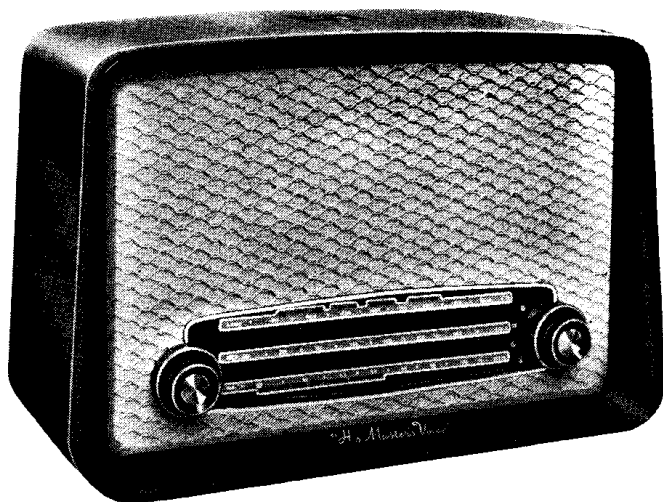


# "His Master's Voice"

**PRELIMINARY  
SERVICE  
DATA**



**MODEL  
1370**



*(Registered Trade Mark of  
The Gramophone Company Limited)*

## Radio

### SERVICE NOTES

#### Mains Supply

200 to 250 Volts. A.C. or D.C. mains (50—60 cycles A.C.).

Power consumption approximately 50 watts.

#### Waveband Coverage

Long Wave—1,160-1,940 metres  
Medium Wave—188-545 metres  
V.H.F./F.M.—88-101 Mc/s.

#### Valves

- |        |   |
|--------|---|
| UCC85  | V.H.F. Amplifier and Mixer Oscillator.          |
| UCH81  | A.M. Frequency Changer and F.M. I.F. Amplifier. |
| UF89   | A.M. and F.M. I.F. Amplifier.                   |
| UABC80 | A.M. and F.M. Detector and Audio Amplifier.     |
| UL84   | Audio Output.                                   |
| UY85   | Half Wave Rectifier.                            |

#### Removing the Chassis

Remove the cabinet back and

free the ferrite-rod aerial from its mounting cradle.

The chassis is secured to the base of the cabinet by four 2 BA screws and insulating nuts which seat into square shaped holes in the chassis support brackets. With these screws removed, the chassis may then be withdrawn from the cabinet.

When replacing the chassis, ensure that the insulating nuts are properly seated and that the insulating caps at the rear of the chassis support brackets are correctly positioned to prevent any danger of the metal parts of the brackets becoming exposed.

*Note.*—The inner control knobs are secured by grub screws covered with wax. If the knobs are removed during servicing, they must be re-waxed before returning the receiver to the customer.

### ALIGNMENT

#### A.M. CIRCUITS

##### I.F. Alignment

Switch receiver to M.W., turn gang to minimum capacitance position and volume control to maximum. Inject a 470 Kc/s modulated signal through a 0.01  $\mu$ F capacitor at the grid of **V2** (pin 2).

Adjust **L18**, **L17**, **L14** and **L13** for maximum output, adjusting input signal level to maintain output at approximately 50 mW.

