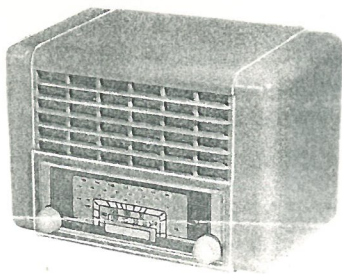


Keymaster has same cabinet



MODEL 4154 IN PLASTIC CABINET
DINKY

**CROMWELL
MODEL 4154**

TECHNICAL INFORMATION

COVERING ~~CORR~~ ~~REDO~~

BROADCAST RECEIVER MODEL 4154

COLLIER & BEALE Ltd. WELLINGTON.

"DINKY"

= AMV MINOR

aug 1954

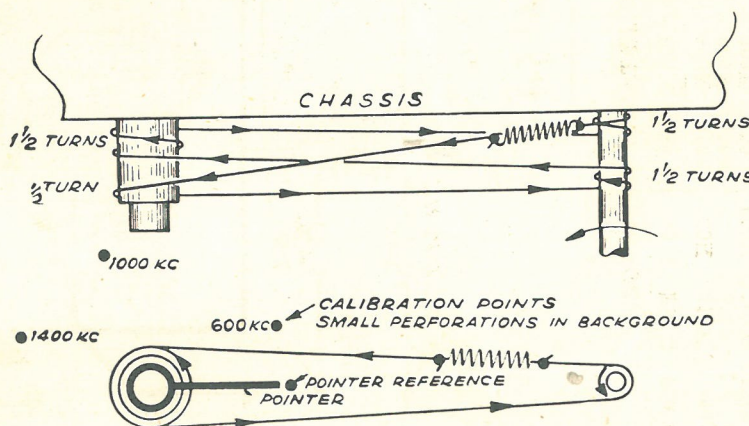
TYPE SET.—A.C. Superheterodyne. Moulded Bakelite Cabinet.
TUBES (Four).—ECH42 Converter, EAF42 I.F.-Det., EL41 Output, EZ40 Rectifier.
POWER SUPPLY.—230 v. A.C. Rating 25 watts.
TUNING RANGE.—Broadcast 535-1540 K.C.

ALIGNMENT INSTRUCTIONS

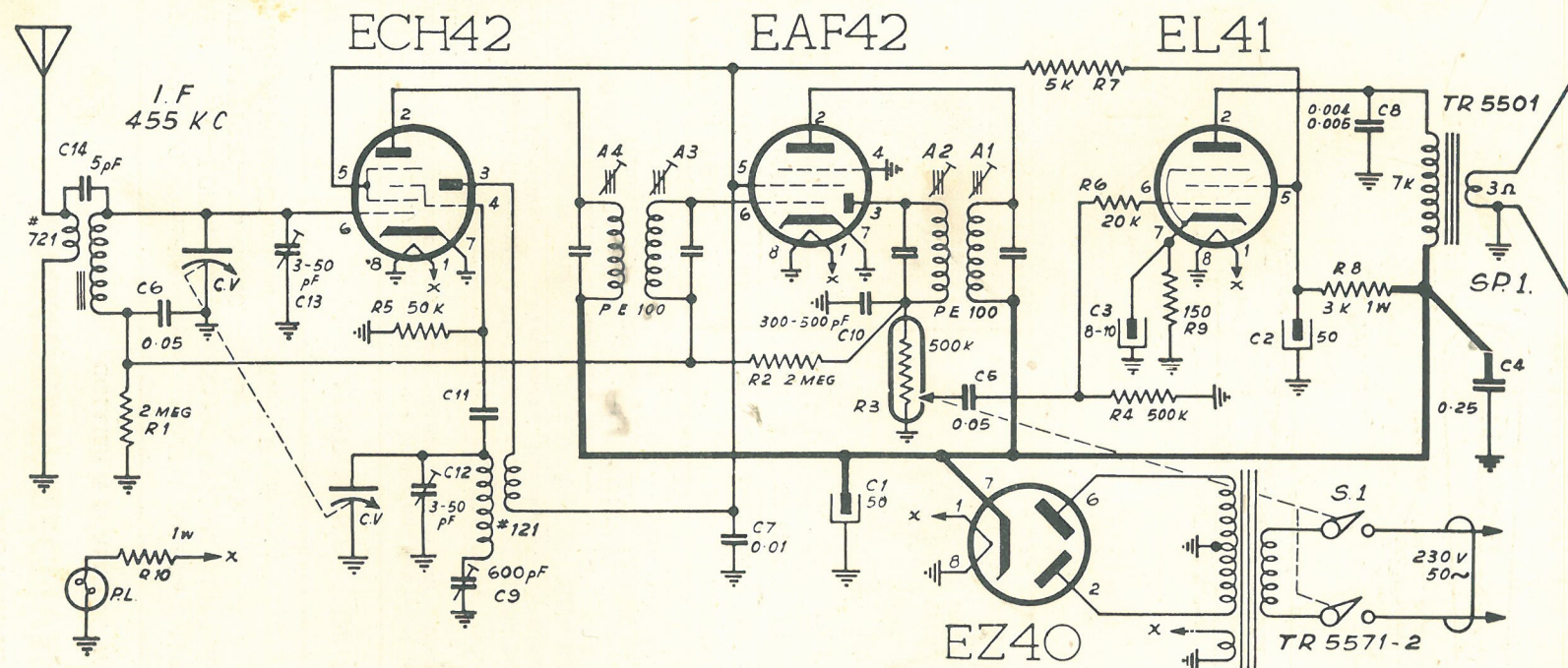
To set pointer, fully mesh variable condenser and set pointer at last reference mark at right end of dial. Set volume control at maximum and keep output from signal generator no higher than necessary to obtain output readings.

