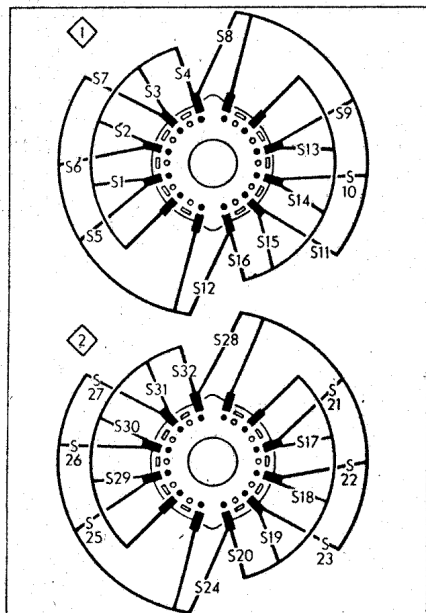


# VIDOR - 361

## Switch Diagrams



Valve	Anode Voltage (V)	Anode Current (mA)	Screen Voltage (V)	Screen Current (mA)
V1 TP25	112	0.5	48	0.8
V2 VP23	82	2.5	48	0.15
V3	112	0.8	—	—
HL23DD	60	0.6	—	—
V4 PEN25	108	4.8	112	1.3

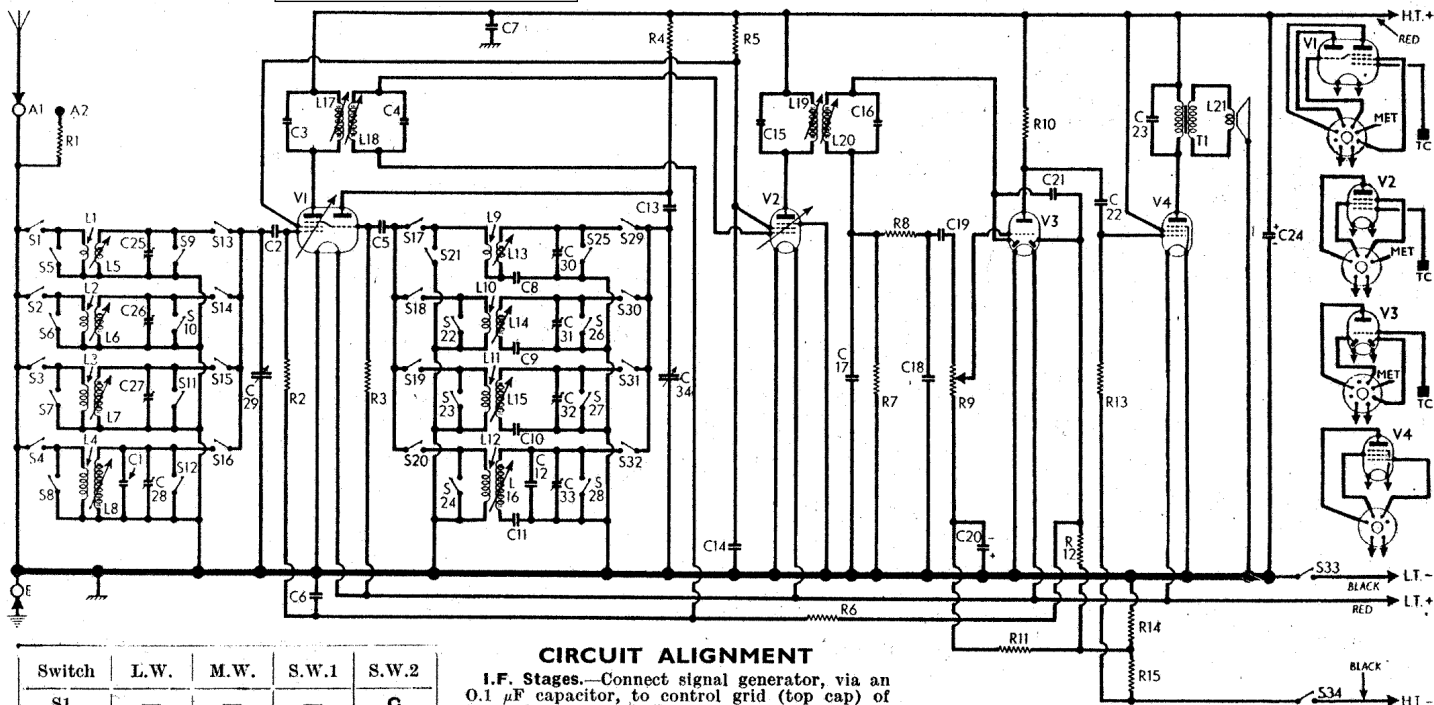
CAPACITORS		Values (μF)	Location
C1	L.W. fixed trim. ...	0.000065	H3
C2	V1 pent. C.G. ...	0.0001	B1
C3	1st I.F. transformer {	0.000065	A2
C4	tuning ...	0.000065	A2
C5	V1 osc. C.G. ...	0.0002	G4
C6	A.V.C. decoupling ...	0.1	H4
C7	H.T. R.F. by-pass ...	0.1	F4
C8	S.W.2 tracker ...	0.005	F3
C9	S.W.1 tracker ...	0.00148	G3
C10	M.W. tracker ...	0.000645	E3
C11	L.W. tracker ...	0.00025	E4
C12	L.W. fixed trim. ...	0.00012	E3
C13	Osc. anode coup. ...	0.0001	G4
C14	V1, V2 S.G.'s decoup. ...	0.1	G4
C15	2nd I.F. transformer {	0.000065	C2
C16	tuning ...	0.000075	C2
C17	I.F. by-passes ...	0.0002	F4
C18	A.F. coupling ...	0.01	G4
C19	V3 G.B. decoup. ...	25.0	E4
C20*	A.V.C. coupling ...	0.0001	F4
