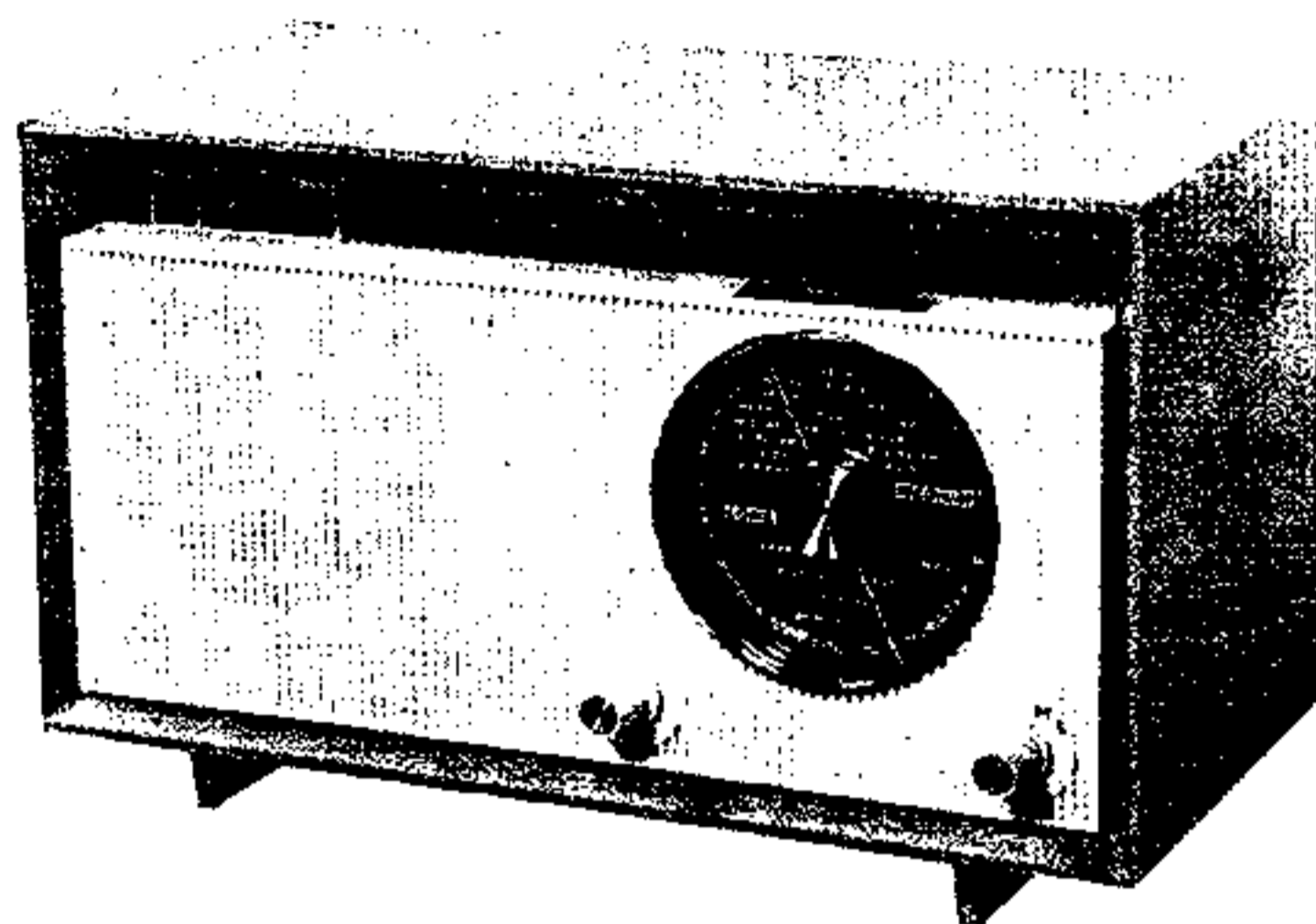


# PHILIPS



## RADIO RECEIVER TYPE B2G25U



### DESCRIPTION

The B2G25U is a mains-operated table model covering medium/long wavebands and housed in a grey moulded cabinet. The design features a printed circuit and a high impedance loudspeaker.

