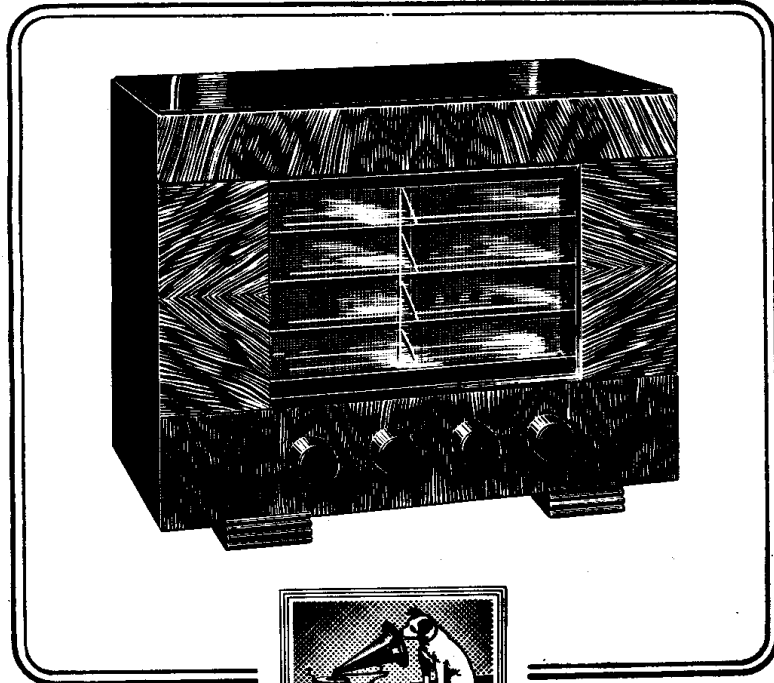


“His Master’s Voice”



The Hallmark of Quality

SERVICE MANUAL

Model 1121

5-valve Superhet Table Receiver

for A.C. Mains

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MODEL 1121

SPECIFICATION

Physical.

Height 14 inches }
Width 18 inches } Overall
Depth 10 inches }
Weight 30½ lbs.

Mains Supply and Consumption.

200-250 volts A.C., 50-100 c.p.s.
Consumption - 60 watts.

Rated Output.

5 watts maximum.

Intermediate Frequency.

465 kc/s.

Wave Ranges.

S.W.2. 16 - 50 metres. (18.75 - 6.0 Mc/s.)
S.W.1. 50 - 187 metres. (6.0 - 1.604 Mc/s.)
M.W. 187 - 582.5 metres. (1604 - 515 kc/s.)
L.W. 719 - 2,026 metres. (418.4 - 148 kc/s.)

Scale Lamps and Fuses.

Four lamps, 6.8 volts, 0.5 amp.
Two fuses, 1 amp. Cartridge Type.

Valves.

V₁ X78 Frequency Changer.
V₂ W77 I.F. Amplifier.
V₃ DH77 Detector, A.G.C. and A.F. Amplifier.
V₄ KT61 Output.
V₅ U10 Rectifier.

Loudspeaker.

This is a 10½ inch elliptical cone, permanent magnet moving coil loudspeaker. The speech coil has a D.C. resistance of 3 ohms and an impedance of 5 ohms at 1,000 cycles. Sockets are provided for the connection of an external loudspeaker.

Pick-up or Record Player.

A pick-up or record player may be connected to sockets at back of receiver. The Volume and Tone controls are operative on gramophone.

CIRCUIT DESCRIPTION

Frequency Changer.

The aerial is switched on each waveband to matching coils which are coupled to tuned windings in the grid circuit of the triode-hexode frequency changer V₁ (X78).

The tuned grid coils are adjusted by means of iron-dust cores and parallel trimmer capacitors.

The local oscillator circuit also has tuned coils adjustable by means of iron-dust cores and parallel trimmer capacitors, the tuned windings being in the anode circuit to give greater stability on the short wavebands.

The first iron-dust cored I.F. transformer (IFT₁) couples this valve to the I.F. Amplifier.

The I.F. transformer is arranged to give variable selectivity in conjunction with capacitors C₁₂ and C₁₅ which are switched by S₂ to give increased coupling in max. top response position only.

I.F. Amplifier.

This valve V₂ (W77) amplifies at the intermediate frequency of 465 kc/s. and is coupled to the second detector by a further iron dust cored I.F. transformer IFT₂.

Detector A.G.C. and A.F. Amplifier.

Double-diode triode V₃ (DH77) is used as a detector and A.G.C. rectifier, the volume control VR₁ being the signal diode load. A.G.C. voltage is taken from the D.C. component of the rectified voltage across R₁₂ and is applied

to control the bias of the grid circuits of V₁ and V₂ which are decoupled by R₁₀ and C₁₄.

A.F. signals taken from VR₁ are applied to the grid of the triode section of V₃, and this section is resistance capacity coupled to the grid of the output valve.

Output.

The output valve V₄ is auto biased by R₁₈ and decoupled by C₃₂. Top cut is provided by C₂₈, C₂₉ and C₃₀, the capacitors being switched in circuit by S₂. Bass cut is provided in the final position of S₂ by switching C₂₆ into circuit, this helps to eliminate boomy speech etc., on the S.W.

band. Fixed tone correction is given by C₃₃.

This valve supplies the loudspeaker via an output transformer T₁. External loudspeaker sockets are provided.

H.T. and Heater Supplies.

H.T. is supplied from the mains transformer (T₂) and the full wave rectifier V₅ (U₁₀). Smoothing is obtained by C₃₅, R₂₀ and C₃₄.

The heater supply is taken from a separate winding on the mains transformer. Four scale lamps LP₁, LP₂, LP₃ and LP₄ are connected across the winding.

INSTALLATION

The Aerial and Earth.

The receiver must be connected to an adequate aerial and earth installation. A lightning arrester or switch should be provided.

Do not use a telephone earth, or a hot water or gas pipe as an earth.

Transit Packing.

Remove the tape securing the gang capacitor, and remove the four red-headed transit bolts, beneath the cabinet, to allow the chassis to float freely on its rubber cushioning.

The transit packing should be kept in case the instrument is transported at some future occasion.

Mains Supply.

The voltage range covered by the terminals is as follows:-

| Terminal | Voltages |
|----------|----------|
| 205 | 200-215 |
| 225 | 216-235 |
| 245 | 236-250 |

DISMANTLING

Before attempting any dismantling, ensure that the instrument is completely disconnected from the supply.

Ganging and minor adjustments may be carried out without removing the chassis; simply open the back and remove the service hatch from beneath the cabinet.

Removal of Chassis.

1. Remove the four front control knobs (screw fixing).
2. Open the back (two screws); the back is hinged for convenience.

3. Loosen screws securing scale lamp brackets and unclip brackets from loudspeaker baffle. Remove leads from cleats on cabinet.
4. Loosen screw clamping the drive cord to the cursor and slip cord free. Access to the screw can be gained from beneath the chassis.
5. Remove the four chassis fixing screws from the underside of the cabinet.
6. Withdraw chassis.

NOTE:- The loudspeaker is fitted to the cabinet, but sufficient lead is provided for the chassis to be serviced outside the cabinet.

Removal of H.F. Unit.

1. Unsolder the leads from the Aerial and Earth tags to the H.F. Unit, and the two leads to the gang capacitor.
2. Unsolder the following leads from the tag panel on the H.F. Unit.

- (a) Lead from Tag 1 to Pin 6 V₁, and resistor R6 (22,000 ohms).
- (b) Lead from Tag 2 to Pin 7 V₁.
- (c) Lead from Tag 5 to Pin 2 V₁.
- (d) Braided lead from Tag 6 to spigot of V₁.

