

44V
546 BC
V. SIMILAR



'BURBANK' MODEL

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H.W. CLARKE (N.Z.) LTD.

TECHNICAL INFORMATION

COVERING

GULBRANSEN BROADCAST RECEIVERS

MANUFACTURED BY COLLIER & BEALE Ltd.

TYPE SET—A.C. Superheterodyne.

TUBES (six)—6BA6 R.F. Amp., ECH42 Converter, 6BA6 I.F. Amp., 6AV6 Det.-A.F., 6AQ5 Power Output, 6X4 Rectifier.

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

TUNING RANGE—Broadcast, 535-1530 kc.

ALIGNMENT INSTRUCTIONS

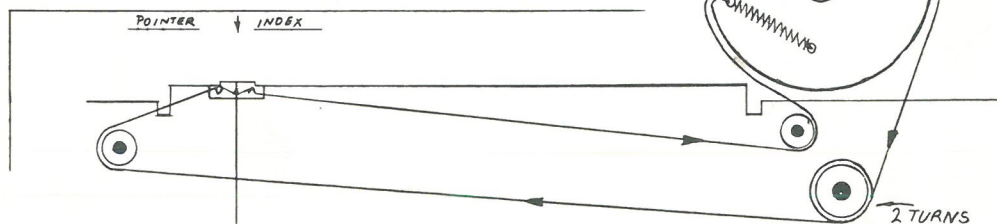
To set pointer, fully mesh condenser and set pointer at last reference mark at left end of dial. Set volume control at maximum and keep output from signal generator no higher than necessary to obtain output readings. Use insulated alignment tool for adjusting.

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 ECH42.	455 Kc.	BC	High freq. end	Across voice coil	A1, A2, A3, A4, C20	Adjust for maximum output
R.M.A. Standard	High Side to ant. Terminal	1400 Kc.	"	1400 Kc.	"	C21 & C22	" "
"	"	1400 Kc.	"	1400 Kc.	"	C14	" "
"	"	600 Kc.	"	600 Kc.	"		Rock variable and adjust for max. output. Recheck C20 at 1400 Kc. If C20 is changed recheck C21 and C22

CAPACITORS			MISCELLANEOUS				RESISTORS		
Ref. No.	Cap.	Volts	Ref. No.	Res., Pri.	Res., Sec.		Ref. No.	Res.	Watts
C1a	40 μ fd	450	784	20 ohm	2.7 ohm	BC	R1	10 Meg	$\frac{1}{2}$
C1b	40 "	"	489 1	64 "	2.7 "	BC	R2	2 "	"
C1c	20 "	"	189	0.85 "	2.44 "	BC	R3	500K Ohm	Pot
C2	0.1 "	350	PE1014	14.5 "	13.5 "	IF	R4	500K "	"
C3	0.1 "	"	PE1014	14.5 "	13.5 "	IF	R5	500K "	$\frac{1}{2}$
C4-6	0.05 "	"					R6	270K "	1
C7	0.02 "	"					R7-8	250K "	$\frac{1}{2}$
C8-9	0.01 "	Styroseal		Volts	Volts	Volts	R9-10	100K "	"
C10	0.005 "	350	TR5566	230	350 aside	2 x 6.3	R11	75K "	"
C11	0.001 "	Mica		Type	Transformer		R12	50K "	"
C12	0.001 "	"	SP1	6-9H	5000 ohm		R13	50K "	"
C13	0.001 "	Ceramic					R14	50K "	"
C14	600 μ fd	Pader	SW1	S.P.S.T. switch attached to R4			R15	50K "	"
C15	500 "	Mica	CV	Polar C90-03/1 (swing 351 μ fd.)			R16	20K "	1
C16	300 "	"		2 Pole, 2 position Rotary Switch			R17	10K "	"
C17	100 "	"	SW1				R18	2K "	$\frac{1}{2}$
C18	100 "	"		6.5 v., 0.25 amp. tub. M.E.S. lamp			R19	1.5K "	5
C19	50 "	"	PL				R20	600 "	$\frac{1}{2}$
C20-22	3-30 "	Trimmers					R21	300 "	1
C23-24	5 "	Ceramic					R22	2.3 "	1

