

## Resistors

R1	33kΩ	B2
R2	6.8kΩ	B2
R3	1kΩ	B2
R4	680Ω	B2
R5	100Ω	B3
R6	150kΩ	B2
R7	56kΩ	B3
R8	2.2kΩ	B3
R9	680Ω	B3
R10	8.2kΩ	B3
R11	22kΩ	B3
R12	4.7kΩ	B3
R13	1.2kΩ	B3
R14	5kΩ	A1
R15	3.9kΩ	A2
R16	8.2kΩ	A2
R17	10kΩ	A2
R18	10Ω	A2
R19	750Ω	B3
R20	1kΩ	A2
R21	470Ω	A2
R22	36Ω	A3

## Capacitors

C1	25pF	B1
C2	20pF	C1
C3	157pF	C2
C4	20pF	C2
C5	0.01μF	B2
C6	560pF	B2
C7	0.022μF	B2
C8	0.1μF	B2
C9	110pF	C2
C10	560pF	C2
C11	20pF	C2
C12	190pF	B1
C13	60pF	B1
C14	1.6μF	B3

## Coils

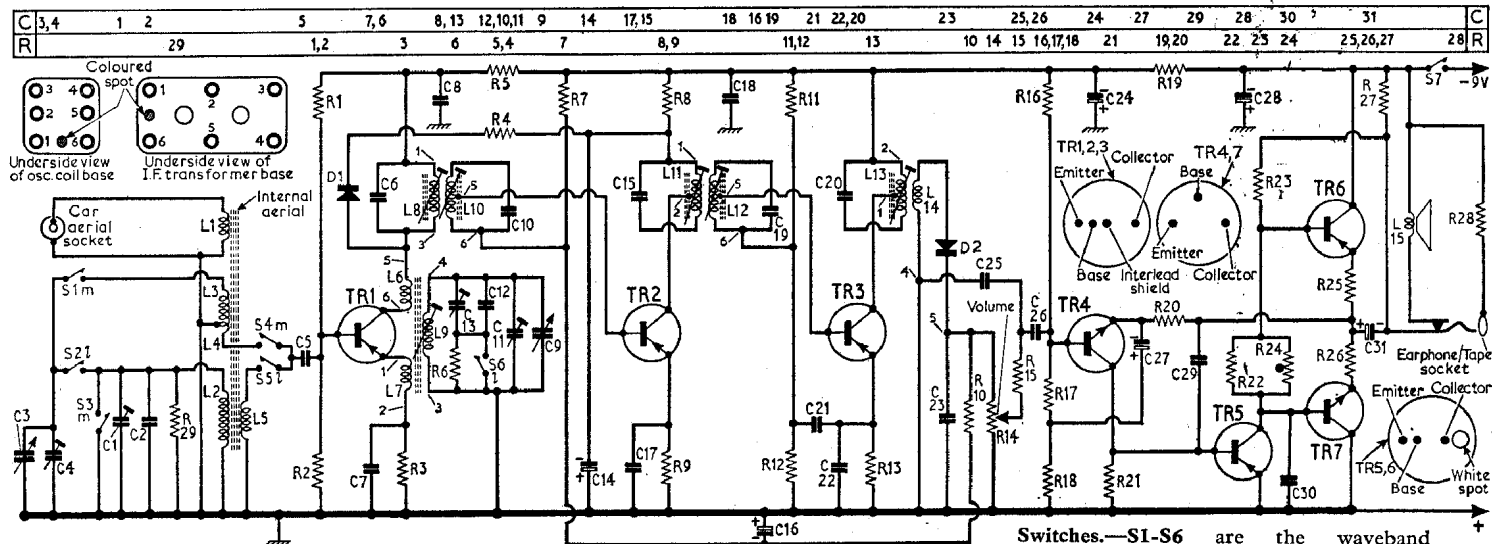
L1	—	A2
L2	—	A2
L3	—	B2
L4	—	B2

## Transistor Table

Transistor	Emitter (V)	Base (V)	Collector (V)
TR1 AF117 ..	0.94	1.07	6.48
TR2 AF117 ..	0.62	0.89	4.41
TR3 AF117 ..	0.83	1.08	6.50
TR4 AC127 ..	3.83	3.65	0.22
TR5 OC81D ..	—	0.22	4.37
TR6 OC81 ..	4.51	4.68	9.00
TR7 AC127 ..	4.51	4.37	—

## Miscellaneous

D1	OA79	B2
D2	OA90	B3
S1-S6	—	C2
S7	—	A1



## CIRCUIT ALIGNMENT

Four r.f. alignment points are marked as spots on the l.w. section of the tuning scale, reading from left to right as follows: 1, 1,300kc/s (m.w.); 2, 250kc/s (l.w.); 3, 176kc/s (l.w.); 4, 600kc/s (m.w.); and 5, 540kc/s (pointer zero).

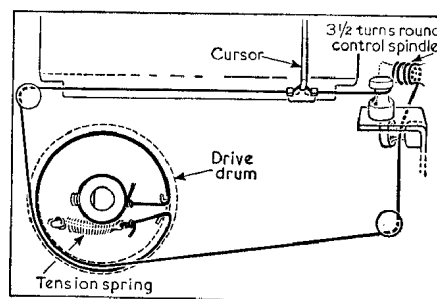
**Equipment Required.**—An a.m. signal generator; an audio output meter with an impedance of 10Ω and an r.f. coupling coil.

- 1.—Couple the signal generator to the receiver via the r.f. coupling coil and connect the audio output meter across the loudspeaker (points B1 and B3 on the printed panel).
- 2.—Set the volume control at maximum and the tuning gang to its mid-position. Switch receiver to m.w.
- 3.—Feed in a 470kc/s signal and adjust the cores of L13, L12, L11, L10 and L8 in that order for maximum output.

- 4.—Set the cursor to spot 4, feed in a 600kc/s signal and adjust L9 for maximum output.
- 5.—Set the cursor to spot 1, feed in 1,300kc/s signal and adjust C11 for maximum output.
- 6.—Reset the cursor to spot 4, feed in a 600kc/s signal and adjust L3/L4 for maximum output.
- 7.—Reset the cursor to spot 1, feed in a 1,300kc/s signal and adjust C4 for maximum output.
- 8.—Repeat operations 6 and 7.
- 9.—Switch receiver to l.w. and fully close the tuning gang. Feed in a 160kc/s signal and adjust C13 for maximum output.
- 10.—Set the cursor to spot 3, feed in a 176kc/s signal and adjust L2 for maximum output.
- 11.—Set the cursor to spot 2, feed in a 250kc/s signal and adjust C1 for maximum output.
- 12.—Repeat operations 10 and 11.

**Switches.**—S1-S6 are the waveband switches and are contained in a small assembly operated by a rocker type control shown in location reference B1. A separate drawing of the assembly appears inset.

**Battery.**—Ever Ready type PP9 (9V).



Scale drive assembly illustrated with the tuning gang at maximum capacitance

EVER READY - SKY QUEEN