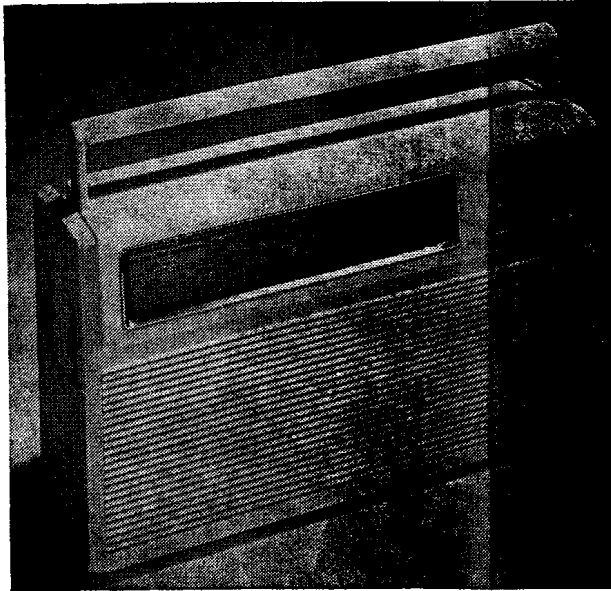


ERT

SERVICE CHART

1959

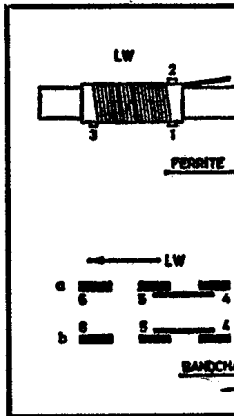


Bush
LWJMW
(Danse
similar

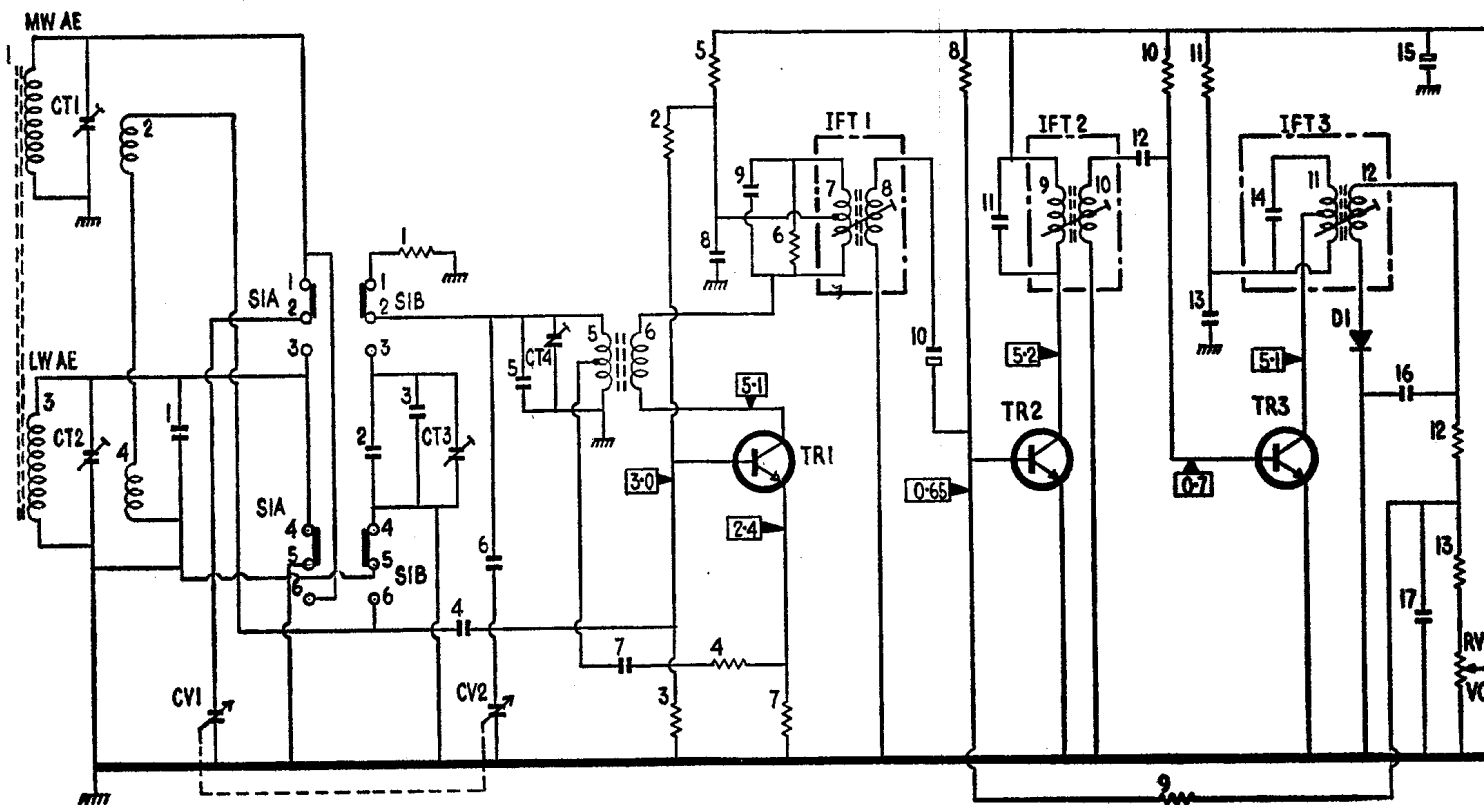
RESISTORS		CAPACITORS						
R1	220K	2A	R17	220	2B	C10	2μF	2A
R2	27K	2A	R18	10	2B	C11	1000pF	2A
R3	47K	2A	R19	2K2	2B	C12	0.047μF	2B
R4	5-6	2A	R20	82	2B	C13	0.047μF	2B
R5	100	2A	R21	390	2B	C14	200pF	—
R6	22K	2A	RV1	10K log.	2B	C15	250μF	2B
R7	2K2	2A	CAPACITORS		C16	0.01μF	2B	
R8	220K	2A	C1	125pF	1A	C17	0.01μF	2B
R9	100K	2B	C2	350pF	1A	C18	0.022μF	2B
R10	120K	2B	C3	15pF	1A	C19	1μF	2B
R11	100	2B	C4	0.01μF	2A	C20	50μF	2B
R12	1K	2B	C5	22pF	1A	C21	600pF	2B
R13	1K	2B	C6	430pF	2A	C22	0.0022μF	2B
R14	18K	2B	C7	0.02μF	2A	C23	250μF	2B
R15	10K	2B	C8	0.047μF	2A	C24	470μF	2B
R16	3K3	2B	C9	1000pF	2B	CT1-4	2-22pF	2B