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 grid of ECH42.	455 Kc.	—	High freq. end	Across voice coil	A1, A2, A3, A4,	Adjust for maximum output
R.M.A. Standard	High side to ant. terminal	1400 Kc.	—	1400 Kc.	"	C12	" "
"	"	1400 Kc.	—	1400 Kc.	"	C13	" "
"	"	600 Kc.	—	Rock Variable	"	C9	" "

CAPACITORS			MISCELLANEOUS				RESISTORS		
Ref. No.	Cap.	Volts	Ref. No.	Res., Pri.	Res., Sec.		Ref. No.	Res.	Watts
C1	50 μ fd.	250	PE1000	13 ohm	13 ohm	I.F.	R1	2 meg.	$\frac{1}{2}$ watt
C2	50 "	250	PE1000	13 "	13 "	I.F.	R2	2 meg.	"
C3	10 "	250	721	18 "	2.2 "	B.C.	R3	500K ohm	Pot
C4	0.25 "	250	121	0.9 "	2.3 "	B.C.	R4	500K "	$\frac{1}{2}$ watt
C5-6	0.05 "	500		Volts	Volts	Volts	R5	50K "	"
C7	0.01 "	500	TR5571-2	230	175 aside	6.3	R6	20K "	"
C8	0.005 "	Mica		Type	Transformer		R7	5K "	"
C9	600 μ fd.	Padder	SP1	6 x 4 Elip.	7000 ohms to 3 ohms.		R8	3K "	1 watt
C10	500 "	Mica	SW1	D.P.S.T.	Switch attached to R3		R9	150 "	$\frac{1}{2}$ watt
C11	100 "	"	CV	2 Gang	Philips CP90906		R10	6 "	1 watt
C12-13	3-50 "	Trimmer	P.L.	6.5v. 0.3 amp	MES. Tub. Lamp				
C14	5 "	Ceramic							



DIAL STRINGING ARRANGEMENT
WORKING CORD LENGTH-15"



SCHEMATIC DIAGRAM MODEL 4154

VOLTAGE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Conv.	ECH42	6.2 a.c.	150	70	-2	70	0	—	—
I.F. Det.	EAF42	6.2 "	150	0	—	70	0	—	—
Output	EL41	6.2 "	145	3	—	120	0	3	—
Rect.	EZ40	6.2 "	145 ac	—	—	—	145 ac	155	—

RESISTANCE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Conv.	ECH42	—	500K	510K	50K	510K	1 meg.	—	—
I.F. Det.	EAF42	—	500K	500K	—	510K	1 "	—	—
Output	EL41	—	500K	150	500K	503K	520K	150	—
Rect.	EZ40	—	250	—	—	—	250	500K	—

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 common negative (chassis).

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.

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