

# SERVICE DATA.

## COMPONENTS NOT SHOWN ON CIRCUIT DIAGRAM.

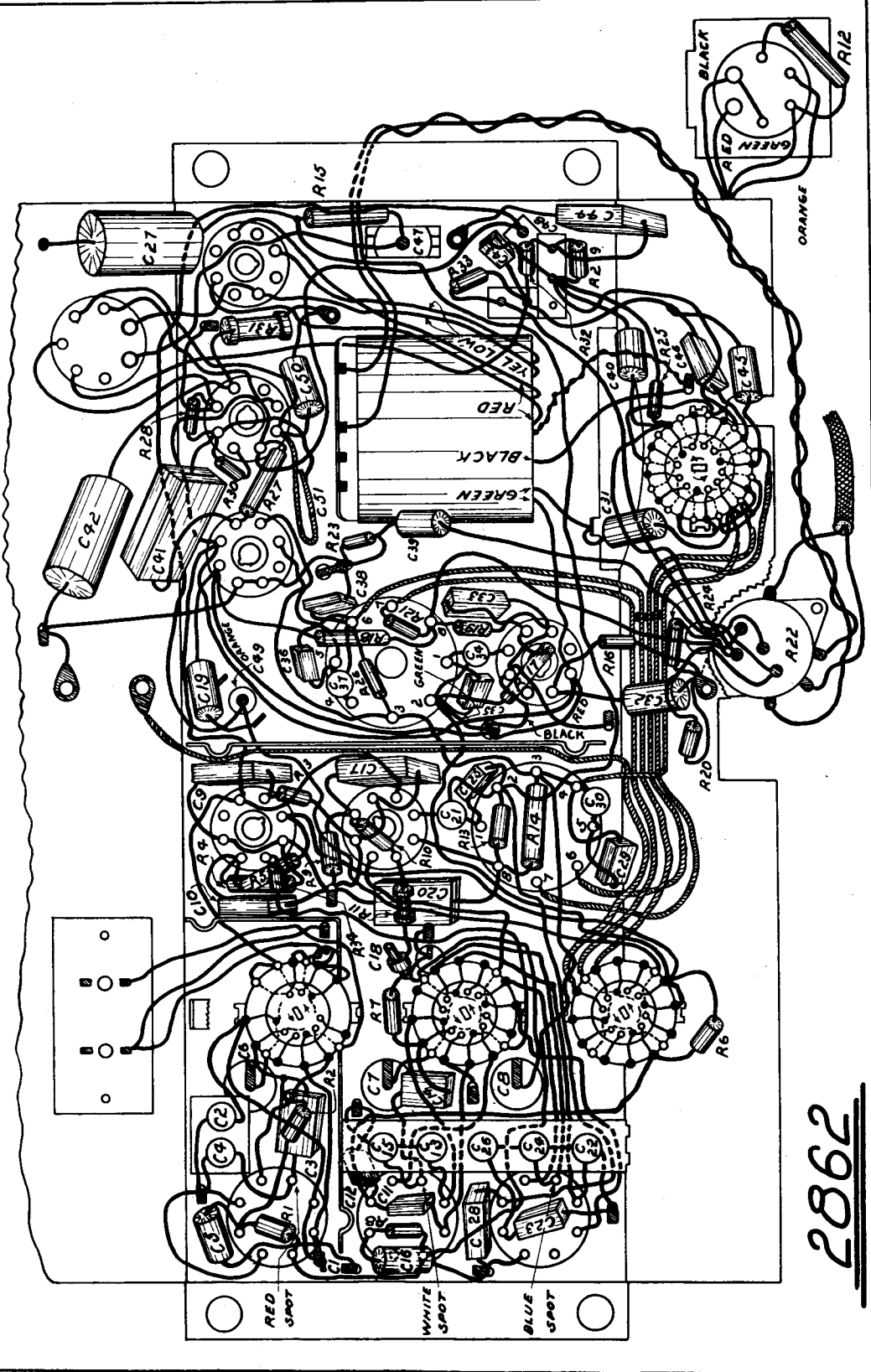
No. on Dial Drawing.	Description.	Code No.	Price.	No. on Dial Drawing.	Description.	Code No.	Price.
—	Badge, Philips Emblem .....	24/447	1/-	—	Grommet, rubber, power cord ..	32/313	2d.
—	Bands, rubber, dial glass .....	33/316	3d.	—	Knob, tuning control .....	32/229	7d.
—	Base, valve shield .....	24/655	3d.	—	Lamp, dial illuminating (red) ...	92/239	7d.
7	Bracket, dial mounting .....	23/441	6d.	—	Lamp, dial illuminating (green) ..	92/240	7d.
11	Bracket, gang, cable supporting ..	23/443A	1/6	—	Locking ring, amphenol socket ..	24/666	1d.
6	Bracket, slide rod adjusting .....	23/444	6d.	3	Pointer, glass .....	33/524	6d.
—	Bracket, tuning spindle support- ing .....	24/442	6d.	1	Rod, slider supporting .....	24/252	1/6
—	Bracket, tuning indicator support- ing .....	23/469	9d.	—	Shield, valve .....	24/663	7d.
—	Bracket, tuning indicator socket ..	23/478	8d.	—	Silk, baffle .....	35/232	4/6
—	Bush, chassis mounting .....	24/299	2d.	—	Socket, 6 pin amphenol .....	34/515	5d.
