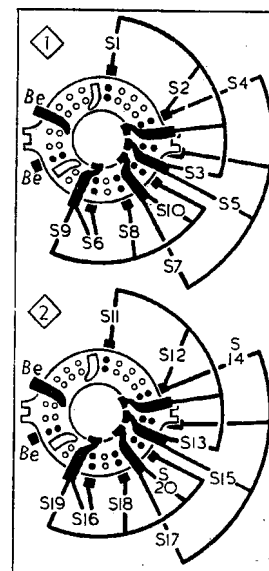


Plan view of the chassis. The scale lamps are normally fixed to the sub-baffle. F1 is a soft-metal link holding two spring-loaded hooks together.

Waveband Switch Units



Diagrams of the waveband switch units, drawn as seen from the rear of an inverted chassis. Below the diagrams is the associated table.

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VALVE ANALYSIS

Valve voltages and currents given in the table below are those measured in our receiver

Valve	Anode		Screen	
	V	mA	V	mA
V1 ECH42	225 Oscillator	2.8	88	3.0
V2 EF41	90	3.7	88	2.0
V3 EBC41	225	5.7	88	2.0
V4 EL41	95	0.6	88	2.0
V5 EZ40	235	32.0	225	4.4
	236†	—	—	—

† Each anode, A.C.

COMPONENTS AND VALUES

RESISTORS		Values	Locations
R1	V1 C.G. ...	1.5MΩ	H3
R2	V1 osc. C.G. ...	33kΩ	G3
R3	V1 osc. stopper ...	47Ω	G4
R4	Osc. H.T. feed ...	33kΩ	G4
R5	S.G. feed ...	27kΩ	G4
R6	I.F. stopper ...	47kΩ	G4
R7	A.G.C. decoupling ...	1.5MΩ	G4
R8	Signal diode load ...	330kΩ	F3
R9		68kΩ	E3
R10	Tone corrector ...	68kΩ	E3
R11	Volume control ...	2.65MΩ	F3
R12	V3 C.G. ...	2.2MΩ	E4
R13	Grid stopper ...	47kΩ	E3
R14	Part tone control ...	560kΩ	E3
R15	V3 triode load ...	100kΩ	F4
R16		100kΩ	F4
R17	V4 C.G. ...	560kΩ	F4
R18	V4 grid stopper ...	1kΩ	F4
R19	G.B. decoupling ...	6.8MΩ	G4
R20	Common G.B. ...	180Ω	E4
R21	Neg. feed-back potential divider	220kΩ	E4
R22		1MΩ	E4
R23	H.T. smoothing ...	560kΩ	E4
R24		1.2kΩ	C1

OTHER COMPONENTS		Approx. values (ohms)	Locations
L1	I.F. filter coil ...	37.0	A2
L2	Aerial coupling coils	1.8	A1
L3		100.0	A1
L4		183.0	A2
L5	Aerial tuning coils	Very low	A1
L6		6.0	A1
L7		200.0	A2
L8	Oscillator reaction coils ...	2.5	A2
L9		0.5	A2
L10		2.6	A2
L11	Oscillator tuning coils ...	5.0	A2
L12		Very low	A2
L13		6.8	A2
L14	1st I.F. trans. { Pri. Sec. }	190.0	A2
L15		6.8	B2
L16	2nd I.F. trans. { Pri. Sec. }	6.8	B2
L17		6.8	C2
L18	Speech coil ...	6.8	C2
L19		2.8	—
T1	Primary ...	770.0	G3
T2	Secondary, total ...	0.7	G3
F1	Primary, total ...	74.0	D1
	H.T. sec., total ...	400.0	D1
	Heater sec. ...	Very low	D2
	Heat coil fuse ...	—	D2

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CAPACITORS		Values	Locations
C1	Aerial coupling ...	18pF	J3
C2	V1 C.G. ...	220pF	H3
C3	1st I.F. trans. { tuning ... }	115pF	B2
C4		115pF	B2
C5	V1 osc. C.G. ...	56pF	H4
C6	L.W. osc. trimmer	33pF	J4
C7	Osc. anode coupling	470pF	H4
C8	S.G. decoup. ...	0.22μF	H3
C9	2nd I.F. trans. { tuning ... }	115pF	C2
C10		115pF	C2
C11	I.F. by-pass ...	82pF	G4
C12	A.G.C. decoupling	0.047μF	G4
C13	Tone compensators {	390pF	E3
C14		0.01μF	E3
C15	A.F. coupling ...	0.0033μF	E3
C16	E.-B. coupling ...	0.022μF	E4
C17	Parts tone control {	10pF	E3
C18		56pF	E3
C19	Tone corrector ...	0.1μF	F4
C20	A.F. coupling ...	0.01μF	F4
C21	I.F. by-pass ...	150pF	F4
C22	R.F. by-pass ...	0.0022μF	G4
C23*	G.B. by-pass ...	100μF	J3
C24	Tone correction ...	0.0047μF	F3
C25	R.F. by-pass ...	0.022μF	C1
C26*	H.T. smoothing ...	47μF	A1
C27*		47μF	A1
C28†	I.F. filter tune ...	30pF	A2
C29†	S.W. aerial trim. ...	50pF	J3
C30†	M.W. aerial trim. ...	25pF	J3
C31†	L.W. aerial trim. ...	25pF	J4
C32†	Aerial tuning ...	492pF	B1
C33†	S.W. osc. tracker ...	125pF	J4
C34†	M.W. osc. tracker	575pF	J4
C35†	L.W. osc. tracker ...	175pF	J4
C36†	S.W. osc. trimmer	30pF	J4
C37†	M.W. osc. trimmer	30pF	H4
C38†	L.W. osc. trimmer	30pF	J4
C39†	Oscillator tuning ...	492pF	B2

* Electrolytic. † Variable. ‡ Pre-set.

Switch	S.W.	M.W.	L.W.
S1	○	—	—
S2	—	—	—
S3	—	—	—
S4	○	—	—
S5	○	—	—
S6	○	—	—
S7	○	—	—
S8	○	—	—
S9	—	○	—
S10	—	—	○
S11	○	—	—
S12	—	○	—
S13	—	—	○
S14	○	—	—
S15	○	—	—
S16	○	—	—
S17	○	—	—
S18	○	—	—
S19	—	○	—
S20	—	—	○

