

13,7-45 m

45-160 m

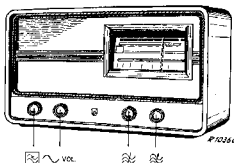
160-585 m

9636, Z = 5 Ω

110 V, 125 V, 145 V,

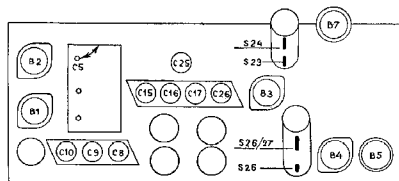
200 V, 225 V, 245 V

50 watt



| 13,7-45 m | A | 13,7-45 m | B | 160-585 m | B |
|------------------------|---|----------------------|---|---------------------|---|
| C3, C4, C5 max. | | 20,5 Mc/s | | C3, C4, C5 + 15° | |
| 452 kc/s-33000 pF-g1B2 | | C3, C4, C5 20,5 Mc/s | | 1740 kc/s | |
| S25-30 pF | | C15, C8 max. | | C26, C17, C10 max. | |
| S26, S27 max. | | | | -25 pF-aB2 | |
| S24-30 pF | | | | C5 | |
| S25 max. | | | | 600 kc/s | |
| S23-30 pF | | 45-160 m | B | 600 kc/s | |
| S24 max. | | C3, C4, C5 + 15° | | C3, C4, C5 600 kc/s | |
| S23-30 pF | | 6,1 Mc/s | | C5 | |
| S23 max. | | C25, C16, C9 max. | | C30 max. | |
| | | | | C3, C4, C5 + 15° | |
| | | | | 1740 kc/s | |
| | | | | C26, C17, C10 max. | |
| 160-585 m | D | | | | |
| 857 kc/s | | | | | |
| C3, C4, C5 | | | | | |
| 350 m | | | | | |

15° - 89 992 44.0

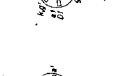
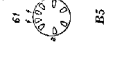
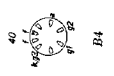
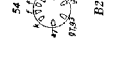
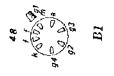
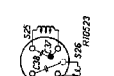
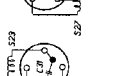
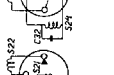
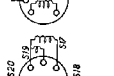
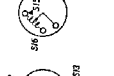
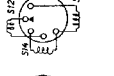
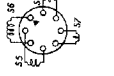
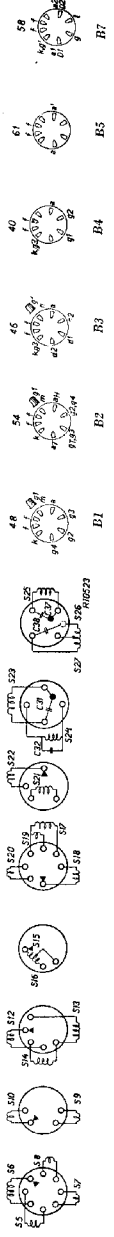
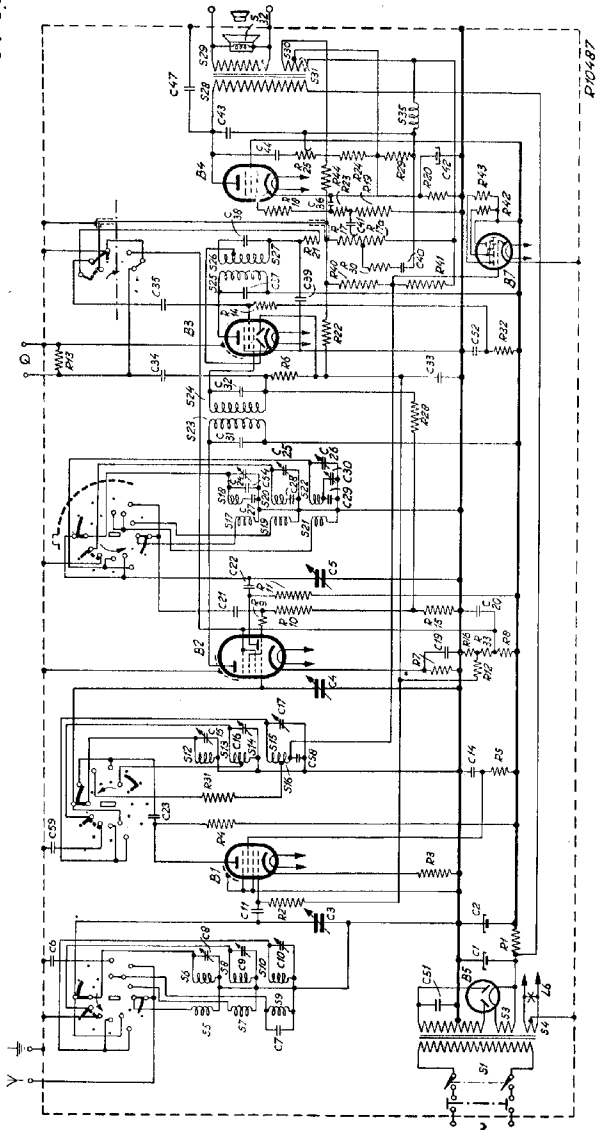


