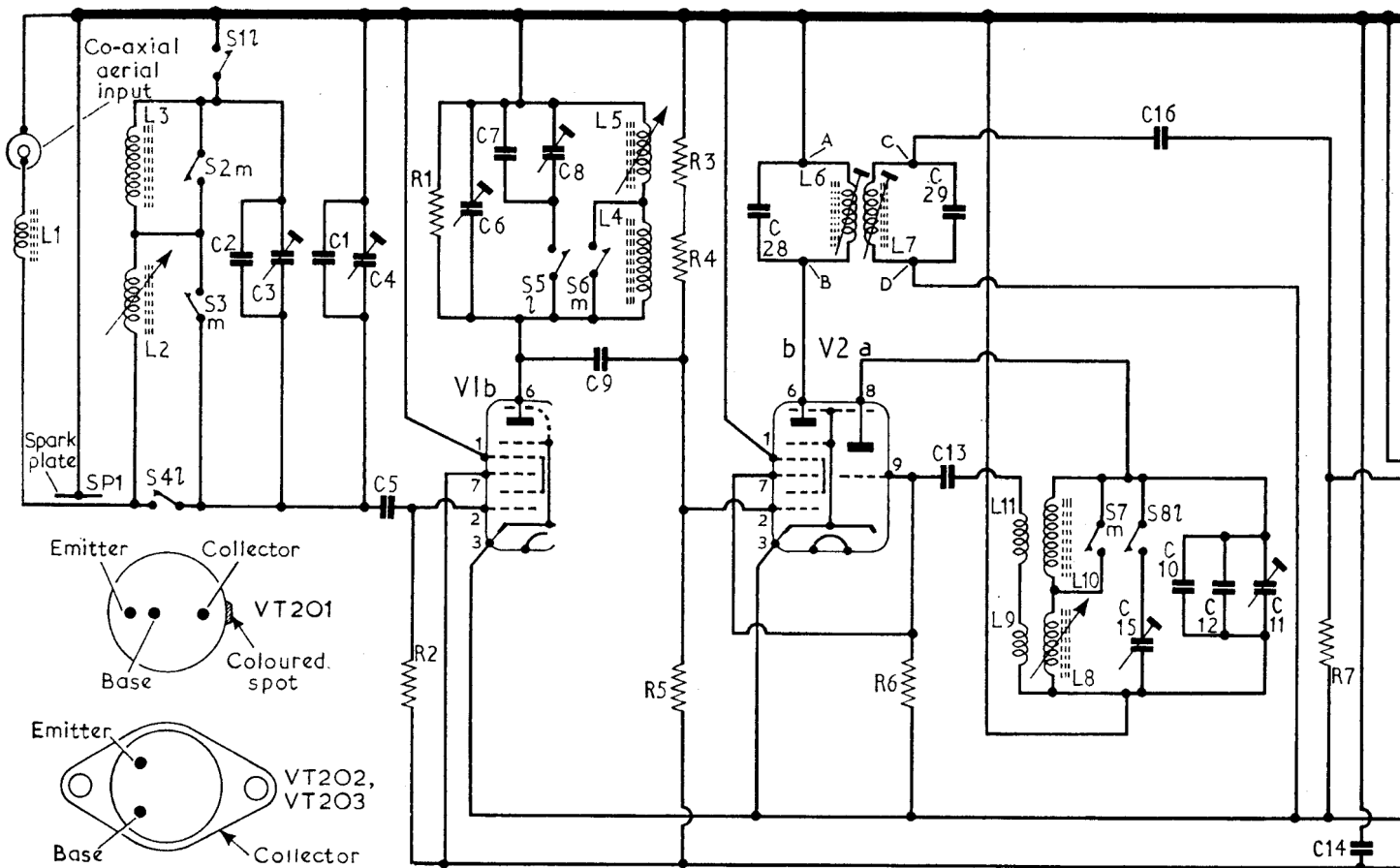