C21	A.F. coupling ...	0.01	E4
C22	Tone corrector ...	0.005	E4
C23	H.T. reservoir ...	2.0	G4
C24*	Aerial S.W.2 trim. ...	0.00004	G3
C25†	Aerial S.W.1 trim. ...	0.00004	H3
C26†	Aerial M.W. trim. ...	0.00004	H3
C27†	Aerial L.W. trim. ...	0.00004	H3
C28†	Aerial tuning ...	0.000532§	B1
C29†	Osc. S.W.2 trim. ...	0.00004	F3
C30†	Osc. S.W.1 trim. ...	0.00004	E3
C31†	Osc. M.W. trim. ...	0.00004	E3
C32†	Osc. L.W. trim. ...	0.00004	E3
C33†	Oscillator tuning ...	0.000532§	B1

RESISTORS		Values (ohms)	Location
R1	Aerial series ...	47,000	H4
R2	V1 pent. C.G. ...	1,000,000	B1
R3	V1 osc. C.G. ...	47,000	G4
R4	Osc. H.T. feed ...	10,000	H4
R5	S.G.'s H.T. feed ...	68,000	G4
R6	A.V.C. decoupling ...	470,000	F4
R7	Slg. diode load ...	470,000	F4
R8	I.F. stopper ...	47,000	F4
R9	Volume control ...	1,000,000	E3
R10	V3 triode load ...	100,000	F4
R11	V3 G.B. decoup. ...	1,000,000	E3
R12	A.V.C. diode load ...	1,000,000	F4
R13	V4 C.G. resistor ...	1,000,000	E4
R14	Fixed G.B. and ...	120	E4
R15	A.V.C. delay ...	180	E4

