HIS MASTER'S VOICE *Service Sheet*

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

note model no amended from 525 A 526 (was printed incorrectly for

ESSEX

TABLE MODEL BROADCAST RECEIVER

526/BC

A six valve superheterodyne receiver in a wooden cabinet of wedge design. Loctal tubes used throughout. Inverse feedback provided over the output stage.

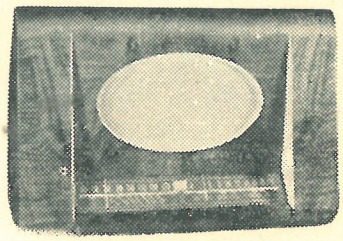
CONTROLS: Tuning and GRAM-RADIO at right hand end of cabinet. Volume and Tone/ON-OFF at left hand end of cabinet.

VALVE COMPLEMENT: RF-7B7 Mixer—7S7, IF-7B7, Det.-Audio-7C6, Power Output—7C5, Rectifier—7Y4.

VALVE SOCKET VOLTAGES: Measured to chassis.

	Plate	Screen	Cathode
7B7 RF Amplifier	230	70	1.6
7S7 Mixer	230	70	—
7B7 IF Amplifier	236	70	1.6
7C6 Det. Audio	85	—	—
7C5 Output	230	230	13
7Y4	—	—	300
7S7 Triode plate	115	—	—

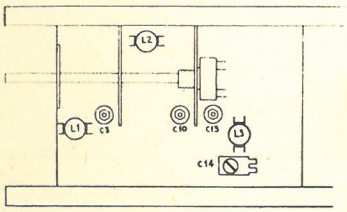
Voltmeter 1000 ohms per volt. Volume control OFF. No signal.

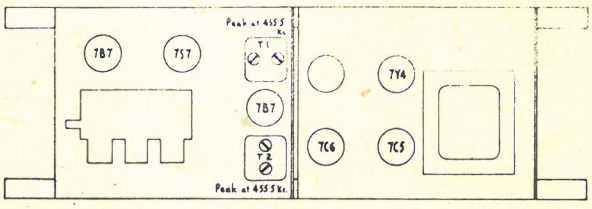


FREQUENCY RANGE: Broadcast 530 kc/s — 1700 kc/s.

POWER SUPPLY: 230 volts AC, 50 cycles. Consumption .23 amps.

CABINET DIMENSIONS: Height—13½in. Width—19¼ in. Depth—9in.





ALIGNMENT INSTRUCTIONS.

When the chassis has to be removed from the cabinet for other service, the RF circuits may be speedily aligned with the aid of the H.M.V. alignment scale. Where alignment is all that is required, access to all trimmers may be obtained by removing the bottom board in some cabinets, in others removal of a fibre cover is sufficient.

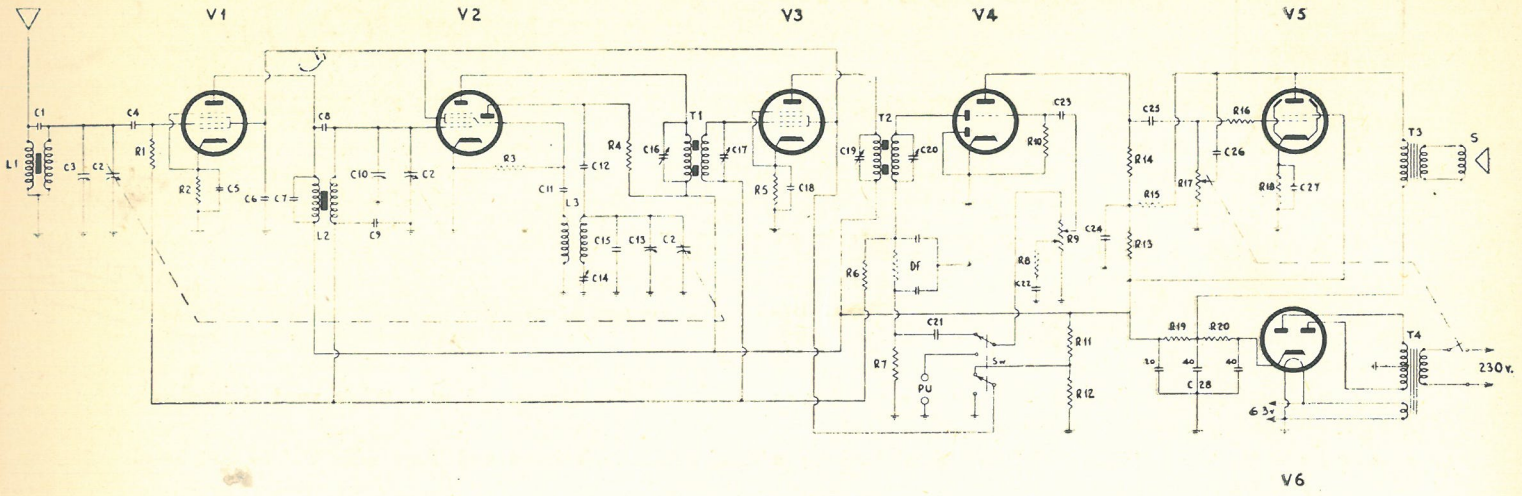
Rotate tuning control until gang rotor is full in, then set dial pointers to their respective arrow marks at the left-hand end of each scale. Set output meter range selector to 50 milliwatts and connect to speaker voice call. Turn receiver volume control on full, then as successive adjustments of the trimmers increase receiver output, reduce signal generator output to give approximately half scale deflection on the output meter.