R10360

| | | | | | |
|-----|-----------|-------------|------|---------|-------------|
| C1 | 45 μF | 49 032 01.0 | R1 | 1090 Ω | 49 356 30.0 |
| C2 | 45 μF | 49 032 01.0 | R2 | 0,82 MΩ | 49 375 59.0 |
| C3 | 11-490 pF | | R3 | 39 Ω | 49 375 07.0 |
| C4 | 11-490 pF | 49 000 09.0 | R4 | 10000 Ω | 49 377 36.0 |
| C5 | 11-490 pF | | R5 | 0,15 MΩ | 49 375 50.0 |
| C6 | 10000 pF | 49 127 14.0 | R6 | 3,3 MΩ | 49 377 66.0 |
| C7 | 68 pF | 49 055 48.0 | R7 | 150 Ω | 49 375 14.0 |
| C8 | 20 pF | 49 005 85.2 | R8 | 50000 Ω | 49 377 48.0 |
| C9 | 20 pF | 49 005 85.2 | R9 | 220 Ω | 49 375 16.0 |
| C10 | 20 pF | 49 005 85.2 | R10 | 33000 Ω | 49 375 42.0 |
| C11 | 100 pF | 49 055 28.0 | R11 | 20000 Ω | 49 376 26.0 |
| C14 | 10000 pF | 49 128 57.0 | R12 | 5,6 MΩ | 49 377 69.0 |
| C15 | 20 pF | 49 005 85.2 | R13 | 47000 Ω | 49 375 44.0 |
| C16 | 20 pF | 49 005 85.2 | R14 | 47000 Ω | 49 375 44.0 |
| C17 | 20 pF | 49 005 85.2 | R15 | 22000 Ω | 49 375 40.0 |
| C19 | 10000 pF | 49 127 14.0 | R16 | 68000 Ω | 49 375 46.0 |
| C20 | 0,1 pF | 49 128 57.0 | R17 | 0,65 MΩ | 49 500 19.0 |
| C21 | 100 pF | 49 055 28.0 | R17a | 0,2 MΩ | |
| C22 | 150 pF | 49 055 30.0 | R18 | 1000 Ω | 49 375 24.0 |
| C23 | 220 pF | 49 055 32.0 | R19 | 1 MΩ | 49 376 60.0 |
| C24 | | 49 005 13.0 | R20 | 180 Ω | 49 376 15.0 |
| C25 | 20 pF | 49 005 85.2 | R21 | 47000 Ω | 49 375 44.0 |
| C26 | 20 pF | 49 005 85.2 | R22 | 1,5 MΩ | 49 376 42.0 |
| C27 | 5750 pF | 28 195 69.0 | R23 | 82000 Ω | 49 375 47.0 |
| C28 | 1600 pF | 49 080 34.0 | R24 | 1800 Ω | 49 375 27.0 |
| C29 | 400 pF | 49 057 00.0 | R25 | 0,35 MΩ | 49 470 31.0 |
| C30 | 125 pF | 28 212 07.0 | R28 | 5,6 MΩ | 49 377 69.0 |
| C31 | 100 pF | | R29 | 12000 Ω | 49 375 37.0 |
| C32 | 106 pF | | R30 | 12000 Ω | 49 375 37.0 |
| C33 | 47000 pF | 49 127 61.0 | R31 | 2700 Ω | 49 375 29.0 |
| C34 | 10000 pF | 49 127 57.0 | R32 | 47000 Ω | 49 375 44.0 |
| C35 | 10000 pF | 49 128 57.0 | R33 | 39000 Ω | 49 375 43.0 |
| C36 | 100 pF | 49 055 28.0 | R40 | 2,2 MΩ | 49 377 64.0 |
| C37 | 106 pF | | R41 | 2,2 MΩ | 49 377 64.0 |
| C38 | 113 pF | | R42 | 1 MΩ | 49 376 60.0 |
| C39 | 100 pF | 49 055 28.0 | R43 | 1,5 MΩ | 49 376 62.0 |
| C40 | 27000 pF | 49 127 19.0 | R44 | 0,82 MΩ | 49 375 59.0 |
| C41 | 3300 pF | 49 128 08.0 | | | |
| C42 | 25 pF | 49 020 00.0 | | | |
| C43 | 330 pF | 49 055 05.0 | | | |
| C44 | 4700 pF | 49 126 54.0 | | | |
| C47 | 1000 pF | 49 126 53.0 | | | |
| C51 | 22000 pF | 49 129 98.0 | | | |
| C52 | 0,22 pF | 49 128 45.0 | | | |
| C54 | 2,2 pF | 49 055 61.0 | | | |
| C58 | 47000 pF | 49 127 61.0 | | | |
| C59 | 47000 pF | 49 127 61.0 | | | |

