

Resistors								
R1	47kΩ	F3	C3	0.01μF	F4	L2	—	A1
R2	8.2kΩ	F3	C4	200pF	A2	L3	—	C1
R3	3.9kΩ	F4	C5	180pF	F4	L4	—	A2
R4	150kΩ	E3	C6	214pF	E4	L5	—	A2
R5	1kΩ	E4	C7	8μF	E3	L6	—	B2
R6	18kΩ	E4	C8	0.1μF	E4	L7	—	B2
R7	3.9kΩ	E4	C9	56pF	E4	L8	—	B2
R8	1kΩ	E4	C10	200pF	B2			
R9	100Ω	E3	C11	0.1μF	E3			
R10	22kΩ	E4	C12	0.1μF	E4			
R11	1kΩ	D4	C13	0.1μF	D4			
R12	5kΩ	D3	C14	15pF	E4			
R13	22kΩ	D4	C15	200pF	B2			
R14	3.9kΩ	D4	C16	0.01μF	D4			
R15	220Ω	D3	C17	0.01μF	D4			
R16	1kΩ	D4	C18	8μF	D3			
R17	470kΩ	D4	C19	30μF	D4			
R18	10kΩ	D4	C20	30μF	D3			
R19	220Ω	D4	C21	0.01μF	D3			
R20	10Ω	D3	C22	0.01μF	D3			
			C23	30μF	D4			
			C24	0.1μF	D3			
Capacitors			Coils					
C1	20pF	F4	L1	—	C1			
C2	0.01μF	F3						

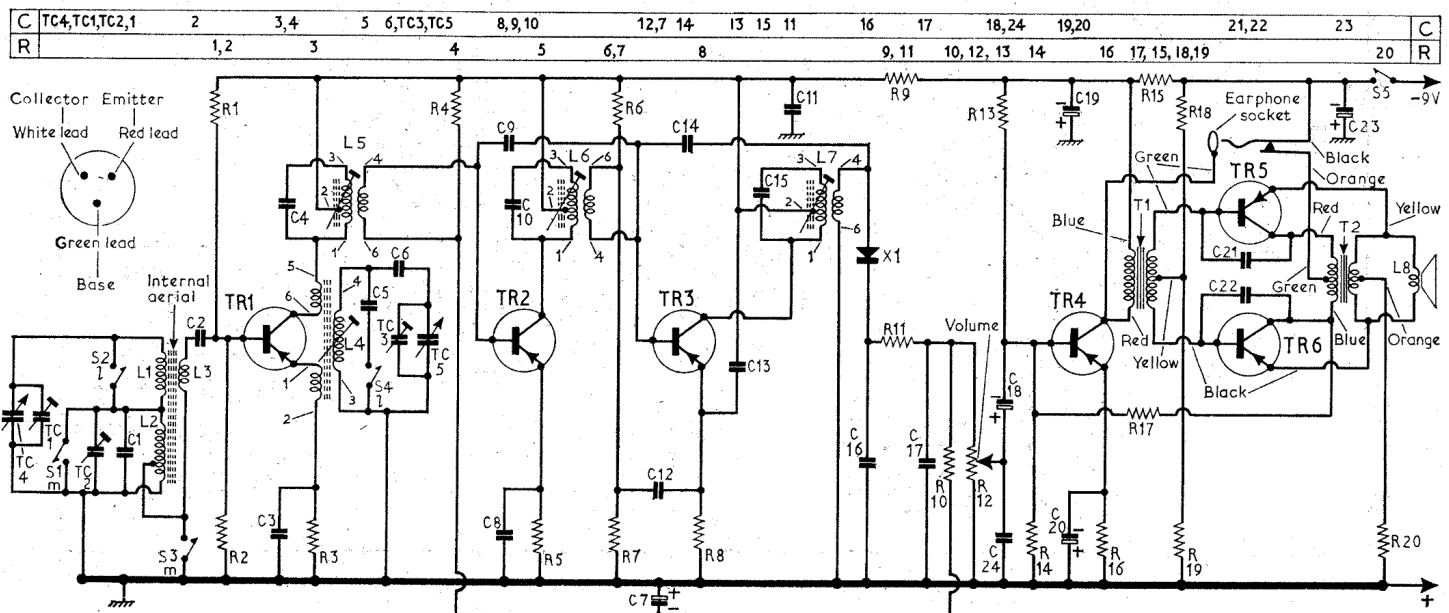
L2	—	A1
L3	—	C1
L4	—	A2
L5	—	A2
L6	—	B2
L7	—	B2
L8	—	B2
T1	—	D4
T2	—	E3
X1	CG64H*	D4
S1-S4	—	F4
S5	—	D3
TC1	—	A1
TC2	—	A2
TC3	—	A2
TC4	—	A1
TC5	—	A1

*Or GEX 12

Transistor Table

Transistor	Emitter (V)	Base (V)	Collector (V)
TR1 GET874	1.25	1.2	7.8
TR2 GET873	0.75	0.85	7.8
TR3 GET873	1.2	1.4	7.8
TR4 GET113	1.2	1.3	7.9
TR5 GET113	—	0.2	9.0
TR6 GET113	—	0.2	9.0

KOLSTER-BRANDES TP11 (Bikini)



CIRCUIT ALIGNMENT

Equipment Required.—An a.m. signal generator modulated 30 per cent; an output wattmeter; an r.f. coupling loop, constructed by winding 85 turns of enamelled copper wire on a 2 inch diameter former; a 0.1μF capacitor and an insulated bladed-type trimming tool.

During alignment maintain the output at approximately 50mW by progressively reducing the input signal as the circuits come into line.

- 1.—Switch to m.w. and turn the tuning gang fully open. (On the Plessey solid dielectric gang, minimum capacitance is to be regarded as the "fully open" position.) Connect the signal generator via the 0.1μF capacitor to the base of TR1 (see illustration of printed circuit panel). Turn the volume control to maximum output.
- 2.—Feed in a 470kc/s signal and adjust the cores of L7, L6 and L5 in that order for maximum output. Repeat as necessary.
- 3.—Remove the signal generator from TR1 base and connect it directly across the r.f. coupling coil. Loosely couple the coil to the ferrite rod aerial.
- 4.—Rotate the tuning gang to the maximum

capacitance position. Feed in a 525 kc/s signal and adjust the core of L4 for maximum output.

- 5.—Rotate the tuning gang to the minimum capacitance position. Feed in 1610 kc/s signal and adjust TC3 for maximum output. Check operation 4.
- 6.—Feed in 600 kc/s signal and tune receiver to this signal. Adjust L1 by sliding it along the ferrite rod for maximum output.
- 7.—Feed in a 1,350 kc/s signal and tune receiver to this signal. Adjust TC1 for maximum output.
- 8.—Switch to l.w. Feed in a 225 kc/s signal and tune receiver to this signal. Adjust TC2 for maximum output.

Switches.—S1-S4 are the waveband switches which are combined in a two-way slide unit shown in location reference F4. S5 is the battery on/off switch which is ganged to the volume control.

Battery.—One 9V battery is required. Types recommended by the manufacturers are: Ever-Ready PP3, Drydex DT3 or Vidor T6003.