—	Cabinet, No. 28 .....	33/670	£7/5/-	—	Socket, 7 pin amphenol .....	34/542	6d.
—	Card, knob indicating .....	33/226	2/-	—	Socket, octal, amphenol .....	34/521	6d.
4	Clamp and slider, pointer trans- port .....	24/519	2/6	—	Socket, dial lamp with bracket ..	93/258	3/3
—	Clicker plate, tone control .....	72/219	2/-	—	Speaker, with transformer .....	45/344	30/-
8	Cord, dial drive .....	35/313	5d.	—	Spindle, tuning control .....	24/242	9d.
—	Cord, power supply .....	26/211	1/9	—	Spindle, volume control .....	24/958	6d.
5	Counterweight, dial pointer .....	24/475	3d.	9	Spring, cord tension .....	25/211	2d.
—	Cover, tuning indicator socket ..	23/519	7d.	—	Switch assembly, wave change ...	74/213	10/6
10	Drum, dial drive .....	32/226	2/8	—	Switch section, tone control ....	73/219	2/3
—	Escutcheon, moulded .....	32/256	2/11	—	Terminal, pickup, black .....	34/564	6d.
—	Glass, dial printed .....	33/571	6/3	—	Terminal, pickup, red .....	34/596	6d.
—	Grommet, rubber, chassis mount- ing .....	32/311	2d.	—	Transformer, speaker output .....	44/327	7/-
				2, A, 12, 13, }			
				14, 15 }	Wire assembly, dial drive ...	26/323	3/-

