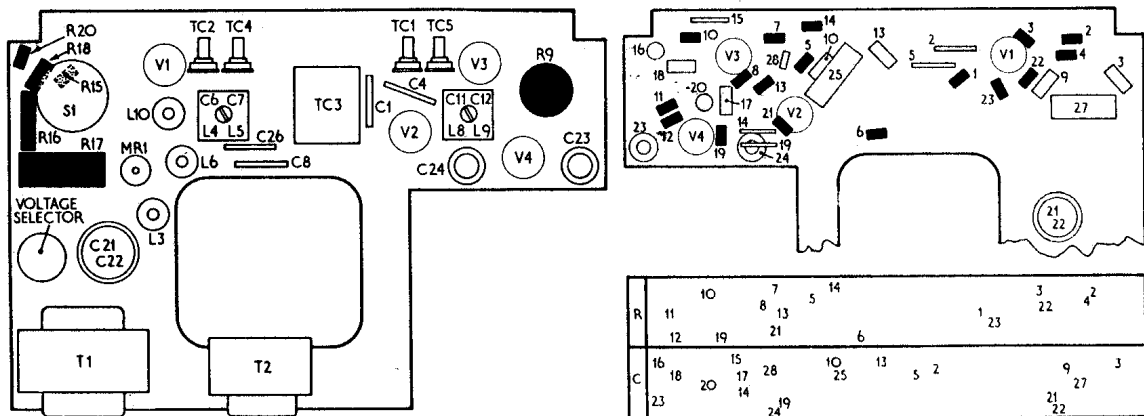


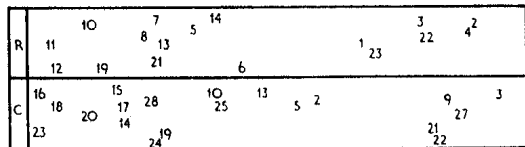
1049

'ERT' SERVICE CHART

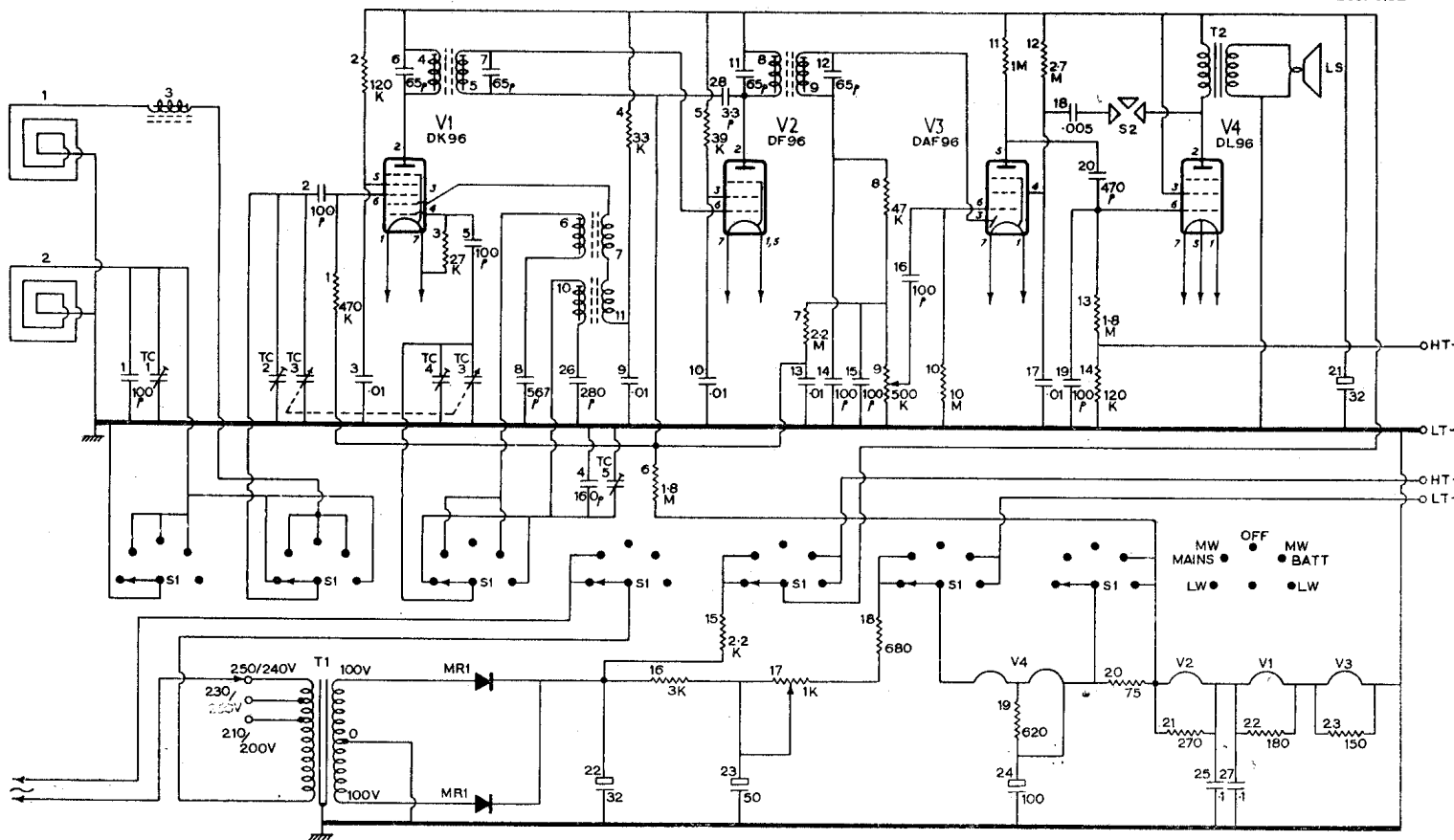
VIDOR CN430 LADY ANNE



- Capacitors**
 Silver mica 350V: C1 2 4 5-8 11 12 14-16 19 26.
 Silver ceramic 750V: C28.
 Silver ceramic 350V: C20.
 Paper tubular 350V: C3 9 10 13 17 18 25 27.
 Electrolytic 150V: C21 22.
 Electrolytic 50V: C23.
 Electrolytic 12V: C24.
- Resistors**
 6W: R16.
 Variable 1W: R17. Potentiometer Log law: R9.
 1/2W: R18.
 All others 1/4W



- INDUCTORS**
- | L | Ohms | L | Ohms |
|------|------|------------------|----------------|
| 1 | 1.7 | T1 | Pri. 360+37+37 |
| 2 | 14 | | Sec. 235+250 |
| 3 | 1.8 | Alternative type | |
| 4, 5 | 13.5 | T2 | Pri. 375+42+42 |
| 6 | 2.3 | | Sec. 257+276 |
| 7 | 1.5 | | Pri. 570 |
| 8, 9 | 13.5 | | Sec. 0.38 |
| 10 | 5.1 | Alternative type | |
| 11 | 2.3 | | Pri. 470 |
| | | | Sec. 0.52 |



FOUR-VALVE, plus metal rectifier, two-waveband attache-type portable receiver for operation on 200-250V (40-100c/s) AC mains or from battery (combined 90V HT/7.5V LT).

Released in January, 1955, at 18½gns. inclusive of £4 14s. 4d. tax, the receiver is made by Vidor, Ltd., West Street, Erith, Kent. Service department is at the same address.

Valves. Frequency changer V1 DK96; IF amplifier V2, DF96; detector and LF amplifier V3 DAF96; power output DL96.

Waveband coverage, MW 187-550m, LW 1052-2000m.

Aerial circuit employs two high-impedance frame aerials fitted inside hinged lid. MW one has iron cored L3 in series for inductance adjustment and LW circuit is grounded when not in use.

Battery. Vidor type L5546 (90V HT/7.5V LT).

