

EVER READY Sky Baby

Transistor Table

Transistor	Emitter (V)	Base (V)	Collector (V)
TR1 AF117	1.64	1.72	7.30
TR2 AF117	0.62	0.91	7.30
TR3 AC127	3.05	2.98	0.56
TR4 OC81D	0.39	0.56	4.66
TR5 OC81	4.82	5.08	9.00
TR6 AC127	4.82	4.66	—

Resistors

R1	10kΩ	B2
R2	470Ω	B1
R3	1kΩ	B1
R4	30kΩ	A1
R5	10kΩ	A1
R6	1kΩ	A2
R7	150kΩ	B2
R8	43kΩ	C2
R9	150Ω	B2
R10	6.8kΩ	C2
R11	470Ω	C2
R12	2.5kΩ	D1
R13	30kΩ	C1
R14	22kΩ	C1
R15	2.7kΩ	C2
R16	1kΩ	C1
R17	150Ω	C1
R18	240Ω	D2
R19	VA1039	D2
R20	150Ω	D2
R21	1.5kΩ	D2
R22	4.7Ω	D2
R23	4.7Ω	D2
R24	470Ω	D2
R25	36Ω	D2

Capacitors

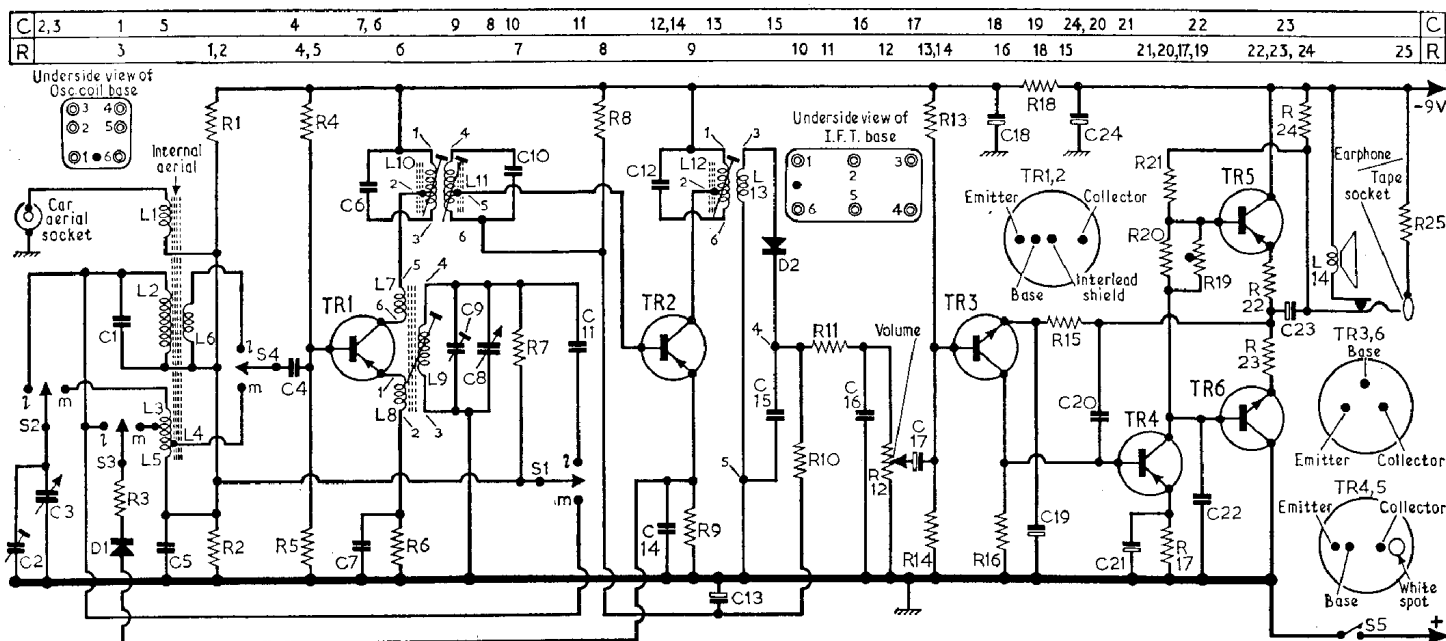
C1	30pF	C1
C2	20pF	B1
C3	180pF	B1
C4	0.01μF	A1
C5	0.5μF	B1
C6	300pF	B2
C7	0.02μF	A1
C8	80pF	B1
C9	20pF	B1
C10	300pF	B2
C11	170pF	B2
C12	250pF	C2
C13	10μF	C1
C14†	1μF	B2
C15	0.01μF	C2
C16	0.05μF	B2
C17	0.5μF	D1
C18	160μF	C2
C19	160μF	C2
C20	750pF	C2
C21	25μF	C1
C22	0.01μF	D2
C23	160μF	D2
C24	160μF	D2

Miscellaneous

D1	OA79	B1
D2	OA90	C2
S1-S4	—	A2
S5	—	D1

L1	—	C1
L2	—	D1
L3	—	B1
L4	—	B1
L5	—	B1
L6	—	D1
L7	—	B2
L8	—	B2
L9	—	A2
L10	—	B2
L11	—	B2
L12	—	C2
L13	—	C2
L14	35Ω	C2

†Two .5μF capacitors in parallel in our sample receiver.



CIRCUIT ALIGNMENT

Equipment Required.—An a.m. signal generator; an audio output meter and an r.f. coupling coil.

- 1.—Connect the audio output meter in place of the loudspeaker. Connect the signal generator to the r.f. coupling coil and loosely couple the coil to the receiver. Switch receiver to m.w. and turn the tuning gang to its mid-position. Turn the volume control to maximum.
- 2.—Radiate a 470kc/s 30 per cent modulated signal, and adjust the cores of L12, L11 and L10 for maximum output; repeating if necessary.
- 3.—Lay the receiver on its face and remove the back cover, then place the back cover on the bench so that its top just touches the top of the receiver front moulding, to ensure that the electrical effect of the metal handle is similar to normal working conditions.
- 4.—Switch receiver to l.w. and set the cursor to 15. Feed in a 200kc/s signal or use the B.B.C. Light Programme broadcast signal and adjust L9 for maximum output.

5.—Adjust L2 for maximum output.

6.—Switch receiver to m.w. and fully open the tuning gang. Feed in a 1,635kc/s signal and adjust C9 for maximum output.

7.—Feed in a 1,400kc/s signal and tune receiver to this signal. Adjust C2 for maximum output.

8.—Feed in a 600kc/s signal and tune receiver to this signal. Adjust L3/4/5 for maximum output.

9.—Repeat operations 5, 7 and 8 as necessary.

Scale drive assembly which comprises two separate drive cords; one for the cursor, and another for the cursor carriage.