(PRICES QUOTED SUBJECT TO CHANGE WITHOUT NOTICE.)



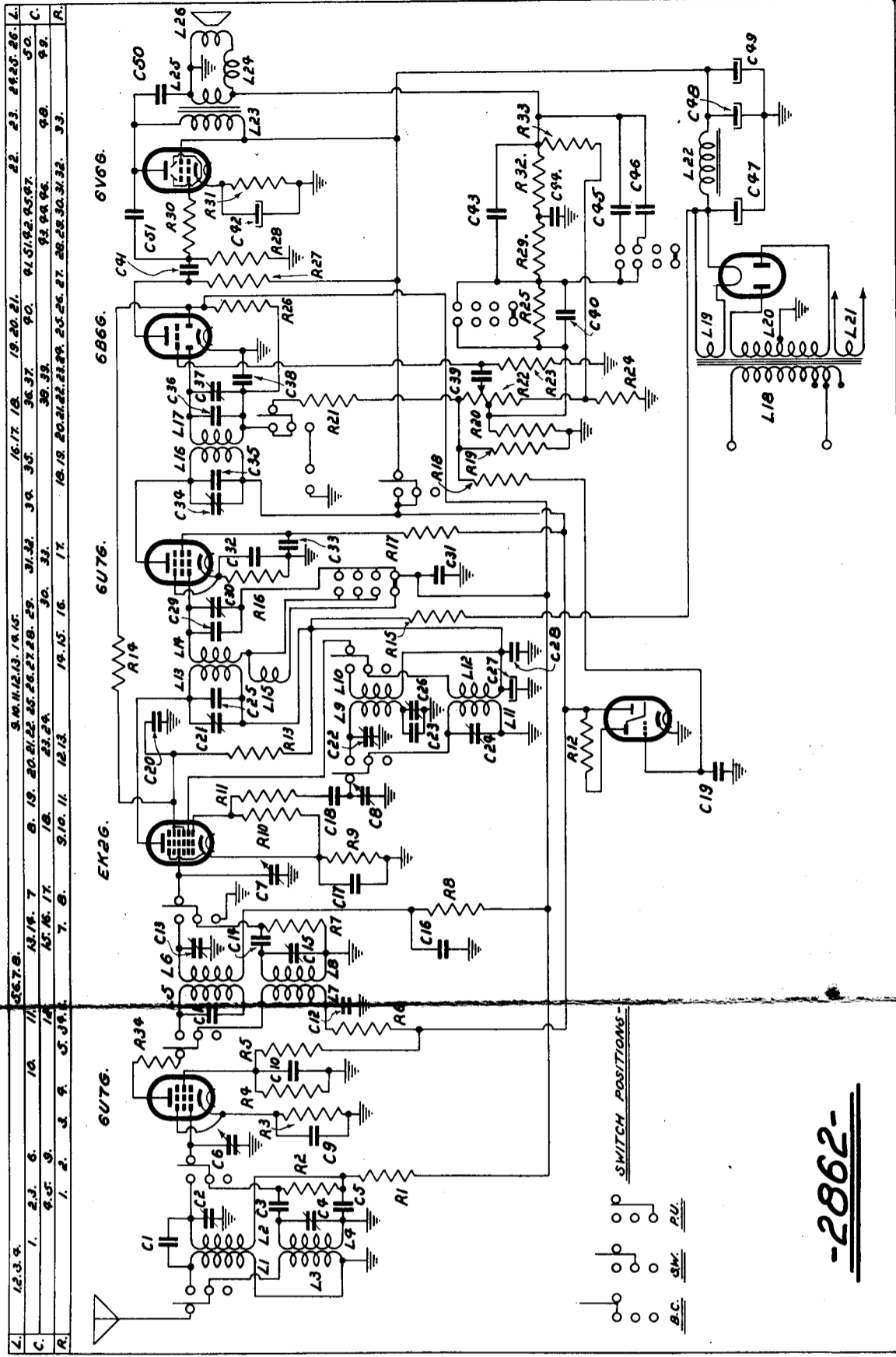
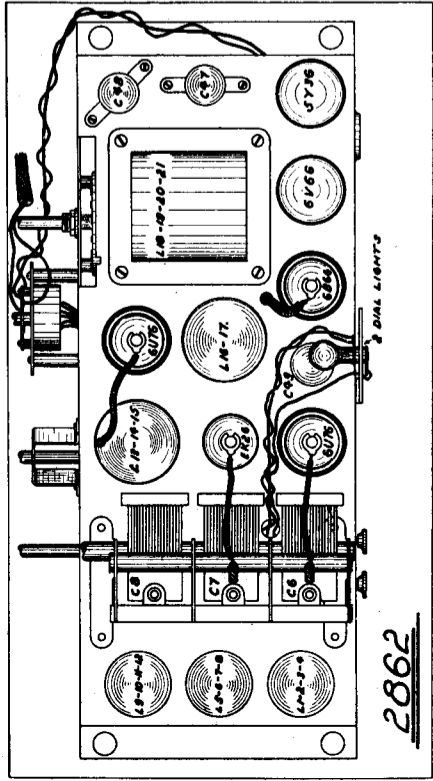
SERVICE DATA.

C.	1. 5-28. 11. 3. 9. 2. 7. 6. 18. 10. 29. 9. 17. 37. 13. 36. 99. 38. 39. 51. 50. 90. 93. 99.
A.	15. 23. 12. 13. 15. 26. 22. 9. 8. 19. 20. 21. 30. 26. 32. 35. 39. 33. 41. 42. 31. 45. 46. 47. 27. 48. 2. 6. 7. 34. 11. 59. 9. 10. 13. 14. 20. 3. 26. 17. 16. 22. 18. 19. 21. 24. 23. 30. 27. 28. 32. 25. 31. 33. 29. 15. 12. 14.

