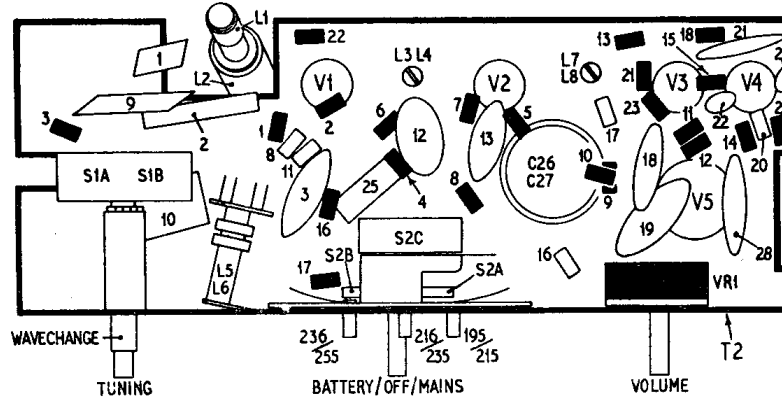
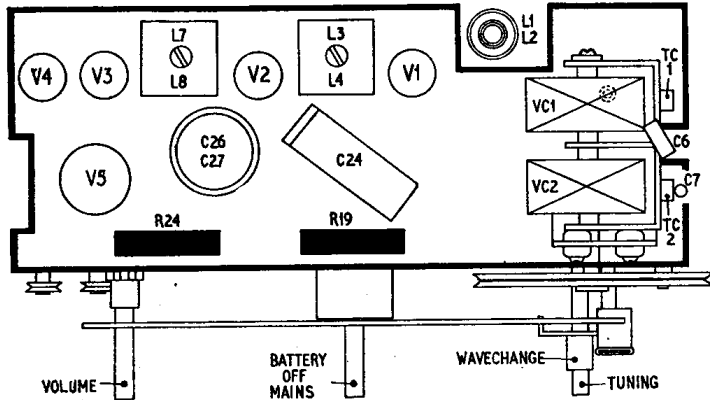
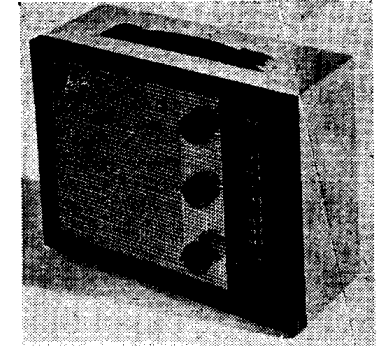


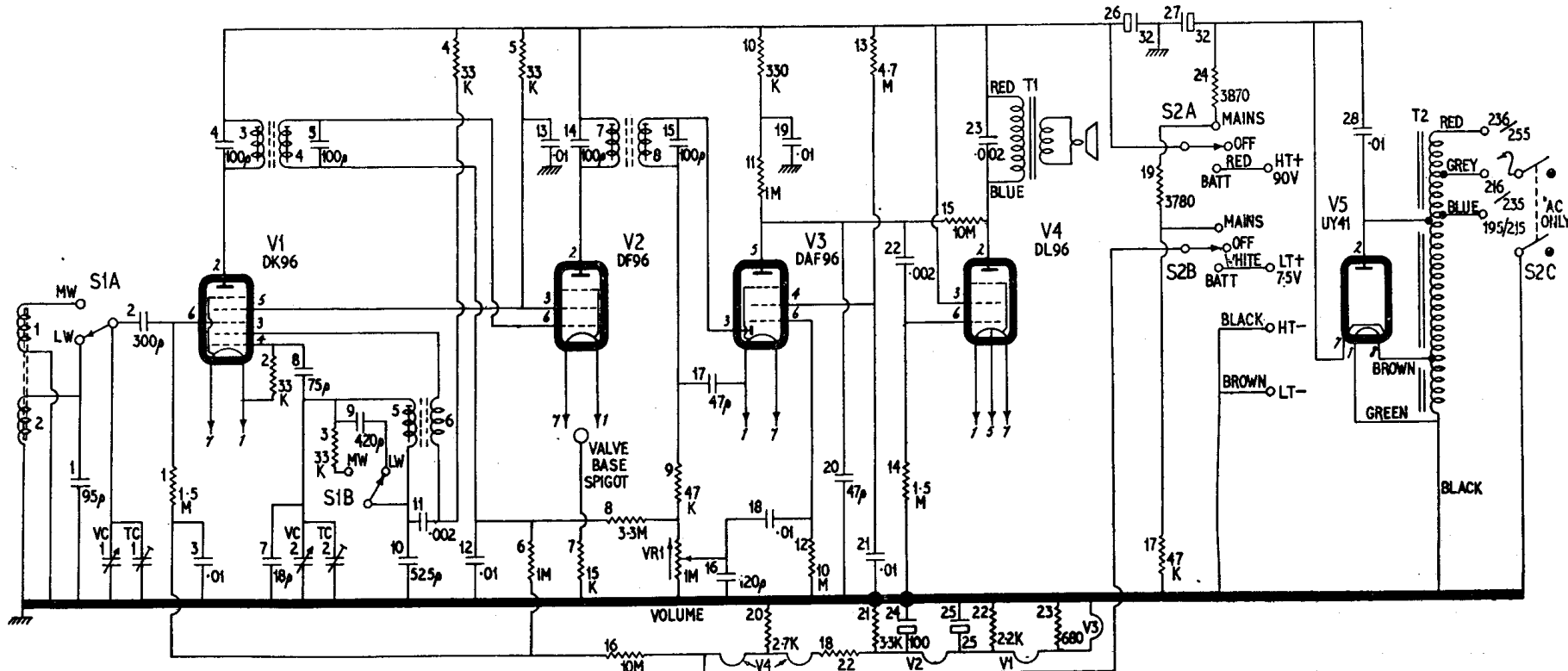
FIVE - valve, two - waveband portable receiver for operation from all-dry batteries or 195-255V 50c/s AC mains.
 Date released. July, 1956.
 Price at time of release, 18gs.

