



MARCONIPHONE

SERVICE MANUAL

PRIVATE AND CONFIDENTIAL
TO THE TRADE ONLY

MODELS 851 & 852

6 Valve All-Wave Superhet
for A.C. Mains

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JAN.
1938
PART NO.
20567

MODELS 851 AND 852

TECHNICAL SPECIFICATION

VOLTAGE RANGE.

195 to 255 volts, A.C.
 50 to 100 cycles. (Model 851.)
 50 to 60 cycles. (Model 852.)

POWER CONSUMPTION.

Approximately 85 watts (Radio 70 watts, pilot lamp 15 watts).
 Gramophone 100 watts. (Model 852.)

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 KT63 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 851— $20\frac{1}{8}$ inches high, $17\frac{5}{16}$ inches wide, $10\frac{13}{16}$ inches deep.
 Model 852— $40\frac{1}{4}$ " " 24 " " $14\frac{1}{16}$ " "

WEIGHT.

Model 851—41 lb. net., 71 lb. gross.
 Model 852—90 lb. net., 158 lb. gross.

VALVES.

Marconi KTW63	...	...	...	...	H.F. Amplifier.
" X63	...	...	...	...	Frequency Changer.
" KTW63	...	...	...	...	I.F. Amplifier.
" DH63	...	...	...	...	Detector and A.V.C. diodes, and L.F. Amplifier.
" KT63	...	...	...	...	Output Valve.
" U50	...	...	...	...	H.T. Rectifier.
					<i>Model 852 only.</i>
" Y63	...	...	...	...	Visual Tuning Indicator.

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 852.)

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 852.)

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 852.)

No. 230E.

Standard friction feed type.

CONNECTING A PICK-UP. (Model 851.)

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 adjusted to approximately 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 (851).

CIRCUIT DESCRIPTION

H.F. AMPLIFIER.

The aerial is connected to the H.F. pentode (KTW63) 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 (X63) 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 X63. 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 (KTW63) 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 (DH63) 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 R12 and R20.

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 (KT63). The anode circuit of this valve incorporates tone control VC4, 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 U50, while smoothing is by means of the loudspeaker field in the negative H.T. lead and the electrolytic condensers C23 and C24.

DISMANTLING MODEL 851

ACCESS TO CHASSIS.

Access to the underside of the radio chassis may be obtained by removing the cabinet bottom. The three outer screws securing the metal straps should be removed to detach the bottom.

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.

MODEL 852

REMOVAL OF CHASSIS.

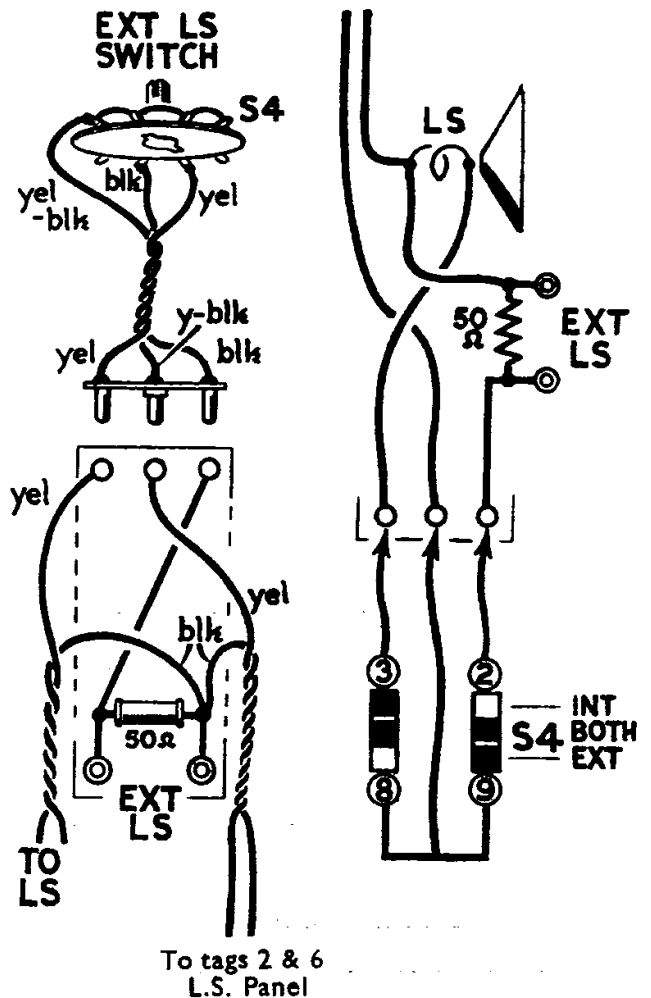
1. Remove back and knobs.
2. Disconnect leads from L.S. switch and motor leads ; remove pick-up plugs.
3. Remove four fixing bolts from underside of cabinet shelf and withdraw chassis.

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

This receiver employs International ("octal") type valves, with the grid connexion brought out to the cap, and it is consequently more difficult to check up H.T. voltages. The following tests, if systematically carried out, will help in locating a fault in the receiver :—

Tag 6 to 7, L.S. panel 105 volts, 1,560 ohms.

If valves and pilot lamps 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 in connecting leads, or in main H.T. lead.

L.F. test.

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.

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 and possibly V4). If no results are obtained from this test, contact a small battery or ohm-meter across the speech coil of the loudspeaker (tags 2 and 4). A definite "click" indicates that the speech coil is continuous.

H.F. test.

Eliminate the early stages by connecting aerial lead on the fixed vanes VC1, then VC2.

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 under both test conditions but with whistles and loss of selectivity.

Oscillator test.

Contact voltmeter across R8 in oscillator circuit and note readings with L12, L13, L14 first in circuit and then shorted out.

This test shows whether the oscillator is functioning correctly. When the coupling coils are shorted the voltage should rise considerably, indicating an increase in current; this applies to all wavebands, e.g., on M.W. with receiver tuned to approximately 580 metres the readings are 90 and 118 volts with the coils in and out of circuit respectively. It should be noted that these are only approximate values; they will vary on different wavebands and with the point to which the receiver is tuned.

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 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 and make good contact. If man-made static is causing the interference, recommend the fitting of a Marconiphone All-Wave Filter 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 (KT63) and chassis. The A.C. voltmeter must be connected to the L.S. speech coil (tags 2 and 5) or the Ext. L.S. Sockets.

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., (645.2 metres) and connect leads to top grid of V2 via an 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 (16.67 megacycles) and couple to aerial and earth sockets.
2. Tune in receiver to signal and adjust TC7, TCI, for maximum output, at the same time "rocking" the gang condenser.
3. Set oscillator to 50 metres (6 megacycles) 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 TCI, "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 (1,538.5 kc.).
2. Trim TC8 for maximum output.
3. Set oscillator to 225 metres (1,333.3 kc.) and tune in on receiver.
4. Adjust TC2 and TC5 for maximum output.
5. Set oscillator to 530 metres (566 kc.) 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 (413.8 kc.).
2. Adjust TC9 for maximum output.
3. Set oscillator and tune-in receiver on 800 metres (375 kc.).
4. Adjust TC3 and TC6 for maximum output.
5. Set oscillator and receiver to 1,900 metres (158 kc.) and adjust TC11 for maximum at the same time "rocking" the gang condenser.
6. Check setting of TC9 at 725 metres (413.8 kc.).
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.