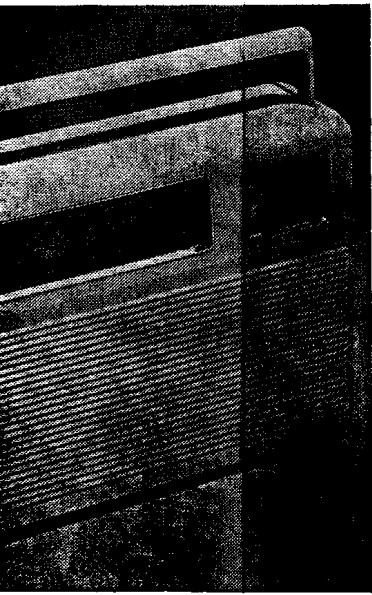
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R		1		2	5	7	6		8		9	10	11		12	13						
C	CT1 CT2	1	CV1	2	3	CT3	4	5	6	CV2	CT4	7	8	9	10	11	12	13	14	15	16	17
L	1	2							5	6				7	8		9	10			11	12





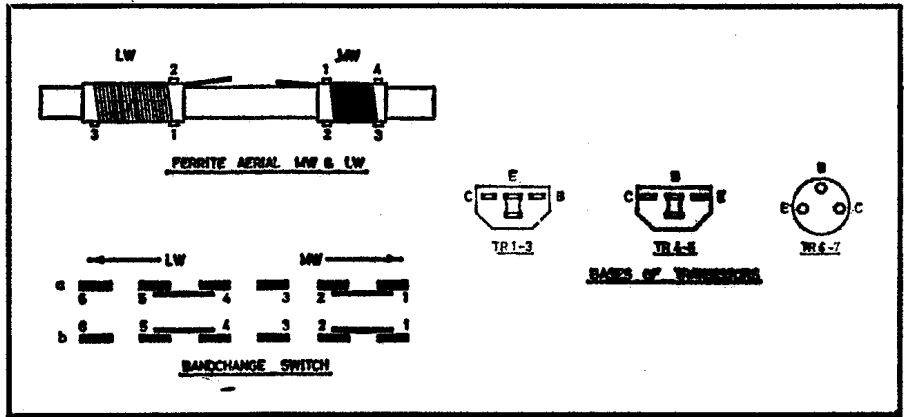
Bush BA5004

LW/MW portable radio

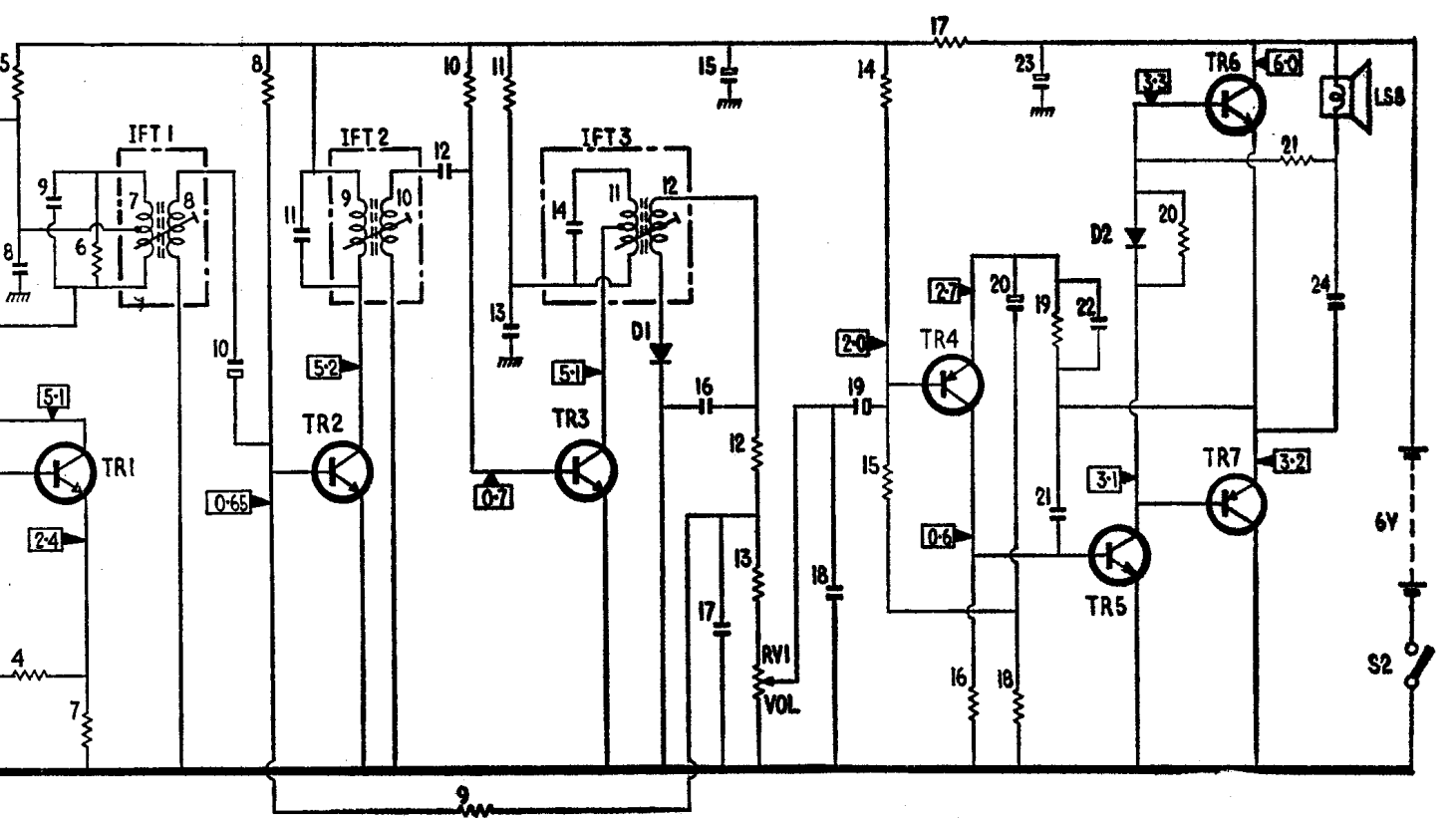
(Dansette DA5005 is similar)