| | B1 | B2 | B3 | B4 | B5 | B7 |
|-----|-----|------------------|-------|------|------|------------|
| | EF8 | ECH 3B | EBF 2 | EL 3 | AZ 1 | EM4 |
| Va | 150 | aH 220 aT 115 | 225 | 255 | | 20 |
| Vg2 | 170 | B0 | 85 | 225 | | 225 |
| Vk | 0,3 | 1,2 | 0 | 6,2 | | 0 |
| Ia | 7,6 | aH 1,4 aT 4,6 | 4,6 | 32 | | 0,2 0,1 |
| Ig2 | 0,2 | 2,2 | 1,5 | 3,1 | | 0,6 |

| | |
|--------------------|-------------|
| S1, S2, S3, S4 | A1 653 44.3 |
| S5, S6, S7, S8 | A1 638 61.1 |
| S9, S10 | A1 635 64.1 |
| S12, S13, S14 | A1 636 62.2 |
| S15, S16 | A1 635 65.1 |
| S17, S18, S19, S20 | A1 635 63.5 |
| S21, S22 | A1 635 66.1 |
| S23, S24, C31, C32 | A1 635 67.3 |
| S25, S26, S27 | |
| C37, C38 | A1 635 68.5 |
| S28, S29, S30, S31 | A1 600 29.0 |
| S32 | 28 220 51.0 |
| S33 | A1 000 32.0 |



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PHILIPS

SERVICE DOCUMENTATION

for receiver

494 A

FOR A.C. MAINS FEEDING.

WAVERANGES

Short wave 1: 13.7—45 m (21.9 -- 6.67 Mc)
Short wave 2: 45 —160 m (6.67— 1.87 Mc)
Medium wave: 160 —560 m (1875 —535 Kc).

CONTROL KNOBS

From right to left:

1. Tuning.
2. Waveband switch.

3. Volume control with mains switch.
4. Tone control.

DIMENSIONS.

Width: 53.5 cm }
Height: 31 cm } knobs included.
Depth: 24 cm }

WEIGHT: 11 kg, tubes included.

TRIMMING THE RECEIVER.

Retrimming is necessary:

- When a coil or condenser in the I.F., H.F. or oscillator part has been renewed.
- When the receiver is not sufficient sensitive or selective. It is not necessary to take the receiver out of its cabinet; all trimmers become accessible after removal of the rear panel and the base plate. The positions of the trimmers are indicated in figs. 4 and 5. As regards the necessary trimming tools vide the list of parts and tools. On all wavebands the oscillator frequency is higher than the tuning frequency of the H.F. circuits.
The I.F. is 452 kc.
The I.F. bandwidth 1 : 10 is $11\frac{3}{4}$ kc.
The bandwidth at 1000 kc 1 : 10 is $10\frac{3}{4}$ kc.

A. L.F. CIRCUITS.

1. Earth the set and switch to medium wave band. Turn the variable condenser to minimum position.
2. Connect the output indicator via a trimming transformer to the extension loudspeaker sockets.
3. Apply a modulated signal of 452 kc via a condenser of 32000 pF to the first grid of L2.
4. Detune the third circuit by connecting a condenser of 80 pF in parallel with S25.
5. Tune S26-S27 to maximum output, then remove detuning condenser from S25.
6. Detune the second circuit by connecting a condenser of 80 pF in parallel with S24.
7. Tune S25 to maximum output.
8. Remove the detuning condenser from S24 and detune the first circuit by connecting a condenser of 80 pF in parallel with S23.
9. Tune S24 to maximum output.
10. Remove the detuning condenser and detune the second circuit by connecting a condenser of 80 pF in parallel with S24.
11. Tune S23 to maximum output. Remove detuning condenser and seal the cores.