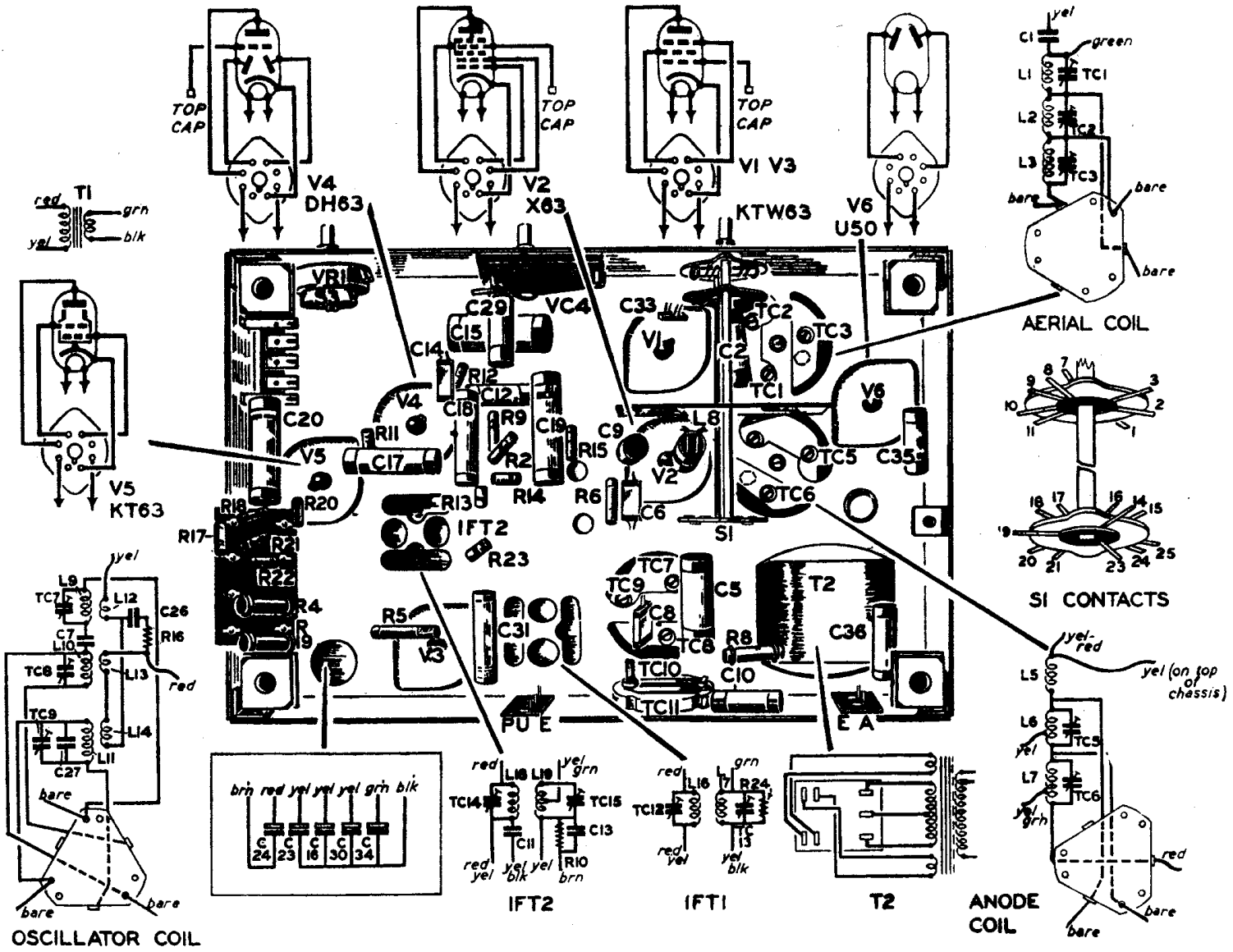
The hole in the knurled brass bearing at the end of the motor.

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.

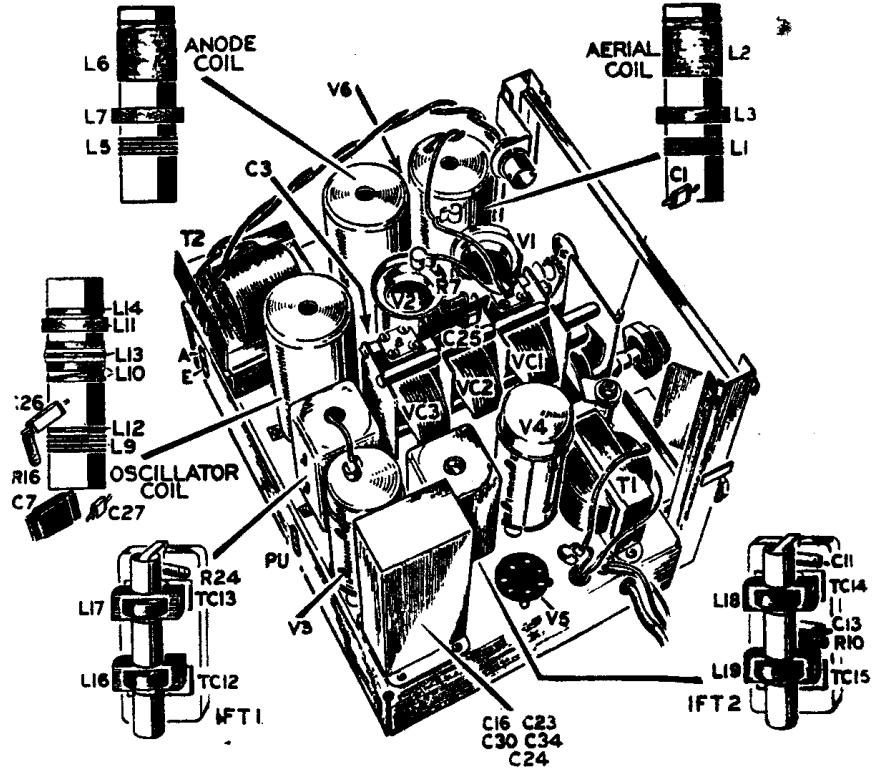
CONTINUITY CHECKS

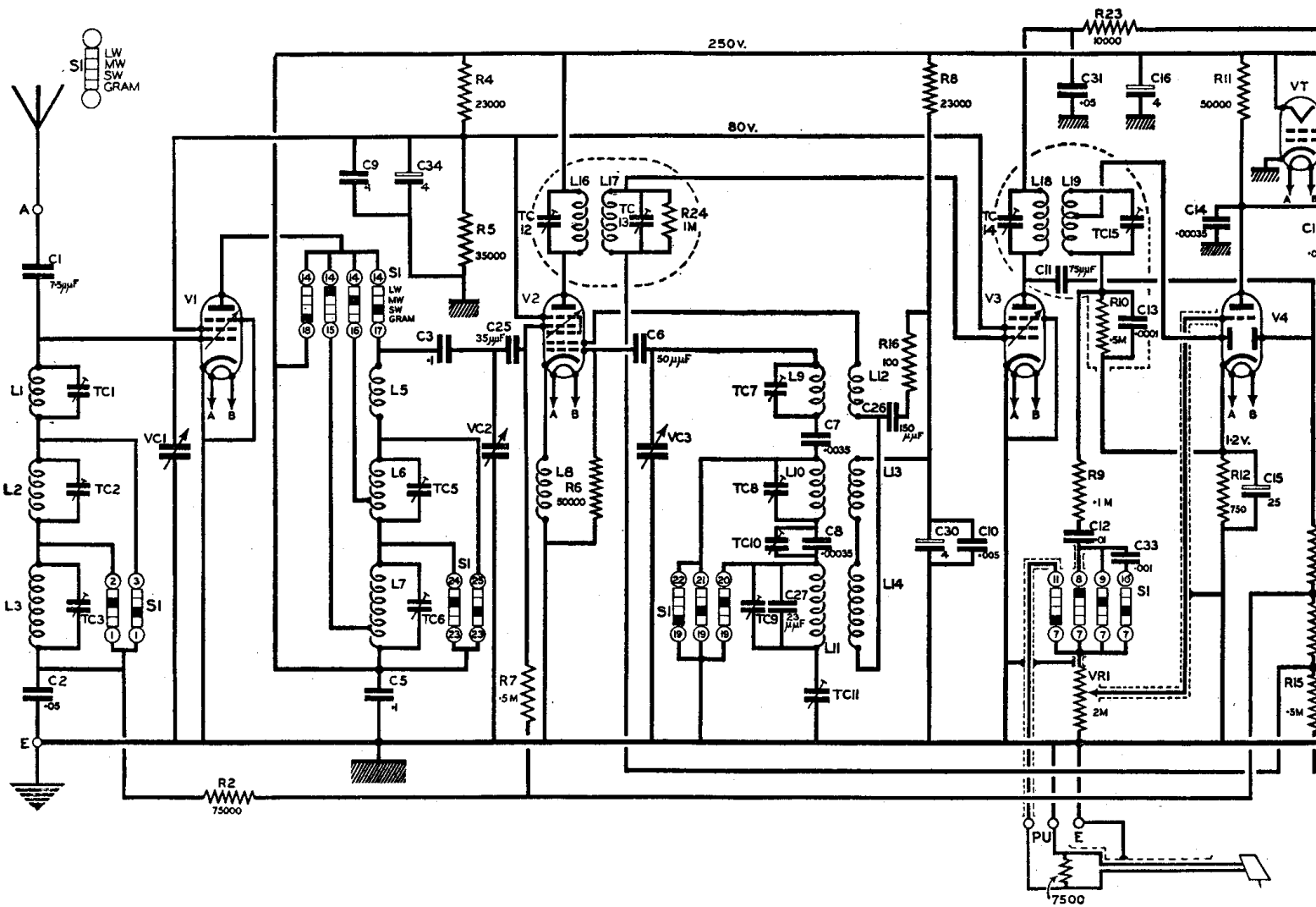
Resistance values ± 20 per cent. Remove valves and pilot lamps.