3. Remove the four P.K. screws and withdraw the unit.

I.F. AND R.F. ALIGNMENT

General.

If the I.F. circuits have been disturbed, complete I.F. and R.F. alignment must follow. Either S.W., M.W., or L.W. bands can be reganged without affecting the other bands. The S.W. bands can also be reganged independently.

The oscillator tracks at a higher frequency than the signal on all wavebands.

Whilst ganging, the input to the receiver must be progressively reduced as the circuits are brought into line so that the output does not exceed 500mW. (1.4V across the speech coil).

An A.C. voltmeter (rectifier type) connected across the loudspeaker speech coil may be used as an output meter.

Intermediate Frequency.

Set the Waveband switch to M.W., the Volume control fully clockwise and the Tone control fully anti-clockwise less one position.

1. Connect a 30,000 ohm resistor across tags 3 and 4 of IFT₂. Inject a modulated signal at 465 kc/s into the grid of V₁ and adjust core of L₁₈ for maximum output.

Place the 30,000 ohm resistor across tags 1 and 6 of IFT₂ and adjust core of L₁₉ for maximum output.

2. Remove resistor and adjust cores of L₁₇ and L₁₆ in that order for maximum output.

Radio Frequency - Setting Up Calibration Scale.

As the wavescale is not assembled to the chassis, a calibration scale is printed on the back of the gang capacitor drum. This scale is calibrated in inches and sixteenths of an inch, which correspond to the frequencies given in the ganging tables, and is read against a pointer mounted above the capacitor drum.

Before commencing R.F. ganging operations, it is essential to check the position of the pointer in relation to the calibration scale as follows:-

1. Turn gang capacitor to maximum capacity.
2. See that the pointer coincides with 9 inches on the calibration scale.
3. If adjustment is necessary, slacken the nut securing the pointer and adjust, then tighten the nut securely.

Short Waves.

Set Volume control fully clockwise and Tone control fully anti-clockwise less one position. Inject test signal into aerial and earth sockets via a S.W. dummy aerial.

| Waveband Switch Position | Op. No. | Calibration Scale Setting | Tune Test Oscillator to | | Operation |
|--------------------------|---------|---------------------------|-------------------------|-------|--|
| | | | m. | M/cs. | |
| S.W. 2 | 1 | $8\frac{7}{16}$ | 50 | 6 | Adjust L ₁₀ for maximum output. |
| " | 2 | Rock Gang | " | " | Adjust L ₂ for maximum output. |
| " | 3 | $8\frac{7}{16}$ | " | " | Adjust L ₁₀ for maximum output. |
| " | 4 | $\frac{13}{16}$ | 16.8 | 17.8 | Adjust TC ₅ for maximum output. |
| " | 5 | Rock Gang | " | " | Adjust TC ₁ for maximum output. |
| " | 6 | $\frac{13}{16}$ | " | " | Adjust TC ₅ for maximum output. |
| " | 7 | — | — | — | Repeat operations 1 - 6. |

| Waveband Switch Position | Op. No. | Calibration Scale Setting | Tune Test Oscillator to | | Operation |
|--------------------------------|------------|------------------------------|----------------------------|-------|--|
| | | | m. | M/cs. | |
| S.W. 1 | 1 | $6\frac{5}{8}$ | 150 | 2 | Adjust L ₁₂ for maximum output. Adjust L ₄ for maximum output. Adjust L ₁₂ for maximum output. Adjust TC ₆ for maximum output. Adjust TC ₂ for maximum output. Adjust TC ₆ for maximum output. Repeat operations 1 to 6. |
| " | 2 | Rock Gang | " | " | |
| " | 3 | $6\frac{5}{8}$ | " | " | |
| " | 4 | $\frac{27}{32}$ | 54.5 | 5.5 | |
| " | 5 | Rock Gang | " | " | |
| " | 6 | $\frac{27}{32}$ | " | " | |
| " | 7 | — | — | — | |

Medium Waves.

Controls as before, but with Waveband switch set to M.W., M.W. dummy aerial to be used.

| Waveband Switch Position | Op. No. | Calibration Scale Setting | Tune Test Oscillator to | | Operation |
|--------------------------------|------------|------------------------------|----------------------------|-------|--|
| | | | m. | kc/s. | |
| M.W. | 1 | $7\frac{3}{16}$ | 510 | 588 | Adjust L ₁₄ for maximum output. Adjust L ₆ for maximum output. Adjust L ₁₄ for maximum output. Adjust TC ₇ for maximum output. Adjust TC ₃ for maximum output. Adjust TC ₇ for maximum output. Repeat operations 1 to 6. |
| " | 2 | Rock Gang | " | " | |
| " | 3 | $7\frac{3}{16}$ | " | " | |
| " | 4 | $\frac{7}{16}$ | 186.9 | 1605 | |
| " | 5 | Rock Gang | 210 | 1427 | |
| " | 6 | $\frac{7}{16}$ | 186.9 | 1605 | |
| " | 7 | — | — | — | |

Long Waves.

Controls as before, but with Waveband switch set to L.W., L.W. dummy aerial to be used.

| Waveband Switch Position | Op. No. | Calibration Scale Setting | Tune Test Oscillator to | | Operation |
|--------------------------------|------------|------------------------------|----------------------------|-------|--|
| | | | m. | kc/s. | |
| L.W. | 1 | $7\frac{1}{2}$ | 1850 | 162 | Adjust L ₁₅ for maximum output. Adjust L ₈ for maximum output. Adjust L ₁₅ for maximum output. Adjust TC ₈ for maximum output. Adjust TC ₄ for maximum output. Adjust TC ₈ for maximum output. Repeat operations 1 to 6. |
| " | 2 | Rock Gang | " | " | |
| " | 3 | $7\frac{1}{2}$ | " | " | |
| " | 4 | $1\frac{1}{2}$ | 850 | 353 | |
| " | 5 | Rock Gang | " | " | |
| " | 6 | $1\frac{1}{2}$ | " | " | |
| " | 7 | — | — | — | |

Ganging Tools.

A 4 BA non-metallic box spanner, together with a small non-metallic screwdriver inserted through the spanner, should be used for adjusting the coil cores. A special box spanner (Stock No.

Q/D 5021) is required for adjusting the oscillator circuit trimmer capacitors.

Write for particulars to E.M.I. Sales and Service Ltd., Dealers' Service Development Division, 100, Blyth Road, Hayes, Middlesex.

CALIBRATION

Replace chassis in cabinet and check calibration at about the middle of the tuning scale on a station of known wavelength. Adjust pointer to

give best compromise on all wavebands, if necessary.