Mains voltage adjustment is by selector panel and shorting plug, taps being 200-210, 220-230, 240-250V.

Speaker. 5in. PM 3 ohms.

Weight. With battery, 8½ lb.; without battery, 7½ lb.

Warning device. If set is still switched on when lid of case is closed, the lid stay, by shorting two springs, connects a capacitor C18 from anode of V4 to grid 2 of V3, causing the audio stages to oscillate and emit a warning note.

SERVICING NOTES

Adjusting filament current by means of variable resistor R17 is an important operation, since the life of the valves depends upon its being accurately set. Adjustment must be

made when any component is changed that will effect filament supply voltage.

Correct adjustment is achieved by inserting a milliammeter between R18 and the mains/battery switch and setting R17 to give a filament current of 23.7mA.

Total permissible setting error must not exceed *plus or minus 2 per cent*.

Chassis removal is not usually necessary if set requires servicing, but should the need arise, first pull off front control knobs, then remove two retaining wood screws on inside lid of cabinet. Pull out frame aerial card, unsolder three leads connecting frame aerial to chassis.

Unscrew the two captive screws holding front panel and stand receiver on right-hand end. Open front panel; unsolder two connecting leads from output transformer to speaker. Remove four self-tapping screws securing chassis to front panel. Chassis can then be withdrawn.

MODIFICATIONS

On later models R19 is 820 ohms, R21 360 ohms, R22 240 ohms, R23 160 ohms. These changes in value prevent the frequency changer cutting off and it is recommended that earlier receivers should also be thus modified.