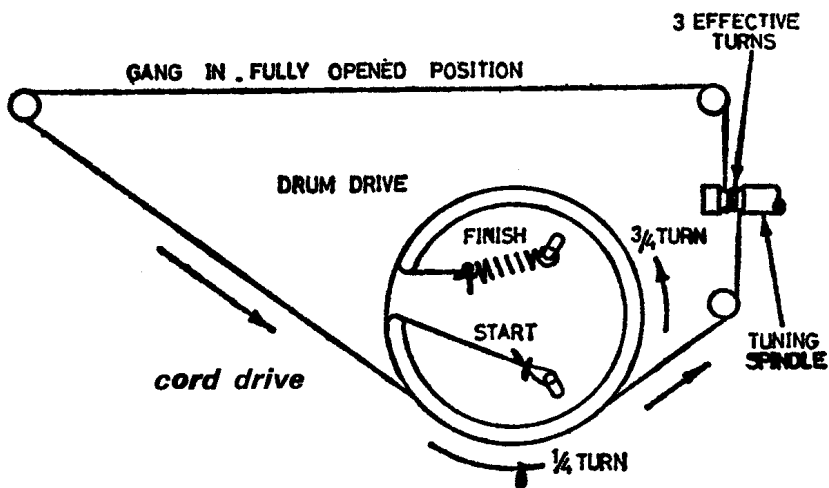
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5	7	6	8	9	10	11	12	RV1	14	15	17	16	18	19	20	21
8	9	10	11	12	13	14	15	16	17	18	19	20	23	21	22	24
7	8	9	10	11	12	12	12	12	12	12	12	12	12	12	12	LS8





MARKETED by Rank Radio International and selling under the brand name of Bush; this LW/MW portable radio, model BA5004 incorporates seven transistors, two diodes and is provided with an internal ferrite rod aerial.

Controls comprise a large thumb wheel for easy tuning, a two position wave-band switch and combined on/off volume control.

Cabinet is in moulded plastic with transparent strip exhibiting the tuning scale. A choice of three colours are available, white, red and black.

Batteries. 6V 4 x 1.5V (SP2).

Consumption. 19mA quiescent (24mA normal listening).

Wavebands
 LW 1900-1062m (158kHz to 282kHz)
 MW 572-185m (525kHz to 1620kHz)

Transistors
 TR1 BF194B
 TR2 BF195C
 TR3 BF195D
 TR4 BC158
 TR5 BC148
 TR6 AC127
 TR7 AC128 } matched pair

Diodes
 D1 OA79
 D2 SC300

Inductors		Part No. (AP)
L1/2	MW aerial coil	94868
L3/4	LW aerial coil	94869
L5/6	MW/LW osc. coil	94559
L7/8	IF T1 red	58918
L9/10	IF T2 black	91868
L11/12	IF T3 yellow	91869

