# MARCONIPHONE

## SERVICE MANUAL

PRIVATE AND CONFIDENTIAL TO THE TRADE ONLY

## 6 VALVE ALL-WAVE SUPERHET FOR A.C. MAINS MODELS 557 & 567




MAR. 1937

1937 SERIES
NUMBER TEN
PART NO. 26265

# MODELS 557 AND 567
# TECHNICAL SPECIFICATION

## VOLTAGE RANGE

195–255 volts A.C.
50–100 cycles. (Model 557.)
50–60 cycles. (Model 567.)

## POWER CONSUMPTION

Approximately 85 watts (Radio 70 watts, pilot lamp 15 watts).
Gramophone, 100 watts. (Model 567.)

## FUSES

It is recommended that this instrument is connected only to supply points protected with 2-amp. fuses.

## SPEECH OUTPUT

Approximately 3 watts undistorted.
Anode dissipation of N42 output valve 10 watts.

## WAVELENGTH RANGE

| | | | |
|---|---|---|---|
| Short Waves ... ... ... ... ... | 16·5 | to | 52 metres. |
| Medium Waves ... ... ... ... ... | 195 | to | 580 metres. |
| Long Waves ... ... ... ... ... | 725 | to | 2,000 metres. |

## DIMENSIONS

Model 557. 19½ inches high, 16¾ inches wide, 11 inches deep.
Model 567. 40¼ ,, 23 ,, 15 ,,

## WEIGHT

Model 557. 39½ lb. net. 48 lb. gross.
Model 567. 89 lb. net, 151 lb. gross.

## VALVES

| | |
|---|---|
| Marconi W42 ... ... ... ... ... | H.F. Amplifier. |
| ,, X42 ... ... ... ... ... | Frequency Changer. |
| ,, W42 ... ... ... ... ... | I.F. Amplifier. |
| ,, DH42 ... ... ... ... ... | Detector and A.V.C. diodes, and L.F. Amplifier. |
| ,, N42 ... ... ... ... ... | Output Valve. |
| ,, U12 ... ... ... ... ... | H.T. Rectifier. |

## LOUDSPEAKER

No. 24460N.
The field winding of this loudspeaker is utilized as a smoothing choke in the negative H.T. lead. A hum-bucking coil is incorporated, but the output transformer is on the radio chassis.

| | |
|---|---|
| D.C. resistance of speech coil ... ... | 4 ohms. |
| Impedance at 800 cycles ... ... ... | 5 ohms. |
| D.C. resistance of field coil ... ... | 1,600 ohms. |

## PICK-UP. (Model 567.)

No. 17670V.
D.C. resistance, 850 ohms.
A 7,500 ohm resistance is connected across the pick-up (at the pick-up plugs) for matching purposes.

**MOTOR.** (Model 567.)

No. 22900A.

This squirrel-cage induction type motor is connected to the 195-223 volt tapping on the mains transformer. This ensures a consistent voltage across the motor, no other adjustment being necessary. For further service particulars see page 6.

**AUTO BRAKE.** (Model 567.)

No. 230E.

Standard friction feed type. For full service particulars, see Models 219, 239 Service Manual.

**CONNECTING A PICK-UP.** (Model 557.)

A high resistance pick-up may be permanently connected to the sockets provided. Connect leads to top two sockets and screening to bottom socket. The Marconiphone No. 25 Pick-up is recommended. A 7,500 ohm resistance should be wired across the pick-up for perfect matching. The wave-band switch is provided with a " Gram " position and the radio volume control is also operative on " Gramophone."

**EXTRA LOUDSPEAKERS.**

The speech coil impedance of extra loudspeakers should be not less than 5 ohms. Two such speakers as the Marconiphone Model 144 can be connected without greatly reducing the volume of the built-in speaker on these models.

Extra speakers should be wired to tags 2 and 3 (L.S. Panel) on the Table Model (557).

## CIRCUIT DESCRIPTION

### H.F. Amplifier

The aerial is connected to the H.F. pentode (W42) via the aerial series condenser C1 and the tuned circuits L1, L2 and L3. The H.F. Amplifier valve is A.V.C. controlled.

### Frequency Changer

The heptode frequency changer (X42) is coupled to the preceding valve by a tuned anode capacity coupled circuit, C25 constituting the coupling condenser. The oscillator frequency is obtained by coupled coils L9, L12, L10, L13 and L11, L14 (those not in use being shorted out by wave-change switch S1) in conjunction with the oscillator section of the X42. Frequency stability is ensured by L8, and the mixer section is A.V.C. controlled.

### I.F. Amplifier

An iron cored I.F. transformer couples the frequency changer to the I.F. amplifier (W42) H.F. pentode, which is A.V.C. controlled. The intermediate frequency is 465 kc.

### Second Detector.

A second iron-cored I.F. transformer couples the I.F. amplifier to the double-diode-triode (DH42) second detector, the signal diode being fed from a tapping on the secondary. The A.V.C. diode is fed direct from the anode of the I.F. valve via the condenser C11 and the A.V.C. voltage set up across R14, R15, is passed to the three controlled valves, R13, C18, serving as an L.F. smoothing circuit. The initial bias of V1, V2 and V3 is tapped off a potentiometer (R20, R21, R22) across the loudspeaker field, whilst A.V.C. delay voltage is developed across the resistances R 12 and R 20.

### L.F. Amplifier

The triode portion of V4 serves as L.F. amplifier and is fed from the diode through the volume control VR1. The condenser C33 is included on short waves only, to limit the bass response and thus reduce noise level.

### Output Stage

The L.F. amplifier is resistance capacity coupled to the output valve (N42). The anode circuit of this valve incorporates a 3-point tone control circuit connected in parallel with the primary of the output transformer, and a permanent tone correcting condenser, C29, connected between anode and earth.

### H.T. Rectifier

H,T. current for all the valves is supplied by the full-wave rectifier U12, while smoothing is by means of the loudspeaker field in the negative H.T. lead and the electrolytic condensers C23 and C24.

## DISMANTLING

### Model 557

#### REMOVAL OF CHASSIS

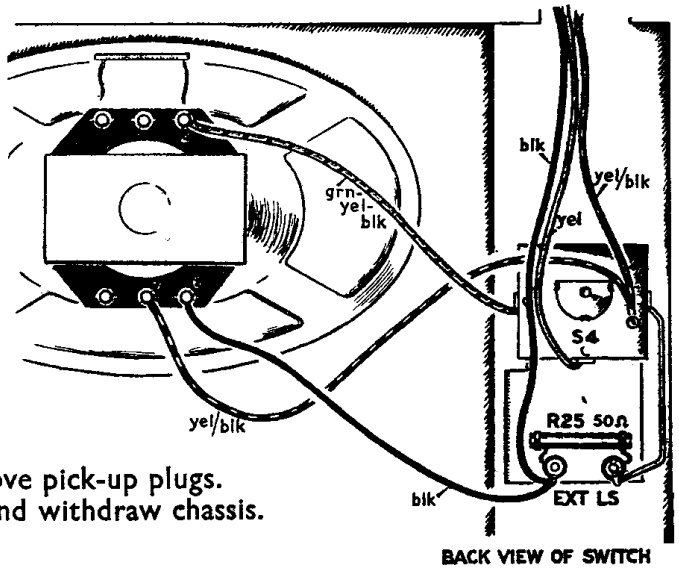
1. Remove back and knobs.
2. Disconnect leads from tags 2, 6 and 7 on loudspeaker panel and remove fixing cleat.
3. Remove four fixing bolts from underside of cabinet. The chassis may now be withdrawn. (*Note.*— If uncleated the loudspeaker leads are sufficiently long to enable the chassis to be withdrawn for inspection without disconnecting the loudspeaker.

#### REMOVAL OF LOUDSPEAKER

1. Disconnect leads to speaker panel.
2. Remove four securing screws and withdraw speaker.

#### CONNECTIONS TO L.S. PANEL

| Tag No. | Wire colour. |
|---|---|
| 2 ... ... ... ... ... | Yellow. |
| 6 ... ... ... ... ... | Black. |
| 7 ... ... ... ... ... | Yellow/Black. |



BACK VIEW OF SWITCH

### Model 567

#### REMOVAL OF CHASSIS.

1. Remove backs and knobs.
2. Disconnect leads from L.S. switch, and motor leads ; remove pick-up plugs.
3. Remove four fixing bolts from underside of cabinet shelf and withdraw chassis.

#### REMOVAL OF LOUDSPEAKER.

1. Disconnect leads to speaker panel.
2. Remove four securing screws and withdraw speaker.

#### CONNEXIONS TO LOUDSPEAKER.

For connexions to loudspeaker and L.S. switch, see diagram above.