Manufacturer. Berec Radio, Ltd., Hercules Place, Holloway, London, N7.
Service department. Hercules Place, London, N.7.
Weight including batteries 8lb. 13oz.

Wavebands. MW, 182-570metres (527-1,650kc/s). LW, 1,080-1,900metres (158-278kc/s.).
Aerial. Ferrite rod.
Valves. DK96 frequency changer; DF96



IF amplifier; DAF96 diode detector and AF amplifier; DL96 output pentode; UY41 half-wave rectifier.
Batteries. LT, Ever Ready AD38. HT, Ever Ready BI26.



COMPONENT RATINGS

Capacitors
 500V: C3 11-13 18 19 21-23 28.
 Electrolytic 275V: C26 27.
 Electrolytic 25V: C24:5.

Resistors
 3 watt: R19 24.
 All others 1/2 watt.

Inductors

L	Ohms
1	1
2	4
3, 4	1.2
5	2.5
6	1.5
7, 8	10
T	
1	Pri. 650 Sec. 0.4
2	Red to black 400 Grey to black 360 Blue to black 360 Green to black Common
	Brown to black 35 Yellow to black 350

VOLTAGE AND CURRENT CHECKS

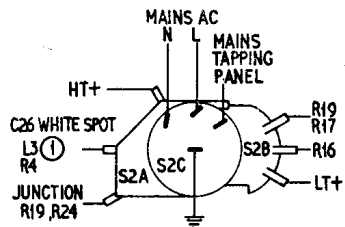
Readings taken at 225V AC (voltage tap 216-235). Current ratings mA unless otherwise stated.

Valve

No.	Va	Ia	Vg2	Ig2	Vg4	Ig4	Vk	Ik	Fil
V1	84	0.7	37	1.5	80	0.17	—	—	1.20
V2	84	0.68	80	0.21	—	—	—	—	1.10
V3	35	35 μ A	16	9 μ A	—	—	—	—	1.22
V4	80	4.5	84	0.84	—	—	5.2	—	1.15
									1.12
									(pins 1-5)
									(pins 5-7)
V5	—	—	—	—	—	—	—	—	200 30.5 30V AC

Voltage drop across 22-ohm limiting resistor R18—0.5V. Total additive LT volts—6.29V. Total measured LT volts—6.25V. Total LT current on AC mains is 22mA, while the total HT current is 8.5mA. On battery, the total LT current is 22-25mA, HT reading being 8.5-10mA.

Where anodes and screens are fed through high-value resistors, voltage readings will depend on resistance of voltmeter used; due allowance should be made for this.



