



HIS MASTER'S VOICE

Service Sheet

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BROMLEY - ENFIELD

Model 545D/CRG

A dual-wave five-valve superheterodyne radio-gramophone with loctal valves. Available in two console cabinets of distinctive oak and veneer construction respectively.

CONTROLS: Tuning, Volume, Tone—On/Off, Wave-change—R/G.

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

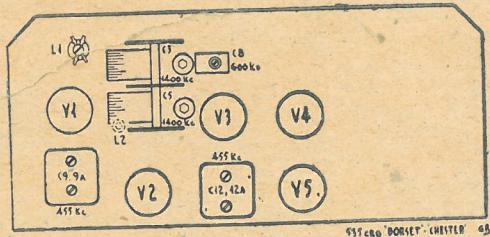
VALVE SOCKET VOLTAGES: Taken with—
Negative lead connected to chassis. Voltmeter 1000 ohms per volt. Volume control Off. No signal applied. Wave-change switch in broadcast position.

	Plate	Screen	Cathode
7S7 Mixer	215	80	1.4
7B7 I.F.	215	80	2
7C6 Det. Audio	80	—	—
7C5 Output	190	220	11
7Y4 Rectifier	290	—	—

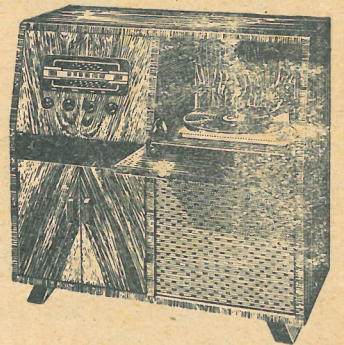
FREQUENCY RANGE: Broadcast, 535 kc—1700 kc. Short-wave, 5.95 mc—19mc.

POWER SUPPLY: 230 volts A.C.—50 cycles. Consumption: Receiver, 45 watts; Turntable, 25 watts.

CABINET DIMENSIONS: Bromley, Height 23in; Width 35½in; Depth 14½in
Enfield, Height 32in.; Width 32¼in.; Depth, 16in.



