

BUSH RADIO

Ned. Ver. v. Hist

Service Instructions



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MODEL VHF.61

FOR A.C. MAINS

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SPECIFICATION

BASIC DESIGN

When switched to long or medium waveband the circuit is a conventional 7-valve (including rectifier and tuning indicator) superhet, using Mullard valves in the following sequence:—

Frequency changer ECH 81 (V2), 1st I.F. Amplifier EF 89 (V3), 2nd I.F. Amplifier EF 89 (V4), Detector/AGC Diode and Audio Amplifier EABC 80 (V5), Tuning indicator EM 81 (V6), output EL 84 (V7), Full wave rectifier, EZ 80 (V8).

When switched to the V.H.F. band the circuit is modified by the addition of two further stages. The valve sequence is:—

V.H.F. Amplifier and Mixer ECC 85 (V1), 1st I.F. Amplifier, Heptode section of ECH 81 (V2), 2nd I.F. Amplifier EF 89 (V3), 3rd I.F. Amplifier EF 89 (V4), Ratio Detector and Audio Amplifier, two diodes and triode of EABC 80 (V5), Tuning Indicator EM 81 (V6), output EL 84 (V7), Full-wave rectifier EZ 80 (V8).

V.H.F. Oscillator and R.F. Tuning is by means of iron-cored coils moved by a cord drive system attached to the spindle of the A.M. tuning capacitor. Separate I.F. transformers are used for A.M. (470 kc/s) and F.M. (10.7 mc/s), and the appropriate set of I.F. Transformers is selected by means of slider switches operated by piano key type push buttons.

Negative feedback over the audio stages is taken from the secondary of the output transformer.

VALVES

Mullard Type	Heaters
ECC 85 (V1)	6.3V, 0.435A.
ECH 81 (V2)	6.3V, 0.1A.
EF 89 (V3)	6.3V, 0.2A.
EF 89 (V4)	6.3V, 0.2A.
EABC 80 (V5)	6.3V, 0.4A.
EM 81 (V6)	6.3V, 0.1A.
EL 84 (V7)	6.3V, 0.36A.
EZ 80 (V8)	6.3V, 0.6A.

VOLTAGE RANGE

100/120V. and 200/250V. 40 to 100 c/s.

MAINS CONSUMPTION

65 watts approximately.

SCALE LAMPS

1 at 6.5V, 0.3A.

AUDIO OUTPUT

2.5 watts approximately.

WAVEBANDS

Long ..	280 kc/s—155 kc/s	1,070—1,900 metres.
Medium ..	1,604 kc/s—535 kc/s	187—560 ..
V.H.F. ..	87.5 mc/s—100 mc/s	3.4—3 ..

INTERMEDIATE FREQUENCIES

A.M.—470 kc/s.

V.H.F.—10.7 mc/s.

CONTROLS (from left to right)

(a) Concentric control, tone outer, volume inner.

(b) Piano keys OFF, GRAM, V.H.F., M.W., L.W.

(c) Tuning.

GRAMOPHONE PICK-UP

The pick-up sockets are situated at the back of the chassis on the left.

AERIAL CONNECTIONS

L and M—an internal ferrite rod aerial is fitted, which is permanently connected. Sockets are also provided for an external aerial if desired.

V.H.F.—a loaded dipole is fitted to the cabinet back. This is connected to the receiver by means of an 80Ω line and 2-pin plug. An external aerial may be employed if necessary.

EXTERNAL SPEAKER

Use a permanent magnet speaker (approx. 2.5Ω impedance) and connect to the two sockets at the back of the chassis on the right.

CABINET DIMENSIONS

Height 11½ ins. Depth 7½ ins. Width 16½ ins.

Bush Tv 62 Service Manual

Richard Bailey

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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