##### R.F. Alignment

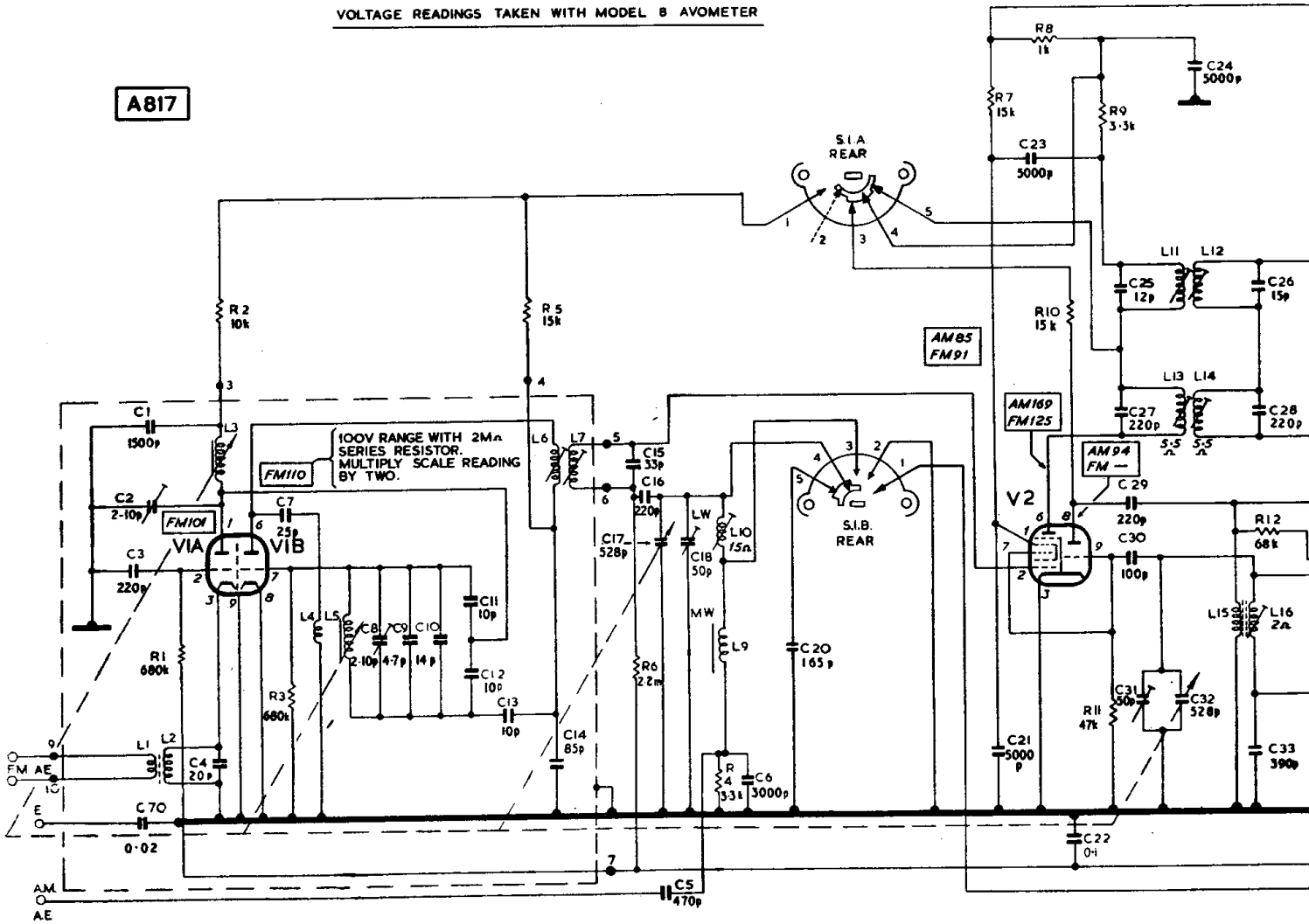
M.W. must be aligned first. Signals to be injected via a loop, loosely coupled inductively to the ferrite-rod aerial. Input level to be adjusted to maintain output at 50 mW.