## PRELIMINARY TESTS

The following tests, if systematically carried out, will help in locating a fault in the receiver :—

| | |
|---|---|
| Tag 5 to tag 6, L.S. Panel 110 volts, 1,600 ohms. | If valves and pilot lamp light but signals are unobtainable, check the voltage across the L.S. field. Absence of voltage may be due to faulty V6, T2 (windings 5, 6, 7 or 10, 11), open circuit in L.S. field winding or connecting leads, or in the main H.T. supply lead. |

| | |
|---|---|
| L.F. Test ... ... ... ... | Results on gramophone but not on radio indicate that the L.F. side of the receiver (V4, V5, V6) is O.K. and that the fault lies in the H.F. stages (V1, V2, V3 or possibly V4). If no results are obtained from the L.F. test contact a small battery (or an ohm meter) across the speech coil of the loudspeaker (terminals 2 and 5). A definite " click " indicates that the speech coil is continuous. |
| Gramophone reproduction O.K. or a loud hum when top pick-up socket is touched, receiver set to " Gram," volume fully up and earth disconnected. | A further L.F. check may be obtained by touching the top terminal of V4 with the finger. If a hum is obtained on this test but not when the pick-up socket is touched the volume control VR1 or the wavechange switch contacts 7, 11, may be faulty. |
| H.F. Test ... ... ... ... | These two tests successively eliminate the aerial coupling condenser C1, and the whole of the H.F. stage (V1) medium wave results should be obtained in both test conditions, but with whistles and loss of selectivity. |
| Eliminate the early stages by contacting the aerial lead on to fixed vanes VC1, then VC2. | |
| Crackles and noise. Faulty valves or bad contacts or connexions. | Unless the screen round the pilot lamp is in position and securely fixed a crackling noise will be produced if the pilot lamp is violently vibrated. This does not indicate a faulty lamp, but is due to radiation from the lamp filament. For other forms of noise check all valves for freedom from inter-electrode contacts. Examine wiring carefully and see that valve legs are clean. If man-made static is causing the interference recommend the fitting of a Marconiphone Static-free All-wave Aerial. |

## H.F. TESTS AND ADJUSTMENTS

Any work on the oscillator tuned circuits must be followed by a complete re-alignment in the order given below. If the aerial or anode coils only have been disturbed it will suffice to re-gang these circuits only. If the I.F. circuits are disturbed the entire alignment (I.F., S.W., M.W., L.W.) must be carried out.

The following apparatus is required for ganging : An oscillator (or oscillators) tuning from 18 metres to 1,900, suitably screened and with an attenuator. An output, meter such as that supplied by E.M.I. Service, or an 0 to 1 A.C. voltmeter can be used for this purpose, and a trimming screwdriver with a minimum of metal in the blade.

In carrying out the following operations, it is important that the input to the receiver is kept low, and progressively reduced as the circuits are brought into line, so that the reading on the output meter does not exceed approximately 50 mW. or 0·5 volt with volume control fully up.

For all ganging operations the output meter should be connected between the anode of V5(N42) and chassis. The A.C. voltmeter must be connected to the L.S. speech coil (tags 2 and 5).

### I.F. GANGING

Set receiver to L.W., gang condenser to maximum capacity, volume control to maximum and tone control fully anti-clockwise. Tune oscillator exactly to 465 kc., and connect leads to top grid of V2 via a 0·1 mfd. condenser (leaving the receiver grid connection made) and to chassis.

1. Switch on receiver and oscillator.
2. Adjust TC12, TC13, TC14 and TC15, in that order, for maximum output.
3. Re-check the adjustment of the above trimmers in the same order.

### SHORT WAVES

1. Set receiver to S.W., volume and tone control fully clockwise, tune oscillator to 18 metres and couple to aerial and earth sockets.
2. Tune in receiver to signal and adjust TC7, TC1, for maximum output, at the same time " rocking " the gang condenser.

3. Set oscillator to 50 metres and tune in on receiver.
4. Adjust the inductance of L1 if necessary (see footnote).
5. Return to 18 metres and finally very carefully adjust TC1, " rocking " the gang condenser.

NOTE.—If the coil assembly L1, L2, L3, has been replaced it will be necessary to adjust the inductance of L1, otherwise it is unnecessary. To make this adjustment proceed as follows :—

1. First make the adjustments given in operations 1, 2 and 3 above.
2. A loop of wire will be found running across the coil former, and this loop must be bent up or down until maximum output is obtained. It may be necessary to remove the coil can in order to identify the loop, but the final adjustment must be made with the can in position and properly secured. A strip of insulating material with a suitable " nick " will facilitate this adjustment.
3. Complete ganging as detailed in " 5 " above.

### MEDIUM WAVES

The oscillator should be connected to the aerial and earth sockets.

1. Set receiver to M.W., gang condenser to minimum, and oscillator to 195 metres.
2. Trim TC8 for maximum output.
3. Set oscillator to 225 metres and tune in on receiver.
4. Adjust TC2 and TC5 for maximum output.
5. Set oscillator to 530 metres and tune-in signal on receiver.
6. Adjust TC10 for maximum, at the same time " rocking " the gang condenser.
7. Return to 195 metres and check setting of TC8.

### LONG WAVES

1. Set receiver to L.W., gang condenser to minimum and tune oscillator to 725 metres.
2. Adjust TC9 for maximum output.
3. Set oscillator and tune-in receiver on 800 metres.
4. Adjust TC3 and TC6 for maximum output.
5. Set oscillator and receiver to 1,900 metres and adjust TC11 for maximum at the same time " rocking " the gang condenser.
6. Check setting of TC9 at 725 metres.
7. Return to medium waves and go through entire M.W. and L.W. alignment again.

### CHECKING CALIBRATION

After ganging it is recommended to check the calibration of the wave-scale on all ranges, and set the pointer to give the best possible compromise.

## MOTOR

Resistance, 1,000 ohms.

After approximately every 1,000 hours' use the motor should be lubricated with a fine machine oil. There are four lubrication points and only a few drips of oil are necessary in each.

The lubricating points are :—

Two holes marked " Oil " on the motor top plate (accessible through the motor board when the turntable is removed).

Round the top bearing of the turntable spindle.

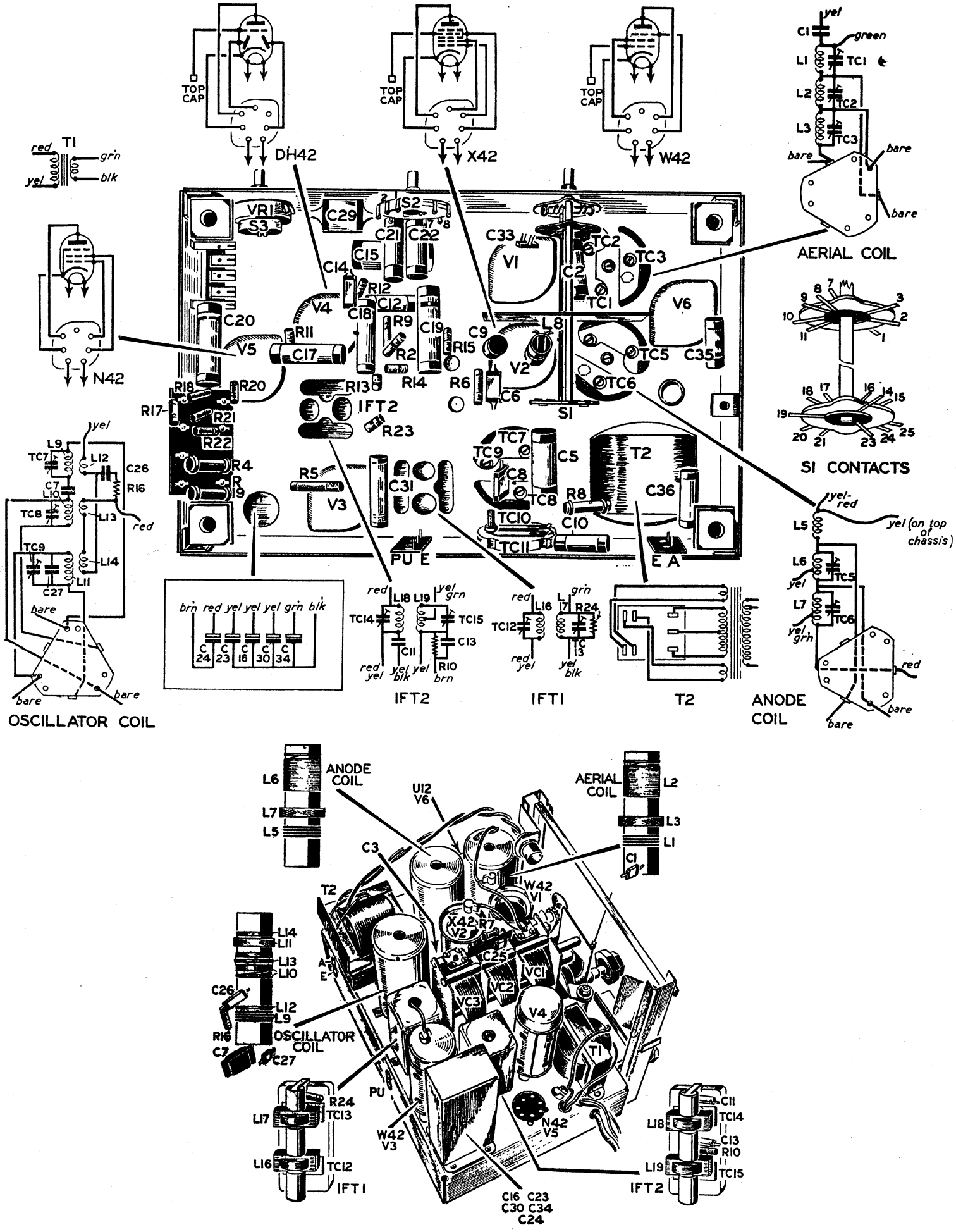
The hole in the knurled brass bearing at the end of the motor.