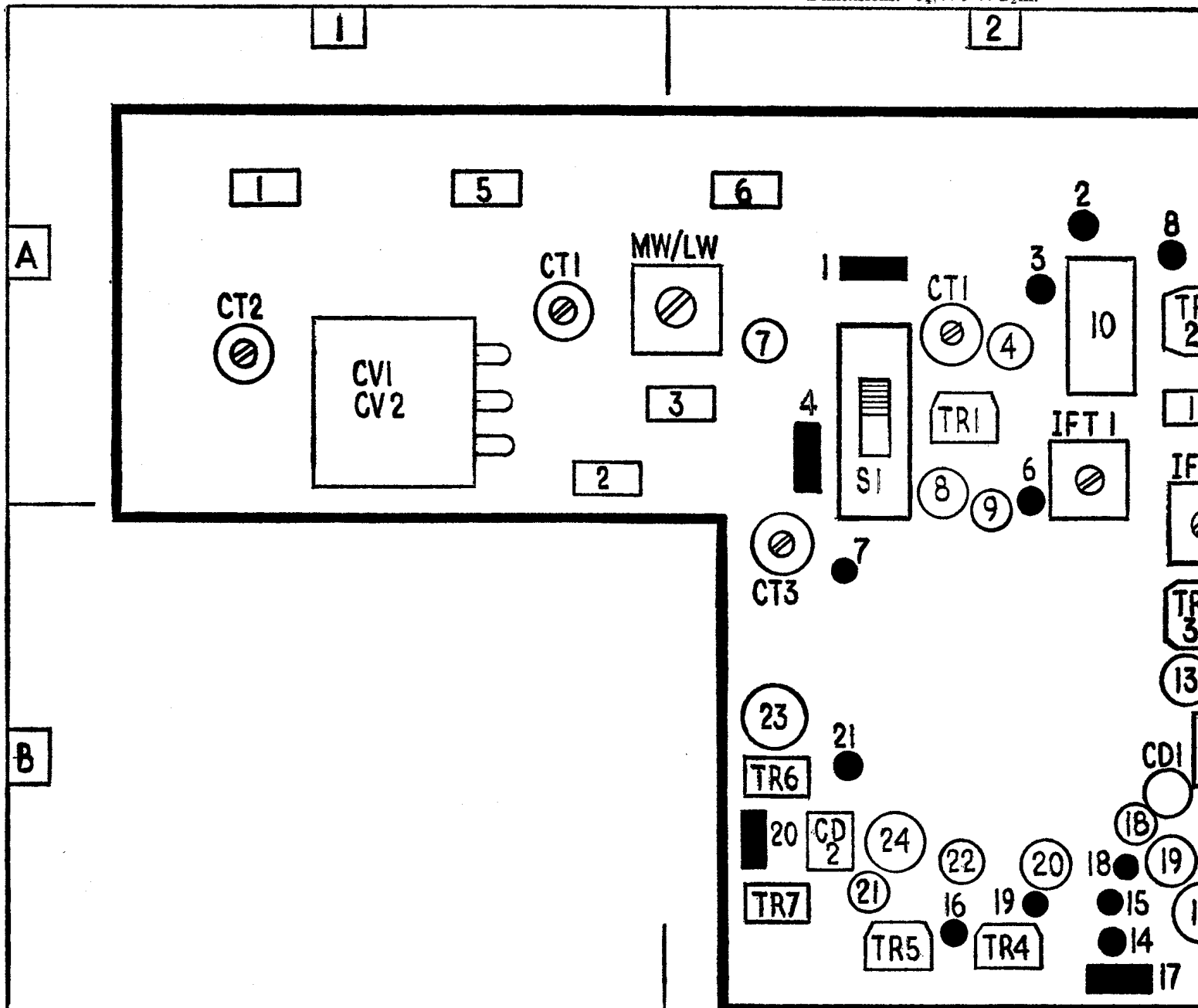
IF. 470kHz.

Aerials. Internal ferrite rod.

Speaker. 90mm circular, 8ohm impedance.

Output. 350mW.

Dimensions. 6 3/4" x 9 x 2 1/2 in.