1. With gang at maximum capacitance, set cursor to position **E**.
2. Switch to M.W., inject 1,400

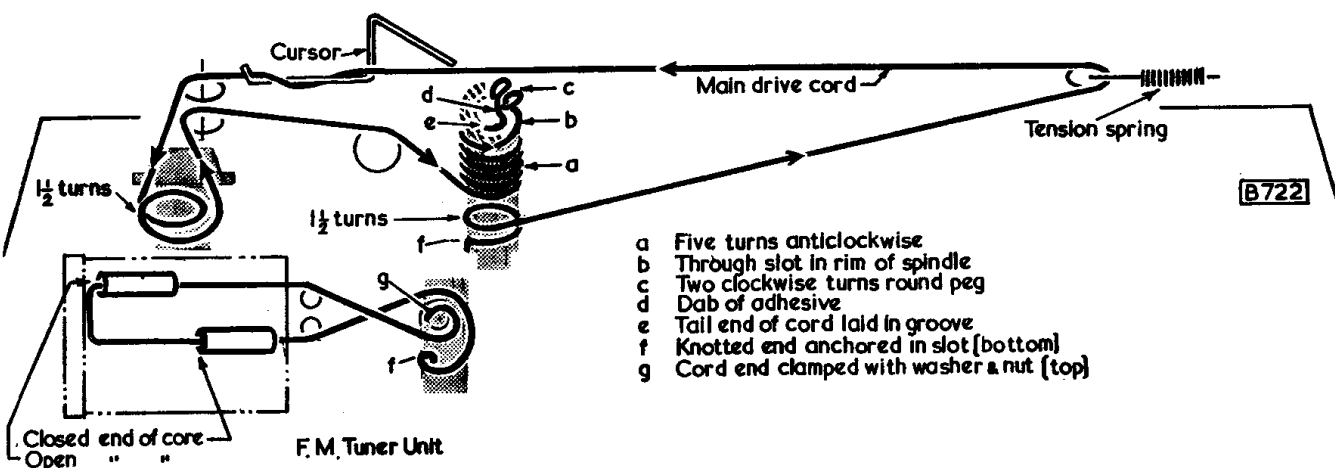
*continued on p. 4*

**PRICE 6d.**

VOLTAGE READINGS TAKEN WITH MODEL B AVOMETER



DIAGRAMMATIC ONLY Position when Gang closed Viewed from rear of chassis



- a Five turns anticlockwise
- b Through slot in rim of spindle
- c Two clockwise turns round peg
- d Dab of adhesive
- e Tail end of cord laid in groove
- f Knotted end anchored in slot (bottom)
- g Cord end clamped with washer & nut (top)

Fig. 1. The tuning drive cords. For the main drive, allow 4 ft. of nylon braided cord and arrange as shown. A special cord assembly with tuning slugs already fitted must be used if the F.M. Tuner drive cord needs replacement (Part No. Z17223).