Dorset Chester



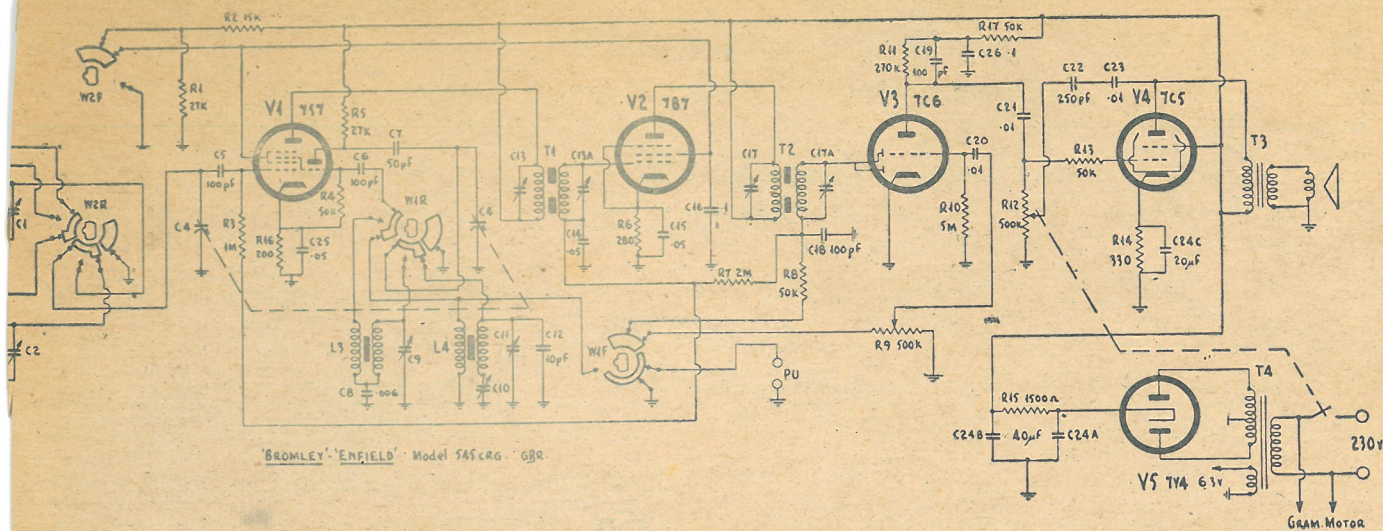
ALIGNMENT INSTRUCTIONS

Turn gang plates full in and set pointer to index at left-hand end of scale. Set output meter range selector to 50 milliwatts and connect across speaker voice coil. Turn receiver volume full on, then as successive adjustments of the trimmers increase the receiver output, reduce signal generator output to give approximately half scale deflection on the output meter. For I.F. alignment use a .1 mfd. condenser on the generator cable; for R.F. use a standard dummy antenna.

Connect Signal Gen. to	Set Sig. Gen. to	Radio Dial Setting	Adjust	Adjust for
1. C4 (rear gang stator)	455 kc	1500 kc	C13, C13A, C17, C17A	Max. output
2. Aerial lead	600 kc	600 kc	C10, L2*	Max. output
3. Aerial lead	1400 kc	1400 kc	C11, C2	Max. output
4. Aerial lead	1000 kc	1000 kc (Rock gang)	L4	Max. output
5. Aerial lead	6 mc	6 mc	L3, L1	Max. output
6. Aerial lead	18 mc	18 mc	C9, C1	Max. output

On broadcast repeat operations 2 and 3 until no further increase in receiver sensitivity can be obtained. The screwed cores of L2 and L4 should not be touched unless it is absolutely certain that the receiver is badly out of alignment; also it is only when this condition obtains that operation 4 should be carried out at all. NOTE.—Error in valve and trimmer layout. Designations L2 and L4 are transposed.

545D/CRG



BROMLEY-ENFIELD Model 545CRG. GBR.

DIAL STRINGING

Viewed from chassis rear

Condensers:

- C1, 2, 9, 11
- C3
- C4
- C5, 6, 18, 19
- C7
- C8
- C10
- C12
- C13, 19
- C14, 15, 25
- C16, 26
- C20, 21
- C22
- C23
- C24

Resistors:

- R1, 5
- R2
- R3
- R4, 8, 13, 17
- R6
- R7
- R9
- R10
- R11
- R12
- R14
- R15
- R16

Valves:

- V1
- V2
- V3
- V4
- V5
- L1
- L2
- L3
- L4
- T1
- T2
- T3
- T4
- W1
- W2
- S
- DR 93
- PO 231
- SC 1341
- LA 1182

Store Pt. No.

- 1500-F5
- 1500-P1
- 1500-H1
- 1500-R
- 1500-E
- 1500-X
- 1500-O9
- 1500-H
- 1500-I3
- 1500-A7
- 1500-C8
- 1500-B4
- 1500-K9
- 1500-B3
- 1500-N4

- Philips trimmer
- 2 pf. ceramicon
- Polar 2-gang C1042
- .0001 s.m.
- 50 pf. mica
- .006 mica
- Padder TP 11 d
- 10 pf. ceramicon
- I.F. trimmer base 130-130
- .05 350WV (paper)
- .01 500WV (paper)
- .01 500WV
- .00025 s.m.
- .01 750WV
- 40-40-20 Electro. 350v.

- 30K 1 watt
- 15K 2 watt
- 1 meg. ½ watt
- 50K ½ watt
- 280 ohm ½ watt
- 2 meg. ½ watt
- ½ meg. pot. less switch
- 5 meg. ½ watt
- 270K ½ watt
- ½ meg. pot. with switch
- 330 ohm 1 watt
- 1500 ohm 5 watt WW
- 200 ohm 1 watt

- 7S7-Mixer
- 7B7-I.F.
- 7C6-Det. Audio
- 7C5-Output
- 7Y4-Rectifier
- SW Aerial Coil
- BC Aerial Coil
- SW Osc. Coil
- BC Osc. Coil
- I.F. Xformer
- 2nd I.F. Xformer
- 5000 ohm Output Xformer
- + Elliptical Spkr.
- Power Xformer
- Switch shaft and clicker assy.
- Wafers 1
- Wafer 2
- Speaker H.M.V. elliptical
- Dial drum
- Dial pointer
- Dial scale
- Panel lamp