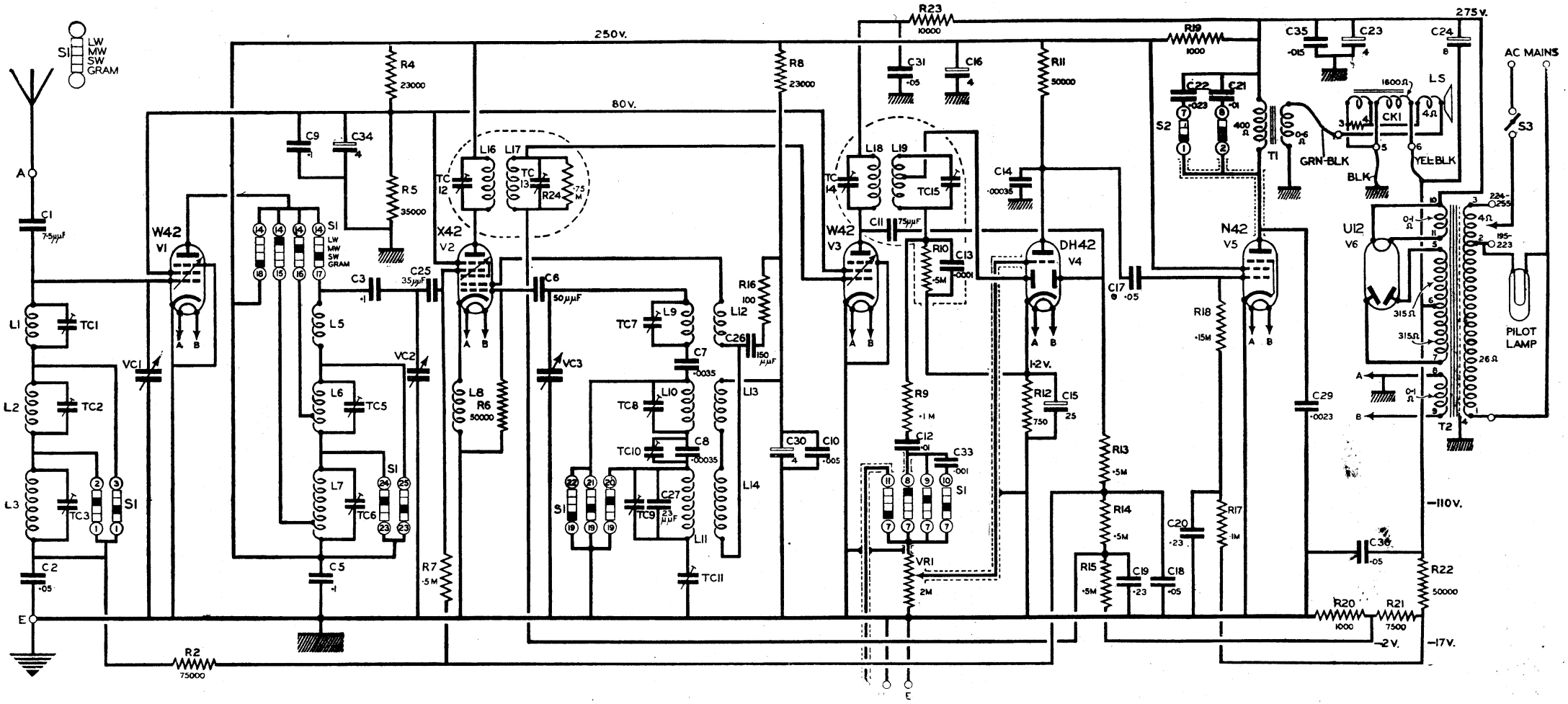
To remove the coil unit for replacement first remove four screws securing end cover, then remove two screws fixing coil unit laminations. When replacing end cover be sure to get the key-shaped bearing protuberance pointing towards the bottom of the motor. The rotor may be removed by first removing end plate and motor top plate, slackening governor grub screws and withdrawing. The removal of the motor top plate also enables the turntable spindle to be removed if required.

# CONTINUITY CHECKS

Resistance values ± 20 per cent. Remove valves and pilot lamps.

| Components. | Measured. | Switch. | Resistance. |
|---|---|---|---|
| L1, L2, L3 ... ... ... | Grid (top terminal) V1 and tag 1 S1 ... ... | SW<br>MW<br>LW | (L1), 0·1 ohm.<br>(L1 + L2), 6 ohms.<br>(L1, L2, L3), 20 ohms. |
| L5 ... ... ... ... | Anode V1 and tag 23 S1 ... ... ... ... | SW | 0·1 ohm. |
| L6 ... ... ... ... | Tag 25 and tag 23 S1 ... ... ... ... ... | MW | 5·5 ohms. |
| L7 ... ... ... ... | Tag 23 and tag 24 S1 ... ... ... ... ... | LW | 14·0 ohms. |
| L8 ... ... ... ... | Cathode V1 (W42) and chassis ... ... ... | — | 0·1 ohm. |
| L9 ... ... ... ... | Across TC7 ... ... ... ... ... ... | — | 0·1 ohm. |
| L10 ... ... ... ... | Across TC8 ... ... ... ... ... ... | — | 5·5 ohms. |
| L11 ... ... ... ... | Across TC9 ... ... ... ... ... ... | — | 4·2 ohms. |
| L12, L13, L14 ... ... | Osc. Anode V2 (X42) and R8 ... ... ... | | 6·0 ohms.<br>L12, 1·0 ohm.<br>L13, 2·0 ohms.<br>L14, 3·0 ohms. |
| L16 ... ... ... ... | Anode V2 (X42) and screen V5 (N42) ... ... | — | 5 ohms. |
| L17, R24 ... ... ... | Grid V3 (W42) and yellow/black lead from IFT 1... | — | 5 ohms. |
| L18 ... ... ... ... | Anode V3 (W42) and red lead from IFT 2... ... | — | 5 ohms. |
| L19, R10 ... ... ... | Diode and cathode V4 (DH42) ... ... ... | — | 0·5 megohm (L19, 5 ohms). |
| R2, R7, L1 ... ... ... | Grid V1 (W42) and grid V2 (X42) ... ... ... | SW | 0·575 megohm. |
| R4, R5 ... ... ... | Screen V5 (N42) and chassis... ... ... ... | — | 78,000 ohms. |
| R13, R14, R15, R20 ... | Diode V4 (DH42) and chassis ... ... ... | — | 1·5 megohms. |
| R18, R17, R22 ... ... | Grid V5 (N42) and tag L.S. panel ... ... ... | — | 0·3 megohm. |
| R21 ... ... ... ... | Across ends ... ... ... ... ... ... | — | 7,500 ohms. |
| VR1 ... ... ... | Grid V4 (DH42) and chassis ... ... ... | — | 5 ohms to 2 megohms. |
| CK1 (L.S. field) ... ... | Tags 5 and 6, L.S. panel ... ... ... ... | — | 1,600 ohms. |
| L.S. speech coil ... ... | Across ends (disconnect yellow lead) ... ... | — | 4·0 ohms. |
| T1 Primary ... ...<br>Secondary ... ... | Red and yellow leads from trans. ... ... ...<br>Green lead from T1 and chassis (disconnect speech coil) | —<br>— | 400 ohm.<br>0·6 ohm. |
| T2. Primary ... ...<br>Secondary ... ... | Terminals 195–224 volts and 224–255 volts... ...<br>Terminals M and 195–224 volts ... ... ...<br>Tags 5–6 ... ... ... ... ... ...<br>Tags 6–7 ... ... ... ... ... ...<br>Tags 8–9 ... ... ... ... ... ...<br>Tags 10–11 ... ... ... ... ... ... | —<br>—<br>—<br>—<br>—<br>— | 4·0 ohms.<br>26 ohms.<br>315 ohms.<br>315 ohms.<br>0·1 ohm.<br>0·1 ohm. |


TOP CAP
DH42
X42
W42
T1
red
yel
grn
blk
N42
VR1
S3
S2
C29
C21
C22
C15
C14
R12
C12
C18
R9
C19
C20
V4
R11
C17
V5
R18
R20
R17
R21
R22
R4
R19
R5
V3
C31
R13
IFT2
R23
R14
R2
R15
R6
C6
C9
L8
V2
C33
V1
C2
TC2
TC3
TC1
V6
TC5
C35
TC6
S1
TC7
TC9
C8
TC8
TC10
TC11
C5
T2
R8
C10
C36
PU
E
A
AERIAL COIL
C1
green
L1
TC1
L2
TC2
L3
TC3
bare
SI CONTACTS
yel-red
yel (on top of chassis)
L5
L6
TC5
L7
TC6
OSCILLATOR COIL
L9
TC7
L12
C26
C7
L10
R16
TC8
L13
TC9
L14
C27
L11
brn red yel yel yel grn blk
C 24
C 23
C 16
C 30
C 34
IFT2
L18
L19
TC14
TC15
C11
R10
C13
brn
IFT1
L16
TC12
L17
R24
T2
ANODE COIL
U12
V6
C3
W42
V1
X42
V2
R7
C25
VC1
VC2
VC3
V4
T1
N42
V5
W42
V3
PU
C16 C23
C30 C34
C24
AERIAL COIL
L2
L3
L1
C1
OSCILLATOR COIL
L14
L11
L13
L10
C26
L12
L9
R16
C7
C27
IFT1
R24
TC13
L17
L16
TC12
IFT2
C11
TC14
L18
C13
R10
L19
TC15


S1
LW
MW
SW
GRAM
A
E
C1
7·5μμF
L1
TC1
L2
TC2
L3
TC3
C2
·05
R2
75000
W42
V1
VC1
C9
·1
C34
·1
R4
23000
R5
35000
C3
·1
C25
35μμF
C5
·1
L5
L6
TC5
L7
TC6
VC2
R7
·5M
X42
V2
L16
L17
TC12
TC13
R24
·75 M
L8
R6
50000
C6
50μμF
VC3
250v.
80v.
TC7
L9
C7
·0035
TC8
L10
TC10
C8
·00035
C27
·23 μF
TC9
L11
TC11
L12
C26
150 μμF
L13
L14
R16
100
R8
23000
C30
·4
C10
·005
R23
10000
C31
·05
C16
·4
W42
V3
L18
L19
TC14
TC15
C11
75μμF
R10
·5M
C13
·0001
R9
·1 M
C12
·01
C33
·001
VR1
2M
R11
50000
C14
·00035
DH42
V4
1·2v.
R12
750
C15
25
C17
·05
R13
·5M
R14
·5M
R15
·5M
C19
·23
C18
·05
C20
·23
R18
·15M
R17
1M
N42
V5
R19
1000
C22
·023
C21
·01
400 Ω
T1
C35
·015
C23
·4
C24
·8
275v.
S2
S3
AC MAINS
1600Ω
LS
CK1
4Ω
0·6 Ω
GRN-BLK
BLK
YEL-BLK
U12
V6
0·1 Ω
315Ω
315Ω
26Ω
224-255
195-223
PILOT LAMP
T2
C29
·0023
C36
·05
R22
50000
R20
1000
R21
7500
-110v.
-17v.
-2 v.

