

COMPONENTS

Component	Approx. Value (ohms)
Aerial SW coupling coil	0-7
Aerial MW coupling coil	24-0
Aerial LW coupling coil	58-0
Aerial SW tuning coil...	0-1
Aerial MW tuning coil...	2-25
Aerial LW tuning coil...	17-5
Detector SW tuning coil	

Pinout Diagram: A circular base with pins numbered 1 through 8. Pin 1 is labeled "EXT L5". Pin 2 is labeled "R20". Pin 3 is labeled "O B". Pin 4 is labeled "B". Pin 5 is labeled "B". Pin 6 is labeled "B". Pin 7 is labeled "B". Pin 8 is labeled "BASE".

OTHER COMPONENTS		Approx Values (ohms)
L1	Aerial SW coupling coil	0.7
L2	Aerial MW coupling coil	240
L3	Aerial LW coupling coil	500
L4	Aerial MW tuning coil...	0.1
L5	Aerial MW tuning coil...	2.25
L6	Aerial LW tuning coil...	17.5
L7	Osc. circ. SW tuning coil	0.1
L8	Osc. circ. MW manual tuning ...	3.0
L9	Osc. circ. LW manual tuning ...	7.5
L10	Oscillator SW reaction	0.8
L11	Oscillator MW reaction	1.75
L12	Oscillator circuit auto- matic MW tuning coils	3.5
L13	Oscillator circuit auto- matic MW tuning coils	5.5
L14	Oscillator circuit auto- matic MW tuning coils	10.0
L15	Oscillator circuit auto- matic LW tuning coils	10.0
L16	Oscillator circuit auto- matic LW tuning coils	10.0
L17	1st IF trans. ... Pri. ...	0.5
L18	1st IF trans. ... Sec. ...	2.75
L19	2nd IF trans. ... Pri. ...	4.0
L20	2nd IF trans. ... Sec. ...	4.0
L21	Speaker speech coil	4.0
L22	11T smoothing choke ...	150.0
L23	Mains filter chokes ...	3.0
L24	Mains filter chokes ...	3.0
T1	Output trans. ... Pri. ...	230.0
	Output trans. ... Sec. ...	0.8
S1a, b, x to S8a, b, x	Aerial circuit waveband switches	—
S4a, b, x to S8a, b, x	Aerial circuit automatic selector switches ...	—
S9a, b, x to S11a, b, x	Oscillator circuit wave- band switches ...	—
S12a, b, x to S16a, b, x	Oscillator circuit auto- matic selector switches	—
S17, S18	Mains switches, ganged R17 ...	—
F1, F2	Mains circuit fuses ...	—

Valve	Anode Voltage (V)	Anode Current (mA)	Screen Voltage (V)	Screen Current (mA)
V1 X65	205	2.0	80	3.2
	Oscillator			
V2 KTWG1	85	3.5	80	2.0
V3 1DH3	205	6.7	—	—
V4 KT35	120	0.7	205	10.0
V5 U31	190	52.0	—	—
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CIRCUIT ALIGNMENT

IF Stages.—Switch set to MW, turn tone control fully clockwise and gang condenser and volume control to maximum. Connect signal generator via a 0.1 μ F condenser to grid (top cap) of **V1**, and **E** socket. Leave existing top cap connector in place. Feed in 465 KC/S signal, and adjust **C46**, **C45**, **C44** and **C43** in turn for maximum output.

RF and Oscillator Stages.—Check that the pointer covers the 192m mark on the MW scale, when the gang is at minimum. If adjustment is required, slide the pointer up or down the drive wire. Connect signal generator, via a suitable dummy aerial, to **A** and **E** sockets.

Valve voltages and currents given in the table below are those measured in our receiver when it was operating on AC mains of 236V, using the 228-255V mains tapping. The receiver was tuned to the lowest wavelength on the MW band, and the volume control was at maximum, but there was no signal input.

Voltages were measured on the 400 V scale of a model 7 Universal Avometer, chassis being negative.

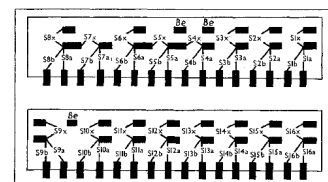
MW.—Switch set to MW, turn gang to minimum, and feed in a 192m (1,562.5 KC/S) signal. Adjust **C41** for maximum output. Tune to 220m on scale, feed in a 220m (1,363.6 KC/S) signal, and adjust **C33** for maximum output. Tune to 530m on scale, feed in a 530m (536 KC/S) signal, and adjust cores of **L8** and **L5** for maximum output.

LW.—Switch set to LW, tune to 1,000m on scale, feed in a 1,000m (300 KC/S) signal, and adjust **C42**, then **C32**, for maximum output. Tune to 1,750m on scale, feed in a 1,750m (171.4 KC/S) signal and adjust cores of **L9** and **L6** for maximum output.

Finally, check adjustments of all press-button trimmers.

IF Stages.—Switch set to MW, turn tone control fully clockwise, and gang condenser and volume control to maximum. Connect signal generator via a 0.1- μ F condenser to grid (top cap) of V1, and E socket. Leave existing top cap connector in place. Feed in a 465 KC/S signal, and adjust C46, C45, C44 and C43 in turn for maximum output.

RF and Oscillator Stages.—Check that the pointer covers the 192m mark on the MW scale, when the gang is at minimum. If adjustment is necessary, slide the pointer up or down the drive wire. Connect signal generator, via a suitable dummy aerial, to **A** and **E** sockets.



Diagrams of the press-button switch unit. The upper one is the view looking at the underside of the chassis, while the lower one shows the switches on the side of