### SPECIFICATION

#### Valve Functions

V1	UCH81	Frequency changer.
V2	UBF89	I.F. Amplifier/Detector.
V3	UCL82	A.F. Amplifier and Output.
V4	UY85	Mains Rectifier.

#### Waveband Ranges

M.W. 187-500 metres.  
L.W. 1175-2000 metres.

#### Mains Supply Voltages

200-220 and 220-250 volts.

#### Consumption

60 watts.

#### Loudspeaker

4 in. dia, high Z (800Ω).

#### Output

1 watt.

#### Cabinet Dimensions

12½ in. width. 7¼ in. height. 6½ in. depth.

### CAUTION

- (i) Live chassis—check polarity.
- (ii) The L.S. may be replaced only with a high impedance type (800Ω).
- (iii) The speech coil is at H.T. potential.

### CHASSIS

#### Removal

Pull off the volume and w/change knobs, place the receiver face down on a protected surface and remove the backplate. Remove the two rear chassis screws, and the three screws securing the chassis to the front of the cabinet. Unsolder the loudspeaker leads and withdraw the chassis.

#### Assembly

Turn gang to maximum and set tuning drive coupling to a 9 o'clock position viewed from the rear of the cabinet. Carefully engage the pin on the gang with the slot in the tuner drive, before replacing the chassis fixing screws.

### TRIMMING INSTRUCTIONS

#### General notes

- (i) Output is observed on an A.C. Voltmeter (10v range) connected to the speech coil via. a 47kpf capacitor. V/C in maximum position.
- (ii) When trimming R.F. circuits, couple the generator to the receiver via. a few turns of insulated wire wound on the ferrite rod aerial.

Section	W/Band & Pointer	Frequency	Injection point	Adjust for max. output
I.F.	M.W. Gang at min.	470kc/s	G1V1 via. 47kpf	L8-7-6-5
Osc. and R.F.	M.W. Gang at max.	510kc/s	G1V1 via. 47kpf	L4
	M.W. 580kc/s	580kc/s	Loose coupling Trimming Note (ii)	L1
	M.W. 1570kc/s	1570kc/s	As above	C7
	L.W. 190kc/s	190kc/s	As above	L2

Note.—Switch to M.W. and recheck trimming.