# VALVE TABLE

Values given are ± 20 per cent. Readings taken on 220 volts mains.
Receiver tuned to point of no reception unless otherwise stated.

| Valves. | V1 (W42) | V2 (X42) | | V3 (W42) | V4 (DH42) | V5 (N42) | V6 (U12) |
|---|---|---|---|---|---|---|---|
| Anode-frame, volts ... | 250 | Mixer 245 | Osc.* 150 (110) S.W. Gram. } 105 | 210 | 135 | 260 | — |
| Screen 'frame, volts ... | 80 | 80 | | 80 | — | 250 | — |
| Anode feed, mA ... ... | 4·6* (1·5) | Mixer 2·7* (1·5) | Osc. 3·8* mA | 5·2* | 1·5 | 35·0 | — |
| Screen feed, mA ... ... | 1·4* (0·4) | 2·6* (3·8) | | 1·4* | — | 5·2 | — |
| Bias, volts ... ... ... | 2 | 2 | | 2 | 1·2 | 17 | 385 volts |
| Measured ... ... ... | Junction R20, R21 and chassis | | | | Cathode to chassis | Junction R21, R22, and chassis | Cathode to tag 7 L.S. panel |

Values in brackets are those obtained on a strong local station.

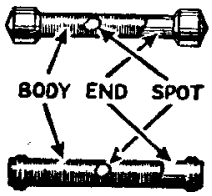
* These values will vary when a strong signal is tuned in—bias values and anode and screen currents will reduce, Osc. anode current increases.

Total H.T. current measured at tag 7 L.S. panel, 65 mA. Voltage across L.S. field measured from tag 7 L.S. panel to chassis, 110 volts.

Current through screen potentiometer (R4, R5) (less screen currents) = 2·3 mA.

## RESISTANCE COLOUR CODE

| BODY AND END Colours. (1st and 2nd figures.) | SPOT Colours. (Additional 0's.) |
|---|---|
| 0 Black. | ·0 Black. |
| 1 Brown. | 0· Brown. |
| 2 Red. | 00· Red. |
| 3 Orange. | ,000· Orange. |
| 4 Yellow. | 0,000· Yellow. |
| 5 Green. | 00,000· Green. |
| 6 Blue. | |
| 7 Violet. | |
| 8 Grey. | |
| 9 White. | |




## WIRE COLOUR CODE

| | |
|---|---|
| H.T. positive (+) ... ... ... ... | Red. |
| Anodes of valves when not direct to H.T. + ... ... ... ... ... | Red/Yellow. |
| Screening grids when not direct to H.T. + ... ... ... ... ... | Red/Black. |
| Grid circuits ... ... ... ... | Green. |
| Mains ... ... ... ... ... | Orange. |
| Heaters, filaments and cathodes ... ... | Brown. |
| Earth ... ... ... ... ... | Black. |
| General purpose colour ... ... ... | Yellow. |

Yellow will be used for leads not falling in the general code, and when stocks of any colour are temporarily exhausted in the factory.

# MODEL 557

## SPARE PART LIST

| Part No. | Description. | Parts per Inst. | Finish. | Retail List Price. £ s. d. | Per |
|---|---|---|---|---|---|
| | **Instructions.** | | | | |
| 82011 | Warning and valve position label... | 1 | — | 0 0 6 | Doz. |
| 26109 | Instruction card | 1 | — | 0 0 6 | Each. |
| 26111 | Voltage adjustment label | 1 | — | 0 0 1½ | ,, |
| 26117 | Transit label... | 1 | — | 0 0 1 | ,, |
| 22291 | Station list | 1 | — | 0 0 6 | ,, |
| | **CABINET PARTS AND FITTINGS** | | | | |
| 81969B | **Cabinet** | 1 | Pol | 2 16 6 | Each. |
| 26175A | Rubber foot | 4 | — | 0 0 1 | ,, |
| — | Baffle board, with insert nuts | 1 | Std | 0 3 3 | ,, |
| 14922 | Insert nut, for speaker | 4 | CB | 0 1 4 | Doz. |
| 9547 | Screw, securing baffle | 6 | — | 0 0 2 | ,, |
| 82010 | Silk | 1 | — | 0 1 3 | Each. |
| 24873 | Bracket, for cabinet back | 5 | CdP | 0 0 1 | ,, |
| 8602 | Screw, securing brackets | 10 | — | 0 0 2 | Doz. |
| 26108A | Cabinet back (printed) | 1 | — | 0 1 9 | Each. |
| 19896 | Screw } securing cabinet back | 5 | ParB | 0 0 1 | ,, |
| 19895 | Spring washer } | 5 | ParB | 0 0 4 | Doz. |
| 26105 | Tuning escutcheon | 1 | — | 0 1 0 | Each. |
| 9545 | Screw, securing escutcheon | 4 | BzP | 0 0 3 | Doz. |
| 26128 | Rubber, long | 2 | — | 0 0 4½ | ,, |
| 26129 | Rubber, short | 2 | — | 0 0 2 | ,, |
| 26106 | Window | 1 | — | 0 0 2 | Each, |
| 26107 | Clamp } securing window to escutcheon | 4 | — | 0 0 4½ | Doz. |
| 14791 | Screw } | 4 | BzP | 0 0 4 | ,, |
| 16289B | Plug—black | 3 | — | 0 0 2 | Each. |
| 16289J | Plug—yellow | 2 | — | 0 0 2 | ,, |
| 18889A | Carton for mains lead and plugs | 1 | — | 0 0 1 | ,, |
| 7155 | Cleat, for speaker lead | 1 | WN | 0 0 1 | ,, |
| 8602 | Screw, securing cleat | 1 | WN | 0 0 2 | Doz. |
| 26135A | Lamp | 1 | — | 0 3 0 | Each. |
| | **CONTROLS** | | | | |
| 24371 | Knob—tuning, large | 1 | — | 0 0 7 | Each. |
| 24855A | Knob—"Tuner" | 1 | ChF | 0 0 7 | ,, |
| 11773 | Grub screw, securing "Tuner" knob | 1 | WN | 0 0 5 | Doz. |
| 17054F | Knob—"Volume" | 1 | ChF | 0 0 7 | Each. |
| 17054Q | Knob—"Wave-band" | 1 | ChF | 0 0 7 | ,, |
| 11805 | Screw, P.K., securing "Volume" and "Wave-band" knob | 2 | — | 0 0 6 | Doz. |
| 23115B | Knob—tone | 1 | ChF | 0 0 7 | Each. |
| | **LOUDSPEAKER** | | | | |
| 24460N | **Loudspeaker** | 1 | — | 1 0 0 | Each. |
| 11543Q | CK1—Field coil | 1 | — | 0 5 9 | ,, |
| 12947 | Washer, felt | 1 | — | 0 0 2 | ,, |
| 21456 | Washer | 3 | — | 0 0 4 | Doz. |
| 26307 | Hum coil | 1 | — | 0 0 6 | Each. |
| 21966A | Terminal panel, with six tags | 1 | — | 0 1 0 | ,, |
| 21968 | Top plate | 1 | CdP | 0 1 0 | ,, |
| 21967 | Stud, securing top plate to yoke | 4 | WN | 0 0 1½ | ,, |
| 24460M | Cone chassis, with 2 studs and 4 brackets | 1 | CdP | 0 2 6 | ,, |
| 11627 | Nut, securing cone chassis to studs | 4 | WN | 0 0 6 | Doz. |
| 25224A | Connection panel, with two tags | 1 | — | 0 0 1 | Each. |
| 13810 | Rivet, securing panel to cone chassis | 2 | — | 0 0 3 | Doz. |
| 24461B | Speech coil and cone | 1 | — | 0 3 0 | Each. |