OTHER COMPONENTS		Approx. Values (ohms)	Location
L1	Aerial coupling coils	0.1	G3
L2		0.15	H3
L3		0.4	H3
L4		80.0	H4
L5	Aerial tuning coils	Very low	G3
L6		0.4	H3
L7		1.8	H3
L8		7.5	H4
L9		0.1	F3
L10	Oscillator reaction coils	0.2	F3
L11		1.0	E3
L12		2.7	E3
L13		Very low	F3
L14	Oscillator tuning coils	0.4	F3
L15		1.4	E3
L16		3.0	E3
L17	1st I.F. { Pri. ...	8.0	A2
L18	trans. { Sec. ...	8.0	A2
L19	2nd I.F. { Pri. ...	8.0	C2
L20	trans. { Sec. ...	8.0	C2
L21	Speech coil	3.0	—
T1	Speaker { Pri. ...	675.0	—
	trans. { Sec. ...	0.2	—
S1-S32	Waveband switches	—	F3
S33, S34	Battery switches, ganged R9	—	E3

\* Electrolytic. † Variable. ‡ Pre-set. § "Swing" value, min. to max.

Intermediate frequency 456 kc/s.



## CIRCUIT ALIGNMENT

**I.F. Stages.**—Connect signal generator, via an 0.1 μF capacitor, to control grid (top cap) of V1 and chassis. Switch set to L.W., tune to 2,000 m on scale, short-circuit C34 (rear section of gang), and feed in a 456 kc/s (657.8 m) signal. Adjust the cores of L20, L19, L18 and L17 (location references C2, A2), in that order, for maximum output.

**R.F. and Oscillator Stages.**—With the gang at maximum capacitance the pointer should be horizontal. Transfer "live" signal generator lead to A1 socket, via a suitable dummy aerial.

**S.W.2.**—Switch set to S.W.2, tune to 15 m on scale, feed in a 15 m (20 Mc/s) signal, and adjust C30 (C1) and C25 (B1) for maximum output. Tune to 50 m on scale, feed in a 50 m (6 Mc/s) signal, and adjust the cores of L13 (C1) and L5 (B1) for maximum output.

**S.W.1.**—Switch set to S.W.1, tune to 50 m on scale, feed in a 50 m (6 Mc/s) signal, and adjust C31 (D1) and C26 (B1) for maximum

output. Tune to 180 m on scale, feed in a 180 m (1.66 Mc/s) signal, and adjust the cores of L14 (C1) and L6 (A1) for maximum output.

**M.W.**—Switch set to M.W., tune to 200 m on scale, feed in a 200 m (1,500 kc/s) signal, and adjust C32 (D1) and C27 (A1) for maximum output. Tune to 550 m on scale, feed in a 550 m (545 kc/s) signal, and adjust the cores of L15 (C1) and L7 (A1) for maximum output.

**L.W.**—Switch set to L.W., tune to 1,000 m on scale, feed in a 1,000 m (300 kc/s) signal, and adjust C33 (D1) and C28 (A1) for maximum output. Tune to 2,000 m on scale, feed in a 2,000 m (150 kc/s) signal, and adjust the cores of L16 (D1) and L8 (A2) for maximum output.

Switch	L.W.	M.W.	S.W.1	S.W.2
S1	—	—	—	—
S2	—	—	—	—
S3	—	—	—	—
S4	—	—	—	—
S5	—	—	—	—
S6	—	—	—	—
S7	—	—	—	—
S8	—	—	—	—
S9	—	—	—	—
S10	—	—	—	—
S11	—	—	—	—
S12	—	—	—	—
S13	—	—	—	—
S14	—	—	—	—
S15	—	—	—	—
S16	—	—	—	—
S17	—	—	—	—
S18	—	—	—	—
S19	—	—	—	—
S20	—	—	—	—
S21	—	—	—	—
S22	—	—	—	—
S23	—	—	—	—
S24	—	—	—	—
S25	—	—	—	—
S26	—	—	—	—
S27	—	—	—	—
S28	—	—	—	—
S29	—	—	—	—
S30	—	—	—	—
S31	—	—	—	—
S32	—	—	—	—