

TECHNICAL INFORMATION

COVERING

DUAL WAVE RECEIVERS TYPE 6253 & 7253

COLLIER & BEALE Ltd. WELLINGTON.

TYPE SET—A.C. Superheterodyne.

TUBES (six/seven)—6BA6 R.F. Amp., ECH21 Converter, 6BA6 I.F. Amp., 6AV6 Det.-A.F., 6AQ5 Power Output, 6X4 Rectifier (6AU6 Model 7253 only) Pre Amp.

POWER SUPPLY—230 v. A.C. Rating 55 watts.

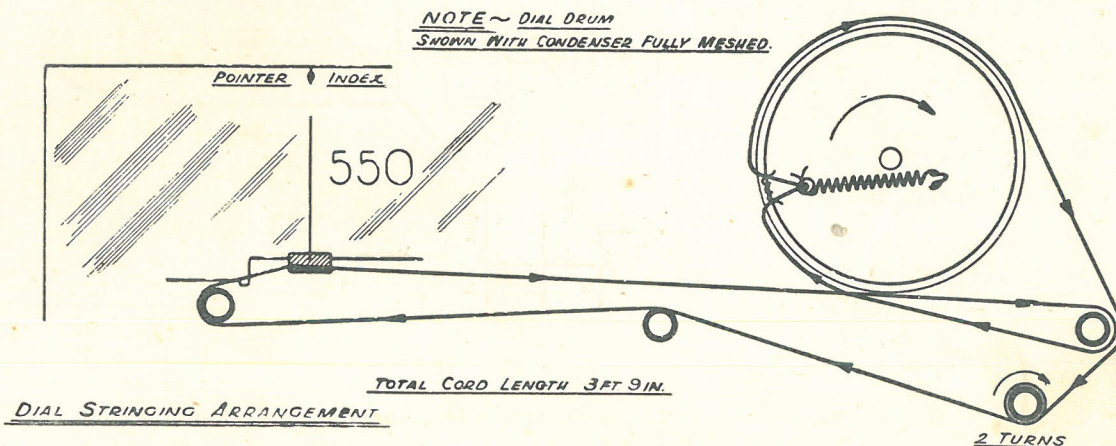
TUNING RANGE—Broadcast, 530-1530 k.c. S.W., 6.45-19.4 m/cs.

