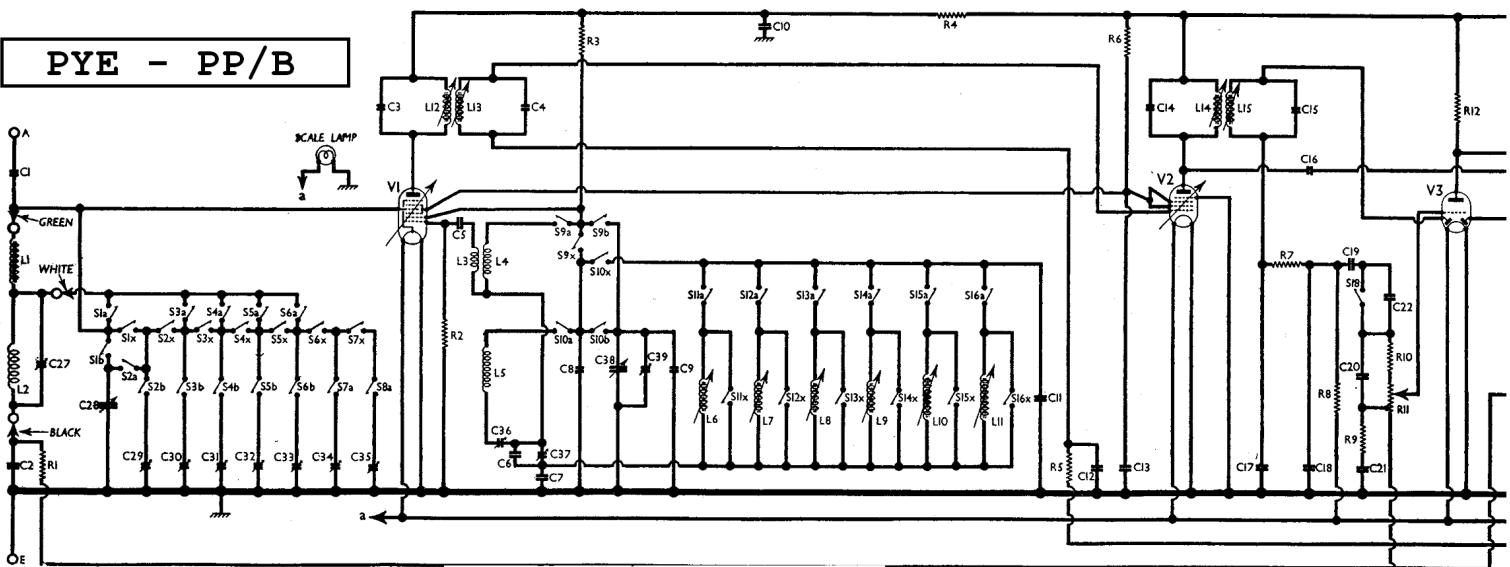


PYE - PP/B



CONDENSERS		Values (μF)
C1	Ext. aerial series condenser	0.000005
C2	V1 pentode CG decoupling	0.1
C3	1st IF transformer fixed tuning condenser	0.00007
C5	V1 osc. CG condenser	0.0002
C6	Osc. circuit MW fixed	
C7	Oscillator reaction coupling	0.0009
C8	Osc. LW and auto trimmer	0.00003
C9	Osc. circ. MW fixed	
C10	V1 anode RF by-pass	0.1
C11	Osc. circuit auto tuning	0.00063
C12	V2 CG decoupling	0.1
C13	V1, V2 SG's decoupling	0.1
C14	2nd IF transformer fixed	0.00006
C15	tuning condensers	0.00008
C16	Coupling to V3 AVC diode	0.00002
C17	IF by-pass condensers	0.0001
C18	AF coupling to V3 triode	0.05
C19	Parts of tone compensating	0.0002
C21	circuit	0.01
C22	Bass attenuator	0.0005
C23	AF coupling to T1	0.1
C24	High-note attenuator	0.0001
C25	Part of fixed tone corrector	0.001
C26*	HT reservoir condenser	8.0
C27†	Frame aerial MW trimmer	—
C28†	Frame aerial manual tuning	—
C29†	Aerial LW trimmer...	—
C30†	Aerial circuit MW tuning condensers	—
C31†	Aerial circuit LW tuning condensers	—
C32†	Osc. circuit LW tracker	—
C33†	Osc. circuit MW tracker	—
C34†	Osc. circuit manual tuning	—
C35†	Osc. circuit MW trimmer...	—
C36†		—
C37†		—
C38†		—
C39†		—

* Electrolytic. † Variable. Pre-set.

