



HIS MASTER'S VOICE

Service Sheet

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

CORNWALL

525/T-RG

*Bradford 1957-1958
was same cabinet*

A five valve superheterodyne chassis used in conjunction with a B.S.R. type GU4. 3 speed gramophone unit.

CONTROLS: Spin Tuning; Volume; Tone and On/Off; Gram-Radio.

VALVE COMPLEMENT: Mixer, 7S7; IF, 7B7; Diode and First Audio, 7C6; Output, 7C5; Rectifier, 7Y4.

VALVE SOCKET VOLTAGES: Taken with:

Negative lead connected to chassis.

Voltmeter 1000 ohms per volt.

No applied signal.

Volume Control off.

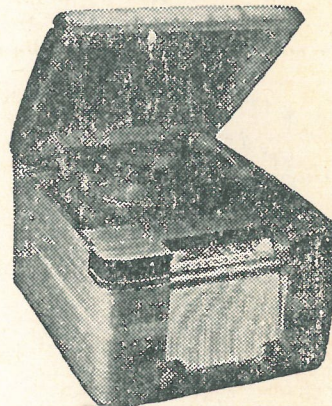


	Plate	Screen	Cathode
7S7 Mixer	217	90	2.8
7B7 IF	217	90	2.8
7C6 Diode and 1st Audio	78	—	—
7C5 Output	202	217	12
7Y4 Rectifier	—	—	300

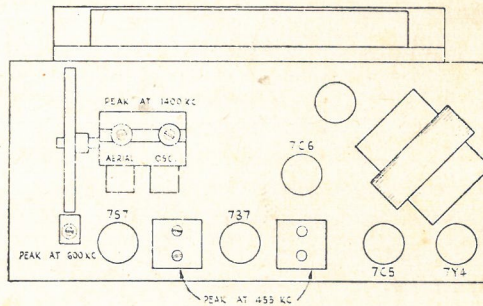
7S7 triode plate voltage supply is common with the screen supply at 90 volts.

On gram. position the plate and screen voltages of the 7C5 are approximately 8% higher:

FREQUENCY RANGE: Broadcast 500-1500 k.c.

POWER SUPPLY: 230 Volt. AC. 50 cycles
Consumption: Receiver .22 amp.
Turntable .12 amp.

CABINET DIMENSIONS: Height: 12 $\frac{1}{4}$ in., Width: 16in., Depth: 18 $\frac{1}{4}$ in.



