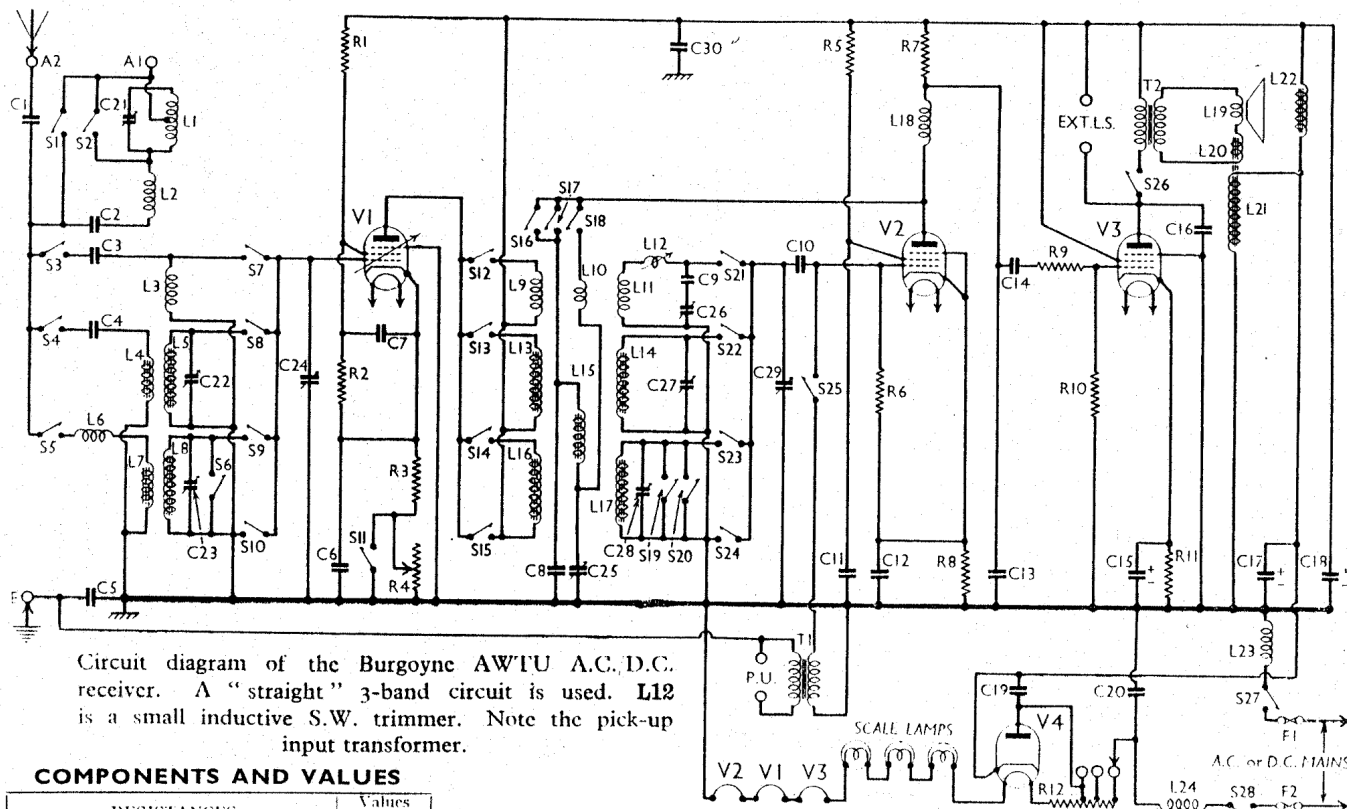


BURGOYNE - AWTU & AWTUG



COMPONENTS AND VALUES

RESISTANCES	Values (ohms)
R1	V1 S.G. H.T. potential divider
R2	V1 fixed G.B. resistance
R3	V1 gain control
R4	V2 S.G. H.T. feed
R5	V2 grid leak
R6	V2 anode load
R7	V2 G.B. resistance (gram.)
R8	V3 C.G. R.F. stopper
R9	V3 C.G. resistance
R10	V3 G.B. resistance
R11	V3 G.B. resistance
R12	Heater circuit ballast