B. H.F. AND OSCILLATOR CIRCUITS.

1. Earth the set and switch to short wave band 1.
2. Connect the output indicator to the set to be trimmed.
3. Apply to the aerial socket, via the short wave dummy aerial, a modulated signal of 20.5 Mc.
4. Accurately tune the receiver to this frequency by means of the variable condenser (first maximum starting from minimum capacity).

5. Tune C15, C8 to maximum output. Seal trimmers CR, C15.
- NOTE. C24 is tuned to a fixed capacity and may not be altered.

II. SHORT WAVE 2 (45—160 m).

1. Fit the 15° gauge. Switch the set to short wave band 2.
2. Apply a modulated signal of 6.1 Mc via the short wave dummy aerial to the aerial socket.
3. Accurately tune the set to this frequency with the aid of C25, C16 and C9.
4. Seal the trimmers.

III. MEDIUM WAVES (160—560 m).

1. Fit the 15° gauge. Switch the set to medium waves.
2. Apply a modulated signal of 1740 kc to the aerial socket via the normal dummy aerial.
3. Accurately tune the set to this frequency with the aid of C26, C17 and C10.
4. Connect an auxiliary receiver to the anode of L2 via a condenser of 25 pF, and the output indicator to the auxiliary receiver. Short-circuit C5.
5. Apply to the aerial socket of the set to be trimmed via the normal dummy aerial, a modulated signal of 600 kc.
6. Accurately tune the set to this frequency with the tuning knob.
7. Take away the auxiliary receiver; connect the output indicator to the set to be trimmed. Remove the short-circuit of C5.
DO NOT TURN THE VARIABLE CONDENSER.
8. Tune C30 to maximum output.
9. Turn the variable condenser against the 15° gauge.
10. Apply to the aerial socket of the set to be trimmed, via the normal dummy aerial, a signal of 1740 kc.
11. Tune C26, C17 and C10 to maximum output. Seal C10, C17, C26 and C30.

C. ADJUSTING THE DIAL.

1. Switch the receiver to the medium wave band. Connect the output indicator.
2. Apply to the aerial socket, via a normal dummy aerial, a modulated signal of 857 kc. (350 m).
3. Accurately tune the receiver to this frequency.
4. Slightly loosen the screw on the pointer for attaching the spring and move the pointer until it points exactly to 350 m.
5. Tighten the screw.

REPAIRS AND RENEWAL OF PARTS.

For various kinds of repairs it is not necessary to take the receiver out of the cabinet as often removal of the rear panel and the base plate suffices.

TAKING THE CHASSIS OUT OF THE CABINET.

1. Remove the rear panel.
2. Remove the knobs.
3. Unscrew the connection of the chassis with the bottom-screening.
4. Unsolder the connections to the loudspeaker.
5. Take off the tuning cross.
6. Slightly loosen the screw on the pointer for fixing the string, so that the string is released.
7. Unscrew the chassis from the bottom.
8. Slide the chassis out of the cabinet.
After having returned the chassis into the cabinet, the pointer must be correctly adjusted (vide sheet 1 "Adjusting the dial").

RENEWING THE DIAL.

1. Unscrew the 4 screws A (fig. 8).
The ornamental window can now be removed together with the scale, that can now be renewed easily.

RENEWING THE POINTER.

1. Slightly loosen the screw on the pointer for fixing the string, so that the string is released.
2. Undo the lower guide shaft for the pointer by loosening the two nuts near the end of this shaft.
3. Loosen the pointer from the pointer runner and screw on a new one.

NOTE. The new pointer must be covered at the extremities with silk yarn; the length of the covered part is ± 8 mm.

ADJUSTMENT OF THE LINE OF LIGHT.

If the line of light is not clearly defined, this can be corrected by adjusting the distance of the guide shafts till the scale by means of the nuts at the end of the shafts.

MICROFONIC EFFECT.

To avoid microphony, the variable condenser with the driving mechanism is fixed resiliently to the chassis by means of rubber ducts. This combination must therefore always be set up freely.

The following faults may lead to microphony:

1. Rubber ducts worn out.
2. Connections at the variable condenser too stiff or too taut.
3. The fixing strip 18 (fig. 6) is clamped to tight between the bracket on the variable condenser and the bracket on the chassis. This is to be remedied by unscrewing and fixing again the bracket on the variable condenser.

DRIVING CABLES.

The way the driving cables have to run is indicated in fig. 6. Length of the string for driving the pointer 970 mm. Length of the cord for driving the variable condenser 660 mm. The length of the driving strings is measured from fixing point to fixing point. To allow for the loops, the strings must be cut slightly longer.

LIST OF PARTS AND TOOLS.