Components	Measured	Switch	Resistance
L1, L2, L3	Grid (top terminal) V1 and tag 1 S1	SW MW LW	(L1), 0.1 ohm. (L1 + L2), 6 ohms. (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 (KTW63) 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 (X63) and R8	—	6.0 ohms. L12, 1.0 ohm. L13, 2.0 ohms. L14, 3.0 ohms.
L16	Anode V2 and screen V5 (KT63)	—	5 ohms.
L17, R24	Grid V3 (KTW63) and yellow/black lead from IFT 1	—	5 ohms.
L18	Anode V3 and red lead from IFT 2	—	5 ohms.
L19, R10	Diode and cathode V4 (DH63)	—	0.5 megohm (L19, 5 ohms).
R2, R7, L1	Grid V1 and grid V2	SW	0.575 megohm.
R4, R5	Screen V5 and chassis	—	78,000 ohms.
R13, R14, R15, R20	Diode V4 and chassis	—	1.5 megohms.
R18, R17, R22	Grid V5 and tag L.S. panel	—	0.3 megohm.
R21	Across ends	—	7,500 ohms.
VR1	Grid V4 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	Red and yellow leads from trans.	—	400 ohms.
T1 Secondary	Green lead from T1 and chassis (disconnect speech coil)	—	0.6 ohm.
T2 Primary	Terminals 195-223 volts and 224-255 volts	—	4.0 ohms.
T2 Secondary	Terminals M and 195-223 volts	—	26 ohms.
	Tags 5-6	—	315 ohms.
	Tags 6-7	—	315 ohms.
	Tags 8-9	—	0.1 ohm.
	Tags 10-11	—	0.1 ohm.



In Model 852 the visual tuning indicator with R25 is mounted at the top left-hand corner of the scale.





The visual tuning indicator (VT), R25, and the Pick-up and shunt resistance are fitted to Model 852 only.

For extra L.S. switch and socket diagram (Model 852) see page 4.

RESISTANCE COLOUR CODE

BODY AND END

Colours.

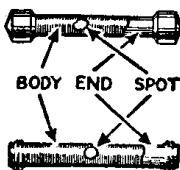
(1st and 2nd figures.)

- 0 Black.
- 1 Brown.
- 2 Red.
- 3 Orange.
- 4 Yellow.
- 5 Green.
- 6 Blue.
- 7 Violet.
- 8 Grey.
- 9 White.

SPOT Colours.

(Additional 0's.)

- 0 Black.
- 0· Brown.
- 00· Red.
- ,000· Orange.
- 0,000· Yellow.
- 00,000· Green.



WIRE COLOUR CODE

- H.T. positive (+) ...
- Anodes of valves when H.T. + ...
- Screening grids when H.T. + ...
- Grid circuits ...
- Mains ...
- Heaters, filaments and cathodes ...
- Earth ...
- General purpose colour ...
- Yellow will be used for code, and when stocks exhausted in the factory.

VALVE TABLE (VOLTAGE, CURRENT, AND RESISTANCE TESTS.)

Values ± 20 per cent.

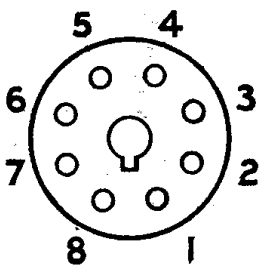
Voltage and current readings taken on 225 volt mains, with receiver switched to M.W. and tuned to point of no reception.

Resistance readings (in ohms) taken with receiver disconnected from mains and valves removed.

S = Short circuit. ∞ = Open circuit. Socket numbers (see diagram below) are given in brackets.

VALVES	V1 W63 or KTV63	V2 X63	V3 W63 or KTV63	V4 DH63	V5 KT63	V6 U50	V7 Y63 (Model 852)	
ANODE	Volts to chassis ...	250	Mixer	220	135	260	370 (AC)	
			Osc.					150 S.W. GRAM } 115
	Current (mA) ...	5.2*	2.4*	4.0*	5.2	1.6	32.0	—
Resistance to chassis ...	(3) 58,000	(3) 58,000	(3) 69,000	0.108 (3) Megohm	(3) 69,400	(4) 1870 (6) 1870	(3) 1.06 megohms	
SCREEN	Volts to chassis ...	80	80	80	—	250	250 (Target)	
	Current (mA) ...	1.1*	3.0*	1.0*	—	4.8	—	
	Resistance to chassis ...	(4) 35,000	(4) 35,000	(4) 35,000	—	(4) 68,000	(4) 58,000 (Target)	
BIAS	Voltage ...	1.9	1.9	1.9	1.2	16.0	385	
	Measured ...	Junction R20, R21 and chassis			Cathode to chassis	Junction R21, R22 and chassis	Cathode to tag 7, L.S. panel	—
CATHODE...	Resistance to chassis ...	(8) S	(8) S	(8) S	(8) 750	(8) S	(8) S	
HEATER	Volts across sockets ...	6.3	6.3	6.3	6.3	6.3	5.0	6.3
	Current (amps) ...	0.3	0.3	0.3	0.3	0.7	2.0	0.3
	Resistance to chassis (2)	0.1	0.1	0.1	0.1	0.1	69,000	S
	(7)	S	S	S	S	S	(8) 69,000	0.1
	(1) S	(1) S	(1) S	(1) S	(1) S	(1) ∞	(1) ∞	
	—	—	—	(4) 1.5 megohms	—	(3) ∞	—	
	(5) S	(5) 50,000	(5) S	(5) 0.5 megohm	(5) 0.25 megohm	(5) ∞	(5) 1 megohm	
	(6) ∞	(6) 81,000	(6) 69,000	(6) 0.108 megohm	(6) ∞	—	(6) ∞	
	(Cap) 1.08 megohms	(Cap) 1.5 megohms	(Cap) 0.5 megohm	(Cap) 19 ohms to 2 megohms (VR1)	—	(7) ∞	—	

OTHER SOCKET TO
CHASSIS RESISTANCES.