OTHER COMPONENTS		Approx. Values (ohms)
L1	Frame LW loading coil	6.0
L2	Frame aerial winding	1.0
L3	Oscillator MW reaction coil	0.5
L4	Osc. circuit MW tuning coil	2.0
L5	Osc. circuit LW tuning coil	4.5
L6	Oscillator circuit MW auto tuning coils	0.5
L7	Osc. circuit LW auto tuning coils	2.0
L8	Oscillator circuit LW auto tuning coils	2.0
L9	Oscillator circuit LW auto tuning coils	4.3
L10	Oscillator circuit LW auto tuning coils	4.3
L11	1st IF trans. { Pri.	10.5
L12	{ Sec.	10.5
L13	2nd IF trans. { Pri.	10.5
L14	{ Sec.	10.5
L15	Speaker speech coil	2.4
T1	Intervalve { Pri.	950.0
	{ Sec., total	8,400.0
T2	Output { Pri., total	950.0
	trans. { Sec.	0.2
S1a, b, x	Aerial circuit waveband switches	—
S2a, b, x	Aerial circuit auto selector to S8a	—
S3a, b, x	Oscillator circuit waveband switches	—
S10a, b, x	Oscillator circuit auto selector switches	—
S11a, x to	GB circuit switch	—
S16a, x	HT circuit switch	—
S17x	LT circuit switch	—
S17y	Bass control switch	—
S17z	"Top" control switch	—
S18		—
S19		—

VALVE ANALYSIS

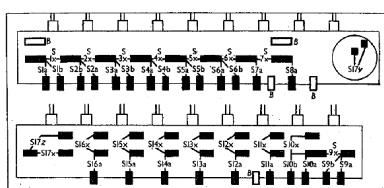
Valve voltages and currents given in the table below are those measured in our receiver when it was operating with a new HT battery reading 142 V on load. The receiver was tuned to the lowest wavelength on the MW band and the volume control was at maximum, but there was no signal input, as L2 was short-circuited.

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

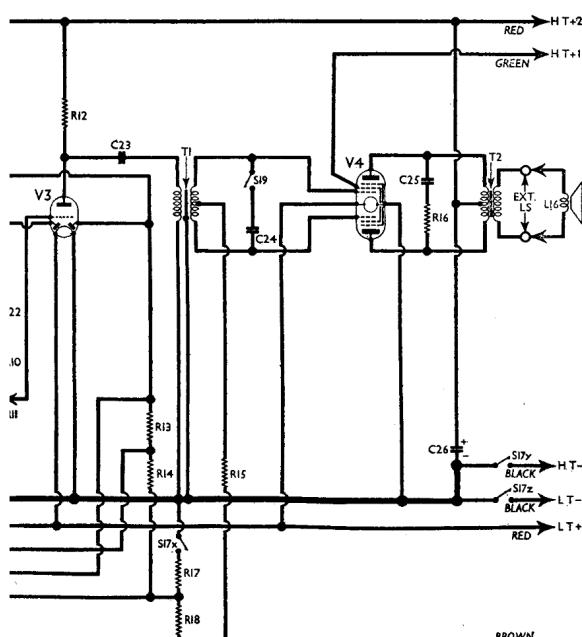
Valve	Anode Voltage (V)	Anode Current (mA)	Screen Voltage (V)	Screen Current (mA)
V1 FC2A	{ 128 Oscill.	0.5 77 1.7	49	0.9
V2 VP2B	131	1.5	49	0.5
V3 TDD2A	68	0.8	—	—
V4 QP22B	130†	2.1	105	0.8

† Each anode.

If as in our case V2 should become unstable when its anode and screen currents are being measured, it can be stabilised by connecting a 0.1 μF condenser from top cap to chassis.



Diagrams of the press-button unit. Above, the side facing the chassis deck; below, the side seen from beneath the chassis.



CIRCUIT ALIGNMENT

In all cases, the signal from the generator is fed into the set by coupling to the frame aerials. A single turn of wire round the cabinet, or even some distance away, should provide adequate coupling.

IF Stages.—Press MW button, and tune to higher wavelength end of scale. Feed in a 467 KC/S signal, and adjust cores of L12, L13, L14 and L15 for maximum output. Repeat these adjustments carefully.

RF and Oscillator Stages.—With gang at maximum, pointer should be at the tops of the clear glass strips on which the scales are printed.

MW.—Press MW button, tune to 210m on scale, feed in a 210m (1,426 KC/S) signal, and adjust C39, then C27 (on frame assembly) for maximum output. Feed in a 520m (576 KC/S) signal, tune it in, and adjust C37 for maximum output while rocking the gang for optimum results. Repeat the MW adjustments.

LW.—Press LW button, tune to 1,800 m on scale, feed in an 1,800 m (166.7 KC/S) signal, and adjust C36 for maximum output. Tune to 1,300 m on scale, feed in a 1,300 m (230 KC/S) signal, and adjust C29 for maximum output, rocking the gang slightly if necessary. Repeat the LW adjustments.