ALIGNMENT

General. If the IF circuits have been disturbed, complete IF and RF alignment should be made.

While ganging, output from test oscillator should be progressively reduced as circuits are brought into line, so that output does not exceed 50mW.

An AC voltmeter across speech coil may be used as an output meter.

When alignment of the oscillator or aerial circuit is necessary, adjustments must be made with receiver complete with battery in its correct position.

IF stages. Remove chassis from cabinet, reconnect speaker (with extra length of flex), switch to MW, set volume control at maximum and gang to minimum capacity.

VOLTAGE AND CURRENT CHECKS

Voltages were taken using a 500 ohms per volt meter on the 100V range; wavechange switch to MW; no signal. Battery voltages HT 90V, LT 7.5V; mains 225V 50c/s AC into 220-230 tap. Variations of plus or minus 15 per cent. may be anticipated between models.

Valve	Va		Vg1		Vg2		Vg4		Ia (mA)		Ig2 (mA)		Ig4 (mA)	
	Mains	Battery	Mains	Battery	Mains	Battery	Mains	Battery	Mains	Battery	Mains	Battery	Mains	Battery
V1	90	88	35	34	71	68	0.7	0.7	1.6	1.5	0.2	0.2		
V2	90	88			68	64	1.7	1.6	0.6	0.5				
V3							0.06	0.06	0.02	0.02				
V4	88.5	86	-1.4		90	88	4.0	4.0	0.8	0.8				

Total nominal current on batteries: HT, 9.3mA; LT, 25.9mA.
Total nominal current on mains: HT, 9.4mA; LT, 23.7mA.

Reservoir voltage: 110V.
Transformer secondary: 100-0-100V AC.

Inject modulated 470kc/s between front section of gang and chassis, adjust cores of L4 L5 L8 L9 for maximum output. Repeat for optimum results.

Scale adjustment. Set gang to maximum capacitance and check that alignment mark on scale coincides with marker on front panel.

Since alternative types of gang may be used (Plessey or Wingrove and Rogers—Polar) it will be necessary to ascertain which type is fitted; name is given on rear of gang.

With the Plessey gang, the round alignment mark on scale (adjacent to 540m position) should coincide with marker on front panel. With the Polar gang, line up the square alignment mark on scale against the fixed marker.

If adjustment be necessary, slacken knob fixing screw and rotate knob until scale is in correct position.

RF stages. When adjusting the RF circuits do not connect signal generator direct to frame aerials or gang capacitor. Front panel should only be raised just enough to enable adjustments to be carried out, since close proximity of front panel and lid seriously affect the alignment. Clip hot side of signal generator to receiver chassis.

Medium waves. Switch to MW, set volume control at maximum.

- (1) Tune receiver to 500 metres, inject 600kc/s, adjust L6 L3 for maximum output.
- (2) Tune receiver to 200 metres, inject 1500kc/s, adjust TC4 TC2 for maximum output.
- (3) Repeat the above operations until no further improvement is possible.

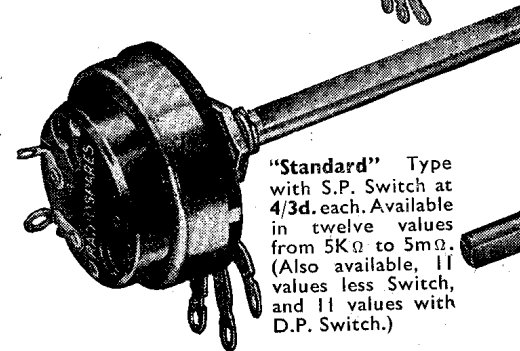
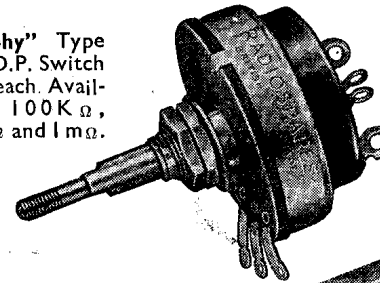
Long waves. Switch to LW, set volume control at maximum.

- (1) Tune receiver to 1900 metres, inject 158kc/s, adjust L10 for maximum output.
- (2) Tune receiver to 1100 metres, inject 273kc/s, adjust TC5 TC1 for maximum output.
- (3) Repeat the above operations until no further improvement is possible.

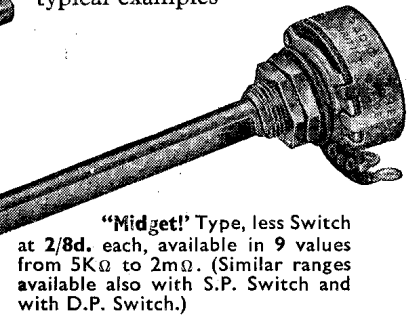
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