VALVE SOCKET
SEEN FROM TOP

* These values will vary when a strong station is tuned in ; bias values and anode and screen currents will reduce, and oscillator anode and mixer screen currents will increase.

Voltage across L.S. field (measured tag 7 L.S. panel to chassis)—105 volts.

Total H.T. current (measured at tag 7 L.S. panel)—62 mA.

Current through screen potentiometer (R4, R5), less screen currents—2.3 mA.

MODEL 851 SPARE PARTS LIST

Part No.	Description	Parts per Inst.	Finish	Retail List Price			Per
				£	s.	d.	
Instructions.							
28227	Instruction card	1	—	0	0	6	Each.
22291	Short wave guide	1	—	0	0	6	"
28147	Valve position label	1	—	0	0	6	Doz.
26111	Voltage adjustment label	1	—	0	0	1½	Each.
25821	Transit label... ..	1	—	0	0	1	"
CABINET PARTS AND FITTINGS							
83946C	Cabinet	1	Pol	3	19	0	Each.
8195	Rubber feet	4	—	0	0	8	Doz.
26519	Bottom panel plates	3	CdP	0	0	4	"
8651	Screws, securing plates	6	—	0	0	2	"
—	Baffle board, with insert nuts	1	Std	0	3	6	Each.
14922	Insert nut, for loudspeaker	4	CB	0	1	4	Doz.
9553	Screws, 1-in. } securing baffle board	3	—	0	0	2	"
15832	Screws, 1¼-in. }	4	—	0	0	2	"
28144	Wire mesh	1	AnBr	0	4	0	Each.
19273	Pin, securing wire mesh to baffle	4	—	0	0	1	Doz.
—	Felt for wire mesh, ½-in., S.1429, 225/82316	—	—	0	0	9	Sq. ft.
—	Felt for wire mesh, ¼-in., S.1459, 225/84316	—	—	0	1	0	"
13268	Bracket for cabinet back	1	CdP	0	0	1	Each.
24873	Bracket (larger) for cabinet back	1	GdP	0	0	1	Each.
8602	Screw, securing brackets	4	—	0	0	2	Doz.
28095B	Cabinet back, complete with hinge straps	1	—	0	2	9	Each.
9545	Screw } securing hinge straps to cabinet	2	WN	0	0	3	Doz.
21883	Washer }	2	WN	0	0	9	"
19896	Screw } securing cabinet back to brackets	2	ParB	0	0	1	Each.
19895	Washer }	2	ParB	0	0	4	Doz.
26105A	Tuning escutcheon	1	—	0	1	0	Each.
9545	Screw, securing escutcheon	4	BzP	0	0	3	Doz.
26106	Window	1	—	0	0	2	Each.
26128	Clamping rubber, long	2	—	0	0	4½	Doz.
26129	Clamping rubber, short	2	—	0	0	2	"
26107	Clamp } securing window	4	—	0	0	4½	"
14791	Screw }	4	WN	0	0	4	"
PLUGS, ETC.							
16289J	Plug, yellow	2	—	0	0	2	Each.
16289B	Plug, black	3	—	0	0	2	"
18889A	Carton for mains lead and plugs	1	—	0	0	1	"
7155	Cleat, for loudspeaker lead	1	WN	0	0	1	"
8602	Screw, securing cleat	1	WN	0	0	2	Doz.
CONTROLS							
24371A	Knob, tuner, large	1	—	0	0	7	Each.
24855B	Knob, "Tuner"	1	ChF	0	0	7	"
11773	Grub screw, securing "Tuner" knob	1	WN	0	0	5	Doz.
17054AA	Knob, "Volume" and On/Off	1	ChF	0	0	7	Each.
17054Z	Knob, "Wave-Band"	1	ChF	0	0	7	"
11805	Screw, P.K., securing knobs	2	—	0	0	6	Doz.
27748B	Knob, "Tone"	1	ChF	0	0	6	Each.
11773	Grub screw, securing "Tone" knob	1	WN	0	0	5	Doz.
LOUDSPEAKER							
24460N	Loudspeaker	1	—	1	0	0	Each.
11543Q	C.K.I field coil	1	—	0	5	9	"
12947	Washer, felt	1	—	0	0	2	"
21456	Washer	3	—	0	0	4	Doz.
26308	Hum coil	1	—	0	0	7½	Each.

Part No.	Description	Parts per Inst.	Finish	Retail List Price	Per
LOUDSPEAKER—continued					
				£ s. d.	
21966A	Terminal panel, with six tags	1	—	0 1 0	Each.
21968	Top plate	1	CdP	0 1 0	"
28055	Stud, securing top plate to yoke	4	WN	0 0 1	"
24460M	Cone chassis, with four studs and four brackets	1	CdP	0 2 6	"
11627	Nut, securing cone chassis to magnet	4	WN	0 0 6	Doz.
25224A	Connection panel, with two tags	1	—	0 0 1	Each.
7237	Tag	2	—	0 0 4	Doz.
13810	Rivet, securing panel to chassis	2	—	0 0 3	"
24461B	Speech coil and cone	1	—	0 3 0	Each.
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.
25204	Felt strip	1	—	0 0 1½	Each.
26515	Stop	1	BME n	0 0 6	Doz.
25022	Sleeve } securing stop to magnet core	1	—	0 0 6	"
25023	Screw	1	HdCB	0 0 6	"
11213	Washer } securing loudspeaker to insert nuts in baffle board ...	4	ParB	0 0 2	"
1021		4	WN	0 0 3	"
RADIO UNIT					
26100V	Radio unit	1	—	9 10 0	Each.
25631	Bolt	4	WN	0 0 9	Doz.
10173C	Spring washer } securing radio unit	4	—	0 0 2	"
23097	Washer	4	WN	0 0 3	"
11205	Transit bolt	2	RedHd	0 0 2	"
10173	Spring washer	2	—	0 0 2	"
24778	Plate	2	WN	0 0 6	"
INDUCTANCES					
23921J	{ L1—S.W. aerial coil } L2—M.W. aerial coil } aerial coil assembly	1	—	0 2 9	Each.
23921K	{ L3—L.W. aerial coil } L5—S.W. anode coil } anode coil assembly	1	—	0 3 0	"
24096B	{ L6—M.W. anode coil } L7—L.W. anode coil }	1	—	0 0 3	"
23921L	L8—Frequency stabilizing coil	1	—	0 3 6	"
24282E	{ L9—S.W. oscillator grid coil } L10—M.W. oscillator grid coil } L11—L.W. oscillator grid coil } L12—S.W. oscillator anode coil } L13—M.W. oscillator anode coil } L14—L.W. oscillator anode coil }	1	—	0 3 6	"
24282H	{ L16—Primary 1st I.F. transformer } L17—Secondary 1st I.F. transformer } L18—Primary 2nd I.F. transformer } L19—Secondary 2nd I.F. transformer }	1	—	0 3 6	"
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.
24282F	IFT1, 1st I.F. transformer, complete with L16, L17, R24, TC12 and TC13	1	—	0 7 0	"
22535E	Screen, with insulating bush... ..	1	—	0 0 9	"
16757	Insulating bush	1	—	0 0 1	"
24282J	IFT2, 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.
24355C	T1—Output transformer	1	—	0 4 9	Each.
10606	Screw, P.K., securing T1	2	—	0 0 7	Doz.
26120D	T2—Mains transformer	1	—	0 15 6	Each.
26124B	Terminal panel, with tags and screws	1	—	0 0 4½	"