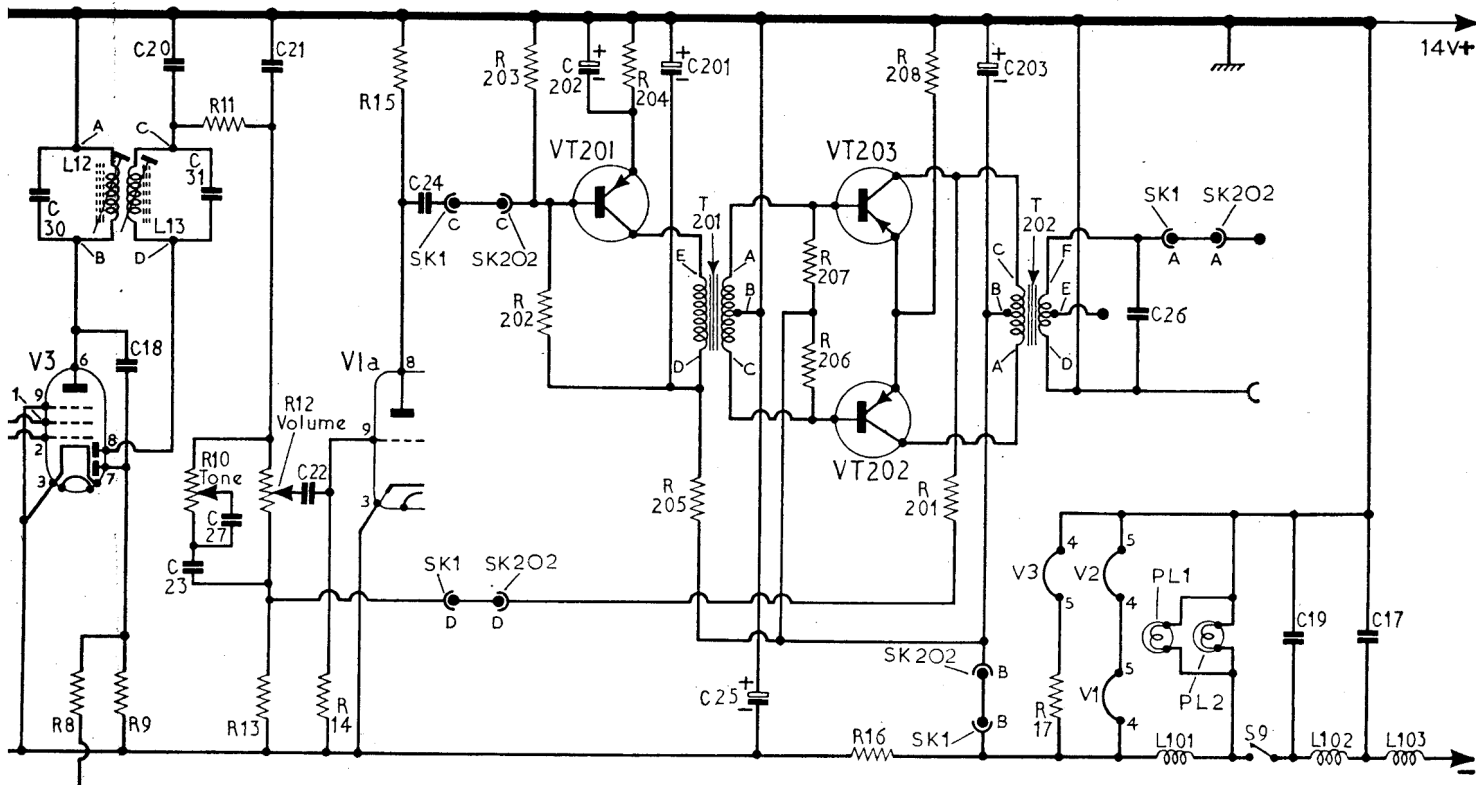