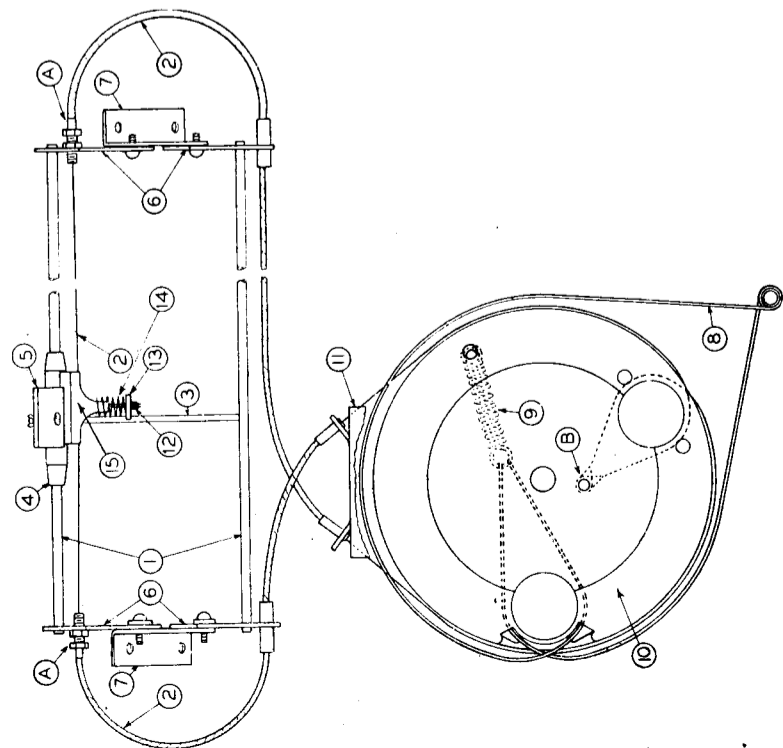


2862

CHASSIS LAYOUT DIAGRAM.



DIAL PARTS DIAGRAM.



# PHILIPS RADIOPLAYER

## MODEL 2862.

A.C. OPERATED FOR WORLD-WIDE RECEPTION

### SPECIFICATIONS.

(Subject to change without notice.)

<b>Voltage Rating (Power Supply)</b>	220-260 volts A.C. (Also special 110 volt Models)
<b>Tuning Range</b>	1600 to 540 Kc/s. 8 to 22 Mc/s.
<b>Intermediate Frequency</b>	472.5 Kc/s.

### VALVE EQUIPMENT.

<b>R.F. Amplifier</b>	6U7G R.F. Penthode.
<b>Frequency Converter</b>	EK2G Octode.
<b>I.F. Amplifier</b>	6U7G R.F. Penthode
<b>Detector and Audio</b>	6B6G Duo-diode Triode.
<b>Power Amplifier</b>	6V6G Beam Tetrode.
<b>Tuning Indicator</b>	6U5
<b>Dial Lamp</b>	6.5 volt 0.64A. (see parts list).

### REMOVING THE CHASSIS.

Suggested removal procedure is as follows:

- Remove power plug from supply and withdraw speaker plug from chassis.
- Remove knobs at front of cabinet (recessed grub screws).
- Remove dial glass and mechanism by withdrawing the four screws securing the dial brackets at either end of the dial. If the dial glass is loose when the mechanism is released, the glass should be laid aside carefully to avoid damage or risk of breakage. The remaining mechanism is now laid with care on top of the chassis, with due attention to the fact that the flexible cable should not be kinked.
- Unscrew the four chassis mounting bolts.
- Slide chassis and dial mechanism complete, out of the cabinet.
- A reversal of the withdrawal procedure will suffice to restore the chassis to the cabinet. If the dial mechanism is unaltered, it will not require adjustment when it is finally re-fitted.

### DIAL CALIBRATION.

If the pointer does not indicate the correct position for a given station, the position of the pointer in relation to the gang condenser can be adjusted by loosening the

clamping screw on the pointer slider, and moving the slotted wire tension guide in relation to the pointer slider. After adjustment, tighten the clamping screw securely.

### VOLTAGE ANALYSIS.

Valve Type.	Plate Voltage.	Screen Voltage.	Bias Voltage.
6U7G	220	95	1.75
EK2G	190 (Osc. p. 190)	65	2.5
6U7G	220	95	1.75
6B6G	75	—	—
6V6G	200	225	10
5Y3G	310 volts A.C. per plate		

### NOTE:

The abovementioned voltage values, with the exception of bias voltages, are measured between the socket points indicated and chassis, with the receiver in the no signal condition and with the volume control at zero. Bias voltages are to be measured at the source of the voltage, as incorrect readings will otherwise be obtained. Voltages are measured with a 1,000 ohm per volt voltmeter and may vary as much as 10 per cent. from the figures quoted.

# SERVICE DATA.

## COMPONENT PARTS.

### CONDENSERS

(PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.)