Part No.	Description	Parts per Inst.	Finish	Retail List Price			Per
INDUCTANCES—continued							
14512	Tag	3	—	£	s.	d.	Doz.
14511	Nut	3	—	0	0	5	"
11228	Terminal screw	3	WN	0	0	4	"
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	"
RESISTANCES							
24150K	R2—75,000 ohms	1	—	0	0	9	Each.
19105AK	R4—23,000 ohms (no alternative)	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 (no alternative)	1	—	0	2	0	"
24150BA	R20—1,000 ohms (SL)	1	—	0	1	0	"
24150BF	R21—7,500 ohms (SL)	1	—	0	1	0	"
24150BL	R22—50,000 ohms (SL)	1	—	0	1	0	"
24150F	R23—10,000 ohms	1	—	0	0	9	"
19202P	R24—1 megohm	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 mmfd.	1	—	0	0	9	Each.
24900V	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 mmfd.	1	—	0	0	9	"
22330CP	C7—0.0035 mfd. (VSL)	1	—	0	2	6	"
22330AL	C8—0.00035 mfd. (SL)	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 mmfd.	1	—	0	0	9	"
24900N	C12—0.01 mfd.	1	—	0	1	0	"
22170B	C13—100 mmfd.	1	—	0	0	9	"
22170AE	C14—0.00035 mfd.	1	—	0	0	9	"
16250D	C15—25 mfd., 12v. electrolytic	1	—	0	2	6	"
26174A	C16—4 mfd., 570v. electrolytic, with C23, C24, C30 and C34	1	—	0	7	6	"
12619	Screw, P.K., securing electrolytic condenser block	4	—	0	0	6	Doz.
26300W	C17—0.05 mfd.	1	—	0	1	3	Each.
24900V	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	"
—	C23—4 mfd., 570v. electrolytic, with C16	—	—	—	—	—	—
—	C24—8 mfd., 570v. electrolytic, with C16	—	—	—	—	—	—
22164F	C25—35 mmfd.	1	—	0	0	9	Each.
22330Z	C26—150 mmfd.	1	—	0	0	9	"
22164E	C27—23 mmfd.	1	—	0	0	9	"
24900E	C29—0.0023 mfd.	1	—	0	1	0	"
—	C30—4 mfd., 570v. electrolytic, with C16	—	—	—	—	—	—

Part No.	Description	Parts per Inst	Finish	Retail List Price	Per
CONDENSERS—continued					
24900W	C31—0.05 mfd.	1	—	£ 0 1 3	Each.
22001F	C33—0.001 mfd.	1	—	0 0 9	"
—	C34—4 mfd., 300 v. electrolytic, with C16	—	—	—	—
26300Q	C35—0.015 mfd.	—	—	0 1 0	Each.
24900W	C36—0.05 mfd.	—	—	0 1 3	"
23922D	TC1, TC2 and TC3—Triple pre-set condenser (aerial)	1	—	0 2 0	"
23922N	TC5 and TC6—Twin pre-set condenser (anode)	1	—	0 1 9	"
23922B	TC7, TC8 and TC9—Triple pre-set condenser (oscillator)	1	—	0 2 6	"
24027	Adjusting screw	8	AcD	0 0 3	Doz.
24025A	Trimmer Plate	8	—	0 0 1	Each.
11219	Screw	8	WN	0 0 3	Doz.
24058	Washer } securing trimmer plates	8	—	0 0 1	"
15938	Nut	8	WN	0 0 6	"
19050	Screw } securing above pre-set condensers	3	WN	0 0 3	"
3166	Washer, S.P.	3	WN	0 0 2	"
12640G	TC10 and TC11—Twin pre-set condenser	1	—	0 2 0	Each.
11743	Adjusting screw	2	AcD	0 0 8	Doz.
11221	Screw	2	WN	0 0 1	"
3166	Washer, S.P. } securing TC10 and TC11	2	—	0 0 2	"
11628	Nut	2	WN	0 0 4	"
22530H	TC12 and TC13—Trimmer condenser in IFT1	1	—	0 1 9	Each.
22530L	TC14 and TC15—Trimmer condenser in IFT2	1	—	0 1 9	"
25067	Adjusting screw	4	AcD	0 0 6	Doz.
26130C	VC1, VC2 and VC3—Three-gang condenser	1	—	0 12 6	Each.
25043	Stop pin	1	—	0 0 6	Doz.
26113	Bracket	1	AlSp	0 0 2	Each.
18310	Screw (4 BA hex. head) } securing bracket to front of condenser	2	WN	0 0 3	Doz.
3166	Washer, S.P.	2	—	0 0 2	"
21236	Rubber bush } securing three-gang condenser	3	—	0 0 1	Each.
6305	Washer	3	WN	0 0 1	Doz.
3167	Washer, S.P.	3	—	0 0 2	"
11627	Nut	3	WN	0 0 6	"
10611U	VC4—Tone control	1	—	0 3 6	Each.
12441	Nut, securing VC4	1	WN	0 0 1	"
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 3	Doz.
26154A	Plate, with bearing bush for intermediate gear	1	AlSp	0 0 4½	Each.
1021	Washer } securing plate to pillars on condenser	2	WN	0 0 3	Doz.
11627	Nut	2	WN	0 0 6	"
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	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	MGSp	0 0 3	Each.
13893	Screw, securing pointer to gear assembly	2	WN	0 0 8	Doz.
28091A	Tuning scale	1	—	0 3 0	Each.
26147	Clamp	1	BnEn	0 0 1	"
26147A	Clamp and rubber } securing tuning scale	1	BnEn	0 0 1	"
28092	Washer	2	WN	0 0 3	Doz.
11805	Screw, P.K.	4	—	0 0 6	"
26140A	Scale frame assembly	1	BnEn	0 2 3	Each.
28094	Rubber strip, long	3	—	0 0 6	Doz.
28093	Rubber strip, short	10	—	0 0 3	"

Part No.	Description	Parts per Inst.	Finish	Retail List Price	Per
CONDENSER DRIVE AND TUNING DETAILS—continued					
8777	Screw, P.K., securing scale frame assembly to chassis	4	—	£ 0 0 6	Doz.
26136A	Lampholders	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	—	0 0 7	Doz.
6461	Washer }	2	—	0 0 1	"
26150D	Indicator disc, with sprocket	1	Printed	0 0 9	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	"
28052A	Drive sprocket	1	CdP	0 0 6	Each.
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—Changeover switch, complete with nut and S.P. washer	1	—	0 5 3	Each.
8777	Screw, P.K., securing switch screen	2	—	0 0 6	Doz.
—	S3—Mains On/Off switch—see VR1				
VALVE HOLDERS, SCREENS, PANELS, LEADS, ETC.					
26005F	Valve holders	6	—	0 0 6	Each.
24981	Valves, screen base	4	CdP	0 0 1½	"
16353	Rivet, securing valve holders for V5 and V6	4	—	0 0 1	Doz.
16358	Rivet, securing valve holders and valve screen base	8	—	0 0 1	"
24982B	Valve screen	4	—	0 0 6	Each.
26112	Valve screen top	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 coil screens	6	—	0 0 6	Doz.
24013	Spacer	3	—	0 0 3	"
11531E	A. and E. panel, with two sockets	1	—	0 0 3	Each.
11531C	P.U. panel, with three sockets	1	—	0 0 3	"
13803	Rivet, securing panels	4	—	0 0 3	Doz.
25484	Panel for tone control	1	—	0 0 1	Each.
14519	Rivet, securing panel	4	—	0 0 1	Doz.
24095A	Panel, with two tags	1	—	0 0 2	Each.
15159	Tag	2	—	0 0 3	Doz.
12619	Screw, P.K., securing panel to top of three-gang condenser	1	—	0 0 6	"
22677D	Panel, with eight tags	1	—	0 0 6	Each.
26139	Backing panel	1	—	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 panels	5	—	0 0 6	Doz.
16576	Long tag	1	—	0 0 3	"
12619	Screw, P.K., securing long tag to screen of S1	1	—	0 0 6	"
11802	Tag, for voltage adjustment lead	1	—	0 0 3	"
19829	Tag, for fixed lead	1	—	0 0 2	"
24038	Valve top clip	4	—	0 0 1	Each.
7155	Cleat	4	WN	0 0 1	"
12619	Screw, P.K., for cleats	2	—	0 0 6	Doz.
16756	Insulation bush	2	—	0 0 1	Each.
16757	Insulation bush, larger	5	—	0 0 1	"
19063D	Mains lead	1	—	0 1 6	"
26118A	Loudspeaker lead	1	—	0 0 7½	"
23987F	Lamp lead	1	—	0 0 4	"

