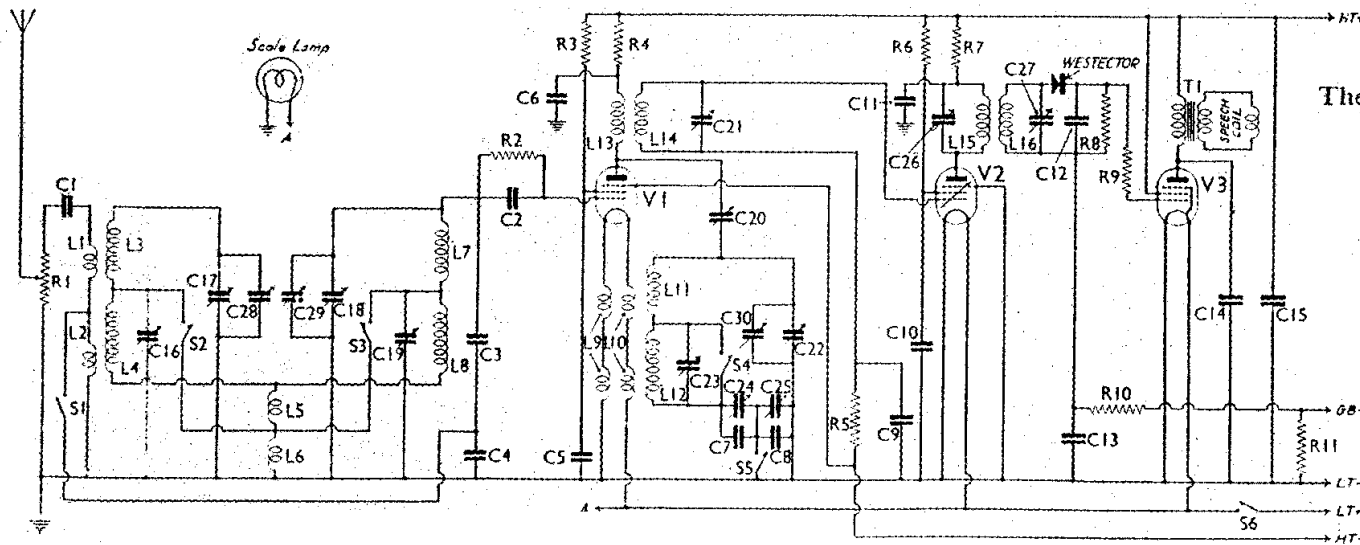


# BUSH - SBI



## COMPONENTS AND VALUES

Resistances		Value (Ohms)
R1	Manual volume control	75,000
R2	V1 grid resistance	500,000
R3	V1 S.G. feed resistance	8,000
R4	V1 anode decoupling	8,000
R5	A.V.C. circuit decoupling	2,000,000
R6	V2 S.G. feed resistance	30,000
R7	V2 anode decoupling	8,000
R8	Westector load	250,000
R9	V3 grid H.F. stopper	150,000
R10	V3 grid decoupling	250,000
R11	Automatic G.B. resistance	1,500

## VALVE ANALYSIS

Valve	Anode Volts	Anode Curr. (mA)	Screen Volts	Screen Curr. (mA)
V1. SP2	110	1.15	125	0.35
V2. VP2	105	2.43	105	0.63
V3. PM22A	133	0.85	134	0.2

The circuit diagram of the Bush SBI. A special combined H.T. and G.B. battery is employed, so that H.T.— and G.B.+ are common.

Condensers		Value (μF)
C1	Aerial series condenser	0.0005
C2	V1 grid condenser	0.0005
C3	Image suppressing condensers	Small
C4		0.0005
C5*	V1 S.G. by-pass	0.1
C6*	V1 anode decoupling	0.1
C7	Oscillator padding condensers, fixed	0.0022
C8		0.0011
C9*	A.V.C. circuit decoupling	0.1
C10*	V2 S.G. by-pass	0.1
C11*	V2 anode decoupling	0.1
C12	Westector reservoir	0.0001
C13	V3 grid decoupling	0.25
C14	V3 anode tone compensator	0.003
C15	H.T. battery reservoir	2.0
C16	Band-pass pri. L.W. trimmer	—
C17	Band-pass pri. tuning	—
C18	Band-pass sec. tuning	—
C19	Band-pass sec. L.W. trimmer	—
C20	Oscillator coupling (anode)	—
C21	1st I.F. sec. tuning, pre-set	—
C22	Oscillator tuning	—
C23	Oscillator L.W. trimmer	—
C24	Oscillator padding condensers, pre-set	—
C25		—
C26	2nd I.F. pri. tuning, pre-set	—
C27	2nd I.F. sec. tuning, pre-set	—
C28	Band-pass pri. trimmer, pre-set	—
C29	Band-pass sec. trimmer, pre-set	—
C30	Oscillator trimmer, pre-set	—

\* In condenser block.

Other Components		Value (Ohms)
L1	Aerial coupling coils	3.25
L2		14.5
L3	Band-pass pri. coils	3.25
L4		14.5
L5	Band-pass coupling coils	3.5
L6		0.5
L7	Band-pass sec. coils	3.25
L8		14.5
L9	Oscillator coupling coils	0.1
L10		0.1
L11	Oscillator tuning coils	3.75
L12		9.5
L13	1st I.F. transformer	Pri. 70.0
L14		Sec. 70.0
L15	2nd I.F. transformer	Pri. 70.0
L16		Sec. 70.0
T1	Speaker input trans.	Pri. 600.0
		Sec. 0.2
S1-S5	Waveband switches (ganged)	—
S6	Filament switch (with R1)	—