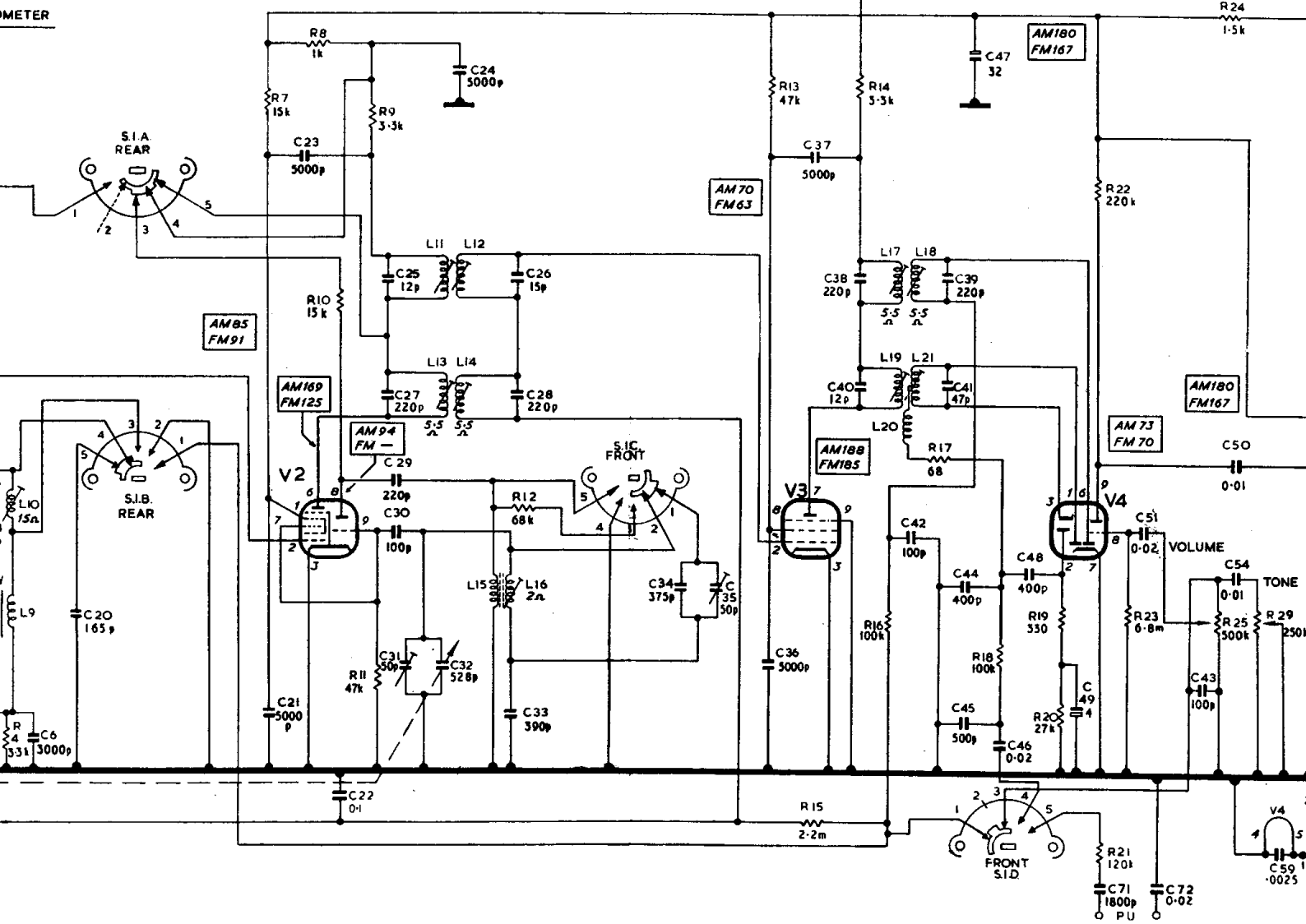
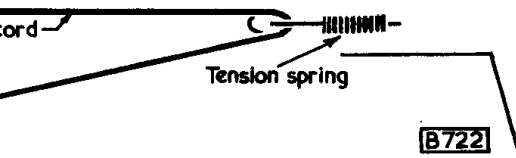


Fig. 2. Circuit diagram of Model 1370 Schenker receiver in the L.W. (fully anti-clockwise position) sections SIA and SIB as they would be used. D.C. resistances of inductors are given in ohms. Voltage readings taken on a model 8...

from rear of chassis



B722

...clockwise  
...rim of spindle  
...turns round peg  
...ve  
...d laid in groove  
...anchored in slot (bottom)  
...ipped with washer & nut (top)

4 ft. of nylon braided cord and arrange  
...s already fitted must be used if the F.M.  
...3).

**SWITCH TABLE**

Position	Contacts Closed		
	SIA	SIB	
L.W.	3, 4, 5	4, 5	
M.W.	3, 4, 5	3, 4	
V.H.F.	1, 4	1, 2, 3, 4	2, 3
GRAM.	—	1, 2	