SPARE PARTS LIST

MODEL 852

Part No.	Description	Parts per Inst.	Finish	Retail List Price	Per
MODEL 852					
Instructions.					
28231	Instruction card	1	—	£ 0 0 6	Each.
22291	Short wave guide	1	—	0 0 6	"
28147	Valve position label	1	—	0 0 6	Doz.
26111	Voltage adjustment label	1	—	0 0 1½	Each.
25821	Transit label... ..	1	—	0 0 1	"
8936	Transfer, "Close lid whilst playing"	1	—	0 0 1	"
CABINET PARTS AND FITTINGS					
84277C	Cabinet	1	Pol	15 0 0	Each
9389	Dome for base... ..	4	Pol	0 0 1	"
—	Lid, with felt	1	Pol	3 1 0	"
9807A	Lid, hinge	1	BzP	0 1 6	"
9525	Lid, hinge screw	14	BzP	0 0 2	Doz.
6208Z	Lid, stay	1	BzP	0 6 6	Each.
9559	Lid, stay screw, to lid	2	BzP	0 0 4	Doz.
9561	Lid, stay screw, to body	2	BzP	0 0 2	"
84308A	Motor board	1	Pol	1 0 6	Each.
8684	Motor board, screw	4	BzP	0 0 6	Doz.
14670	Motor board, lifting knob	1	BzP	0 0 6	Each.
18884	Motor board, lifting knob screw	1	WN	0 0 4	Doz.
—	Baffle board, with insert nuts	1	Std	0 4 9	Each.
14922	Insert nut for loudspeaker	4	CB	0 1 4	Doz.
14832	Screw, 1¼-in. } securing baffle board	6	—	0 0 2	"
9530	Screw, 1½-in. }	4	—	0 0 2½	"
28226	Wire mesh	1	AnBr	0 5 6	Each.
19273	Pin, securing wire mesh to baffle	6	—	0 0 1	Doz.
—	Felt for wire mesh, ⅜-in., S1429, 225/82316	—	—	0 0 9	Sq. Ft.
—	Felt for wire mesh, ¼-in., S1459, 225/84316	—	—	0 1 0	"
—	Felt for lid, ⅛-in., S999, 225/85501	—	—	0 0 9	"
24873	Bracket for cabinet back	6	CdP	0 0 1	Each.
8602	Screw, securing brackets	12	—	0 0 2	Doz.
28099A	Cabinet back	1	—	0 4 9	Each.
19896	Screw } securing cabinet back	6	ParB	0 0 1	"
19895	Washer }	6	—	0 0 4	Doz.
26105A	Tuning escutcheon	1	—	0 1 0	Each.
9545	Screw, securing escutcheon	4	BzP	0 0 3	Doz.
26106	Window	1	—	0 0 2	Each.
26128	Clamping rubber, long	2	—	0 0 4½	Doz.
26129	Clamping rubber, short	2	—	0 0 2	"
26107	Spring clip } securing window to escutcheon... ..	4	—	0 0 4½	"
14791	Screw }	4	WN	0 0 4	"
CONTROLS					
24371A	Knob, tuning, large	1	—	0 0 7	Each.
24855B	Knob, "Tuner"	1	ChF	0 0 7	"
11773	Grub screw, securing "Tuner" knob	1	WN	0 0 5	Doz.
17054AA	Knob, "Volume"	1	ChF	0 0 7	Each.
17054Z	Knob, "Wave Band"	1	—	0 0 7	"
11805	Screw, P.K., securing knobs	2	—	0 0 6	Doz.
27748B	Knob, Tone	1	—	0 0 6	Each.
11773	Grub screw, securing tone knob	1	WN	0 0 5	Doz.
17054Y	Knob, "Int. Ext. Speaker"	1	GF	0 0 7	Each.
11805	Screw, P.K., securing knob	1	—	0 0 6	Doz.
MOTOR BOARD FITTINGS					
21940B	Turntable, with felt, friction band and spring ring	1	BzSp	0 5 6	Each.
3569	Felt	1	Brown	0 0 6	"
282	Friction band	1	—	0 0 2	"
13869	Spring ring	1	—	0 0 6	Doz.
1002	Turntable clip	1	ChP	0 1 0	"
22900A	Motor, complete with fixing screws	1	—	1 15 0	Each.
34/16	Motor securing screw	3	WN	0 0 6	Doz.
KK1/18	Motor securing washer	3	WN	0 0 3	"

Part No.	Description	Parts per Inst.	Finish	Retail List Price	Per
MOTOR BOARD FITTINGS—continued					
34/14	Motor securing washer, rubber ...	6	—	£ 0 0 9	Doz.
34/15	Motor securing sleeve, rubber ...	3	—	0 0 9	„
KK1/26	Top plate, with T.T. spindle bush and pin for regulator lever ...	1	—	0 1 9	Each.
M/1/9	Screw securing top plate ...	4	WN	0 0 1	Doz.
34/36	Split pin	1	—	0 0 3	Doz.
34/37	Spring washer } securing regulator spindle ...	1	—	0 1 6	„
15/19	Washer	1	WN	0 0 6	„
KK7/6	Regulator spindle and lever ...	1	WN	0 0 3	Each.
KK7/7	Swivel with pin, pad cups, lever and bush ...	1	—	0 0 9	„
JJ7/7	Felt pad ...	2	—	0 0 6	Doz.
L3/4	Washer } securing bush of swivel assembly to pin of top plate ...	1	—	0 0 1	„
JJ7/11	Split pin	1	—	0 0 3	„
KK7/5	Spring for regulator lever ...	1	—	0 0 9	„
D1/11	Felt washer for turntable spindle ...	1	—	0 0 3	„
HH1/10	Cover for felt washer ...	1	—	0 0 6	„
KK4/4	Turntable spindle, complete ...	1	—	0 3 0	Each.
E4/4	Turntable spindle, packing washer ...	1	—	0 0 1	Doz.
3540	Ball bearing ...	1	—	0 0 1	„
JJ1/7	Thrust plate ...	1	—	0 1 3	„
15048	Soldering tag ...	1	—	0 0 4	„
11326	Screw securing thrust plate ...	4	—	0 0 3	„
JJ3	Rotor and spindle, complete ...	1	—	0 7 6	Each.
249	Ball bearing ...	1	—	0 0 1	Doz.
AC9/1996	End cover ...	1	—	0 1 0	Each.
AC9/1993	End cover, plate ...	1	—	0 0 6	„
11327	Screw securing cover plate to end cover ...	5	—	0 0 3	Doz.
13713	Screw securing end cover ...	4	—	0 0 6	„
1/9	Bearing screw ...	1	—	0 0 6	„
HH1/4	Thrust disc ...	1	—	0 0 3	„
KK2/1	Stator, complete ...	1	—	0 12 6	Each.
JJ1/10	Stator securing screw ...	2	—	0 0 1	„
JJ5/3	Governor sleeve and disc ...	1	—	0 1 3	„
JJ5/2	Governor collar ...	1	—	0 0 6	„
M378	Governor ball ...	3	—	0 0 3	„
JJ5/1	Governor spring ...	3	—	0 0 6	Doz.
M529	Washer } securing ball to spring ...	3	—	0 0 3	„
M130	Screw	3	—	0 0 3	„
M130	Screw } securing spring to collar ...	3	—	0 0 3	„
M198	Washer	3	—	0 0 2	„
M129	Screw, securing collar to spindle ...	1	—	0 0 3	„
21911A	Speed regulator ...	1	BzP	0 0 6	Each.
13387	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.
293	CW—pawl block ...	1	—	0 0 4	„
280	Rivet, securing CW to L3 ...	1	WN	0 0 6	Doz.
237A	L3—pawl lever, or stop lever, with CW ...	1	—	0 0 6	Each.
298	Friction washer under L3 ...	1	—	0 0 2	Doz.
245	Stop screw, limiting movement of L3 ...	1	WN	0 0 1	Each.
297	BR—spring washer ...	1	WN	0 0 6	Doz.
296	Isle of Man washer ...	1	WN	0 0 1	Each.
1552	Screw ...	1	WN	0 0 1	„
15985A	L2, L6—Brake lever ...	1	BzP	0 1 1	„
3083	Rubber sleeve, on L2 ...	1	—	0 0 6	Doz.
299	Friction washer, under L2, L6 ...	1	—	0 0 2	„
11328	AS—Adjusting screw ...	1	WN	0 0 2	„
11629	Adjusting nut ...	1	WN	0 0 6	„
231A	L4—Rocking lever ...	1	WN	0 0 4	Each.
240	Rivet, securing rocking lever ...	1	WN	0 0 4	Doz.
232	L5—Switch operating lever ...	1	WN	0 0 2	Each.
1022	Washer between L4 and L5 ...	1	WN	0 0 2	Doz.
241	Rivet, securing L5 to base plate ...	1	WN	0 0 1	Each.
233	On/Off lever ...	1	BzP	0 0 7	„
6304	Spring washer } securing On/Off lever ...	1	WN	0 0 4	Doz.
5441	Rivet	1	WN	0 0 8	„