CAPACITOR AND POINTER DRIVE

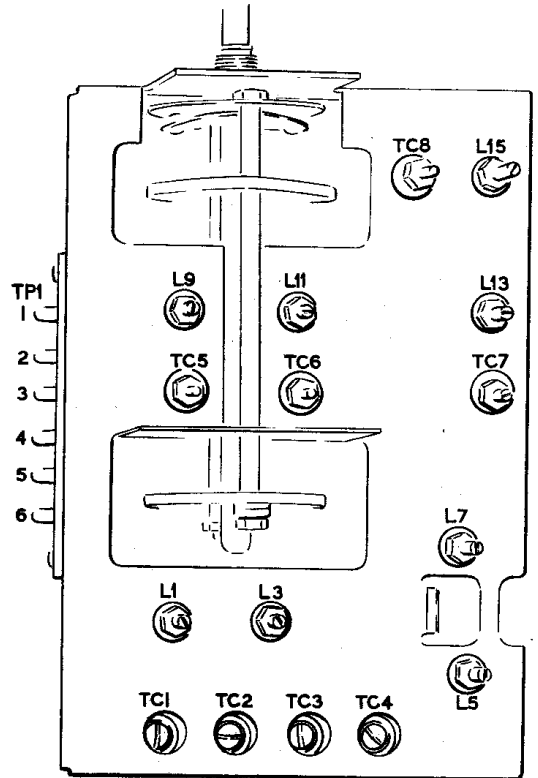
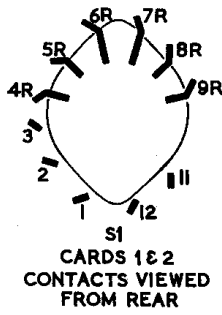
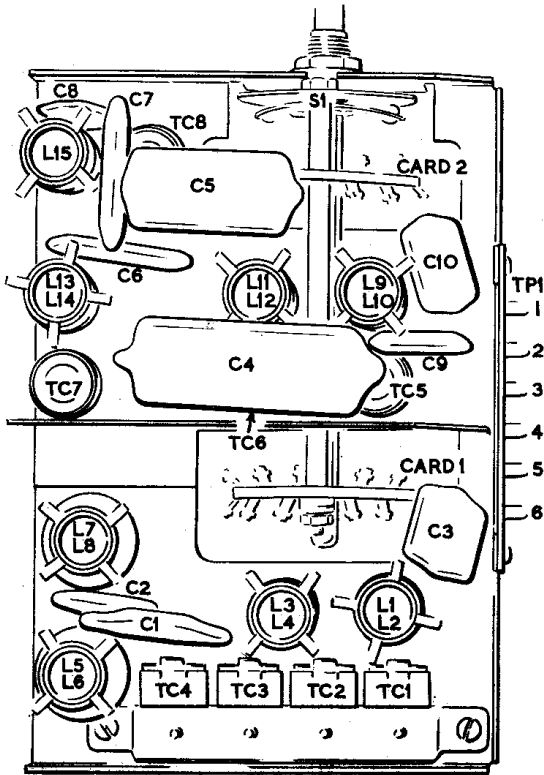
Use only correct nylon cord 6370 x 0012; approximately 72 inches of cord is used.

1. Form a loop in one end of cord with an opening of approximately $\frac{1}{8}$ inch in diameter and assemble on anchor pin.

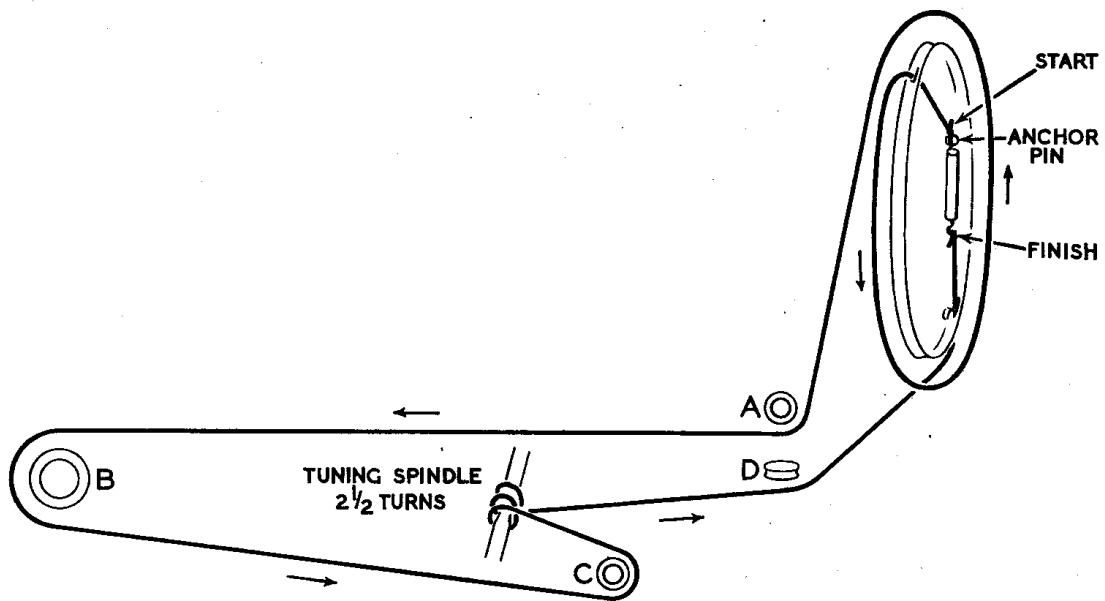
2. Wind cord round pulleys as shown in diagram.

3. Secure cord to tension spring and assemble spring.

NOTE. The knots, to prevent slipping, should be tied as reef knots and secured with shellac.