For IF alignment use a .1 mfd. condensed on the generator cable, for RF use a standard dummy antenna.

	Feed Sig. Gen to	Set Sig. Gen to	Radio Dial Setting	Adjust	Adjust For
(1)	C2 (centre gang Stator)	455KC	1500Kc	C20; C19 C17; C19	Max. Output
(2)	Aerial Lead	600KC	600Kc (Rock Gang)	C14	Max. Output
(3)	Aerial Lead	1400Kc	1400Kc	C13 first then C10, C3	Max. Output

Repeat 2 and 3

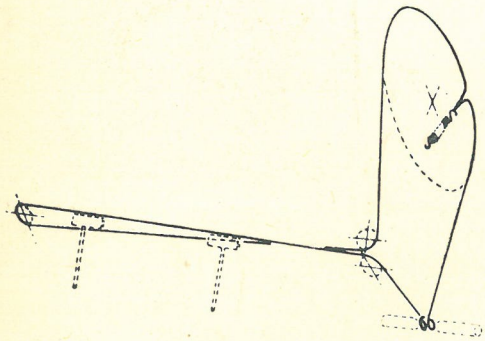
526 BC



CIRCUIT DIAGRAM

52 - 8 - 43 ← Note, not released until 1952

BROADCAST



DIAL STRINGING

Condensers:	Store Part. No.		Valves:	Part No. Store	
C1, 8	1500—P1	2 pfd. ceramicon	R7, 14, 15	1300—K4	250 k. ½ watt
C2	1500—R5	3-gang "Polar" C1043	R9	P0223	1 meg. tapped pot.
C3, 10, 13	1500—F5	3/30 pfd. "Phillips" trimmer	R10	1300—J9	5 meg. ½ watt
C4, 12	1500—E	.00005 mfd. mica	R11, 12	1300—L1	25 k. 1 watt
C5, 9, 18, 25	1500—A7	.05 mfd 350 v.	R17	P0213	2 meg. pot. and switch
C6	1500—J1	.1 mfd 350 v.	R18	1300—A5	330 ohm. 1 watt
C7, 15	1500—H	10 pfd ceramicon	R19	1300—L6	1000 ohm. 1 watt
C11	1500—Q	.0001 mfd mica	R20	1300—B8	750 ohm. 4 watt
C14	1500—08	Padder TP8D	Valves:		
C16, 17	1500—I2)	Dual Trimmer base	V1	1400—Q9	7B7—RF
C19, 20	1500—I2)		V2	1400—R2	7S7—Mixer
C21	1500—K2	.02 mfd 350 v.	V3	1400—QS	7B7—IF
C22	1500—B5	.01 Mfd. 350 v.	V4	1400—R1	7C6—Det. Audio
C23, 29	1500—A4	.001 mfd. mica	V5	1400—R	7C5—Output
C24	1500—B8	.25 mfd 750 w.v.	V6	1400—R3	7Y4—Rectifier
C26	1500—E	.00005 mfd mica	L1	C0384	Aerial coil BC
C27	1500—P2	25 mfd 25 v. electro	L2	C0385	RF coil BC
C28	1500—N4	40-40-20 Electro	L3	C0386	Osc. coil BC
Resistors:			T1	TR28	1st IF xformer
R1	1300—I5	1 meg. ¼ watt	T2	TR29	2nd IF xformer
R2, 5	1300—Y	270 ohm. ½ watt	~~T3~~ T4	SP606	Power xformer 52-R-02 Beacon
R3, 8, 13, 16	1300—G2	50 k. ½ watt	~~T4~~ T3	TR613	Diode Filter (Dubilier)
R4	1300—L7	27 k. 1 watt	DF	FI1310	Output xformer ~~& Rola 6H~~
R6	1300—J1	2 meg. ½ watt	S	SP606	Speaker Rola 6H.