Part No.	Description	Parts per Inst.	Finish	Retail List Price	Per
MOTOR BOARD FITTINGS—continued					
234A	H.B. hand stop lever, with leather	1	BzP	£ s. d. 0 0 7	Each.
9403	Leather	1	—	0 0 2	Doz.
243	Pivot for H.B.	1	WN	0 0 3	"
9040	SPI—Spring	1	—	0 0 2	Each.
10920	SP2—Spring	1	—	0 0 1	"
8780C	Mains On/Off switch	1	—	0 2 0	"
2753	Screw, securing switch to base plate	2	WN	0 0 6	Doz.
2418	Screw, securing auto brake	3	WN	0 0 3	"
246	Indicator plate	1	BzP	0 0 4	Each.
2418	Screw, securing plate	2	BzP	0 0 4	Doz.
21490F	S.4 Ext. L.S. switch	1	—	0 2 0	Each.
26637	Bracket for S.4	1	CdP	0 0 1½	"
14724	Screw	2	BzP	0 0 1½	"
3166	Washer, S.P. } securing bracket	2	—	0 0 2	Doz.
11628	Nut	2	WN	0 0 4	Each.
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	Screw, securing support	3	WN	0 0 2	Doz.
18899	Needle box clip	1	BzP	0 0 6	Each.
2418	Screw, securing clip	2	BzP	0 0 4	Doz.
15969A	Pick-up rest and felt	1	—	0 0 9	Each.
15970	Felt	1	Brown	0 0 2	Doz.
2418	Screw, securing rest	2	BzP	0 0 4	"
28060C	Pick-up	1	—	1 12 0	Each.
17495	Trade mark insert	1	—		
28050	Pick-up arm	1	—	0 1 6	"
28063A	Pick-up head assembly	1	—	0 10 0	"
28063	Pick-up head moulding	1	—	0 0 9	"
16101	Pole piece...	2	WN	0 1 9	"
16113	Pole piece...	4	WN	0 0 8	Doz.
16109	Armature	1	CdP	0 0 6	Each.
10092	Armature pivot	2	—	0 0 1	Doz.
16102	Damping rubber	1	—	0 0 1	Each.
16104	Damping rubber clamp	1	WN	0 0 5	Doz.
16126	Screw, securing clamp	2	—	0 0 4	"
17856	Needle screw	1	BzSp	0 0 1½	Each.
16110	Magnet	1	—	0 2 1	"
16111A	Coil	1	—	0 1 4	"
16119	Insulating sleeve for coil leads	3	—	0 0 10	Doz.
16106	Lead clamp	1	WN	0 0 7	"
16118	Bracket, supporting lead cover	1	CB	0 0 1	Each.
11238	Screw, securing bracket and lead clamp	1	BzP	0 0 2	Doz.
21036	Fibre washer	1	—	0 0 8	"
16115	Rubber pad	2	—	0 0 6	"
16112	Screw, securing pick-up head to arm	1	WN	0 0 1	Each.
19156A	Pick-up lead	1	—	0 1 3	"
16700	Lead cover	1	—	0 1 3	Doz.
18769	Bracket } supporting rear end of lead cover	1	BME _n	0 0 1½	Each.
11237	Screw		BzP	0 0 5	Doz.
16122	Support pillar	1	—	0 0 11	Each.
16121	Fixing base	1	—	0 0 8	"
16107A	Spring and anchor rings	1	—	0 0 2	"
16108	Spring anchor	1	—	0 0 6	Doz.
16114	Pivot screw, for pick-up arm	1	BzP	0 0 1½	Each.
3519	Ball	8	—	0 0 1½	Doz.
17001	Spacer, for balls	1	WN	0 0 3	Each.
16128	Stop screw	1	BzP	0 0 8	Doz.
16127A	Brake arm and pin	1	—	0 0 11	Each.
11228	Screw, securing brake arm	3	—	0 0 4	Doz.
9547	Screw, securing pick-up	3	—	0 0 4	"
LOUDSPEAKER					
24460N	Loudspeaker (as on Table Model 851)	1	—	1 0 0	Each.
11213	Screw } securing loudspeaker to insert nuts in baffle	4	ParB	0 0 2	Doz.
1021	Washer		WN	0 0 3	"