* 500 + 100 + 100 Ω

CONDENSERS	Values (μF)
C1	Aerial series condensers
C2	S.W. aerial coupling
C3	M.W. aerial coupling
C4	Earth blocking
C5	V1 cathode by-pass
C6	V1 S.G. by-pass
C7	V2 anode R.F. by-pass
C8	V2 anode R.F. by-pass
C9	H.F. trans. fixed S.W. trimmer
C10	V2 C.G. condenser
C11	V2 S.G. by-pass
C12	V2 cathode by-pass
C13	V2 anode R.F. by-pass
C14	V2 to V3 A.F. coupling
C15	V3 cathode by-pass
C16	Fixed tone corrector
C17	H.T. smoothing
C18	H.T. smoothing
C19	V4 anode-cathode by-pass
C20	Mains circuit R.F. by-pass
C21	Droitwich rejector tuning
C22	Aerial circuit M.W. trimmer
C23	Aerial circuit L.W. trimmer
C24	Aerial circuit tuning
C25	Reaction control
C26	H.F. trans. S.W. trimmer
C27	H.F. trans. M.W. trimmer
C28	H.F. trans. L.W. trimmer
C29	H.F. trans. tuning
C30	H.T. supply R.F. by-pass

* Electrolytic. † Variable. ‡ Pre-set.

OTHER COMPONENTS	Approx. Values (ohms)
L1	Droitwich rejector coil
L2	Aerial series choke
L3	Aerial S.W. tuning coil
L4	Aerial M.W. coupling coil
L5	Aerial L.W. coupling coil
L6	Aerial L.W. choke
L7	Aerial L.W. coupling coil
L8	Aerial L.W. tuning coil
L9	H.F. trans. S.W. pri.
L10	S.W. reaction coil
L11	H.F. trans. S.W. sec.
L12	S.W. inductance trimmer
L13	H.F. trans. M.W. pri.
L14	H.F. trans. M.W. sec.
L15	M.W. and L.W. reaction coil
L16	H.F. trans. L.W. pri.
L17	H.F. trans. L.W. sec.
L18	V2 anode R.F. choke
L19	Speaker speech coil
L20	Hum neutralising coil
L21	Speaker field coil
L22	H.T. smoothing choke
L23	Mains circuit filter chokes
L24	Mains circuit filter chokes
T1	Gram. pick-up trans.
T2	Speaker input trans.
S1-24	Waveband switches
S25	Gram. pick-up switch
S26	Int. speaker switch
S27-28	Mains switches, ganged
F1, F2	Mains circuit fuses

GENERAL NOTES

Switches.—S1-S25 are the wave-change and pick-up switches, in three ganged rotary units, shown in the under-chassis view. The arrows indicate the

Switch	L.W.	M.W.	S.W.	Gram.
S1	O	O	C	O
S2	O	C	O	O
S3	O	O	C	O
S4	O	C	O	O
S5	C	O	O	O
S6	O	C	O	O
S7	O	O	C	O
S8	C	O	O	O
S9	O	C	O	O
S10	O	O	C	O
S11	O	C	O	O
S12	O	O	C	O
S13	C	O	O	O
S14	O	C	O	O
S15	C	O	O	O
S16	O	C	O	O
S17	O	O	C	O
S18	O	C	O	O
S19	O	O	C	O
S20	O	C	O	O
S21	O	O	C	O
S22	O	C	O	O
S23	C	O	O	O
S24	O	O	C	O
S25	O	O	O	C

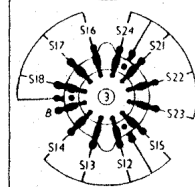
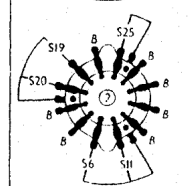
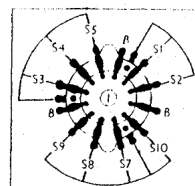
VALVE ANALYSIS

Valve voltages and currents given in the table below are those measured in our receiver when it was operating on mains of 230 V, using the 220-230 V tapping on the mains resistance. The receiver was tuned to the lowest wavelength on the medium band and the volume control was at maximum, but the reaction control was at minimum. There was no signal input. Voltages were measured on the 1,200 V scale of an Avometer, with chassis as negative.

Valve	Anode Voltage (V)	Anode Current (mA)	Screen Voltage (V)	Screen Current (mA)
V1 VP13B	180	5.5	130	1.8
V2 SP13B	95	1.4	65	0.5
V3 PP36	155	12.0	180	6.2
V4 V30F

† Cathode to chassis 200 V, D.C.

directions in which the units are viewed in the detailed diagrams on this page.



The table above gives the switch positions for the various control settings, starting from the fully anti-clockwise position. O indicates open, and C, closed.

S26 is the internal speaker switch, at the rear of the chassis, which opens when the external speaker plug is inserted and rotated anti-clockwise.

Continued overleaf

Switch diagrams, as seen from the rear of the underside of the chassis.