Wavebands
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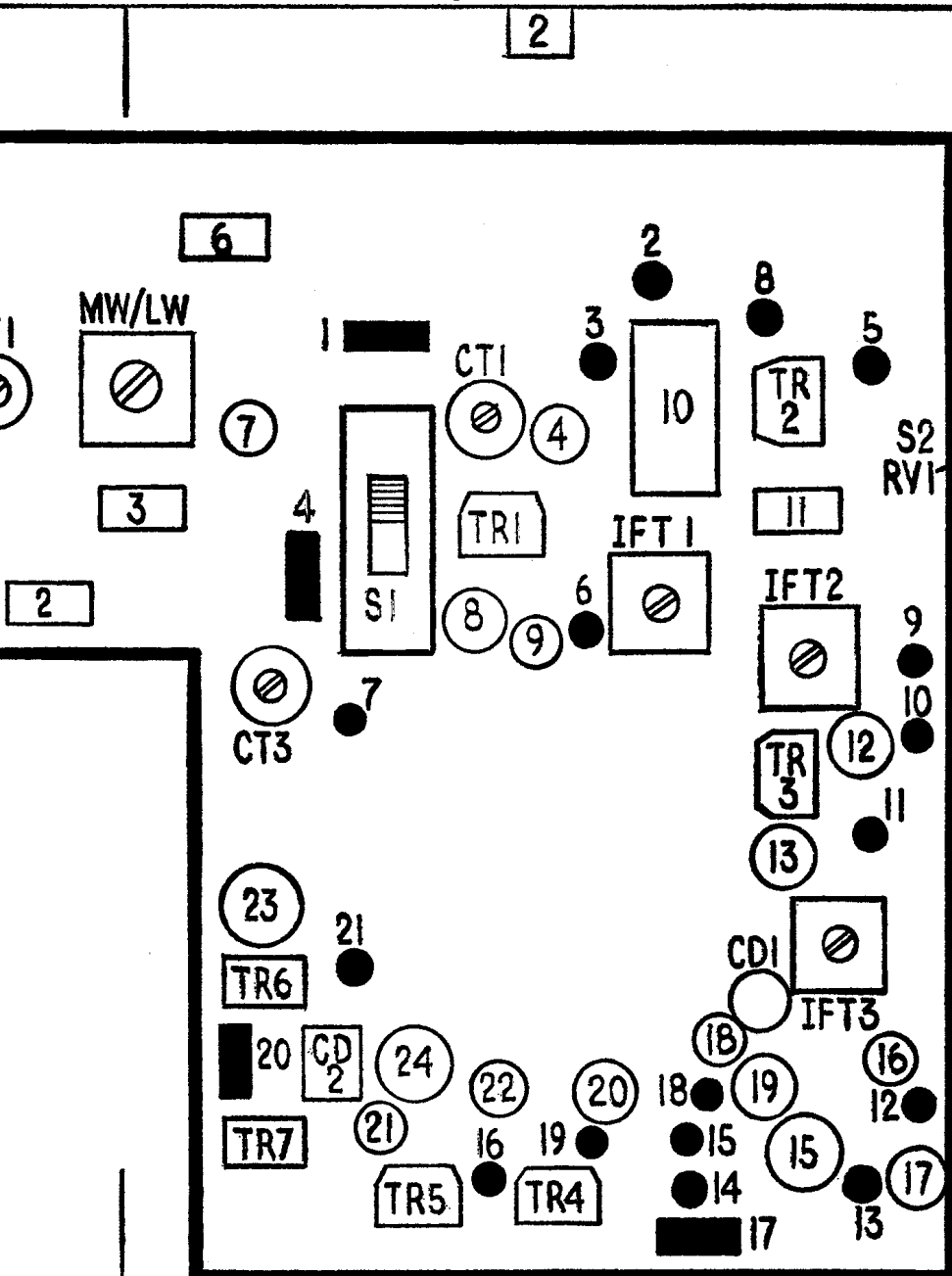
Output. 350mW.

Dimensions. 6 1/4" x 9 x 2 1/2 in.

ilded plastic with trans-
 ing the tuning scale. A
 urs are available, white,

1-5V (SP2).

mA quiescent (24mA



Weight. 1.75lb.

Price. £9-95

Manufacturer. Rank Radio International,
 Power Road, London W4.

Service Dept. RRI, Drayton Road, Bore-
 hame Wood, Herts. Tel: 01-953 6151.

Alignment

Equipment required

- (a) Signal generator to cover 470kHz, and 150-1650kHz with provision for AM modulation.
- (b) Power output meter, 8ohms impedance, 0-300mW.
- (c) 10in. dia. loop of insulated wire with a series resistor of a value to match the output impedance of the generator.
- (d) Avo 8 meter.

Method

IF

Disconnect speaker and connect power output meter in its place, set volume control to maximum, wavechange to MW, and set tuning capacitor to minimum (gang fully open).

Inject a 470kHz signal, modulated 30 per cent at 400Hz, via a 0.1µF capacitor to the base of TR1. Align IFT3, IFT2 and IFT1 in that order for maximum audio output.

RF

Connect "loop" to generator, and place it at right angles to the ferrite rod. Keep receiver on MW, set tuning scale to indicate 500m, generator to 600kHz, and align L5/L6 for maximum output. Now alter scale setting to 200m, and generator to 1500kHz. Tune CT4 for maximum.

Repeat until no further improvement can be obtained.

Alignment of the aerial circuits requires the signal generator to be set to 600Hz and receiver set to 500m. Tune L1/L2 for maximum output. Now alter input signal to 1500kHz and tuner setting to 200m. Align CT1 for maximum output.

Repeat for optimum output.

Alignment of the LW oscillator circuits are next and require the generator to give a signal of 214kHz, the receiver set to 1400m and CT3 tuned for maximum output.

Remaining on LW, and keeping the generator to 214kHz and receiver to 1400m, tune L3 and L4 for maximum output.

Finally alter generator to 273kHz, receiver to 1099m and align CT2 for maximum.

Repeat until correct.

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