SWITCH CONNECTIONS

ALIGNMENT

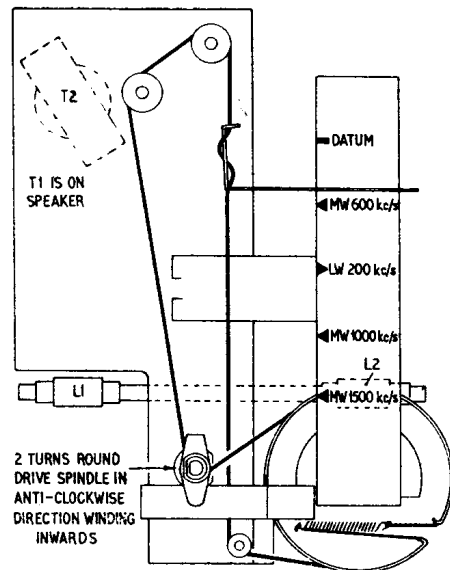
Remove chassis from cabinet (see Dismantling), connect an output meter across output transformer secondary and set volume control at maximum. Input from signal generator should be kept as low as may be consistent with a readable output from the set.

IF stages. Switch to MW, set gang at maximum capacity. Inject modulated 470kc/s at pin 6 V1 via a .01mF high-insulation capacitor.

L8, L7, L4, L3. Tune cores in that order for maximum output, using the outer peak in each case. Repeat procedure until no further improvement is possible—keeping input at low level (below AVC point).

RF stages. MW circuits must be aligned before LW.

MW. Set gang at maximum capacity, switch to MW, check that pointer is aligned to datum mark on scale backplate.



Connect a suitable loop or radiator to signal generator and place it at least 3 ft. from chassis coaxially with rod aerial.

Set pointer to 500metres (600kc/s) calibration mark, inject modulated signal via loop or radiator.

L5, L6. Adjust core for maximum output.

L1. Tune for maximum output by sliding coil along Ferrite rod—this is a critical adjustment.

Set pointer to 200metres (1,500kc/s) calibration mark, inject 1,500kc/s signal.

TC2, TC1. Adjust for maximum output.

Check calibration at 1mc/s mark on scale backplate.

Repeat adjustment of L5, L6, L1, TC2, TC1 as described above until no further improvement is possible. Then seal sliding coil L1 on Ferrite rod.

LW. Set pointer to 1,500metres (200kc/s) calibration mark, and inject 200kc/s signal via loop or radiator.

L2. Adjust, by sliding coil along Ferrite rod, for maximum output, rocking the gang if necessary.

Seal L2 on Ferrite rod.

DISMANTLING

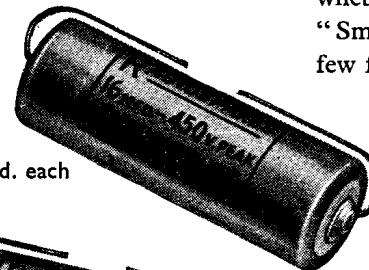
Chassis removal. Take off knobs—pull-off type. Remove back. Remove fibre protective cover—clipped to chassis. Next, unscrew the three 2BA screws securing chassis to cabinet.

Note. A protective cover of insulating tape should be placed over the sockets at rear of mains distribution panel.

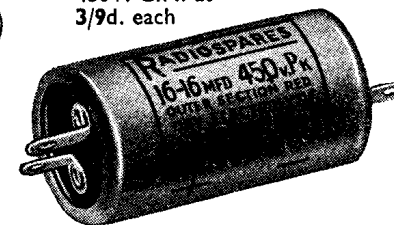
YOU'RE ALWAYS JUDGED by the service you give!

As you know, both quality and speed counts with service work—why not give it to your customers? What is simpler than to standardise the use of our P.V.C. Covered "Metal Tubular" Electrolytics in your Service Department? Our range of 28 capacities gives the answer for practically all your Electrolytic replacement problems, whether they be for "Reservoirs", "Smoothers" or "Bias" types. Just a few for you to see—

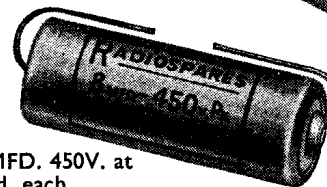
16 MFD.
450V. at 2/6d. each



16—16 MFD.
450V. C.N. at
3/9d. each



8 MFD. 450V. at
1/8d. each



25 MFD. 25V.
at 1/3d. each



Of course, you know that our Catalogue, which, if you are a recognised member of our Trade, is readily at your disposal, will give you fullest details, not only of our P.V.C. Covered "Metal Tubular" Electrolytics, but also of the multitude of our other quality components. (All prices quoted are Net Trade prices).

Some of our "Metal Tubulars" are "Plain", others are "Etched" foil—"Singles" are wire-ended, "Doubles" have tags. All are, however, fully P.V.C. covered, of handy size and really reliable!



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