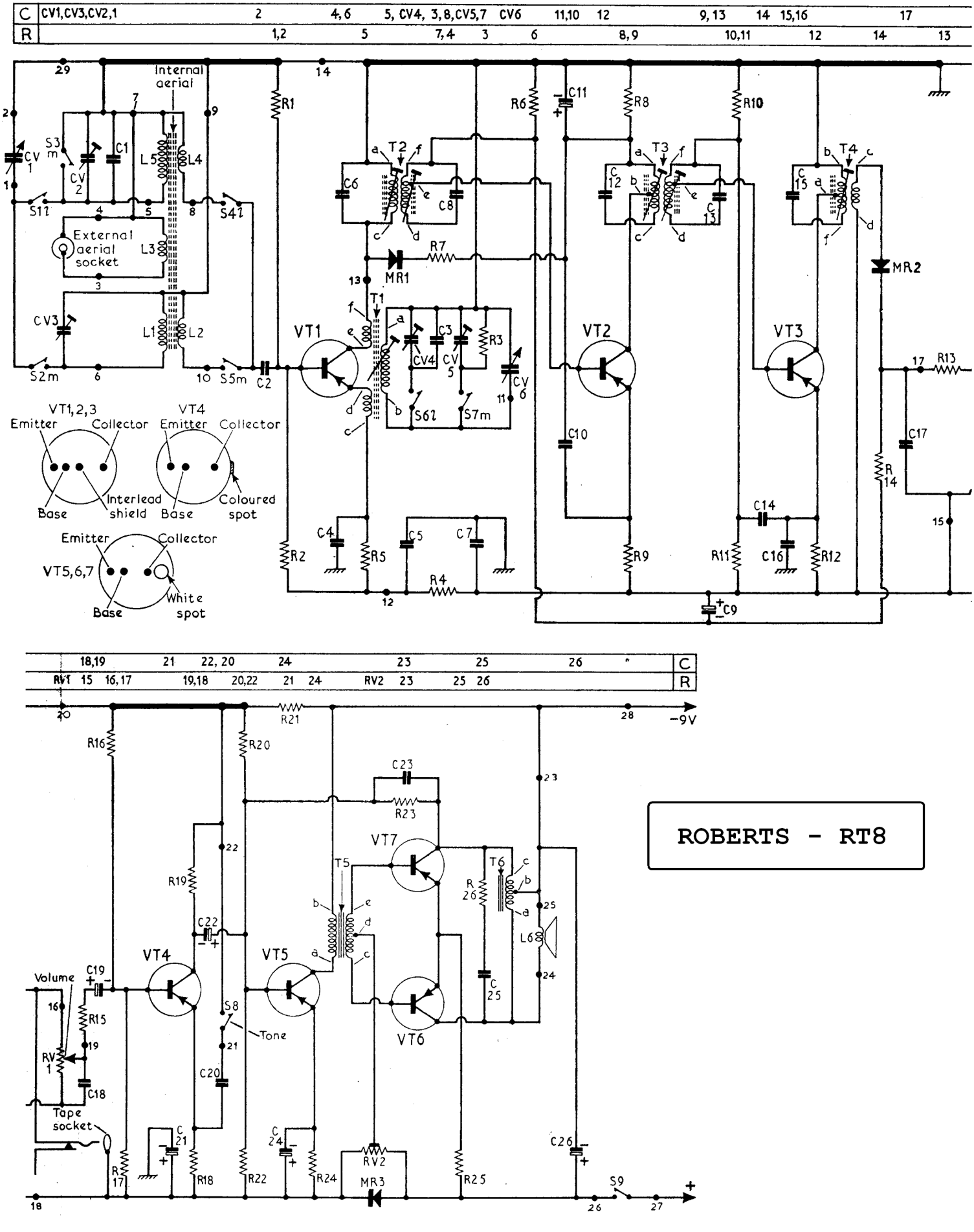
C CV1,CV3,CV2,1 2 4,6 5, CV4, 3,8,CV5,7 CV6 11,10 12 9, 13 14 15,16 17
R 1,2 5 7,4 3 6 8,9 10,11 12 14 13
Internal aerial
External aerial socket
VT1,2,3 Emitter Collector Base Interlead shield
VT4 Emitter Collector Base Coloured spot
VT5,6,7 Emitter Collector Base White spot
18,19 21 22, 20 24 23 25 26 C
RV1 15 16,17 19,18 20,22 21 24 RV2 23 25 26 R
-9V
ROBERTS - RT8

Transistors

VT1, VT2, VT3	AF117
VT4	OC71
VT5	OC81D
VT6, VT7	OC81

Resistors

R1	33kΩ	G4
R2	6·8kΩ	G4
R3	180kΩ	G4
R4	100Ω	F3
R5	1kΩ	G4
R6	68kΩ	H6
R7	560Ω	H6
R8	2·2kΩ	H6
R9	560Ω	H6
R10	22kΩ	H7
R11	4·7kΩ	H7
R12	1kΩ	H7
R13	330Ω	E3
R14	8·2kΩ	H7
R15	2·2kΩ	F3
R16	100kΩ	F3
R17	8·2kΩ	F3
R18	560Ω	F3
R19	4·7kΩ	F3
R20	27kΩ	F3
R21	330Ω	E3
R22	8·2kΩ	F3
R23	100kΩ	E3
R24	330Ω	E3
R25	5·6Ω	D3
R26	100Ω	D3
RV1	5kΩ	C1
RV2	100Ω	D3

