

EVER READY SKYLARK

Transistor Table

Transistor	Emitter (v)	Base (v)	Collector (v)
TR1 OC44	0.97	1.02	7.0
TR2 OC45	0.61	0.77	7.0
TR3 OC45	0.88	1.04	7.0
TR4 OC81D	0.61	0.72	8.6
TR5 OC81	—	0.15	9.0
TR6 OC81	—	0.15	9.0

Resistors

R1	56kΩ	C2
R2	10kΩ	C3
R3	3.9kΩ	B3
R4	1.2kΩ	C2
R5	68kΩ	C2
R6	8.2kΩ	C3
R7	680Ω	C2
R8	22kΩ	C2
R9	4.7kΩ	C2
R10	3.9kΩ	C2
R11	1kΩ	C1
R12	5kΩ	C1
R13	22kΩ	C2
R14	68kΩ	C2
R15	10kΩ	C2
R16	470Ω	C2
R17	680Ω	B1
R18	10Ω	B2
R19	5.6kΩ	B2
R20	100Ω	B1
R21	1kΩ	B2
R22	10Ω	B2

Capacitors

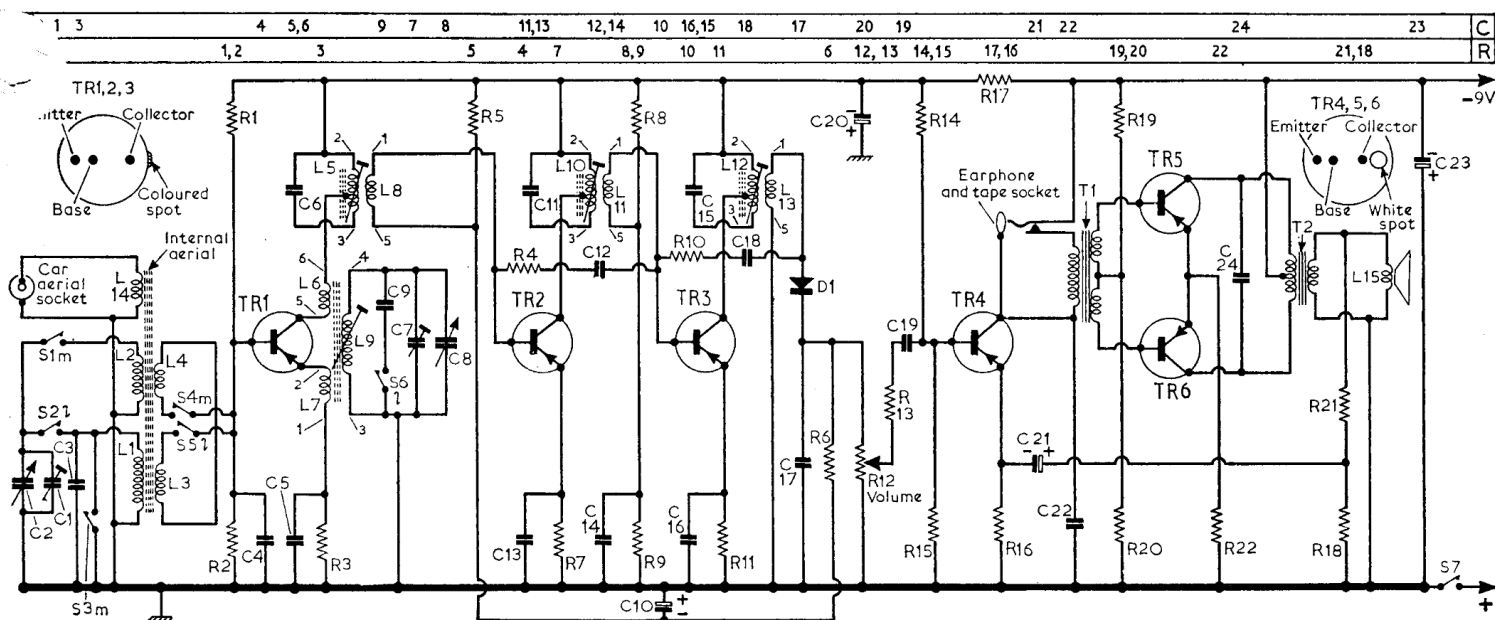
C1	20pF	D2
C2	157pF	D2
C3	50pF	D1
C4	0.1μF	C3
C5	0.01μF	B3
C6	250pF	C3
C7	20pF	D3
C8	110pF	D2
C9	230pF	D2
C10	10μF	C3
C11	250pF	C2
C12	56pF	C2
C13	0.1μF	B2
C14	0.1μF	D2
C15	250pF	C1
C16	0.1μF	C1
C17	0.01μF	C1
C18	18pF	C1
C19	0.1μF	C2
C20	64μF	B1
C21	64μF	B1
C22	2,000pF	C1
C23	160μF	D2
C24	0.04μF	B1

Coils

L1	—	D3
L2	—	B3
L3	—	D3
L4	—	B3
L5	—	C2
L6	—	B3
L7	—	B3
L8	—	C3
L9	—	B3
L10	—	C2
L11	—	C2
L12	—	C1
L13	—	C1
L14	—	D3
L15	3Ω	A2

Miscellaneous

D1	OA70	C1
T1	—	B1
T2	—	A1
S1-S6	—	D1
S7	—	D2



CIRCUIT ALIGNMENT

Equipment Required.—An a.m. signal generator; an audio output meter of suitable impedance; a length of insulated wire formed into a coupling loop and a bladed type trimming tool.

For alignment of the r.f. and oscillator circuits, the chassis should be removed from its case (see Dismantling). During alignment use as small a signal input level as possible to prevent a.g.c. action.

- 1.—Switch receiver to m.w. and set the tuning pointer to the central position of the scale. Connect the audio output meter in place of the loudspeaker and connect the signal generator to the r.f. coupling loop.
- 2.—Feed in a 470kc/s 30 per cent modulated signal and adjust the cores of L12, L10 and L5 for maximum output. Repeat as necessary.
- 3.—Fully close the tuning gang. Feed in a 550kc/s signal and adjust L9 for maximum output.
- 4.—Fully open the tuning gang. Feed in a 1,600kc/s signal and adjust C7 for maximum output.
- 5.—Feed in a 1,300kc/s signal and tune receiver to this signal. Then adjust C1 (if fitted) for maximum output.
- 6.—Feed in 600kc/s signal and tune receiver to this signal. Re-adjust L9 while rocking the tuning gang for maximum output.
- 7.—Repeat operations 5 and 6.
- 8.—Switch to l.w. and feed in a 200kc/s signal or use the B.B.C. Light Programme (1,500m). Adjust L1 by sliding it along the ferrite rod, at the same time rocking the tuning gang about 1,500m for maximum output.

GENERAL NOTES

Dismantling.—To remove the chassis from its case, remove the large central screw securing the tuning knob and lift off the knob.

Insert a small screwdriver in the tuning scale centre hole and using the tuning gang spindle end as a leverage point, ease off the scale plate which is a snap fit in the front moulding.

Remove the three countersunk screws beneath the scale plate, revealed by removal of the plate. Open the receiver back and remove nut "A" (see chassis illustration left).

Remove the chassis dismount with loudspeaker.

When assembling after service, ensure that the peg on the back of the scale plate engages the locating hole in the moulding.

Switches.—S1-S6 are waveband switches which are mounted in a single press-button unit shown in location reference D1. On the circuit diagram switches suffixed m close on m.w. while those suffixed l close on l.w. S7 is ganged with the volume control and is the battery on/off switch.

Battery.—9v Ever Ready PP6.