

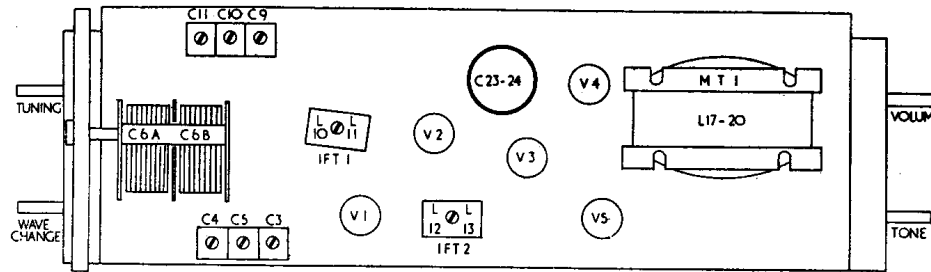
# ELECTRICAL & RADIO TRADING SERVICE CHART

## REGENTONE A133

**F**IVE-VALVE three-waveband table model in walnut cabinet. Suitable for 220-250V AC mains, the set was released August 1953, and is manufactured by Regentone, Ltd., Eastern Avenue, West, Mawneys, Romford, Essex. The set is priced at 19 gns. inclusive of £4 16s. 11d. tax.

The receiver is a normal superhet employing an ECH42 frequency-changer V1, EAF42 or EF41 IF amplifier V2, EBC41 second detector and AF amplifier V3, and EL41 output stage V4. HT rectifier is an EZ40 V5. Waveband coverage is LW 1000-2000m, MW 200-550m, SW 16.6-50m.

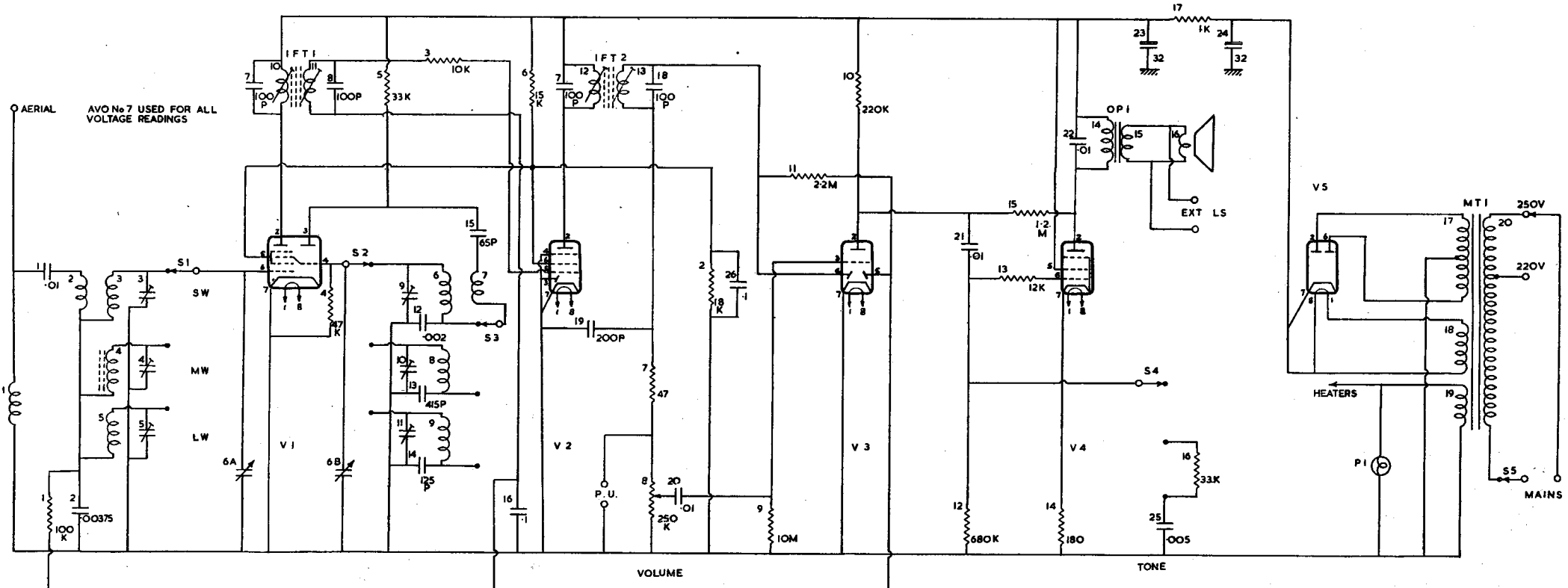
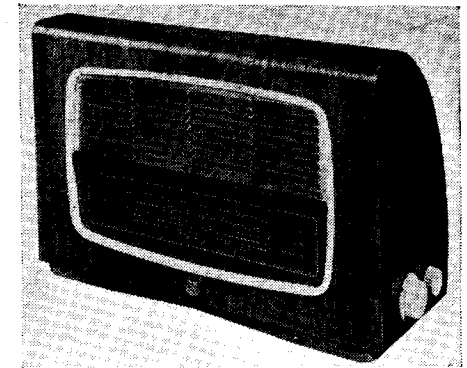
**Aerial.** External aerial and earth are used, sockets being provided at rear of cabinet. On SW aerial is transformer coupled to grid of V1 via C1 L2 L3. On MW and LW signal



### COMPONENT RATINGS

**Resistors—**  
 4W: R17.  
 2W: R6.  
 ½W: R2 5 14.  
 Remainder all ¼W.

**Capacitors—**  
 Silver mica: C2 12-15 19.  
 Paper tub. 1,000V: C22.  
 Paper tub. 500V: C1 20 21 25.  
 Paper tub. 350V: C16 26.  
 Electrolytic 450V: C23 24.