| Part No. | Description. | Parts per Inst. | Finish. | Retail List Price. £ s. d. | Per |
|---|---|---|---|---|---|
| | **LOUDSPEAKER**—*continued.* | | | | |
| 19585 | Card washer } | 2 | — | 0 0 1 | Doz. |
| 25205 | Washer plate } securing spider of cone to studs on cone chassis | 1 | WN | 0 0 1½ | Each. |
| 19687 | Nut } | 2 | AcD | 0 0 2 | Doz. |
| 25203 | Cone mounting ring ... ... ... ... ... ... ... ... | 1 | — | 0 0 2 | Each. |
| 25206 | Cone mounting ring (thin) ... ... ... ... ... ... ... | 1 | — | 0 0 2 | ,, |
| 25204 | Felt strip ... ... ... ... ... ... ... ... ... ... | 1 | — | 0 0 1½ | ,, |
| 25013 | Stop ... ... ... ... ... ... ... ... ... ... | 1 | CB | 0 0 1 | ,, |
| 25022 | Sleeve } securing stop to magnet core ... ... ... ... | 1 | WN | 0 0 6 | Doz. |
| 25023 | Screw } | 1 | HdCB | 0 0 6 | ,, |
| 11213 | Screw } securing loudspeaker ... ... ... ... ... | 4 | ParB | 0 0 2 | ,, |
| 3167 | Washer, S.P. } | 4 | — | 0 0 2 | ,, |
| | **RADIO UNIT** | | | | |
| 26100B | **Radio Unit** ... ... ... ... ... ... ... ... ... | 1 | — | 8 4 9 | Each. |
| 25631 | Bolt } | 4 | WN | 0 0 9 | Doz. |
| 10173 | Spring washer } securing radio unit ... ... ... ... ... | 4 | — | 0 0 2 | ,, |
| 14997 | Washer } | 4 | WN | 0 0 2 | ,, |
| 11205 | Transit screw ... ... ... ... ... ... ... ... ... | 2 | Red Head | 0 0 2 | ,, |
| 10173 | Spring washer ... ... ... ... ... ... ... ... ... | 2 | — | 0 0 2 | ,, |
| 1038 | Washer ... ... ... ... ... ... ... ... ... ... | 2 | WN | 0 0 6 | ,, |
| | **INDUCTANCES** | | | | |
| 23921J | L1—SW Aerial coil ... ... ... ... ... ... ... | 1 | — | 0 2 9 | Each. |
| | L2—MW Aerial coil ... ... ... ... ... ... ... | | | | |
| | L3—LW Aerial coil ... ... ... ... ... ... ... | | | | |
| 23921K | L5—SW Grid coil ... ... ... ... ... ... ... | 1 | — | 0 3 0 | ,, |
| | L6—MW Grid coil ... ... ... ... ... ... ... | | | | |
| | L7—LW Grid coil ... ... ... ... ... ... ... | | | | |
| 24096B | L8—Frequency stabilizing coil ... ... ... ... ... ... ... | 1 | — | 0 0 3 | ,, |
| 23921L | L9—SW Osc. grid coil ... ... ... ... ... ... ... | 1 | — | 0 3 6 | ,, |
| | L10—MW Osc. grid coil ... ... ... ... ... ... ... | | | | |
| | L11—LW Osc. grid coil ... ... ... ... ... ... ... | | | | |
| | L12—SW Osc. anode coil ... ... ... ... ... ... | | | | |
| | L13—MW Osc. anode coil ... ... ... ... ... ... | | | | |
| | L14—LW Osc. anode coil ... ... ... ... ... ... | | | | |
| 24282E | L16—1st I.F. primary ... ... ... ... ... ... ... | 1 | — | 0 3 6 | ,, |
| | L17—1st I.F. secondary ... ... ... ... ... ... ... | | | | |
| 24282H | L18—2nd I.F. primary ... ... ... ... ... ... ... | 1 | — | 0 3 6 | ,, |
| | L18—2nd I.F. secondary ... ... ... ... ... ... ... | | | | |
| 22534 | Clip } | 4 | AcD | 0 0 9 | Doz. |
| 3165 | Washer, S.P. } securing I.F. coils to trimmers ... ... ... | 4 | — | 0 0 2 | ,, |
| 11248 | Screw } | 4 | WN | 0 0 7 | ,, |
| 11543Q | CK1—Field coil, on loudspeaker ... ... ... ... ... ... | 1 | — | 0 5 9 | Each. |
| 24355C | T1—Output transformer ... ... ... ... ... ... ... ... | 1 | — | 0 4 9 | ,, |
| 8777 | Screw, P.K., securing T1 ... ... ... ... ... ... ... ... | 2 | — | 0 0 6 | Doz. |
| 26120A | T2—Mains transformer ... ... ... ... ... ... ... ... | 1 | — | 0 15 0 | Each. |
| 26124B | Terminal panel, with three tags and screws ... ... ... ... | 1 | — | 0 0 4½ | ,, |
| 11228 | Terminal screw ... ... ... ... ... ... ... ... | 3 | WN | 0 0 4 | Doz. |
| 8777 | Screw, P.K., securing terminal panel ... ... ... ... ... ... | 2 | — | 0 0 6 | ,, |
| 11627 | Nut ... } | 3 | WN | 0 0 6 | ,, |
| 3167 | Washer, S.P. } securing T2 ... ... ... ... ... ... | 3 | — | 0 0 2 | ,, |
| 7229 | Tag } | 1 | — | 0 0 4 | ,, |
| 26173 | " Voltage adjustment " tab ... ... ... ... ... ... ... | 1 | — | 0 0 6 | ,, |
| 24282F | I.F.T. 1—1st I.F. transformer, complete with L16, L17, R24, TC12 and TC13 | 1 | — | 0 7 0 | Each. |

## SPARE PART LIST—*continued*

| Part No. | Description. | Parts per Inst. | Finish. | Retail List Price. £ s. d. | Per |
|---|---|---|---|---|---|
| | **INDUCTANCES**—*continued* | | | | |
| 22535E | Screen, with insulating bush ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | Each. |
| 16757 | Insulating bush ... ... ... ... ... ... ... ... | 1 | — | 0 0 1 | ,, |
| 24282J | I F.T. 2—2nd I.F. Transformer, complete with L18, L19, R10, C11, C13, TC14 and TC15 ... ... ... ... ... ... ... ... | 1 | — | 0 8 6 | ,, |
| 22535D | Screen ... ... ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 12619 | Screw, P.K., securing I.F. transformers ... ... ... ... ... ... | 4 | — | 0 0 6 | Doz. |
| | **RESISTANCES** | | | | |
| 24150K | R2 — 75,000 ohms ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | Each. |
| 19105AK | R4 — 23,000 ohms (S.L.) ... ... ... ... ... ... ... ... | 1 | — | 0 2 3 | ,, |
| 17140E | R5 — 35,000 ohms ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 24150J | R6 — 50,000 ohms ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 24150N | R7 —500,000 ohms ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 19104P | R8 — 23,000 ohms ... ... ... ... ... ... ... ... | 1 | — | 0 1 0 | ,, |
| 24150L | R9 —100,000 ohms ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 24150N | R10—500,000 ohms ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 24150J | R11— 50,000 ohms ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 24150AE | R12— 750 ohms ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 24150N | R13—500,000 ohms ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 24150N | R14—500,000 ohms ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 24150N | R15—500,000 ohms ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 24150AA | R16— 100 ohms ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 24150L | R17—100,000 ohms ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 24150AJ | R18—150,000 ohms ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 19105A | R19— 1,000 ohms ... ... ... ... ... ... ... ... | 1 | — | 0 2 0 | ,, |
| 24150BA | R20— 1,000 ohms (S.L.) ... ... ... ... ... ... ... ... | 1 | — | 0 1 0 | ,, |
| 24150BF | R21— 7,500 ohms (S.L.) ... ... ... ... ... ... ... ... | 1 | — | 0 1 0 | ,, |
| 24150BL | R22— 50,000 ohms (S.L.) ... ... ... ... ... ... ... ... | 1 | — | 0 1 0 | ,, |
| 24150F | R23— 10,000 ohms ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 24150AL | R24—750,000 ohms ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 18300CP | VR1 and S3—2-megohm volume control and mains On/Off switch complete with nut and S.P. washer ... ... ... ... ... ... ... | 1 | — | 0 5 0 | ,, |
| | **CONDENSERS** | | | | |
| 22164B | C1 — 7·5 m/mfd. ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | Each. |
| 24900W | C2 — 0·05 mfd. ... ... ... ... ... ... ... ... ... | 1 | — | 0 1 3 | ,, |
| 24900AA | C3 — 0·1 mfd. ... ... ... ... ... ... ... ... ... | 1 | — | 0 1 4 | ,, |
| 24900AA | C5 — 0·1 mfd. ... ... ... ... ... ... ... ... ... | 1 | — | 0 1 4 | ,, |
| 22170A | C6 — 50 m/mfd. ... ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 22330CP | C7 — 0·0035 mfd. (V.S.L.) ... ... ... ... ... ... ... ... | 1 | — | 0 2 6 | ,, |
| 22330AL | C8 — 0·00035 mfd. (S.L.) ... ... ... ... ... ... ... ... | 1 | — | 0 2 6 | ,, |
| 24900AA | C9 — 0·1 mfd. ... ... ... ... ... ... ... ... ... | 1 | — | 0 1 4 | ,, |
| 24900J | C10— 0·005 mfd.... ... ... ... ... ... ... ... ... | 1 | — | 0 1 0 | ,, |
| 22170AB | C11— 75 m/mfd. ... ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 24900N | C12— 0·01 mfd. ... ... ... ... ... ... ... ... ... | 1 | — | 0 1 0 | ,, |
| 22170B | C13—100 m/mfd. ... ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 22170AF | C14— 0·00035 mfd. ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 17250D | C15— 25 mfd. 12 v. electrolytic ... ... ... ... ... ... | 1 | — | 0 2 6 | ,, |
| 26174A | C16— 4 mfd. electrolytic, with C23, C24, C30 and C34 ... ... ... | 1 | — | 0 7 6 | ,, |
| 12619 | Screw, P.K., securing electrolytic condenser block ... ... ... ... | 4 | — | 0 0 6 | Doz. |
| 18146D | C17 0·05 mfd. ... ... ... ... ... ... ... ... ... | 1 | — | 0 1 3 | Each. |
| 24900W | C18— 0·05 mfd. ... ... ... ... ... ... ... ... ... | 1 | — | 0 1 3 | ,, |
| 24900AE | C19— 0·23 mfd. ... ... ... ... ... ... ... ... ... | 1 | — | 0 1 9 | ,, |
| 24900AE | C20— 0·23 mfd. ... ... ... ... ... ... ... ... ... | 1 | — | 0 1 9 | ,, |
| 24900N | C21—0·01 mfd. ... ... ... ... ... ... ... ... ... | 1 | — | 0 1 0 | ,, |
| 24900S | C22—0·023 mfd. ... ... ... ... ... ... ... ... ... | 1 | — | 0 1 0 | ,, |
| — | C23— 4 mfd. electrolytic, see C16 ... ... ... ... ... ... | — | — | — | — |
| — | C24— 8 mfd. electrolytic, see C16 ... ... ... ... ... ... | — | — | — | — |
| 22164F | C25— 35 m/mfd. ... ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | Each. |
| 22170AC | C26—150 m/mfd. ... ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 22164E | C27— 23 m/mfd. ... ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 24900E | C29— 0·0023 mfd. ... ... ... ... ... ... ... ... ... | 1 | — | 0 1 0 | ,, |