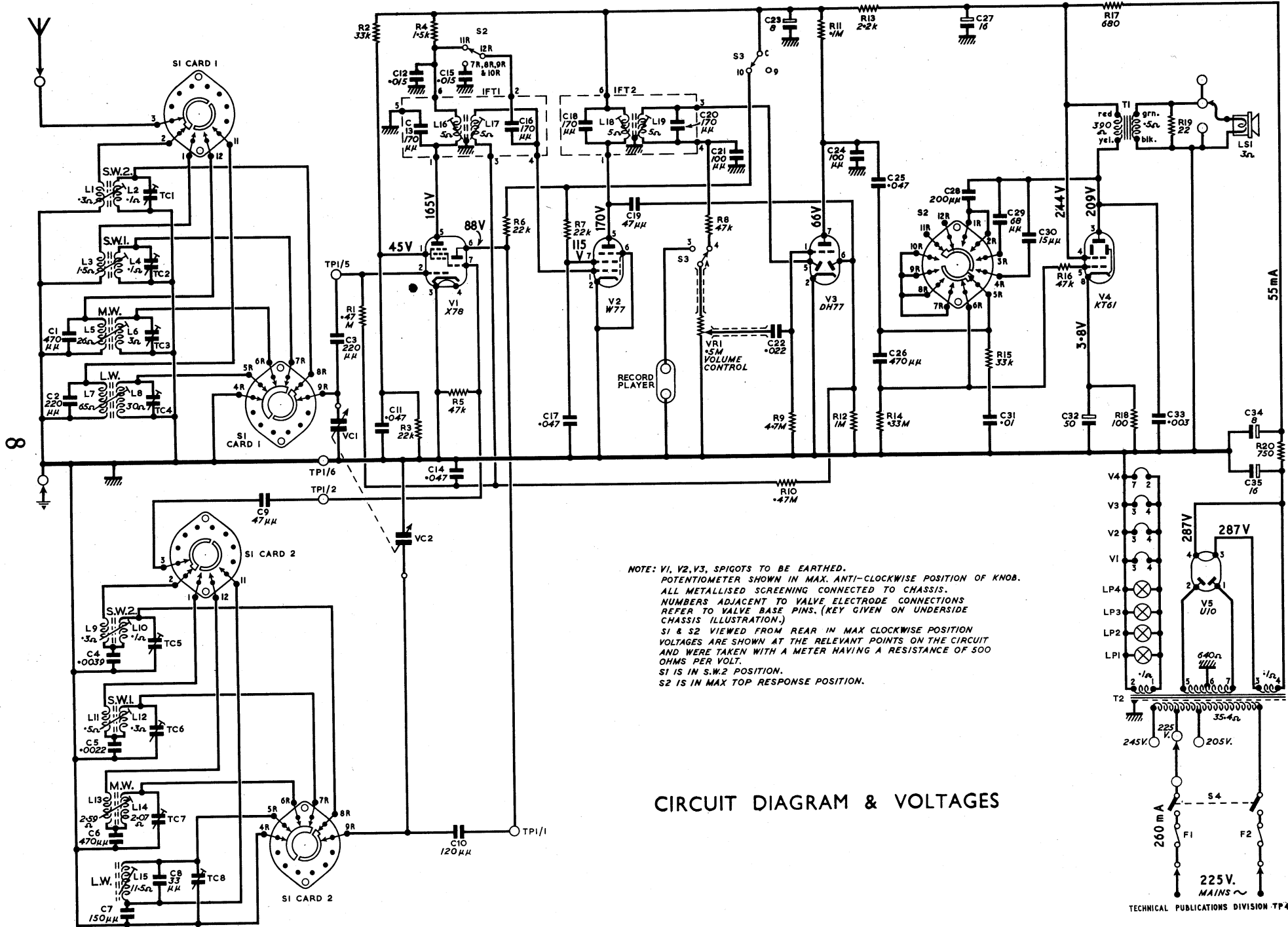


H.F. UNIT



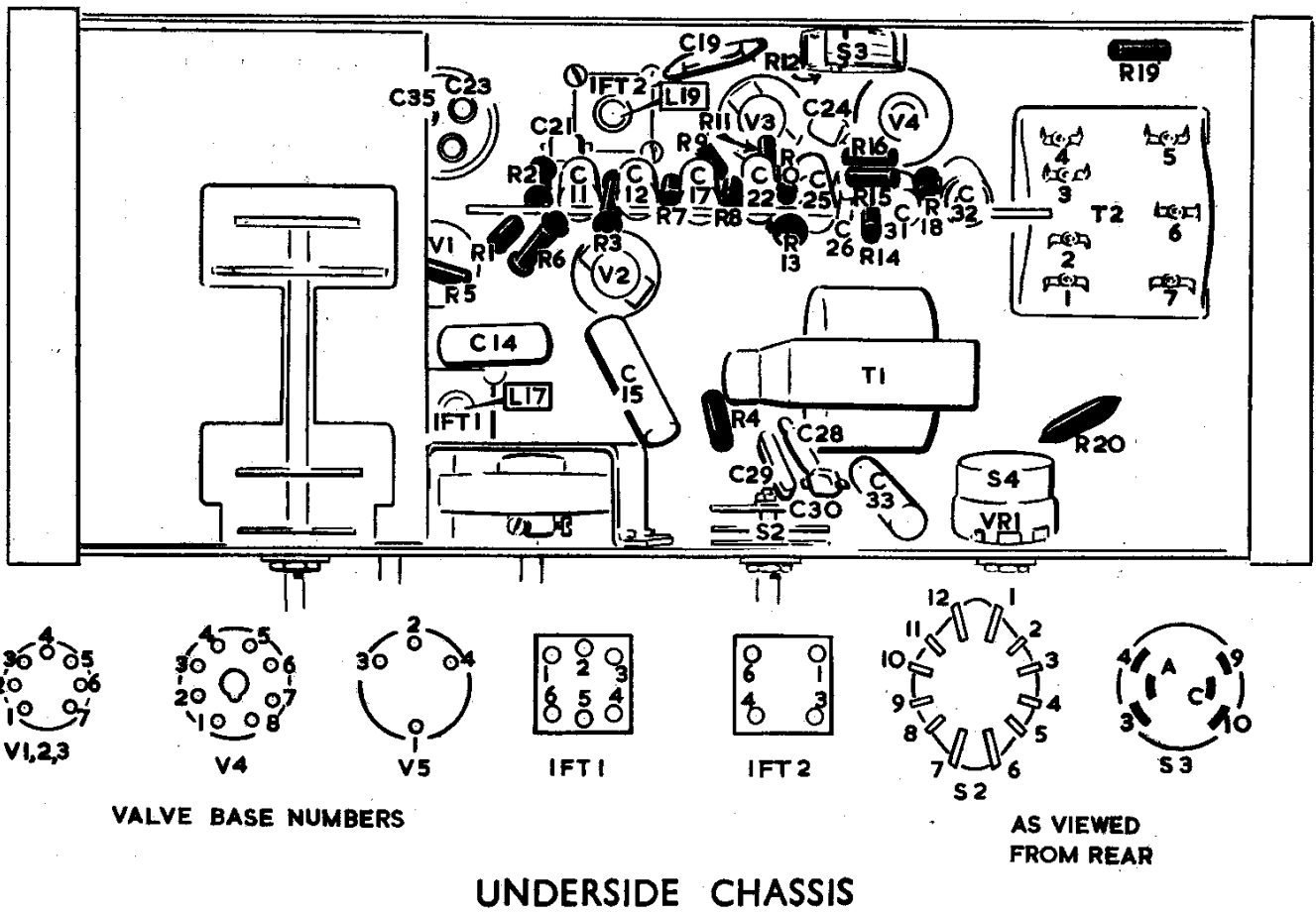
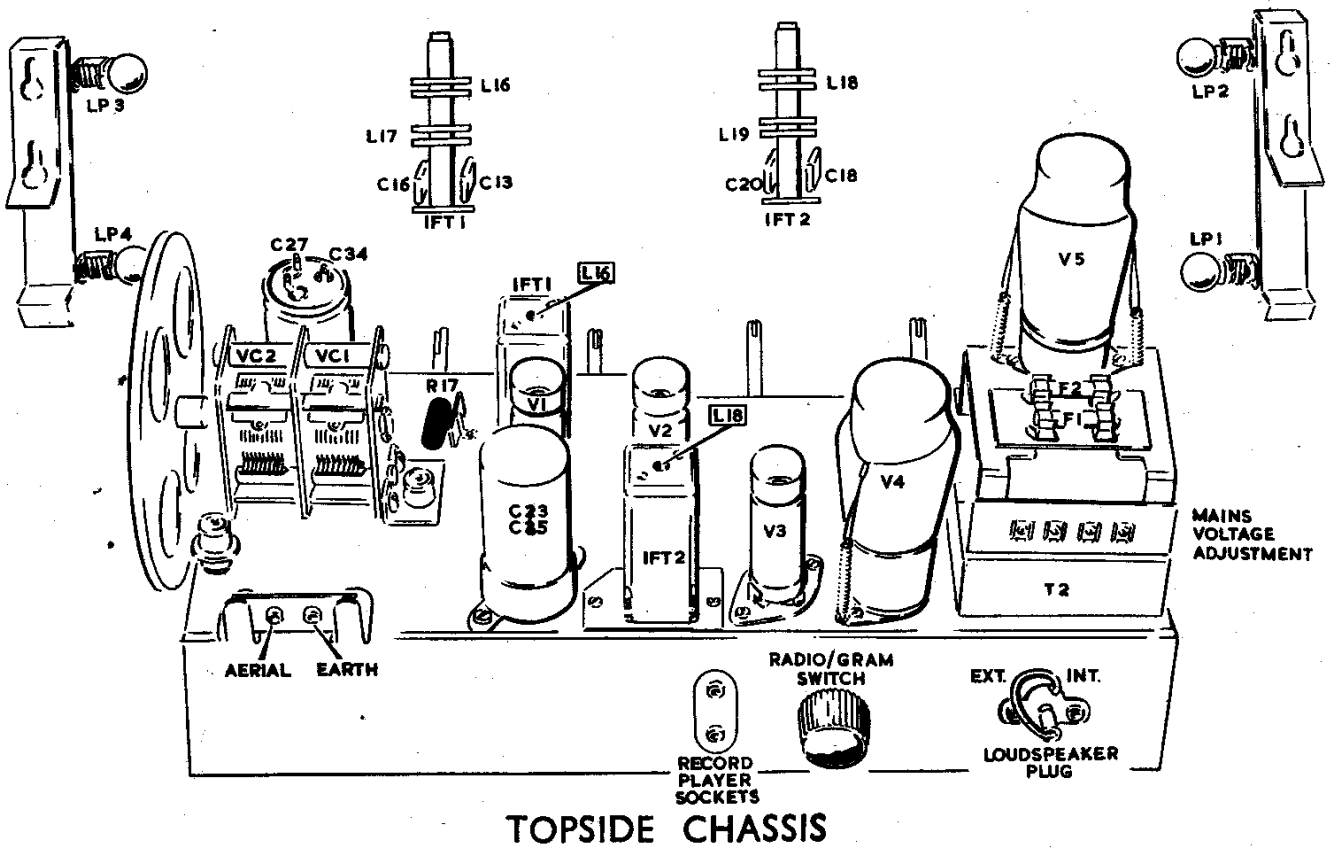
CORD DRIVE