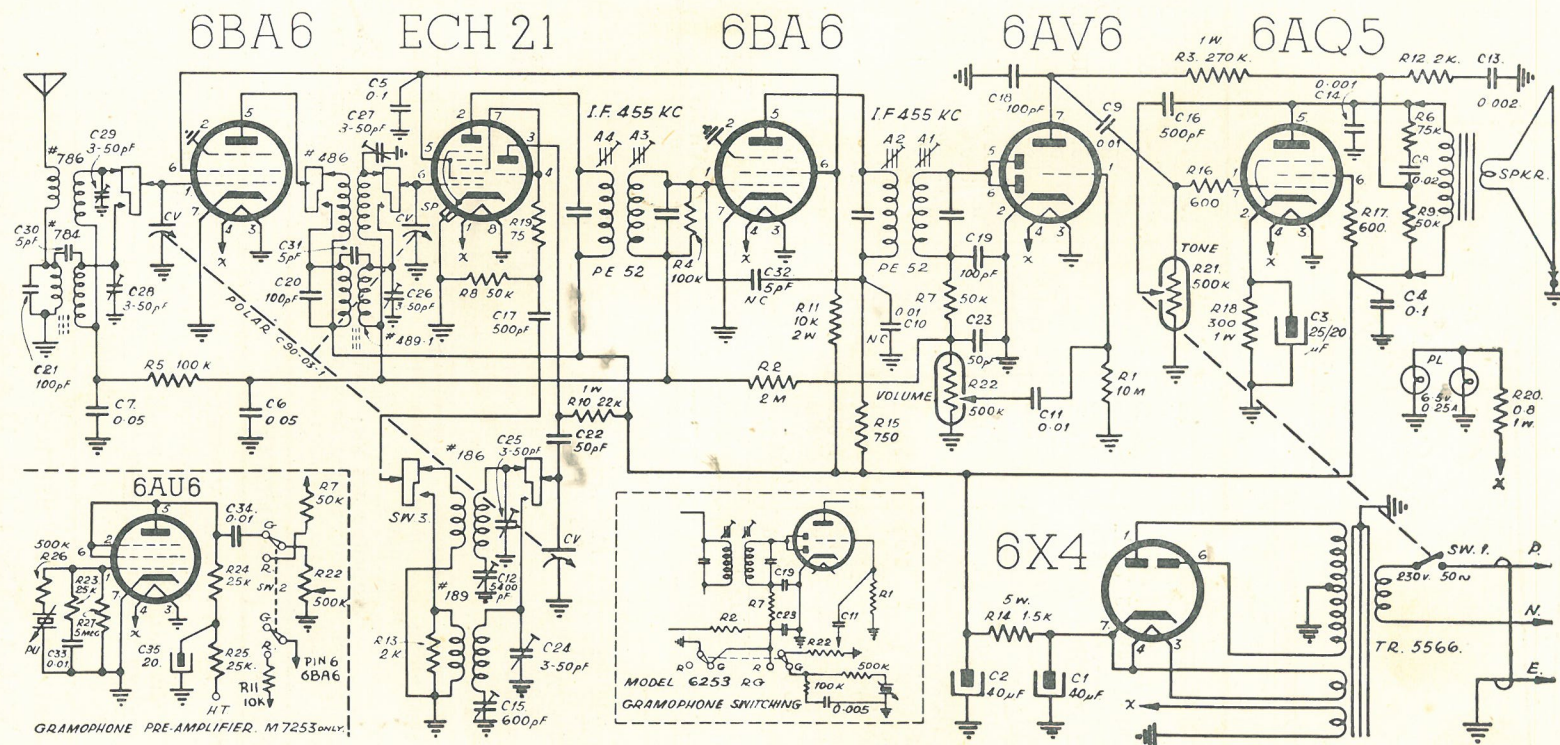
ALIGNMENT INSTRUCTIONS

To set pointer, fully mesh condenser and set pointer at last reference mark at left end of dial. Set volume control at maximum and keep output from signal generator no higher than necessary to obtain output readings. Use insulated alignment tool for adjusting.

Dummy Antenna	Signal Generator Coupling	Sig. Gen. Frequency	Band Switch Position	Radio Dial Setting	Output Meter	Adjust	Remarks
0.1 μ fd.	High Side to pin No. 6 (grid) of ECH21.	455 Kc.	BC	High freq. end	Across voice coil	A1, A2, A3, A4, C24	Adjust for maximum output
R.M.A. Standard	High side to ant. terminal	1400 Kc.	"	1400 Kc.	"	C26 & C28	" "
"	"	1400 Kc.	"	1400 Kc.	"	C15	" "
"	"	600 Kc.	"	Rock Variable	"	C25	" "
"	"	18 Mc.	SW	18 Mc.	"	C27 & C29	" "
"	"	18 Mc.	SW	18 Mc.	"		" "

CAPACITORS			MISCELLANEOUS				RESISTORS		
Ref. No.	Cap.	Volts	Ref. No.	Res., Pri.	Res., Sec.		Ref. No.	Res.	Watts
C1-2	40 μ fd.	450	784	20 ohm	2.7 ohm	BC	R1	10 meg.	$\frac{1}{2}$
C3	20 "	25	786	0.4 "	0.03 "	SW	R2	2 "	"
C4	0.1 "	500	486	69 "	0.03 "	SW	R3	270K ohm	"
C5	0.1 "	500	489-1	64 "	2.7 "	BC	R4-5	100K "	$\frac{1}{2}$
C6	0.05 "	500	186	0.45 "	0.03 "	SW	R6	75K "	"
C7	0.05 "	500	189	0.85 "	2.44 "	BC	R7	50K "	"
C8	0.02 "	500	PE52	6.5 "	6.5 "	IF	R8	50K "	"
C9-11	0.01 "	500					R9	50K "	"
C12	0.0054 "	Mica		Volts	Volts	Volts	R10	22K "	1
C13	0.002 "	"	TR5566	230	350 aside	2 x 6.3	R11	10K "	2
C14	0.001 μ fd.	"					R12-13	2K "	$\frac{1}{2}$
C15	500 "	Padder		Type	Transformer		R14	1.5K "	5
C16	500 "	Mica	SP1	6-9H	5000 ohm		R15	750 "	$\frac{1}{2}$
C17	500 "	"					R16-17	600 "	"
C18-21	100 "	"	SW1	S.P.S.T. switch attached to R21			R18	300 "	1
C22	50 "	"	SW2	3.P.D.T. Rotary Switch			R19	75 "	$\frac{1}{2}$
C23	50 "	"	SW3	5P2P. 2 Bank Rotary Switch			R20	0.8 "	1
C24-29	3-50 "	Trimmer	CV	Polar C90-03/1 (swing 351 μ fd.)			R21-22	500K "	Pot
C30-32	5 "	Ceramic					R23-25	25K "	$\frac{1}{2}$
C33-34	0.01 μ fd.	500	PL	6.5 v., 0.25 amp. tub. M.E.S. lamp			R26	500K "	"
C35	20 "	450					R27	5 meg.	"