## SPARE PART LIST—*continued*

| Part No. | Description. | Parts per Inst. | Finish. | Retail List Price. £ s. d. | Per |
|---|---|---|---|---|---|
| | **CONDENSERS**—*continued* | | | | |
| — | C30— 4 mfd. electrolytic, see C16 | 1 | — | — | — |
| 24900W | C31— 0·05 mfd. | 1 | — | 0 1 3 | Each. |
| 22001F | C33— 0·001 mfd. | 1 | — | 0 0 9 | ,, |
| — | C34— 4 mfd. electrolytic, see C16 | 1 | — | — | — |
| 18146L | C35— 0·015 mfd. | 1 | — | 0 1 0 | Each. |
| 24900W | C36— 0·05 mfd. | 1 | — | 0 1 3 | ,, |
| 23922D | TC1, TC2 and TC3—Triple pre-set condensers | 1 | — | 0 2 0 | ,, |
| 23922G | TC3 and TC6—Twin pre-set condensers | 1 | — | 0 1 6 | ,, |
| 23922B | TC7, TC8 and TC9—Triple pre-set condensers | 1 | — | 0 2 6 | ,, |
| 3166 | Washer, S.P. } securing above pre-set condensers | 3 | — | 0 0 2 | Doz. |
| 19050 | Screw } | 3 | WN | 0 0 3 | ,, |
| 12640G | TC10 and TC11—Twin pre-set condenser | 1 | — | 0 2 0 | Each. |
| 11221 | Screw | 2 | WN | 0 0 1 | Doz. |
| 3166 | Washer, S.P. } securing TC10 and TC11 | 2 | — | 0 0 2 | ,, |
| 11628 | Nut | 2 | WN | 0 0 2 | ,, |
| 22530H | TC12 and TC13—1st I.F. trimmer condensers | 1 | — | 0 1 9 | Each. |
| 22530L | TC14 and TC15—2nd I.F. trimmer condensers | 1 | — | 0 1 9 | ,, |
| 26130C | **VC1, VC2 and VC3**—three-gang condenser | 1 | — | 0 12 6 | ,, |
| 25043 | Stop pin | 1 | — | 0 0 6 | Doz. |
| 26113 | Bracket | 1 | CdP | 0 0 2 | Each. |
| 14791 | Screw } securing bracket to front plate of condenser | 2 | WN | 0 0 1½ | ,, |
| 3166 | Washer, S.P. } | 2 | — | 0 0 2 | Doz. |
| 21236 | Rubber bush | 3 | — | 0 0 1 | Each. |
| 6305 | Washer | 3 | WN | 0 0 1 | Doz. |
| 3167 | Washer, S.P. } securing three-gang condenser | 3 | — | 0 0 2 | ,, |
| 11627 | Nut | 3 | WN | 0 0 6 | ,, |
| | **CONDENSER DRIVE AND TUNING DETAILS** | | | | |
| 26156A | Gear assembly, with springs | 1 | — | 0 0 9 | Each. |
| 24045 | Spring | 2 | — | 0 0 1 | ,, |
| 13387 | Screw, securing gear assembly to spindle of three-gang condenser | 2 | WN | 0 0 4 | Doz. |
| 26154A | Plate, with bearing bush for intermediate gear | 1 | CdP | 0 0 4½ | Each. |
| 6461 | Washer } securing plate to pillars on condenser | 2 | WN | 0 0 1 | Doz. |
| 11628 | Nut } | 2 | WN | 0 0 2 | ,, |
| 26161A | Intermediate gear, with drive disc | 1 | — | 0 0 9 | Each. |
| 24833K | Drive mechanism | 1 | — | 0 3 0 | ,, |
| 26114 | Outer spindle | 1 | CP | 0 1 0 | ,, |
| 26115 | Inner spindle | 1 | — | 0 0 4½ | ,, |
| 3658 | Ball | 3 | — | 0 0 2 | Doz. |
| 24832 | Ball retaining washer | 2 | — | 0 0 1 | Each. |
| 24834 | Ring | 1 | — | 0 0 9 | Doz. |
| 11328 | Screw } securing ring to base casting | 4 | WN | 0 0 2 | ,, |
| 25092 | Spring } | 4 | — | 0 0 6 | ,, |
| 11222 | Screw } securing drive mechanism to plate | 2 | WN | 0 0 2 | ,, |
| 3166 | Washer, S.P. } | 2 | — | 0 0 2 | ,, |
| 21823B | Disc drive assembly | 1 | — | 0 0 3 | Each. |
| 11805 | Screw, P.K., securing disc drive assembly to drive mechanism | 1 | — | 0 0 6 | Doz. |
| 26159A | Pointer | 1 | CB | 0 0 3 | Each. |
| 13893 | Screw, securing pointer to gear assembly | 2 | WN | 0 0 8 | Doz. |
| 26146A | Tuning scale | 1 | — | 0 2 6 | Each. |
| 26147 | Clamp } securing scale | 2 | LBNEn | 0 0 1 | ,, |
| 8777 | Screw, P.K. } | 4 | — | 0 0 6 | Doz. |
| 26140A | Scale frame assembly complete with reflectors and lamp bracket | 1 | LBNEn | 0 2 3 | Each. |
| 8777 | Screw, P.K., securing assembly to chassis | 4 | — | 0 0 6 | Doz. |
| 26136A | Lampholder | 1 | — | 0 0 9 | Each. |
| 26135A | Lamp | 1 | — | 0 3 0 | ,, |
| 26148A | Plate, with bearing bush for indicator | 1 | CdP | 0 0 3 | ,, |
| 10606 | Screw, P.K. } securing plate to chassis | 2 | WN | 0 0 7 | Doz. |
| 6461 | Washer } | 2 | — | 0 0 1 | ,, |
| 26150B | Indicator disc with sprocket | 1 | — | 0 0 6 | Each. |
| 26153 | Bearing pin | 1 | WN | 0 0 6 | Doz. |
| 13387 | Screw, securing pin | 1 | WN | 0 0 3 | ,, |
| 10615 | Circlip, securing disc | 1 | WN | 0 0 2 | ,, |
| 18751A | Drive sprocket | 1 | — | 0 0 8 | Each. |

| Part No. | Description. | Parts per Inst. | Finish. | Retail List Price. £ s. d. | Per |
|---|---|---|---|---|---|
| | **CONDENSER DRIVE AND TUNING DETAILS**—*continued* | | | | |
| 13387 | Screw, securing sprocket to switch spindle | 2 | WN | 0 0 3 | Doz. |
| 26138A | Chain | 1 | — | 0 0 2 | Each. |
| 23397 | Spring | 1 | — | 0 0 1 | ,, |
| | **SWITCHES** | | | | |
| 26137A | S1—Change-over switch, complete with fixing nut and S.P. washer | 1 | — | 0 5 3 | Each. |
| 8777 | Screw, P.K., securing switch | 2 | — | 0 0 6 | Doz. |
| 21490E | S2—Tone switch, complete with nut and S.P. washer | 1 | — | 0 2 0 | Each. |
| — | S3—Mains On/Off switch—see VR1 | — | — | — | — |
| | **VALVE HOLDERS, SCREENS, PANELS, LEADS, ETC.** | | | | |
| 26003A | Valve holder, 7-pin | 5 | — | 0 0 4½ | Each. |
| 26000A | Valve holder, 4-pin | 1 | — | 0 0 3 | ,, |
| 24981 | Valve screen base | 4 | CdP | 0 0 1½ | ,, |
| 16353 | Rivet, securing valve holders | 4 | — | 0 0 1 | Doz. |
| 16458 | Rivet, securing valve holders and screen base | 8 | — | 0 0 1 | ,, |
| 24982B | Valve screen (for V1, V2, V3 and V4) | 4 | — | 0 0 6 | Each. |
| 26112 | Valve screen cap (for V4) | 1 | — | 0 0 2 | ,, |
| 21337D | Coil screen, with tag (aerial) | 1 | — | 0 1 0 | ,, |
| 21337E | Coil screen (anode) | 1 | — | 0 1 0 | ,, |
| 21337A | Coil screen, (oscillator) | 1 | — | 0 1 0 | ,, |
| 12619 | Screw, P.K., securing screens | 6 | — | 0 0 6 | Doz. |
| 24013 | Spacer | 3 | — | 0 0 3 | ,, |
| 11531E | Aerial and earth panel | 1 | — | 0 0 3 | Each. |
| 11531C | P.U. panel | 1 | — | 0 0 3 | ,, |
| 13803 | Rivet, securing panels | 4 | — | 0 0 3 | Doz. |
| 24095A | Panel with two tags | 1 | — | 0 0 2 | Each. |
| 15159 | Tag } securing panel on top of three-gang condenser | 1 | — | 0 0 3 | Doz. |
| 12619 | Screw, P.K. } | 1 | — | 0 0 6 | ,, |
| 22677D | Panel with eight tags | 2 | — | 0 0 6 | Each. |
| 26139 | Backing panel | 2 | — | 0 0 6 | Doz. |
| 8777 | Screw, P.K., securing panels | 4 | — | 0 0 6 | ,, |
| 24017A | Tag panel with five tags | 2 | — | 0 0 3 | Each. |
| 24020A | Tag panel with three tags | 1 | — | 0 0 2 | ,, |
| 12619 | Screw, P.K., securing tag panels | 5 | — | 0 0 6 | Doz. |
| 16576 | Long tag | 1 | — | 0 0 3 | ,, |
| 12619 | Screw, P.K., securing long tag to S1 | 1 | — | 0 0 6 | ,, |
| 11802 | Tag, for voltage adjustment lead | 1 | — | 0 0 3 | ,, |
| 19829 | Tag, for fixed lead | 1 | — | 0 0 2 | ,, |
| 19807 | Valve top clip | 4 | — | 0 0 2 | Each. |
| 7155 | Cleat | 4 | WN | 0 0 1 | ,, |
| 12619 | Screw, P.K., for cleats | 2 | — | 0 0 6 | Doz. |
| 16756 | Insulating bush | 2 | — | 0 0 3 | ,, |
| 16757 | Insulating bush (larger) | 5 | — | 0 0 1 | Each. |
| 19063D | Mains lead | 1 | — | 0 1 6 | ,, |
| 26118A | Loudspeaker lead | 1 | — | 0 0 7½ | ,, |
| | **MODEL 567** | | | | |
| | Parts different from or additional to those on Table Model 557. | | | | |
| 26180 | Instruction Card | 1 | — | 0 0 6 | Each. |
| 25821 | Transit Label | 1 | — | 0 0 1 | ,, |
| 8936 | Transfer " Close Lid Whilst Playing " | 1 | — | 0 0 1 | ,, |
| | **CABINET PARTS AND FITTINGS** | | | | |
| | **Cabinet** | 1 | Pol | 11 13 4 | ,, |
| 6526 | Dome for base | 4 | ,, | 0 0 6 | Doz. |
| — | Lid with felt | 1 | ,, | 2 17 9 | Each. |
| 82355 | Felt for lid, front, top and back | 1 | — | 0 2 6 | ,, |
| 82356 | Felt for lid, sides | 2 | — | 0 0 4½ | ,, |