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|-----------|---|-----|------------|---|---|-----|-----|----|----|-------------|----|----|-----------|----|-------|---------------|-------|-------|-----|-------|----|----|----|-----|----|----|----|-------|----|----|----|--------------------------|---|--|----|--|----|--|----|--|----------|--|-------|--|
| C | 1 | 2 | 4,5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20,21 | 22,23 | 24 | 25,26 | 28 | 27 | 31 | 29 | 30 | 32 | 33 | 34,35 | C | | | | | | | | | | | | | | | |
| R | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11,12 | 13 | 14 | 15 | 16 | 17,18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | R | | | | | | | | | | | |
| MISC. | LI TO LI5 | | | TC1 TO TC8 | | | VC1 | VC2 | | | LI6, V1, S2 | | | IFT1, LI7 | | | LI8, V2, IFT2 | | | LI9 | | | S3 | | VR1 | | S5 | | V3 | | S2 | | V4, LP1, 2, 3, 4, T1, T2 | | | F1 | | S4 | | V5 | | F2, LST1 | | MISC. | |



NOTE: V1, V2, V3, SPIGOTS TO BE EARTHED.
 POTENTIOMETER SHOWN IN MAX. ANTI-CLOCKWISE POSITION OF KNOB.
 ALL METALLISED SCREENING CONNECTED TO CHASSIS.
 NUMBERS ADJACENT TO VALVE ELECTRODE CONNECTIONS REFER TO VALVE BASE PINS. (KEY GIVEN ON UNDERSIDE CHASSIS ILLUSTRATION.)
 S1 & S2 VIEWED FROM REAR IN MAX CLOCKWISE POSITION
 VOLTAGES ARE SHOWN AT THE RELEVANT POINTS ON THE CIRCUIT AND WERE TAKEN WITH A METER HAVING A RESISTANCE OF 500 OHMS PER VOLT.
 S1 IS IN S.W.2 POSITION.
 S2 IS IN MAX TOP RESPONSE POSITION.

CIRCUIT DIAGRAM & VOLTAGES



SPARE PARTS LIST

| Ref. | Description | Part No. | Ref. | Description | Part No. |
|-----------------------------|-------------------------------|----------|--------------------|-----------------------|----------|
| CABINET AND FITTINGS | | | C7 | 150 mmfd. $\pm 2\%$ | 38000TJ |
| | Cabinet | 413401 | C8 | 33 mmfd. $\pm 5\%$ | 38004D |
| | Cabinet Back | 47047A | C9 | 47 mmfd. $\pm 5\%$ | 38004E |
| | Scale S.W.2. | 46921J | C10 | 120 mmfd. $\pm 5\%$ | 38000JG |
| | Scale S.W.1. | 46921K | C11 | 0.047 mfd. | 38211DY |
| | Scale M.W. | 46921L | C12 | 0.015 mfd. $\pm 5\%$ | 38253R |
| | Scale L.W. | 46921M | C13 | 170 mmfd. $\pm 2\%$ | See IFT1 |
| | Knob - Volume On/Off | 40171AE | C14 | 0.047 mfd. | 38210DY |
| | Knob - Tuning | 40171P | C15 | 0.015 mfd. $\pm 5\%$ | 38253R |
| | Knob - Waveband | 40171BA | C16 | 170 mmfd. $\pm 2\%$ | See IFT1 |
| | Knob - Tone | 40171AD | C17 | 0.047 mfd. | 38211DY |
| | Knob - Radio-Gram | 40172K | C18 | 170 mmfd. $\pm 2\%$ | See IFT2 |
| INDUCTANCES | | | C19 | 47 mmfd. | 38051DE |
| L1 | 16-50 Metres Aerial Coil | 27389FC | C20 | 170 mmfd. $\pm 2\%$ | See IFT2 |
| L2 | | | C21 | 100 mmfd. | 38050DG |
| L3 | 50-187 Metres Aerial Coil | 27389FF | C22 | 0.022 mfd. | 38211DW |
| L4 | | | C23 | 8 mfd. 450V | 38150A |
| L5 | M.W. Aerial Coil | 27389DU | C24 | 100 mmfd. | 38050DG |
| L6 | | | C25 | 0.047 mfd. | 38211DY |
| L7 | L.W. Aerial Coil | 27389DT | C26 | 470 mmfd. | 38051DL |
| L8 | | | C27 | 16 mfd. 450V | 38150A |
| L9 | 16-50 Metres Oscillator Coil | 27389FD | C28 | 200 mmfd. $\pm 2\%$ | 38001TK |
| L10 | | | C29 | 68 mmfd. | 38051DF |
| L11 | 50-187 Metres Oscillator Coil | 27389FE | C30 | 15 mmfd. | 38050DB |
| L12 | | | C31 | 0.01 mfd. | 38212DU |
| L13 | M.W. Oscillator Coil | 27389BX | C32 | 50 mfd. 12V | 38151F |
| L14 | | | C33 | 0.003 mfd. | 38214D |
| L15 | L.W. Oscillator Coil | 27389BW | C34 | 8 mfd. 450V | See C27 |
| L16 | IFT1 Primary Coil | See IFT1 | C35 | 16 mfd. 450V | See C23 |
| L17 | IFT1 Secondary Coil | | VC1 | Gang Capacitor | 37101C |
| L18 | IFT2 Primary Coil | See IFT2 | VC2 | | |
| L19 | IFT2 Secondary Coil | | TC1 | Trimmer 4-30 mmfd. | 31759A |
| | | TC2 | Trimmer 4-30 mmfd. | | |
| | | TC3 | Trimmer 4-30 mmfd. | | |
| | | TC4 | Trimmer 4-30 mmfd. | | |
| | | | TC5 | Trimmer 4-30 mmfd. | 35480B |
| | | | TC6 | Trimmer 4-30 mmfd. | 35480B |
| | | | TC7 | Trimmer 4-30 mmfd. | 35480B |
| | | | TC8 | Trimmer 4-30 mmfd. | 35480B |
| CAPACITORS | | | RESISTORS | | |
| C1 | 470 mmfd. | 38051DL | R1 | 0.47 megohm | 33360EE |
| C2 | 220 mmfd. $\pm 10\%$ | 38000BJ | R2 | 33,000 ohms $\pm 5\%$ | 33373X |
| C3 | 220 mmfd. $\pm 10\%$ | 38000BJ | | | |
| C4 | 0.0039 mfd. $\pm 10\%$ | 38002QW | | | |
| C5 | 0.0022 mfd. $\pm 2\%$ | 38002WA | | | |
| C6 | 470 mmfd. $\pm 2\%$ | 38001VP | | | |