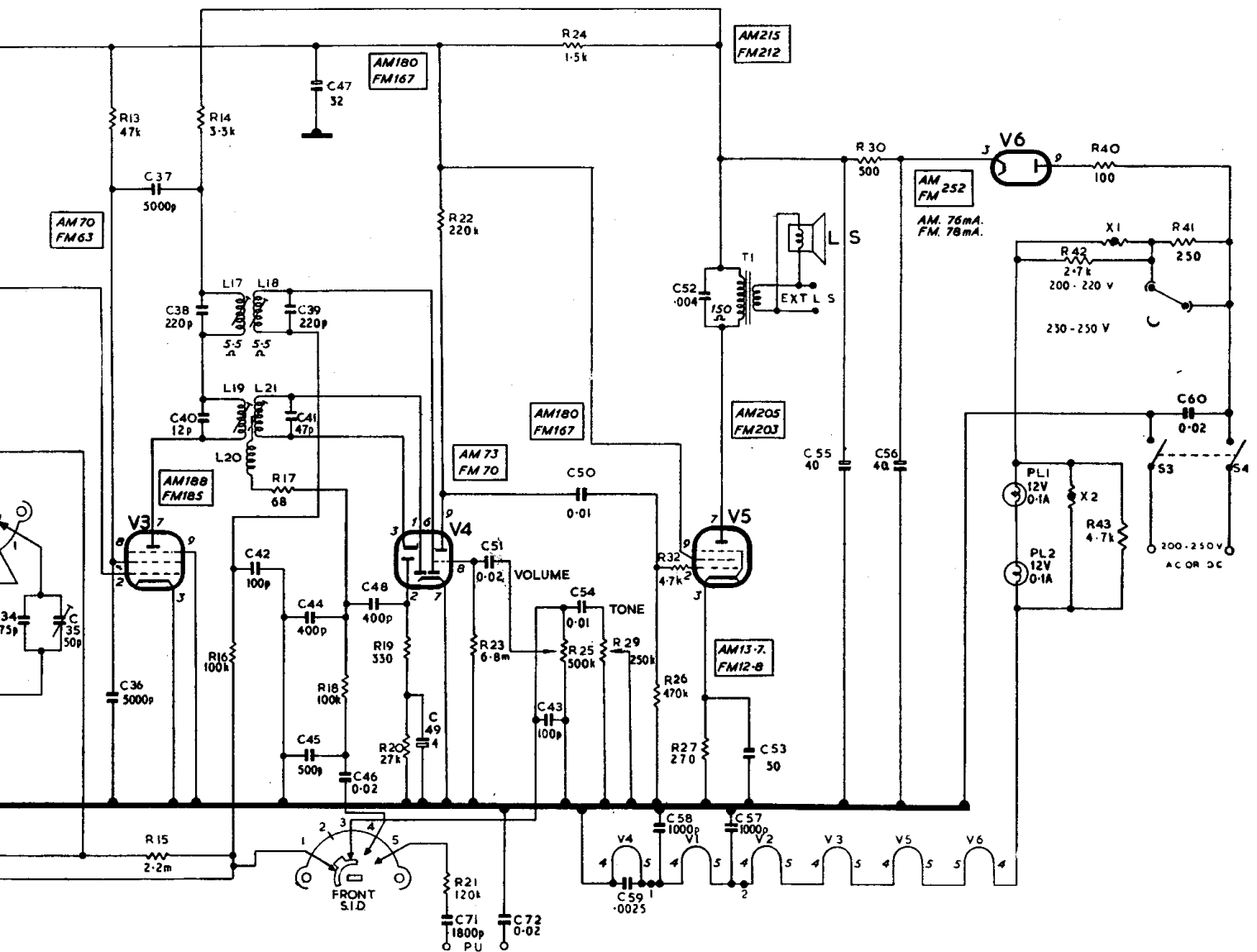


Fig. 2. Circuit diagram of Model 1370 Schedule A production. The wave range switches are shown in the L.W. (fully anti-clockwise position) as viewed from the spindle end with the rear sections **SIA** and **SIB** as they would be seen "through" the wafer. Numbers against the contacts refer to the Switch Table which gives the switch operations for each waveband. D.C. resistances of inductors are given on the diagram where they are  $1\Omega$  or greater. Voltage readings taken on a model 8 Avometer are shown in rectangles.

**SWITCH TABLE**

Position	Contacts Closed			
	SIA	SIB	SIC	SID
L.W.	3, 4, 5	4, 5	1, 2	1, 3
M.W.	3, 4, 5	3, 4	2, 3	1, 3
V.H.F.	1, 4	1, 2, 3, 4	2, 3, 4, 5	3, 4
GRAM.	—	1, 2	4, 5	3, 5

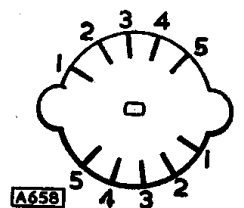


Fig. 3. Generalised view of switch wafer, showing relative positions of contacts.