## SPARE PART LIST—*continued*

| Part No. | Description. | Parts per Inst. | Finish. | Retail List Price. £ s. d. | Per |
|---|---|---|---|---|---|
| | **CABINET PARTS AND FITTINGS**—*continued* | | | | |
| 8813A | Lid hinge | 1 | BzP | 0 1 8 | Each. |
| 9525 | Lid hinge screw... | 14 | ,, | 0 0 2 | Doz. |
| 6208AH | Lid stay | 1 | ,, | 0 6 6 | Each. |
| 9561 | Lid stay screw | 4 | ,, | 0 0 2 | Doz. |
| 82349 | Body felt, front | 1 | — | 0 0 3 | Each. |
| 82350 | Body felt, back | 1 | — | 0 0 2 | ,, |
| 81805 | Body felt, sides | 2 | — | 0 0 2 | ,, |
| — | Motor board | 1 | Pol | 0 10 3 | ,, |
| 8684 | Motor board screw | 5 | BzP | 0 0 6 | Doz. |
| 14670 | Motor board lifting knob | 1 | ,, | 0 0 6 | Each. |
| 18884 | Motor board lifting knob screw | 1 | WN | 0 0 4 | Doz. |
| 82352 | Felt for motor board bearers, back | 1 | — | 0 0 2 | Each. |
| 82353 | Felt for motor board bearers, sides | 2 | — | 0 0 1 | ,, |
| — | Baffle board, with insert nuts... | 1 | Std | 0 3 3 | ,, |
| 14922 | Insert nut for speaker | 4 | CB | 0 1 4 | Doz. |
| 9527 | Baffle board fixing screw | 10 | — | 0 0 2 | ,, |
| 26508 | Wire mesh | 1 | AnBr | 0 5 6 | Each. |
| 80100 | Felt for wire mesh, top and bottom, front | 2 | — | 0 0 6 | Doz. |
| 80106 | Felt for wire mesh, top and bottom, back | 2 | — | 0 0 2 | Each. |
| 80154 | Felt for wire mesh, sides, front | 2 | — | 0 0 1 | ,, |
| 80053 | Felt for wire mesh, sides, back | 2 | — | 0 0 1½ | ,, |
| — | Speaker bars, vertical | 2 | Pol | 0 1 6 | ,, |
| — | Speaker bars, horizontal | 1 | ,, | 0 1 3 | ,, |
| 15823 | Pin, securing speaker bars | 6 | — | 0 0 1 | Doz. |
| 24873 | Bracket, for cabinet back | 8 | CdP | 0 0 1 | Each. |
| 2418 | Screw, securing brackets | 16 | — | 0 0 3 | Doz. |
| 26177A | Cabinet back, top (printed) | 1 | — | 0 1 6 | Each. |
| 26178A | Cabinet back, bottom (printed) | 1 | — | 0 1 6 | ,, |
| 19896 | Screw } securing cabinet back... | 8 | Par B | 0 0 1 | ,, |
| 19895 | Washer } | 8 | ,, | 0 0 4 | Doz. |
| | **CONTROLS** | | | | |
| 24371 | Knob, tuning, large | 1 | — | 0 0 7 | Each. |
| 24855A | Knob "Tuner" | 1 | ChF | 0 0 7 | ,, |
| 11773 | Grub screw, securing "Tuner" knob | 1 | WN | 0 0 5 | Doz. |
| 17054F | Knob, "Volume" | 1 | ChF | 0 0 7 | Each. |
| 17054Q | Knob, "Waveband" | 1 | ,, | 0 0 7 | ,, |
| 11805 | Screw, P.K., securing "Volume" and "Waveband" knobs... | 2 | — | 0 0 6 | Doz. |
| 23115B | Knob, "Tone | 1 | ChF | 0 0 7 | Each. |
| 12378A | Knob, Extra loudspeaker switch | 1 | — | 0 0 10 | ,, |
| 14209 | Grub screw, securing Ex. L.S. knob | 1 | WN | 0 0 3 | Doz. |
| | **MOTOR BOARD FITTINGS** | | | | |
| 21940B | Turntable, with felt, friction band and spring ring | 1 | BzP | 0 5 6 | Each. |
| 3569 | Felt | 1 | — | 0 0 6 | ,, |
| 282 | Spring clip | 1 | — | 0 0 2 | ,, |
| 13869 | Spring ring | 1 | — | 0 0 6 | Doz. |
| 1002 | Turntable clip | 1 | ChP | 0 0 6 | Doz. |
| 22900A | **Motor,** complete with fixing screws | 1 | — | 1 15 0 | Each |
| 34/16 | Motor securing screw | 3 | WN | 0 0 6 | Doz. |
| KK.1/18 | Motor securing washer | 3 | ,, | 0 0 3 | ,, |
| 34/14 | Motor securing washer, rubber | 6 | — | 0 0 9 | ,, |
| 34/15 | Motor securing sleeve, rubber | 3 | — | 0 0 9 | ,, |
| KK.1/21 | Top plate, with T.T. spindle bush and pin for Regulator lever | 1 | — | 0 1 9 | Each. |
| 19050 | Screw securing top plate | 4 | WN | 0 0 3 | Doz. |
| 34/36 | Split pin } | 1 | — | 0 0 3 | ,, |
| 34/37 | Spring washer } securing regulator spindle... | 1 | — | 0 1 6 | ,, |
| 15/19 | Washer } | 1 | WN | 0 0 6 | ,, |
| KK.7/6 | Regulator spindle and lever | 1 | ,, | 0 0 3 | Each. |
| KK.7/7 | Swivel with pin, pad cups, lever and bush | 1 | — | 0 0 9 | ,, |
| JJ.7/7 | Felt pad | 2 | — | 0 0 6 | Doz. |
| L.3/4 | Washer } securing bush of swivel assembly tp pin of top plate... | 1 | — | 0 0 1 | ,, |
| JJ.7/11 | Split pin } | 1 | — | 0 0 3 | ,, |