C	2	3	1	4	5	6	7	8	9	28	13,29	15,16,10	12	11	14
R				2	1				3,4,5		6				7



30	18	20,23,31,27,21,22				24	202		201	25	203		26	19		17	C
8	9	10,11	12,13	14	15	203,202		204	205	207,206,16		208,201	17	R			



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**Voltage Table**

Valve		Anode (V)	Screen (V)
V1	ECH83 { a	11.3	—
	{ b	13.3	13.3
V2	ECH83 { a	13.3	—
	{ b	13.3	13.3
V3	EBF83	13.3	13.3

Transistor		Emitter (V)	Base (V)	Collector (V)
VT201	OC82D	10.2	10.0	1.6
VT202	OC26	13.3	13.2	—
VT203	OC26	13.3	13.2	—

### CIRCUIT ALIGNMENT

**Equipment Required.**—An a.m. signal generator; an audio output meter; a fully charged 12V battery; a 0.1μF capacitor and a narrow-bladed trimming tool for the i.f. coil cores.

- 1.—Connect the receiver to the battery and after switching on, allow a suitable warming up period. Connect the output meter to the speaker plugs. Connect the signal generator via the 0.1μF capacitor to V2 pin 2.
  - 2.—Feed in a 470 kc/s modulated signal and adjust the cores of **L12**, **L13** (location reference A2), **L6** and **L7** (A2) in that order for maximum output. Repeat until there is no further improvement.
  - 3.—Switch receiver to m.w. by depressing any one of the four left-hand buttons. Disengage the tuning drive clutch by sliding the toothed wheel, marked "A" in the diagram, to the left, then rotate the outer clutch plate to bring the ganged tuning cores fully out. Do not zero the cores by using the manual tuning knob as a false position may be obtained. Connect the signal generator via a dummy aerial to the aerial socket.
  - 4.—Feed in 1,620 kc/s signal and adjust **C11** (A2), **C6** (B2) and **C4** (B2) in that order for maximum output.
  - 5.—Switch receiver to l.w. by depressing the right-hand button and tune to 1,000m.
  - 6.—Feed in a 300 kc/s signal and adjust **C15** (A2), **C8** (B2) and **C3** (B2) for maximum output.
  - 7.—Tune receiver to 1,500m, feed in 200 kc/s signal and adjust **C8** and **C3** for maximum output.
- The coils in the tuning unit are pre-aligned at the factory and should require no further adjustment.

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### Resistors

R1	100kΩ	C4
R2	1MΩ	C5
R3	10MΩ	C5
R4	10MΩ	C5
R5	1MΩ	C5
R6	47kΩ	C5
R7	1MΩ	D5
R8	2.2MΩ	D5
R9	1MΩ	D5
R10	1MΩ	A3
R11	100kΩ	D5
R12	1MΩ	A3
R13	100Ω	A2
R14	10MΩ	C5
R15	10kΩ	C5
R16	1.2kΩ	A2
R17	22Ω	A2
R201	15kΩ	B1
R202	18kΩ	B1
R203	6.8kΩ	B1
R204	470Ω	B1
R205	150Ω	B1
R206	330Ω	A1
R207	330Ω	A1
R208	0.4Ω	A1

### Capacitors

C1	30pF	C4
C2	250pF	C4
C3	140pF	B2
C4	80pF	B2
C5	68pF	L5

C6	80pF	B2
C7	450pF	C4
C8	140pF	B2
C9	30pF	L5
C10	47pF	D4
C11	80pF	A2
C12	68pF	D4
C13	47pF	C5
C14	0.03μF	D5
C15	140pF	A2
C16	1,000pF	D5
C17	1,000pF	A2
C18	68pF	D5
C19	1,000pF	A3
C20	68pF	D5
C21	68pF	D5
C22	0.01μF	A3
C23	1,000pF	A3
C24	0.1μF	C5
C25	500μF	A2
C26	1,000pF	A1
C27	1,000pF	A3
C28†	—	A2
C29†	—	A2
C30†	—	A2
C31†	—	A2
C201	100μF	B1
C202	100μF	B1
C203	500μF	A1

### Coils\*

L1	—	B2
L2	4.1	B2

L3	—	B2
L4	—	A2
L5	3.7	B2
L6	8.2	A2
L7	8.2	A2
L8	2.5	A2
L9	—	A2
L10	2.5	A2
L11	1.2	A2
L12	8.2	A2
L13	8.2	A2
L101	—	A3
L102	—	A3
L103	—	A2

### Transformers\*

T201	{ Pri. 80.0 } B1
T202	{ Sec. 9.7 } A1

### Miscellaneous

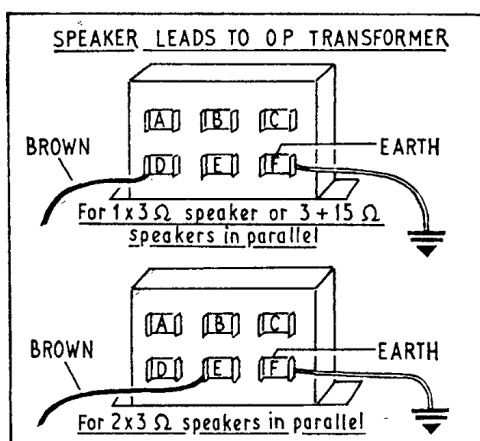
S1-S8	—	B2
S9	—	A3
PL1, PL2§	—	B3
SP1	—	B2
F101	5A	A1

\*Approximate D.C. resistance in ohms.  
†No values given.  
§14V, 0.75W L.E.S. (Lilliput screw).

### LOUDSPEAKER ASSEMBLIES

Several loudspeaker assemblies are available to suit different installation requirements. The output transformer **T202** is wound with a tapped secondary providing output impedances of 3 ohms and 1.5 ohms.

Note: If the loudspeaker is disconnected with the receiver switched on, the output transistors may be damaged if the volume control is at maximum. It is essential therefore that the loudspeaker contacts and connecting leads are kept intact.



Alternative connections provided to match a number of speaker combinations are shown in the above drawing of **T202**.

Illustration showing the waveband slide switch unit as it appears from above with the receiver controls pointing towards the operator.