Spare Parts List Continued . .

| Ref. | Description | Part No. | Ref. | Description | Part No. |
|---------------|---|----------|----------------------|-----------------------|----------|
| R3 | 22,000 ohms \pm 5% | 33373W | TRANSFORMERS | | |
| R4 | 1,500 ohms | 33360DP | T1 | Output Transformer | 35527H |
| R5 | 47,000 ohms | 33360DY | T2 | Mains Transformer | 44430F |
| R6 | 22,000 ohms \pm 5% | 33373W | IFT1 | 1st. I.F. Transformer | 46551H |
| R7 | 22,000 ohms \pm 5% | 33360W | IFT2 | 2nd. I.F. Transformer | 46551E |
| R8 | 47,000 ohms | 33360DY | MISCELLANEOUS | | |
| R9 | 4.7 megohm | 33360EL | F1 | 1.0 amp. | 38825D |
| R10 | 0.47 megohm | 33360EE | F2 | 1.0 amp. | 38825D |
| R11 | 0.1 megohm | 33360EA | S1 | Waveband Switch | 47046A |
| R12 | 1 megohm | 33360EG | S2 | Tone Control Switch | 44095B |
| R13 | 2,200 ohms | 33379Q | S3 | Radio-Gram Switch | 32498A |
| R14 | 0.33 megohm | 33360ED | S4 | Mains ON/OFF Switch | See VR1 |
| R15 | 33,000 ohms | 33360DX | LS1 | Loudspeaker | 46570C |
| R16 | 47,000 ohms | 33360DY | LP1-4 | Four Lamps 6.8V 0.5A | 46938A |
| R17 | 680 ohms \pm 5% 4W. | 37871M | | | |
| R18 | 100 ohms \pm 5% | 33334G | | | |
| R19 | 22 ohms | 33363DC | | | |
| R20 | 750 ohms \pm 5% 4W. | 37871FG | | | |
| VR1 | .5 megohm Volume Control | 37944FW | | | |
| VALVES | | | | | |
| V1 | X78 Frequency Changer | | | | |
| V2 | W77 I.F. Amplifier | | | | |
| V3 | DH77 Detector A.G.C. and A.F. Amplifier | | | | |
| V4 | KT61 Output | | | | |
| V5 | U10 Rectifier | | | | |

SPARE PARTS LIST

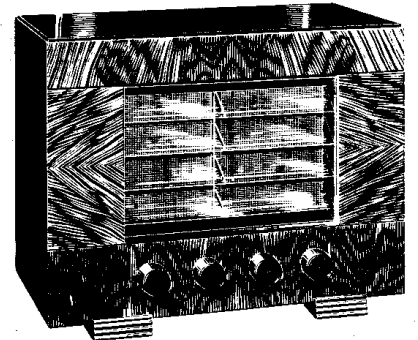
* MODEL 1121 *

"HIS MASTER'S VOICE" Model 1121

5-VALVE SUPERHET TABLE RECEIVER
FOR A.C. MAINS



The Hallmark of Quality



| PART NO. | DESCRIPTION OF PART. | NO. PER FIN- INST. ISH | PART NO. | DESCRIPTION OF PART. | NO. PER FIN- INST. ISH |
|-------------------------------------|---------------------------------|---------------------------|--------------------|------------------------------|-----------------------------|
| INSTRUCTIONS | | | CONTROLS | | |
| 45280 | Instruction Card | 1 - | 40171P | Knob "TUNING" | 1 - |
| 45281 | Cabinet Label | 1 - | 40171AE | Knob "VOLUME" | 1 - |
| 42963 | Transit Label | 1 - | 40171AD | Knob "TONE" | 1 - |
| | | | 40171BA | Knob "WAVEBAND" | 1 - |
| | | | 40172K | Knob "RADIO (GRAM)" | 1 - |
| | | | 11805 | P.K. Screw securing knobs | 5 - |
| CABINET PARTS & FITTINGS | | | LOUDSPEAKER | | |
| 413401 | Cabinet complete | 1 Pol | 465700 | Loudspeaker complete | 1 - |
| 413418B | Baffle board (silked) | 1 - | 46575 | Dust cover for magnet | 1 - |
| 23202 | Screws) securing baffle | 5 689 | 200025H | Screw) securing | 4 676 |
| 22511 | Washers) to cabinet | 5 689 | 201302 | Washer) loudspeaker | 4 689 |
| 6104x8801 | L.S. silk only (in bulk) | 15" x 9 1/2" | | | |
| 413417 | Bottom Panel | 1 - | | | |
| 26519 | Bottom panel fixing plates | 3 689 | | | |
| 8602 | Screws securing plates | 6 - | | | |
| 31573 | Cabinet back brackets | 2 689 | | | |
| 9545 | Screws securing brackets | 4 - | | | |
| 413422 | Foot (front) | 2 - | | | |
| 413423 | Foot (back) | 2 - | | | |
| 15830 | Screws securing feet to cabinet | 4 - | | | |
| 8195 | Rubber foot | 4 - | | | |
| 1950 | Transfer - Trade Mark | 1 - | | | |
| 47047A | Cabinet back and strap assy. | 1 - | | | |
| 20218 | Strap only | 2 - | | | |
| 9545 | Woodscrew) securing straps | 2 689 | | | |
| 4396 | Washer) to cabinet | 2 689 | | | |
| 19896 | Screw) securing cabinet | 2 676 | | | |
| 19895 | Washer) back to brackets | 2 676 | | | |
| 46934 | Scale frame moulding (top) | 1 - | | | |
| 46935 | Scale frame moulding (bottom) | 1 - | | | |
| 46937 | Scale frame moulding (R.H.) | 1 - | | | |
| 46936 | Scale frame moulding (L.H.) | 1 - | | | |
| 200020K | Screw) securing R and L.H. | 4 689 | | | |
| 201302 | Washer) mouldings to | 4 689 | | | |
| 201802 | S.P.Washer) top and bottom. | 4 - | | | |
| 200020N | Screw) securing scale | 4 689 | | | |
| 14997 | Washer) frame mouldings | 4 689 | | | |
| 201502 | Spring washer) to baffle board. | 4 689 | | | |
| | | | RADIO UNIT | | |
| | | | 46930N | Radio unit complete | 1 - |
| | | | 200025N | Screw) securing | 4 689 |
| | | | 201502 | Spring Washer) radio | 4 689 |
| | | | 28769 | Plate) unit | 4 689 |
| | | | 200025S | Screw) for | 4 489/843 |
| | | | | | Loc |
| | | | 201502 | Spring washer) TRANSIT | 4 689 |
| | | | 28769 | Plate) ONLY | 4 689 |
| | | | 43803A | Chassis fixing plate | 2 689 |
| | | | 37137 | Rubber bush) securing plate | 4 - |
| | | | 15725 | Washer) to | 4 436 |
| | | | 2856 | Circlip) chassis | 4 689 |
| | | | VALVES | | |
| | | | V1 | X78 | Frequency changer |
| | | | V2 | W77 | I.F. Amplifier |
| | | | V3 | DH77 | Detector A.G.C. & A.F. Amp. |
| | | | V4 | KT61 | Output |
| | | | V5 | UL0 | Rectifier |