A  
G2  
K

#### ECH42

240 94 70 NON OSC.

88

#### EAF42 (or EF41)

240

88

#### EBC41

76

-

#### EL41

227

240

6.9

#### EZ40

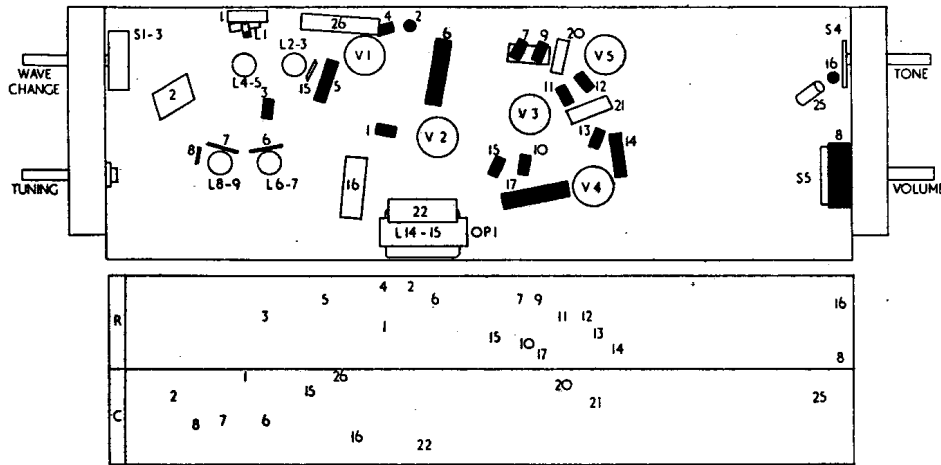
290 AC

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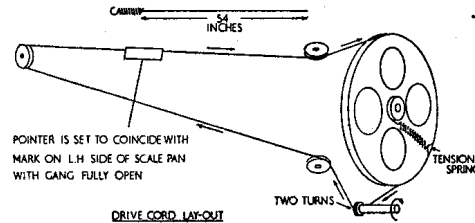
300

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| INDUCTANCES |              | L Ohms |                       |
|-------------|--------------|--------|-----------------------|
| 1           | ... 12       | 11     | ... 65                |
| 2           | ... 2        | 12     | ... 70                |
| 3           | ... Very low | 13     | ... 50                |
| 4           | ... 2.5      | 14     | ... 450               |
| 5           | ... 35       | 15     | ... Very low          |
| 6           | ... Very low | 16     | ... LS                |
| 7           | ... Very low | 17     | ... 700 tapped at 350 |
| 8           | ... Very low | 18     | ... Very low          |
| 9           | ... 13.5     | 19     | ... Very low          |
| 10          | ... 75       | 20     | ... 52 tapped at 45   |



### ALIGNMENT NOTES

Signal should be fed to the receiver via a dummy aerial. For IF use a 0.1mF capacitor, for SW a 400 ohms resistor and 400pF capacitor in series, and for LW and MW a standard dummy aerial. This may consist of 200pF capacitor, 25 ohms resistor and a 25 microhenries inductance in series.

IF dust cores will peak in two positions. The correct position is that farthest from the base pins.

### TRIMMING INSTRUCTIONS

| Apply signal as stated below       | Tune receiver to | Trim in order stated for maximum output |
|------------------------------------|------------------|---|
| (1) 470 kc/s to g1 of V1 via 0.1mF | MW mid-scale     | Cores L13 L12 L11 L10                   |
| (2) 300kc/s to AE input via dummy  | 1,000 m.         | C11 C5                                  |
| (3) Check calibration at 160kc/s   | —                | —                                       |
| (4) 1,500kc/s to AE as above       | 200 m.           | C10 C4                                  |
| (5) Check calibration at 575kc/s   | —                | —                                       |
| (6) 15mc/s to AE as above          | 20 m.            | C9 C3                                   |
| (7) Check calibration at 7.5mc/s   | —                | —                                       |

is bottom capacity coupled, being passed via L2 to bottom of L4 and L5.

**Pickup** sockets are provided for high resistance type pick-up. Connection is made directly across AF volume control R8. When not in use pickup should be disconnected.

**AVC.** IF signal appearing across secondary of IFT2 is fed via R11 to second diode of V3. DC voltage is developed across R8 R7 R11, and is fed from diode plate to V1 and V2 as AVC bias, decoupled by C16 R1 C2.

**Tone control.** A three-position switch S4 places either R16 C25, in series, across grid circuit of V4 to give a medium amount of top cut or C25 alone, giving increased top cut.

Both current and voltage negative feedback are incorporated in the output stage. Current feedback is provided by R14, which is not decoupled, and voltage feedback by R15, which with C21 and R12 forms a potentiometer between anode and earth of V4. Degree of feedback is changed by S4.

**Extension** LS sockets are provided across L15, secondary of OPI.

**HT** is provided by indirectly-heated full-wave rectifier V5. Anode voltages are supplied by L17, secondary of MT1. Resistance capacity smoothing is by C24 R17 C23. Reservoir smoothing capacitor C24 should be rated to handle 90mA ripple current.

On-off switch S5 is ganged to spindle of volume control.

16 MFD.  
450V. at 2/9d. each

16—16 MFD.  
350V. C.N. at  
3/6d. each

8 MFD. 450V. at  
1/9d. each

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

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! (All illustrations show actual size of Condensers).

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