OFFICIAL SERVICE AGENT :—

**AMALGAMATED ELECTRIC SERVICES LTD.**

WADDON FACTORY ESTATE

CROYDON

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# PHILIPS

# Model B2G25U

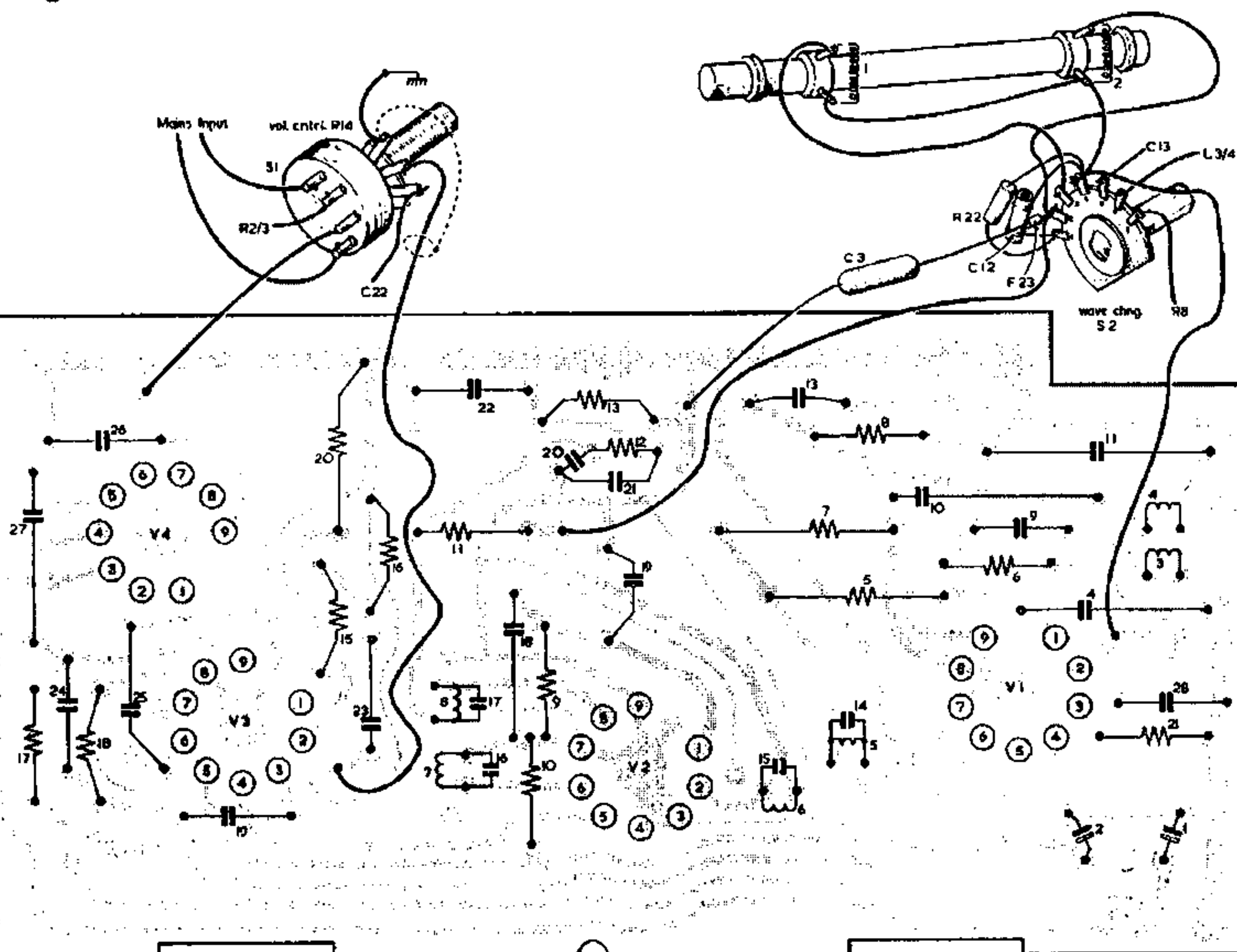
**General Description:** Four-valve (including rectifier), M.W./L.W. compact table model for A.C./D.C. 200-250 volts, 60 watts. Also known as Model 225U.

**Valves:** (V1) UCH81; (V2) UBF89; (V3) UCL82; (V4) UY85.

**Notes:** Live chassis, check polarity. The speaker may be replaced only with a high impedance type (800 ohms). The speech coil is at H.T. potential. Output 1 watt. R1 (8.5 W.), R2 (4.5 W.), R3 (11.0 W.), R4 (3.0 W.) are wire-wound. F23 is Ferroxcube bead.

**Alignment:** I.F. 470 kc/s. (L8, L7, L6, L5); M.W. 510 kc/s. (L4); 580 kc/s. (L1); 1570 kc/s. (C7). L.W. 190 kc/s. (L2). Output observed on A.C. volt meter (10-volt range) connected to speech coil via 47,000-pF. capacitor.

**Dismantling:** Pull off volume and wavechange knobs, place set face down on protected surface and remove back-plate. Remove two rear chassis screws and three screws securing chassis to front of cabinet. Unsolder speaker leads and withdraw chassis. **Assembly:** Turn gang to maximum and set tuning drive coupling to a 9 o'clock position viewed from rear of cabinet. Carefully engage pin on gang with slot in tuner drive, before replacing chassis fixing screws.



PRINTED WIRING PANEL—PHILIPS MODEL B2G25U