| PART NO. | DESCRIPTION OF PART. | NO. INST. | PER FIN-ISH | PART NO. | DESCRIPTION OF PART. | NO. INST. | PER FIN-ISH |
|--------------------|---|-----------|-------------|-----------------------|--|-----------|-------------|
| INDUCTANCES | | | | | | | |
| 27389FC | L1 L2 Aerial coil S.W.1. | 1 | - | 38002QW | C4 3,900 mmfd 350V 10% | 1 | - |
| 27389FF | L3 L4 Aerial coil S.W.2. | 1 | - | 38002WA | C5 2,200 mmfd 350V 2% | 1 | - |
| 27389DU | L5 L6 Aerial coil M.W. | 1 | - | 38001VP | C6 470 mmfd 350V 2% | 1 | - |
| 27389DT | L7 L8 Aerial coil L.W. | 1 | - | 38000TJ | C7 150 mmfd 350V 2% | 1 | - |
| 27389FD | L9 L10 Osc.coil S.W.1. | 1 | - | 38004D | C8 33 mmfd 350V 5% | 1 | - |
| 27389FE | L11 L12 Osc.coil S.W.2. | 1 | - | 38004E | C9 47 mmfd 350V 5% | 1 | - |
| 27389BX | L13 L14 osc.coil M.W. | 1 | - | 38000JG | C10 120 mmfd 350V 5% | 1 | - |
| 27389BW | L15 Osc.coil L.W. | 1 | - | 38211DY | C11 0.047 mfd 350V | 1 | - |
| See IFT1 | L16 L17 | | | 38253R | C12 0.015 mfd 350V | 1 | - |
| See IFT2 | L18 L19 | | | 38005EX | C13 | | |
| 32944A | Coil trimmer for L13 L14 | 1 | - | 38210DY | C14 0.047 mfd 150V | 1 | - |
| 32944F | Coil trimmer for L1 - 12 & L15 | 7 | - | 38253R | C15 0.015 mfd 350V | 1 | - |
| 200704 | Nut for trimmers | 8 | - | 38006EX | C16 | | |
| 46551H | IFT1 1st I.F.transformer complete with L16,L17 C13, C16 | 1 | - | 38211DY | C17 0.047 mfd 350V | 1 | - |
| 46551E | IFT2 2nd I.F.transformer complete with L18,L19, C18,C20 | 1 | - | 38006EX | C18 | | |
| 46553 | Dust core for IFT's | 4 | - | 38051DE | C19 47 mmfd 500V | 1 | - |
| 46552A | Can for IFT's | 2 | - | 38006EX | C20 | | |
| 13517 | P.K.Screw securing IFT's | 4 | - | 38050DG | C21 100 mmfd 500V | 1 | - |
| 35527H | T.1. Output transformer | 1 | - | 38211DW | C22 0.022 mfd 350V | 1 | - |
| 10606 | P.K. screw securing T.1. | 2 | - | 38150A | C23 (with C35) 8 mfd electrolytic | 1 | - |
| 44430F | T2 Mains transformer | 1 | - | 38190F | Condenser clip for C23/C35 | 1 | - |
| 46956A | Fuse panel assy. | 1 | - | 10606 | P.K.screw securing clip | 2 | - |
| 10606 | P.K.Screw securing fuse panel. | 2 | - | 200040K | Screw } securing | 1 | 689 |
| 37046D | Voltage adjustment panel | 1 | - | 201804 | S.P.Washer } C23/C35 | 1 | - |
| 8777 | P.K.screw securing panel | 2 | - | 200404 | Nut } in clip | 1 | 689 |
| 11802 | Tag for voltage adjustment | 1 | - | 38050DG | C24 100 mmfd 500V | 1 | - |
| 201304 | Washer | 4 | 689 | 38211DY | C25 0.047 mfd 350V | 1 | - |
| 201804 | S.P. Washer } securing T2 | 4 | - | 38051DL | C26 470 mmfd 500V | 1 | - |
| 200404 | Nut } | 4 | 689 | 38150A | C27 (with C34) 16 mfd electrolytic | 1 | - |
| RESISTORS | | | | | | | |
| 33360EE | R1 0.47 megohms | 1 | - | 38190F | Condenser clip for C27/C34 | 1 | - |
| 33373X | R2 33,000 ohms 5% | 1 | - | 10606 | P.K.screw securing clip | 2 | - |
| 33373W | R3 22,000 ohms 5% | 1 | - | 200040K | Screw } securing | 1 | 689 |
| 33360DP | R4 1,500 ohms | 1 | - | 201804 | S.P.Washer } C27/C34 | 1 | - |
| 33360DY | R5 47,000 ohms | 1 | - | 200404 | Nut } in clip | 1 | 689 |
| 33373W | R6 22,000 ohms 5% | 1 | - | 38001TK | C28 200 mmfd 350V 2% | 1 | - |
| 33360W | R7 22,000 ohms 5% | 1 | - | 38051DF | C29 68 mmfd 500V | 1 | - |
| 33360DY | R8 47,000 ohms | 1 | - | 38050DB | C30 15 mmfd 500V | 1 | - |
| 33360EL | R9 4.7 megohms | 1 | - | 38212DU | C31 0.01 mfd 250V | 1 | - |
| 33360EE | R10 0.47 megohms | 1 | - | 38151F | C32 50 mfd electrolytic 12V | 1 | - |
| 33360EA | R11 0.1 megohms | 1 | - | 38214D | C33 0.003 mfd 1000V | 1 | - |
| 33360EG | R12 1.0 megohms | 1 | - | See C27 | C34 8 mfd electrolytic | 1 | - |
| 33379Q | R13 2,200 ohms 5% | 1 | - | See C23 | C35 16 mfd electrolytic | 1 | - |
| 33360ED | R14 0.33 megohms | 1 | - | 31759A | TC1 TC2 TC3 TC4 four bank trimmer assy.(4 - 30 mmfd) | 1 | - |
| 33360DX | R15 33,000 ohms | 1 | - | 12619 | P.K.screw securing trimmer assy.2 | 1 | - |
| 33360DY | R16 47,000 ohms | 1 | - | 35480B | TC5 Trimmer assy.(3 - 30 mmfd) | 1 | - |
| 37871M | R17 680 ohms 4W 5% | 1 | - | 35480B | TC6 Trimmer assy.(3 - 30 mmfd) | 1 | - |
| 33334G | R18 100 ohms 5% | 1 | - | 35480B | TC7 Trimmer assy.(3 - 30 mmfd) | 1 | - |
| 33363DC | R19 22 ohms | 1 | - | 35480B | TC8 Trimmer assy.(3 - 30 mmfd) | 1 | - |
| 37871FG | R20 750 ohms 4W 5% | 1 | - | 37101C | VC1,VC2 Twin gang condenser | 1 | - |
| 37944FW | VRI & S4 .5 megohms volume control and switch | 1 | - | 46958 | Bush (rubber) | 3 | - |
| 201322 | Washer for VRI | 1 | - | 6250 | Washer } securing | 3 | 689 |
| CAPACITORS | | | | | | | |
| 38051DL | C1 470 mmfd 500V | 1 | - | 2856 | Circlip } VC1 & VC2 | 3 | 689 |
| 38000BJ | C2 220 mmfd 350V 10% | 1 | - | TUNING DETAILS | | | |
| 38000BJ | C3 220 mmfd 350V 10% | 1 | - | 27136D | Tuning drum assy. | 1 | - |
| | | | | 13387 | Screw securing tuning drum to gang | 2 | 689 |
| | | | | 46953 | Calibration pointer | 1 | 689 |
| | | | | 201302 | Washer } securing | 1 | 689 |
| | | | | 201802 | S.P.washer } pointer | 1 | - |
| | | | | 200502 | Nut } to gang | 1 | 689 |
| | | | | 46947A | Tuning spindle | 1 | - |
| | | | | 13592 | Collar | 1 | 689 |