SCHEMATIC DIAGRAM MODELS 6253 & 7253

VOLTAGE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
R.F.	6BA6	0	—	—	5.7	225	75	—	—
Conv.	ECH21	5.7	215	80	—5	75	—	—5	—
I.F.	6BA6	0	—	—	5.7	215	75	—	—
Det-A.F.	6AV6	0	—	—	5.7	0	0	80	—
Output	6AQ5	0	11	—	5.7	200	225	0	—
Rect.	6X4	300 ac	—	5.8	330	—	300 ac	330	—
Pre Amp	6AU6	—	50	—	5.7 ac	50	50	—	—

RESISTANCE READINGS

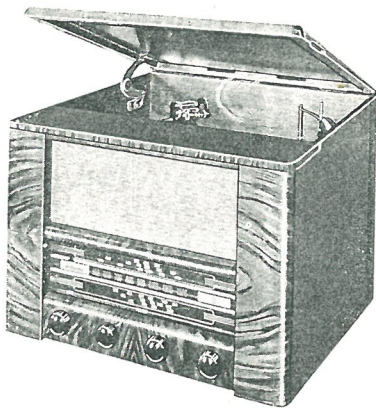
Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
R.F.	6BA6	2.6 meg.	—	—	—	500K	510K	—	—
Conv.	ECH21	—	500K	522K	50K	510K	2.5meg.	50K	—
I.F.	6BA6	2.5 meg.	—	—	—	5.7K	510K	—	—
Det-A.F.	6AV6	10 "	—	—	—	500K	500K	800K	—
Output	6AQ5	5.6K	300	—	—	500K	5.6K	5.6K	—
Rect.	6X4	480	—	—	500K	—	480	500K	—
Pre Amp	6AU6	5 meg.	550K	—	—	550K	550K	—	—

1. D.C. voltage measurements are at 2,000 ohms per volt—A.C. voltage measurements at 1,000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to chassis. Band Switch in Broadcast position.

4. Nominal tolerances on component values make possible a variation of $\pm 10\%$ in voltage and resistance readings.
5. Volume control at maximum, no signal applied for voltage measurements.
6. Resistance readings in B+ circuits may vary widely according to condition of filter capacitors.

6253
7253

6254 similar



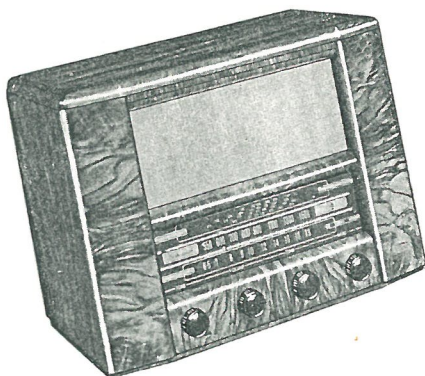
Gulbransen

6-valve Dual Wave Radiogram Mante with automatic record changer. Model 6253 RGM.



Gulbransen 7253
has eye

7-valve Dual Wave Radiogram Console in polished veneer cabinet. Model 7253 RGC.



Gulbransen

6-valve Dual Wave in polished wood veneer cabinet. An amazing performer. Model 6253.

