 mfd. mica	V3	1400-R1	7C6-Det. Audio
C10	1500-N4	40-40-20 Electro. 350v	V4	1400-R	7C5-Output
C11	1500-O8	Padder Type TP 8D	V5	1400-R3	7Y4-Rectifier
RESISTORS			V6	LA 1089	Panel lamp 6.8v.
R1	1300-D7	10k 1/2 watt	L1	CO64	BC Aerial coil
R2, 5	1300-G2	50k 1/2 watt	L2	CO65	BC Oscillator coil
R3	1300-G	100 ohm. 1/2 watt carbon	T1, 2	TR-1160	Min. IF Philips 5731/52
R4	1300-J1	2 Meg. 1/2 watt	T3	SP-84	Output xformer. Rola
R6	PO209	1/2 Meg. Volume Control	T4	TR-1010 (T4)	Power xformer
R7	1300-K1	10 Meg. 1/2 watt	SW	SW-105	Tone control switch
R8	1300-K4	250k 1/2 watt		T4	
R9	1300-I3	500k 1/2 watt			
R10	1300-A5	330 ohm. 1 watt			

my mod: reduce plate voltage on
osc section of 7S7

Note IF plate & screen voltages are the same