DIAL STRINGING ARRANGEMENT

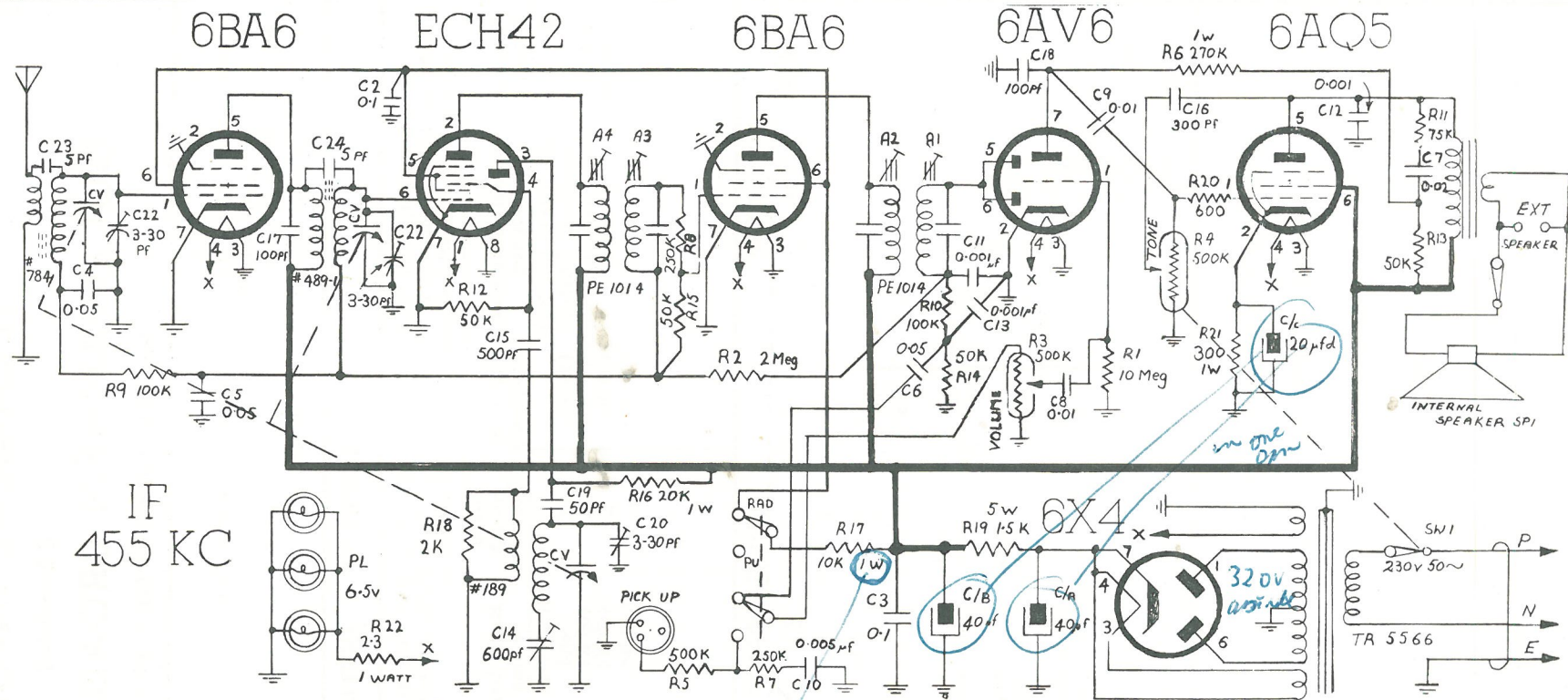
TOTAL CORD LENGTH 40" APPROX



NOTE DIAL DRUM SHOWN WITH CONDENSER FULLY MESHED

1000/12/57

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SCHEMATIC DIAGRAM MODEL "BURBANK"

6154

VOLTAGE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
R.F.	6BA6	0	—	—	6.1	230	85	—	—
Conv.	ECH42	6.1	230	120	—	85	—	—	—
I.F.	6BA6	6	—	—	6.1	230	85	—	—
Det.-A.F.	6AV6	—	—	—	6.1	—	90	—	—
Output	6AQ5	—	8.6	—	6.1	215	230	—	—
Rect.	6X4	320 AC	—	—	6.1	—	320 ac	335	—

RESISTANCE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
R.F.	6BA6	2.25meg.	—	—	—	500K	510K	—	—
Conv.	ECH42	—	500K	520K	50K	510K	2.15meg.	—	—
I.F.	6BA6	2.2meg.	—	—	—	500K	510K	—	—
Det.-A.F.	6AV6	10	—	—	—	110K	110K	800K	—
Output	6AQ5	500K	300	—	—	500K	500K	500K	—
Rect.	6X4	400	—	—	500K	—	480	500K	—

1. D.C. voltage measurements are at 20,000 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.

4. Nominal tolerance 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.

BURBANK 6154

use 3watt

Note some chassis were wrongly marked 6154 but s/B on 6253 } q.v.