| PART NO. | DESCRIPTION OF PART. | NO. PER FIN- INST. | ISH | PART NO. | DESCRIPTION OF PART. | NO. PER FIN- INST. | ISH |
|------------------|--|-----------------------|-----|-----------|--|-----------------------|-----|
| 13387 | Screw | 2 | 689 | | | | |
| 201520 | Spring washer } collar | 1 | 689 | | | | |
| 6250 | Washer } securing | 1 | 689 | | | | |
| 2856 | Circlip } tuning spindle | 1 | 689 | | | | |
| 37097 | Flywheel | 1 | - | | | | |
| 37099 | Flywheel bracket | 1 | 689 | | | | |
| 200360F | Screw | 4 | 689 | | | | |
| 201806 | S.P.washer } bracket | 4 | - | | | | |
| 29735 | Pulley (large) | 1 | 689 | | | | |
| 4505 | Pulley (small) | 3 | 689 | | | | |
| 2856 | Circlip securing pulleys | 4 | 689 | | | | |
| 48123A | Bracket and pulley assy. | 1 | - | | | | |
| 10606 | P.K.screw securing bracket | 2 | - | | | | |
| 46921K | TUNING SCALE - S.W.1 50 - 187 metres | 1 | - | | | | |
| 46921J | TUNING SCALE - S.W.2 1519 - 50 metres | 1 | - | | | | |
| 46921L | TUNING SCALE - M.W. 187 - 582 metres | 1 | - | | | | |
| 46921M | TUNING SCALE - L.W. 720 - 2000 metres | 1 | - | | | | |
| 46939 | Felt strips for scale fixing | 8 | - | | | | |
| 202040H | Grub screw securing scales | 4 | 689 | | | | |
| 46928B | Tuning pointer, cursor and carriage assy. | 1 | - | | | | |
| 37136 | Cursor clamp | 1 | 696 | | | | |
| 200060 | Screw } securing | 1 | 689 | | | | |
| 11705 | Nut } cursor | 1 | 436 | | | | |
| 46923 | Cursor rod | 1 | 03 | | | | |
| 11996 | Circlip securing rod | 2 | 288 | | | | |
| 6370x0012 | Nylon drive cord (in bulk) | 76" | - | | | | |
| 46954 | Spring for cord drive | 1 | - | | | | |
| 46951A | Lampholder & bracket assy.L.H. | 1 | - | | | | |
| 46951B | Lampholder & bracket assy.R.H. | 1 | - | | | | |
| 8651 | Woodscrew securing bracket assy. | 4 | 689 | | | | |
| 46938A | Scale Lamp | 4 | - | | | | |
| SWITCHES | | | | | | | |
| 47046A | S1 Waveband switch | 1 | - | | | | |
| 12619 | P.K.screw securing switch | 2 | - | | | | |
| 201322 | Washer for S1 fixing | 1 | 689 | | | | |
| 44095B | S2 Tone control switch | 1 | - | | | | |
| 32498A | S3 Radiogram switch | 1 | - | | | | |
| 201822 | S.P.washer for S3 | 1 | - | | | | |
| See VR1 | S4 ON/OFF switch | 1 | - | | | | |
| H.F. UNIT | | | | | | | |
| 43810J | H.F.Unit complete | 1 | - | | | | |
| 12619 | P.K.screw securing H.F.Unit | 4 | - | | | | |
| 37095FS | Tag panel assy.(6 tags) | 1 | - | | | | |
| 211 | P.K.screw securing tag panel | 2 | - | | | | |
| | S1 Waveband switch (see under switches) | | | | | | |
| | | | | | VALVEHOLDERS, PANELS ETC. | | |
| | | | | 41674A | Valveholder (type B7G) for V1 V2 V3 | 3 | - |
| | | | | 59119AB | Rivet securing valve holders to plates | 6 | - |
| | | | | 46949 | Plate for valveholders V2 & V3 | 2 | 689 |
| | | | | 200040G | Screw | 4 | 689 |
| | | | | 201804 | S.P.Washer } securing plates. | 4 | - |
| | | | | 200404 | Nut | 4 | 689 |
| | | | | 46952 | Plate for valveholder V1 | 1 | 689 |
| | | | | 41648 | Rubber bush (mounting) | 2 | - |
| | | | | 41649 | Screw | 2 | 689 |
| | | | | 201306 | Washer } securing | 2 | 689 |
| | | | | 201906 | S.P.Washer } plate | 2 | - |
| | | | | 200505 | Nut | 2 | 689 |
| | | | | 40486A | Valveholder (octal) for V4 | 1 | - |
| | | | | 200340G | Screw | 2 | 689 |
| | | | | 201804 | S.P.Washer } securing | 2 | - |
| | | | | 200404 | Nut } valveholder | 2 | 689 |
| | | | | 34417A | Valveholder (4 pin) for V5 | 1 | - |
| | | | | 10606 | P.K. screw securing valveholder | 2 | - |
| | | | | 44577A | Valve screen for V1 V2 V3 | 3 | - |
| | | | | 44578 | Springs for screens | 3 | - |
| | | | | 32861A | Valve retainer for V4 | 1 | - |
| | | | | 46960A | Valve retainer for V5 | 1 | - |
| | | | | 31079 | Spring for retainers | 4 | - |
| | | | | 20314A | Panel - aerial/earth | 1 | - |
| | | | | 20202A | Panel - P.U. | 1 | - |
| | | | | 11531C | Panel - Ext/Int L.S. | 1 | - |
| | | | | 59119CB | Rivets securing panels | 6 | - |
| | | | | 37095AA | Tag panel (3 tags) for R17 R20 | 2 | - |
| | | | | 37104GA | Tag strip | 1 | - |
| | | | | 12619 | P.K.screw securing panel and strip | 4 | - |
| | | | | 31605A | Tag panel (3 tags) for T1 | 1 | - |
| | | | | 36889A | Insulated tag for T1 | 1 | - |
| | | | | 36489 | Tag for C23/C35 | 1 | 104 |
| | | | | 15140 | Tag | 4 | 104 |
| | | | | 40850 | Cleat securing mainslead | 1 | - |
| | | | | 201304 | Washer } securing | 1 | 689 |
| | | | | 10606 | P.K.screw } cleat | 1 | - |
| | | | | 16578 | Cleat for speaker & lampl leads | 3 | 696 |
| | | | | 8692 | Woodscrew securing cleats | 3 | 689 |
| | | | | 3475G | Plug for Ext/Int.L.S. lead | 1 | - |
| | | | | 16289J | Plug (yellow) | 1 | - |
| | | | | W B | Plug (black) | 1 | - |
| | | | | 32487 | Rubber grommet (small) | 2 | - |
| | | | | 16757 | Rubber grommet (large) | 3 | - |
| | | | | 46943A | Lamp lead assy. | 1 | - |
| | | | | 28839F | Loudspeaker lead | 1 | - |
| | | | | 20852B | Mains lead | 1 | - |
| | | | | 4201x2300 | Mains lead (in bulk) | 6 ft. | - |
| | | | | 38825D | Fuse 1 amp | 2 | - |
| | | | | 18889A | Carton for mains lead etc. | 1 | - |
| | | | | 20938 | Clip } for mains | 1 | 689 |
| | | | | 29296 | Rubber band } lead carton | 1 | - |