

PUSH BUTTON

TECHNICAL INFORMATION

COVERING

CAR RADIO

BROADCAST RECEIVER TYPE 6154A

COLLIER & BEALE Ltd. WELLINGTON.

TYPE SET.—Automobile Battery Superheterodyne.

TUBES (six).—6BA6 R.F. Amp., 6BE6 Converter, 6BA6 I.F. Amp., 6AV6 Det.-A.F., EL41 Power Output, 6X4 Rectifier.

POWER SUPPLY.—12 volts, 2.85 amps. or 6 volts 5.8 amps.

TUNING RANGE.—Broadcast, 525-1605 Kc/s.

ALIGNMENT INSTRUCTIONS

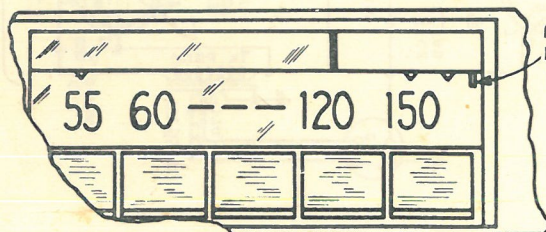
To set pointer, tune manual knob till slugs are racked fully out and set pointer at last reference mark at right end of dial. Set volume control at maximum and keep output from signal generator no higher than necessary to obtain output reading.

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. 7 (Grid) of 6BE6.	455 Kc.	—	High freq. end	Across voice coil	A1, A2, A3, A4.	Adjust for maximum output
100 μ fd.	High side to ant. Terminal	1400 Kc.	—	1400 Kc.	"	C37	" "
"	"	1400 Kc.	—	1400 Kc.	"	C36	" "
"	"	1400 Kc.	—	1400 Kc.	"	C30	" "

INSTALLATION NOTE: After installation, fully extend antenna, tune receiver to 1400 kc.s and peak ant. trimmer C30 which is accessible through hole on right side of tuner unit. The 4-pin speaker socket provides connections for one speaker—two speakers in parallel and 230v. D.C. for electric shaver.

CAPACITORS			MISCELLANEOUS			RESISTORS		
Ref. No.	Cap.	Volts	Ref. No.	Res., Pri.	Res., Sec.	Ref. No.	Res.	Watts
C1-2	40 μ fd.	450	CH958	0.4 ohm		R1	10 meg.	$\frac{1}{2}$
C3	20 "	"	CH959	0.012 "		R2-3	2 "	"
C4	25 "	25	CH960	0.03 "		R4	500K ohm	Pot
C5	1 "	150	CH961	0.04 "		R5-6	500K "	$\frac{1}{2}$
C6-7	0.25 "	100	PE1000	13 "	13 ohm	R7	250K "	"
C8-9	0.1 "	500	TRCB1	3.5 "		R8	250K "	"
C10-12	0.05 "	"	TR5500	Output Transformer		R9	100K "	$\frac{1}{2}$
C13-20	0.01 "	"		5000 ohm to 3.4-1.7 ohm		R10	75K "	"
C21	0.006 "	350	TR5519- 6v.	6V. Power Transformer		R11	75K "	"
C22	0.004 "	"	TR5519-12v.	12V. "		R12-13	50K "	"
C23-25	500 μ fd.	"	SW1	D.P.S.T. Switch attached to R4.		R14	30K "	"
C26	450 "	"	SW2	4 Pos. Rotary Tone Switch.		R15	25K "	"
C27	250 "	"	FU1	6V. 10 amp./12V. 6 amp.		R16	20K "	"
C28-29	200 "	"	V1B	Plessey 6V. Type 614		R17	6K "	1
C30	180 "	"		12V. Type 1214		R18	6K "	1
C31-33	100 "	"	Dial Lamp	6V. 250 ma. 12V. 150 ma.		R19	5K "	$\frac{1}{2}$
C34	90 "	"		M.E.S. Type.		R20	1K "	"
C35	50 "	"	Perm'bility	Radio Condenser Co. Type 830027		R21	100 ohm	"
C36-37	3-50 "	Trimmer	Tuner	C. & B. Code No. TU6000		R22	200 "	"
C38-39	3-30 "	"	L1	12.5 ohm.		R23	150 "	1
C40	25 "	350	L2	2.5 "		R24	150 "	"
C41-42	5 "	"	L3	0.75 "		R25	75 "	"
C43-44	See below	750	L4	12 "		R26	50 "	$\frac{1}{2}$

SIX AND TWELVE VOLT MODELS.



POINTER
REFERENCE
1605 KC/S.

FUSES: Warning—Fuses above these ratings must not be fitted. 6 volt sets, 10 amp rating. 12 volt sets, 6 amp rating.

VIBRATORS: Non-synchronous, 4 pin. Reed frequency nominally 115 c/s.

TRANSFORMERS: 6 volt sets TR.5519-6V. 12 volt sets TR.5519-12V.

BUFFERS C43/C44: 6 volt sets, two 0.04 μ F. 12 volt sets, three 0.04 μ F. If vibrators differing in frequency from original 115 c/s. are used, the buffer values must be changed.



VOLTAGE READINGS

RESISTANCE READINGS

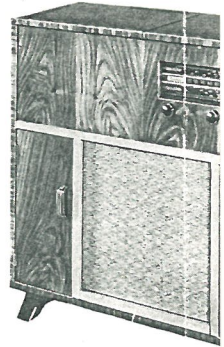
4. Nominal tolerances on component values make possible a variation of + 10% in voltage and resistance readings.
5. Volume control at maximum, no signal applied for voltage measurements.
6. Resistance readings in B+ circuits may vary widely according to condition of filter capacitors.

6154 A (AUTO)



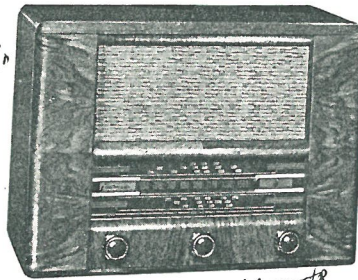
Cromwell

Chassis Model 6154RG, 6 Valve Broadcast Console Radiogram—Oak Cabinet, Size, H. 33in., W. 32½in., D. 15in. Code word, "Scoop".



Cromwell

Chassis Model 6154RG, 6 Valve Broadcast Console Radiogram—Walnut Cabinet, Size, H. 32in., W. 32in., D. 15in. Code word, "Satin".



Cromwell

Chassis Model 6154B, 6 Valve Broadcast Mantel—Walnut Cabinet, Size, H. 13½in., W. 18½in., D. 8½in. Code word, "Solid".

pw 4 leads } 6153 has same cabinet 6150P same cabinet

(Note: 6154 A is a Car radio)

6 valve BC using ECH42 (no circuit held)

"BUBBANK" → 6154 6154RG

this number allotted by me → 133