No. on Diagram.	Value.	Code No.	Price.	No. on Diagram.	Value.	Code No.	Price.
C1	8 uuF	52/521	3d.	C28	0.01 uF	52/311	4d.
C2	2.5 to 30 uuF	54/313	8d.	C29	80 uuF	52/239	6d.
C3	0.0045 uF	52/222	11d.	C30	2.5 to 30 uuF	54/313	8d.
C4	2.5 to 30 uuF	54/313	8d.	C31	0.05 uF	52/314	7d.
C5	0.05 uF	52/314	7d.	C32	0.05 uF	52/314	7d.
C6, C7, C8	Tuning gang	53/215	10/3	C33	0.01 uF	52/311	4d.
C9	0.01 uF	52/311	4d.	C34	2.5 to 30 uuF	54/313	8d.
C10	0.01 uF	52/311	4d.	C35	80 uuF	52/239	6d.
C11	80 uuF	52/239	6d.	C36	80 uuF	52/239	6d.
C12	0.01 uF	52/311	4d.	C37	2.5 to 30 uuF	54/313	8d.
C13	2.5 to 30 uuF	54/313	8d.	C38	100 uuF	52/811	6d.
C14	0.0045 uF	52/222	11d.	C39	0.05 uF	52/314	7d.
C15	2.5 to 30 uuF	54/313	8d.	C40	0.1 uF	52/316	6d.
C16	0.05 uF	52/314	7d.	C41	0.1 uF	52/317	7d.
C17	0.01 uF	52/311	4d.	C42	25 uF	52/416	1/3
C18	100 uuF	52/241	7d.	C43	0.001 uF	52/218	8d.
C19	0.02 uF	52/346	8d.	C44	0.07 uF	52/345	11d.
C20	0.01 uF	52/311	4d.	C45	0.02 uF	52/346	8d.
C21	2.5 to 30 uuF	54/313	8d.	C46	0.01 uF	52/311	4d.
C22	2.5 to 30 uuF	54/313	8d.	C47	16 uF	52/432	3/9
C23	330 uuF	52/243	7d.	C48	16 uF	52/432	3/9
C24	2.5 to 30 uuF	54/313	8d.	C49	16 uF	52/429	3/9
C25	80 uuF	52/239	6d.	C50	0.002 uF	52/333	7d.
C26	2.5 to 30 uuF	54/313	8d.	C51	25 uuF	52/528	3d.
C27	8 uF	52/430	2/9				

### RESISTORS.

No. on Diagram.	Value.	Code No.	Price.	No. on Diagram.	Value.	Code No.	Price.
R1	0.1 megohm	62/215	4d.	R19	0.25 megohm	62/232	4d.
R2	0.5 megohm	62/216	4d.	R20	10,000 ohm	62/213	4d.
R3	200 ohm	62/240	6d.	R21	0.25 megohm	62/232	4d.
R4	30,000 ohm	62/425	5d.	R22	Pot. with switch (tapped)	63/613	5/9
R5	25,000 ohm	62/423	5d.	R23	2 megohm	62/222	4d.
R6	1,000 ohm	62/234	4d.	R24	25 ohm	62/223	6d.
R7	0.5 megohm	62/216	4d.	R25	50,000 ohm	62/212	4d.
R8	2 megohm	62/222	4d.	R26	2 megohm	62/222	4d.
R9	500 ohm	62/224	4d.	R27	0.25 megohm	62/415	5d.
R10	50,000 ohm	62/212	4d.	R28	0.5 megohm	62/216	4d.
R11	25 ohm	62/223	6d.	R29	10,000 ohm	62/213	4d.
R12	5 megohm	62/431	6d.	R30	50,000 ohm	62/212	4d.
R13	0.15 megohm	62/233	4d.	R31	250 ohm	64/239	6d.
R14	10 megohm	62/434	6d.	R32	1,000 ohm	62/234	4d.
R15	25,000 ohm	62/423	5d.	R33	50 ohm	62/211	6d.
R16	200 ohm	62/240	6d.	R34	25 ohm	62/223	6d.
R17	60,000 ohm	62/413	5d.				
R18	0.5 megohm	62/419	6d.				

### COILS.

No. on Diagram.	Description.	Code No.	Price.	No. on Diagram.	Description.	Code No.	Price.
L1, L2, L3, L4	Aerial Coil	42/716	4/3	L18, L19, L20, L21	Power Transformer (240v.)	44/228	14/6
L5, L6, L7, L8				R.F. Coil			
L9, L10, L11, L12	Oscillator Coil	42/222	4/3		L18, L19, L20, L21	Power Transformer (110v.)	44/226
L13, L14, L15				1st Intermediate	42/326		
L16, L17	2nd Intermediate	42/423	7/3			L23, L25	Transformer, Speaker output

**IMPORTANT:** In ordering spare parts quote **CODE NUMBER ONLY**. If claiming free replacement under **GUARANTEE**, return defective parts **PROMPTLY** and quote **TYPE** and **SERIAL NUMBER** of RECEIVER.