Capacitors

C1	70pF	G4
C2	0·01μF	G4
C3	270pF	G4
C4	0·02μF	G4
C5	0·1μF	F3
C6	560pF	A2
C7	0·033μF	H6
C8	560pF	A2
C9	10μF	H6
C10	0·04μF	H6
C11	2μF	H7
C12	270pF	A2
C13	270pF	A2
C14	0·02μF	H7
C15	250pF	A2
C16	0·02μF	H7
C17	0·01μF	A2
C18	0·033μF	C1
C19	2μF	F3
C20	0·15μF	F3
C21	350μF	E3
C22	2μF	F3
C23	100pF	E3
C24	100μF	E3
C25	0·25μF	D3
C26	100μF	D3
CV1	—	A1
CV2	110pF	B1
CV3	40pF	B1
CV4	110pF	B1
CV5	40pF	B1
CV6	—	A1

Coils

L1	—	C1
L2	—	C1
L3	—	A1
L4	—	A1
L5	—	A1
L6	—	—

Transformers†

T1	—	B1
T2	—	A2
T3	—	A2
T4	—	A2
T5	a-b 100.0 e-d 36·0 c-d 36·0	E3
T6	c-b 0·8 a-b 0·8	D3

Miscellaneous

MR1	OA7	H6
MR2	OA90	A2
MR3	OC78*	D3
S1-S8	—	G5
S9	—	C1

*With collector/base diode s/c.
†Approximate D.C. resistance in ohms

CIRCUIT ALIGNMENT

Equipment Required.—An a.m. signal generator; an output meter of 20Ω impedance, or an a.c. voltmeter; an r.f. coupling coil and a narrow-bladed-type trimming tool.

During alignment the signal input should be kept as low as possible to prevent a.g.c. action.

All adjustments are made with the signal fed in via the coupling coil.

1.—Connect the output meter in place of the loudspeaker or connect the a.c. voltmeter across the loudspeaker. Tune the receiver to a quiet spot at the h.f. end of the medium waveband.

2.—Feed in a 470kc/s modulated signal and adjust the cores of **T2, T3** and **T4** for maximum output.

3.—Fully mesh the tuning gang and check that the cursor lines up with the edge of the m.w. scale window at the l.f. end, allowing for backlash in the tuning drive.

4.—Switch to m.w. and set the cursor at 191m (calibration mark on scale). Feed in a 1,570kc/s signal and adjust **CV5** and **CV3** for maximum output.

5.—Set the cursor to 484m (calibration mark on scale). Feed in a 620kc/s signal and adjust the core of T1, and **L1** by sliding its former along the ferrite rod, for maximum output.

6.—Repeat operations 4 and 5 for optimum output with correct calibration.

7.—Switch receiver to l.w. and set the cursor to the 191m calibration mark on the m.w. scale. Feed in a 262kc/s signal and adjust **CV4** and **CV2** for maximum output.

8.—Set the cursor to 525m dot on m.w. scale. Feed in a 157kc/s signal and adjust **L5** by sliding its former along

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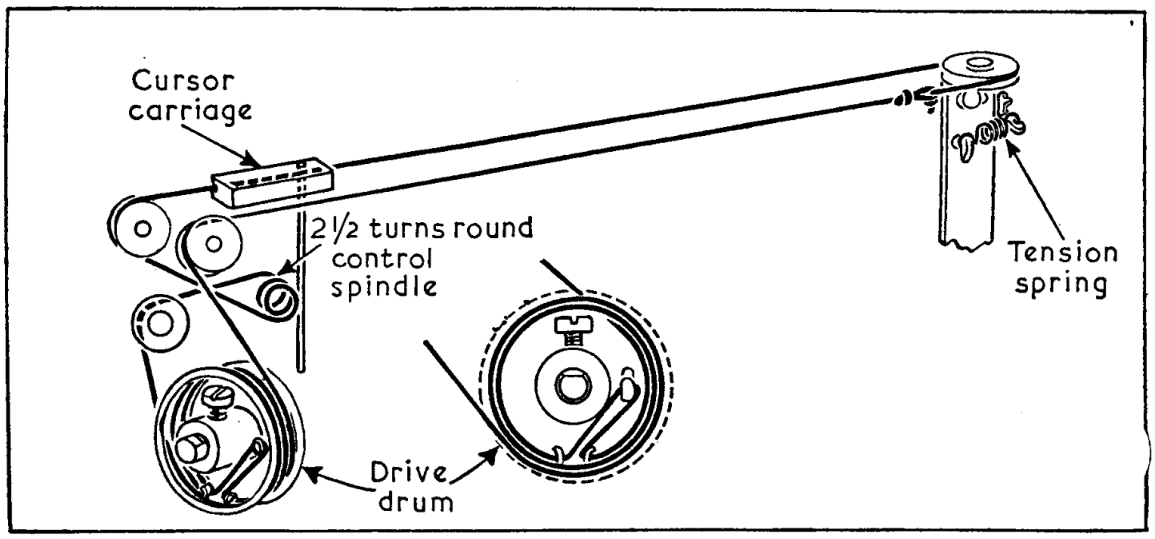

Scale drive cord assembly as seen from the rear with the tuning gang fully closed