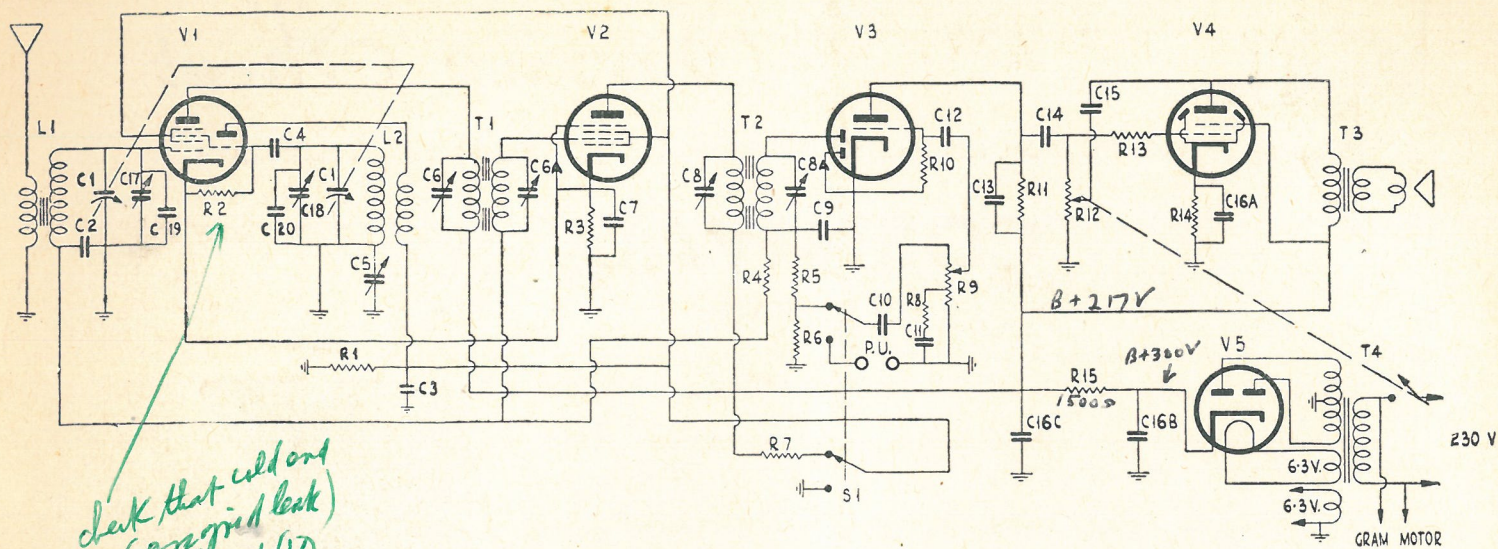
ALIGNMENT INSTRUCTIONS

Turn gang plates full in and set pointer under left hand end of dial scale. The alignment procedure is the same as for the "Coventry" Model 505T/RG. Throughout alignment the receiver volume control should be full on, output meter set to 50 milliwatt range and connected across speaker voice coil, signal generator output no more than necessary to produce approximately half scale deflection of output meter. Between the signal generator output cable and the receiver, use on Broadcast, a dummy antenna, on IF a .1 mf condenser.

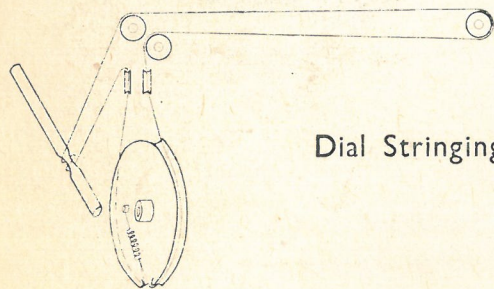
Feed Sig Gen To	Set Sig. Gen. To	Radio Dial Setting	Adjust	Adjust for
1. Gang stator, Shaft End	455 Kc	1500 Kc	C8, C8A, C6, C6A	Max. Output
2. Aerial Lead	600 Kc	600 Kc	C5	Max. Output 'Rock' Gang
3. Aerial Lead	1400 Kc	1400 Kc	C19, C18	Max. Output

NOTE—With a certain run of GU4. units, it has been found necessary to parallel the pick-up terminals with a resistor of 100,000 ohms.

525T-RG



check that cold end
of R2 (original leak)
is wired to (2)
(not to earth)



Dial Stringing

Desig.	Description	Store Pt. No.
	Speaker, Rola 6H complete with tran'v TR1125	SP 606
V1	Mixer Valve 7S7	1400 R2
V2	IF Amplifier 7B7	1400 C9
V3	Det. Audio Amplifier 7C6	1400 R1
V4	Output Amplifier 7C5	1400 R
V5	Rectifier 7Y4	1400 R3
	Panel Lamps Mes. 6-8v	LA 1102
S1	Wafer type Gram-Radio WS	SW 171
L1	Aerial coil	CO 43
L2	Oscillator coil	CO 356
T1	1st IF Transformer	TR 28
T2	2nd IF Transformer	TR 29
T3	Speaker Trans. Rola Sic 500 ohm	TR 1125
T4	60 M/A Power Transformer	TR 1297

Desig.	Description	Store Pt. No.
C1	Polar 2-gang	1500-G1
C2	.05 mfd 350v	1500-A7
C3	.1 mfd 350v	1500-J1
C4	.0001 mfd Mica	1500-Q
C5	Padder Hunts TPB10	1500-O8
C6	Dual IF Trimmer Base	1500-I3
C7	.1 mfd. 350v	1500-J1
C8	Dual IF Trimmer Base	1500-O8
C9	.0001 mfd Mica	1500-Q
C10	.01 mfd 350v	1500-B5
C11	.01 mfd 350v	1500-B5
C12	.01 mfd 350v	1500-B5
C13	.00025 mfd Mica <i>replace if simplex</i>	1500-J
C14	.01 mfd 500v	1500-B4
C15	.00025 mfd Mica	1500-J
C16	40-40-20 Electrolytic	1500-N4
C17	0-30 pf Philips Trimmers	1500-F5
C18	0-30 pf Philips Trimmers	1500-F5
C19	10 pf SM	1500-M6
C20	10 pf SM	1500-M6
R1	27k 1W	1300-L7
R2	50k 1/2W	1300-G2
R3	220 ohm 1/2w	1300-S
R4	2 megohm 1/2w	1300-J1
R5	50k 1/2w	1300-G2
R6	500k 1/2w	1300-I3
R7	15k 2w	1300-E6
R8	50k 1/2w	1300-G2
R9	1 megohm Tapped Pot.	PO 223
R10	4 megohm 1/2w	1300-J9
R11	250k 1/3w	1300-K4
R12	500k Pot. with switch	PO 209
R13	50k 1/2w	1300-G2
R14	390 ohm 1w	1300-A6
R15	1500 ohm 5w w.w.	1300-C5

T4