Part No.	Description	Parts per Inst.	Finish	Retail List Price			Per
AT BACK OF CABINET							
21406B	Bracket, with A. and E. sockets and lead	1	—	£	s.	d.	Each.
22287A	A. and E. lead, with two plugs	1	—	0	1	3	"
16289J	Aerial plug, yellow	1	—	0	0	2	"
16289B	Earth plug, black...	1	—	0	0	2	"
9561	Screw, securing bracket	2	WN	0	0	2	Doz.
26635A	Bracket with panel and sockets for Ext. LS. switch and sockets for Ext. LS.	1	—	0	1	6	Each.
11531G	Panel, with three sockets	1	—	0	0	3	"
13803	Rivet, securing panel to bracket	2	—	0	0	3	Doz.
19104AA	50 ohms	1	—	0	1	0	Each.
9561	Screw, securing bracket to cabinet	2	WN	0	0	2	Doz.
LEADS, PLUGS, ETC.							
22289B	Motor lead, with three tags	1	—	0	0	9	Each.
11802	Tag	1	—	0	0	3	Doz.
19829	Tag	2	—	0	0	2	"
25297D	Switch earth lead, with one tag	1	—	0	0	3	Each.
15159	Tag	1	—	0	0	3	Doz.
26176C	Ext. loudspeaker lead	1	—	0	0	9	Each.
23991C	Ext. LS. switch lead	1	—	0	0	6	"
26179A	Three-pin panel	2	—	0	0	4½	"
24150S	7,500 ohm resistance	1	—	0	0	9½	"
16289J	Plug, yellow	2	—	0	0	2	"
16289B	Plug, black	2	—	0	0	2	"
8227A	Mains plug	1	—	0	1	7	"
16578	Cleat	2	WN	0	0	6	Doz.
8602	Screw	2	—	0	0	2	"
7155	Cleat	1	WN	0	0	1	Each.
2418	Screw	1	WN	0	0	3	Doz.
18888A	Carton for mains lead and plugs	1	—	0	0	1	Each.
RADIO UNIT							
26100X	Radio unit	1	—	10	6	0	Each.
25631	Bolt 2BA hex. head	4	WN	0	0	9	Doz.
10173C	Spring washer	4	—	0	0	2	"
23097	Washer	4	WN	0	0	3	"
11206	Transit screw	2	Red hd.	0	0	3	"
10173	Spring washer	2	—	0	0	2	"
24778	Plate	2	WN	0	0	6	"
Radio unit is similar to that on Model 851 (26100V), with the exception of the following:—							
28233A	Tuning scale	1	—	0	3	3	Each.
26600A	Scale frame assembly	1	BnEn	0	3	0	"
28094	Rubber strip, long	2	—	0	0	6	Doz.
28093	Rubber strip, short	6	—	0	0	3	"
26607	Clamp (replaces 26147)	1	BnEn	0	0	1	Each.
26608A	Indicator bracket and screen	1	CdP	0	0	6	"
26609	Washer plate	1	CdP	0	0	2½	Doz.
3166	Washer, S.P.	2	—	0	0	2	"
11219	Screw	2	WN	0	0	3	"
26610J	Indicator disc, with sprocket	1	Printed	0	0	9	Each.
26612	Bearing pin	1	WN	0	0	3	"
26613A	Bracket and clamp	1	CdP	0	0	4½	"
24369	Clamp	1	CdP	0	0	1	"
11219	Screw	4	WN	0	0	3	Doz.
3166	Washer, S.P.	4	—	0	0	2	"
26614	Plate	1	CdP	0	0	3	"
26136A	Lamp holder	1	—	0	0	9	Each.
26138B	Chain	1	—	0	0	4½	"
27956	Spring for chain	1	—	0	0	1	"
26005D	Visual tuning indicator socket and lead	1	—	0	2	3	"
26005B	V.T. indicator socket	1	—	0	0	6	"
26620A	V.T. indicator lead	1	—	0	1	0	"
19202P	R25—1 megohm	1	—	0	0	9	"
20217	Sleeve, for visual tuning indicator	1	—	0	0	2	"

" FINISH " CODE

AcD	...	...	...	...	Acid Dip.	ChF	...	...	...	...	Chrome Filled
AlSp	...	...	...	...	Aluminium Spray	CP	...	...	...	...	Copper Plate
AnBr	...	...	...	...	Antique Brass	GF	...	...	...	...	Gold Filled
BME	...	...	...	...	Black Matt Enamel	LBnEn	...	...	...	...	Light Brown Enamel
BnEn	...	...	...	...	Brown Enamel	MGSp	...	...	...	...	Matt Gold Spray
BzP	...	...	...	...	Bronze Polish	Pol	...	...	...	...	Polished
BzSp	...	...	...	...	Bronze Spray	ParB	...	...	...	...	Parkerised Black
CB	...	...	...	...	Camera Black	Std	...	...	...	...	Standard
CdP	...	...	...	...	Cadmium Plate	WN	...	...	...	...	White Nickel

In order to expedite delivery of spare part orders, please quote :—

1. Model number and serial number.
2. Spare part number, description, and " finish " as given in the above list.
3. Quantity required.

Unless full particulars are quoted, delay in execution of orders must inevitably result.

Order spare parts from :—

E.M.I. SERVICE, LTD.,

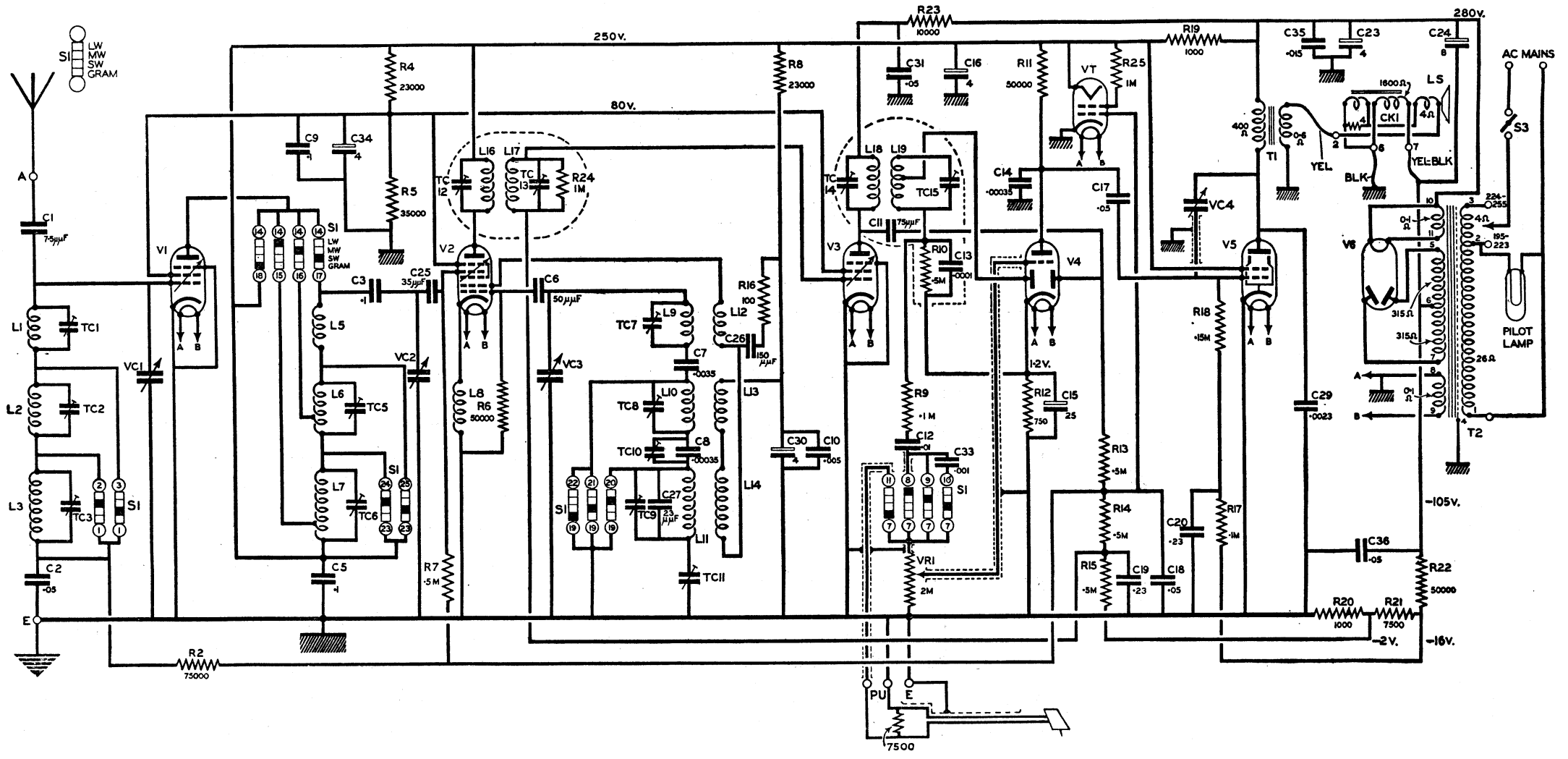
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HAYES, MIDDLESEX.

Telephone : Southall 2468.

Telegraphic Address : Service, Hayes, Middlesex.

The Company reserves the right to make any modifications without notice.



The visual tuning indicator (VT), R25, and the Pick-up and shunt resistance are fitted to Model 852 only.

For extra L.S. switch and socket diagram (Model 852) see page 4.