## SPARE PART LIST—*continued.*

| Part No. | Description. | Parts per Inst. | Finish. | Retail List Price. £ s. d. | Per |
|---|---|---|---|---|---|
| | **MOTOR BOARD FITTINGS**—*continued* | | | | |
| KK.7/5 | Spring for regulator lever ... ... ... ... ... ... ... | 1 | — | 0 0 9 | Doz. |
| D.1/11 | Felt washer for turntable spindle ... ... ... ... ... ... | 1 | — | 0 0 3 | ,, |
| HH.1/10 | Cover for felt washer ... ... ... ... ... ... ... ... | 1 | — | 0 0 6 | ,, |
| KK.4 | Turntable spindle complete ... ... ... ... ... ... ... | 1 | — | 0 3 0 | Each. |
| E.4/4 | Turntable spindle packing washer ... ... ... ... ... ... | 1 | — | 0 0 1 | Doz. |
| 3540 | Ball bearing ... ... ... ... ... ... ... ... ... | 1 | — | 0 0 1 | ,, |
| JJ.1/7 | Thrust plate ... ... ... ... ... ... ... ... ... | 2 | — | 0 1 3 | ,, |
| 15048 | Soldering tag ... ... ... ... ... ... ... ... ... | 1 | — | 0 0 4 | ,, |
| 11326 | Screw securing thrust plates ... ... ... ... ... ... ... | 4 | — | 0 0 3 | ,, |
| KK.3 | Rotor and spindle complete ... ... ... ... ... ... ... | 1 | — | 0 7 6 | Each. |
| 249 | Ball bearing ... ... ... ... ... ... ... ... ... | 1 | — | 0 0 1 | Doz. |
| KK.1/13 | Adjusting pin ... ... ... ... ... ... ... ... ... | 1 | — | 0 2 0 | ,, |
| 11327 | Screw securing adjusting pin to end cover plate and latter to end cover... | 5 | — | 0 0 3 | ,, |
| 13713 | Screw securing end cover ... ... ... ... ... ... ... | 4 | — | 0 0 6 | ,, |
| KK.2 | Stator complete ... ... ... ... ... ... ... ... ... | 1 | — | 0 12 6 | Each. |
| KK.5/3 | Governor sleeve and disc ... ... ... ... ... ... ... | 1 | — | 0 1 3 | ,, |
| KK.5/2 | Governor collar ... ... ... ... ... ... ... ... ... | 1 | — | 0 0 6 | ,, |
| M.378 | Governor ball ... ... ... ... ... ... ... ... ... | 3 | — | 0 0 3 | ,, |
| JJ.5/1 | Governor spring ... ... ... ... ... ... ... ... ... | 3 | — | 0 0 6 | Doz. |
| M.531 | Washer } securing ball to spring ... ... ... ... ... | 3 | — | 0 0 3 | ,, |
| M.130 | Screw } | 3 | — | 0 0 3 | ,, |
| M.130 | Screw } securing spring to collar ... ... ... ... ... | 3 | — | 0 0 3 | ,, |
| M.198 | Washer } | 3 | — | 0 0 2 | ,, |
| M.129 | Screw, securing collar to spindle ... ... ... ... ... ... | 1 | — | 0 0 3 | ,, |
| 21911A | Speed regulator ... ... ... ... ... ... ... ... ... | 1 | BzP | 0 0 6 | ,, |
| 13387 | Grub screw, securing regulator to motor ... ... ... ... ... | 2 | BzP | 0 0 4 | Doz. |
| 6255 | Regulator plate ... ... ... ... ... ... ... ... ... | 1 | BzP | 0 0 4 | Each |
| 2418 | Screw, securing regulator plate ... ... ... ... ... ... ... | 2 | BzP | 0 0 4 | Doz. |
| 230E | **Auto. brake** ... ... ... ... ... ... ... ... ... | 1 | BzP | 0 7 3 | Each |
| 2418 | Screw, securing auto brake ... ... ... ... ... ... ... | 3 | WN | 0 0 3 | Doz. |
| 246 | Indicator plate ... ... ... ... ... ... ... ... ... | 1 | BzP | 0 0 4 | Each |
| 2418 | Screw, securing indicator plate ... ... ... ... ... ... ... | 2 | BzP | 0 0 4 | Doz. |
| 9430 | Needle bowl ... ... ... ... ... ... ... ... ... | 1 | AcD | 0 0 4 | Each |
| 4369 | Needle bowl cover ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 3484 | Needle bowl support ... ... ... ... ... ... ... ... | 1 | WN | 0 0 2 | ,, |
| 9932 | Needle bowl support screw ... ... ... ... ... ... ... | 3 | WN | 0 0 2 | Doz. |
| 18899 | Tungstyle needle clip ... ... ... ... ... ... ... ... | 1 | BzP | 0 0 6 | Each |
| 2418 | Screw, securing needle clip ... ... ... ... ... ... ... | 2 | BzP | 0 0 4 | Doz. |
| 15969A | Pick-up rest and felt ... ... ... ... ... ... ... ... | 1 | BzP | 0 0 9 | Each |
| 15970 | Felt ... ... ... ... ... ... ... ... ... | 1 | — | 0 0 2 | Doz. |
| 2418 | Screw, securing rest ... ... ... ... ... ... ... ... | 2 | BzP | 0 0 4 | ,, |
| 17670V | **Pick-Up** ... ... ... ... ... ... ... ... ... | 1 | — } | 1 12 0 | Each |
| 17495 | Pick-Up-insert ... ... ... ... ... ... ... ... ... | 1 | — } | | |
| 17670 | Pick-up arm ... ... ... ... ... ... ... ... ... | 1 | — | 0 1 6 | ,, |
| 16120B | Pick-up head assembly ... ... ... ... ... ... ... ... | 1 | — | 0 10 0 | ,, |
| 16120 | Pick-up head base ... ... ... ... ... ... ... ... | 1 | — | 0 0 9 | ,, |
| 16101 | Pole piece ... ... ... ... ... ... ... ... ... | 2 | WN | 0 1 9 | ,, |
| 16102 | Damping rubber ... ... ... ... ... ... ... ... | 1 | — | 0 0 1 | ,, |
| 16104 | Damping rubber clamp ... ... ... ... ... ... ... ... | 2 | — | 0 0 5 | Doz. |
| 16126 | Damping rubber clamp screw ... ... ... ... ... ... | 2 | WN | 0 0 4 | ,, |
| 16109 | Armature ... ... ... ... ... ... ... ... ... | 1 | CdP | 0 0 6 | Each |
| 16103 | Armature pivot ... ... ... ... ... ... ... ... | 2 | — | 0 0 6 | Doz. |
| 16106 | Lead clamp ... ... ... ... ... ... ... ... ... | 1 | WN | 0 0 7 | ,, |
| 19132 | Needle screw ... ... ... ... ... ... ... ... ... | 1 | BzSpLoc | 0 0 1½ | Each |
| 16110 | Magnet ... ... ... ... ... ... ... ... ... | 1 | — | 0 2 1 | ,, |
| 16111A | Coil ... ... ... ... ... ... ... ... ... | 1 | — | 0 1 4 | ,, |
| 16113 | Pole piece screw ... ... ... ... ... ... ... ... | 4 | WN | 0 0 8 | Doz. |
| 16118 | Bracket, supporting lead ... ... ... ... ... ... ... | 1 | CB | 0 0 1 | Each |
| 16119 | Sleeve for lead ends ... ... ... ... ... ... ... | 1 | — | 0 0 10 | Doz. |
| 11238 | Screw } for lead clamp ... ... ... ... ... | 1 | BzP | 0 0 2 | ,, |
| 21036 | Washer (fibre) } | 1 | — | 0 0 2 | ,, |
| 16121 | Fixing base ... ... ... ... ... ... ... ... ... | 1 | — | 0 0 8 | Each |
| 16122 | Support pillar ... ... ... ... ... ... ... ... ... | 1 | — | 0 0 11 | ,, |
| 16107A | Spring and anchor rings ... ... ... ... ... ... ... ... | 1 | OB | 0 0 2 | ,, |
| 16108 | Anchor for spring ... ... ... ... ... ... ... ... | 1 | WN | 0 0 6 | Doz. |
| 16112 | Screw, securing P.U. Head to arm ... ... ... ... ... ... | 2 | WN | 0 0 1 | Each |
| 16114 | Pivot screw for P.U. arm ... ... ... ... ... ... ... | 1 | BzP | 0 0 1½ | ,, |

## SPARE PART LIST—*continued*

| Part No. | Description | Parts per Inst. | Finish | Retail List Price £ s. d. | Per |
|---|---|---|---|---|---|
| | **MOTOR BOARD FITTINGS**—*continued.* | | | | |
| 16115 | Pad | 2 | — | 0 0 6 | Doz. |
| 16700 | Lead cover | 1 | — | 0 0 3 | ,, |
| 11237 | Lead cover screw | 1 | BzP | 0 0 5 | ,, |
| 18769 | Lead cover bracket | 1 | BMEn | 0 0 1½ | Each |
| 17001 | Segment for balls | 1 | WN | 0 0 3 | ,, |
| 3519 | Ball | 8 | — | 0 0 1½ | Doz. |
| 16128 | Locking screw | 1 | BzP | 0 0 8 | ,, |
| 16127A | Brake arm and pin | 1 | BzP | 0 0 11 | Each |
| 11228 | Screws for brake arm | 3 | BzP | 0 0 4 | Doz. |
| 19156A | Pick up lead | 1 | — | 0 1 3 | Each |
| 26179A | Tag panel and plugs | 1 | — | 0 0 3 | ,, |
| 24150S | Resistance 7,500 ohms | 1 | — | 0 0 9 | ,, |
| 9547 | Screw, securing pick up | 3 | BzP | 0 0 4 | Doz. |
| | **LEADS, PLUGS, CLEATS, ETC.** | | | | |
| 24132C | Extra loudspeaker switch complete with resistance | 1 | — | 0 2 9 | Each |
| 19104AA | 50 ohms resistance | 1 | — | 0 1 0 | ,, |
| 8651 | Screw, securing switch | 2 | WN | 0 0 2 | Doz. |
| 26176A | Extra loudspeaker lead | 1 | — | 0 1 3 | Each |
| 22289B | Motor lead, with 3 tags | 1 | — | 0 0 9 | ,, |
| 8227A | Mains Plug | 1 | — | 0 1 7 | ,, |
| | **RADIO UNIT** | | | | |
| | Radio unit is exactly as in table model 557, but is secured thus :— | | | | |
| 25631 | Bolt } | 4 | WN | 0 0 9 | Doz. |
| 14748 | Washer } securing radio unit | 4 | WN | 0 0 2 | ,, |
| 10173C | Spring washer } | 4 | — | 0 0 2 | ,, |
| 24778 | Plate } | 2 | WN | 0 0 6 | ,, |
| 11205 | Transit screw | 2 | Red Hd. | 0 0 2 | ,, |
| 10173 | Spring washer | 2 | — | 0 0 2 | ,, |