When ordering parts, please always mention:

1. Codenumber;
2. Description;
3. Typenumber of the receiver.

| Fig. | Pos. | Description | Codenumber | Price |
|--------------|------|---|-------------|-------|
| 7 | 1 | Cabinet (colour 038) | 23 661 35.0 | |
| 7 | 2 | Ornamental window (colour 038) | 23 690 47.1 | |
| 7 | 3 | Stationamedial | A1 896 38.0 | |
| | | Stationamedial for British India | A1 896 39.0 | |
| | | Stationamedial for South-Africa | A1 896 40.0 | |
| | | Stationamedial for the Mediterranean | A1 896 41.0 | |
| 7 | 4 | Knob for wavebandswitch (colour 038) | 23 613 02.0 | |
| 7 | 5 | Knobs, other than pos. 4 (colour 038) | 23 612 29.0 | |
| 7 | 6 | Wooden panel | A1 931 38.1 | |
| 7 | 7 | Loudspeakercloth | 06 601 40.0 | |
| 7 | 8 | Decorative strip (long one) | A1 343 28.0 | |
| 7 | 9 | Decorative strip (short one) | A1 343 27.0 | |
| | | Trade mark | 28 713 27.1 | |
| | | Rear panel | A1 356 84.0 | |
| 8 | 10 | Glass pointer | 57 027 76.0 | |
| 8 | 11 | Screw for fixing the shafts for guiding the pointer | A1 854 62.0 | |
| 8 | 12 | Flat spring under the two higher screws of pos. 11 | A1 978 92.1 | |
| 8 | 13 | Spiral spring under the two lower screws of pos. 11 | A1 973 18.0 | |
| 6 | 37 | Driving drum | 23 687 13.1 | |
| 6 | 32 | Spring for the pointerstring | 28 740 59.0 | |
| 6 | 31 | Spring for the driving cord | 28 740 51.0 | |
| 6 | 34 | Vernier unit | A1 322 06.0 | |
| 6 | 35 | Flat spring for pos. 34 | 28 751 81.1 | |
| 6 | 36 | Fibre strip for pos. 34 | 28 681 11.1 | |
| 6 | 39 | Cogwheel | A1 346 10.0 | |
| 6 | 38 | Spring for pos. 39 | 28 730 85.0 | |
| 6 | 33 | Shaft for wavebandswitch | A1 436 68.0 | |
| | | Switch element no. 1 | 49 543 08.1 | |
| | | Switch element no. 2 | 49 543 30.1 | |
| | | Switch element no. 3 | 49 543 44.0 | |
| | | Mains voltage connecting plate | 28 875 39.0 | |
| | | Valveholder for L2 (colour 344) | 28 839 81.0 | |
| | | Gramophone switch | A1 133 35.0 | |
| | | Rubber grommet under the variable condenser | 28 725 52.0 | |
| LOUDSPEAKER. | | | | |
| | | Service clamping ring | 25 871 81.0 | |
| | | Paper ring | 28 451 54.0 | |
| | | Cone with coil | 28 220 51.1 | |
| TOOLS. | | | | |
| | | Service oscillator | GM 2880F | |
| | | Universal Measuring Apparatus | GM 4256 | |
| | | Universal and Valve Measuring Apparatus | GM 7629 | |
| | | 15"-gauge | 09 992 44.0 | |
| | | Centring-gauge for loudspeaker | 09 991 53.0 | |
| | | Insulated trimming screw driver | M646 38.2 | |
| | | Insulated trimming key 6 mm | 23 685 66.0 | |

COILS.

| | Value | Codenumber | Price | | Value | Codenumber | Price |
|-----|---------|-------------|-------|-----|---------|-------------|---------|
| S1 | | | | S21 | 2 Ohm | A1 035 66.1 | |
| S2 | 200 Ohm | | | S22 | 5.5 Ohm | | |
| S3 | ^ 1 Ohm | A1 055 44.3 | | S23 | 7 Ohm | A1 035 67.1 | |
| S4 | ^ 1 Ohm | | | | | | |
| S5 | ^ 3 Ohm | | | S24 | 7 Ohm | | |
| S6 | ^ 1 Ohm | A1 035 61.1 | | S31 | 100 pF | A1 035 68.2 | |
| S7 | ^ 7 Ohm | | | | | | |
| S8 | 0.8 Ohm | | | S25 | 10 Ohm | | |
| S9 | 20 Ohm | A1 035 64.0 | | S26 | | | |
| S10 | 4 Ohm | | | | | | |
| S12 | ^ 1 Ohm | A1 035 62.2 | | S27 | 6 Ohm | | |
| S13 | ^ 1 Ohm | | | | | | |
| S14 | ^ 1 Ohm | | | C37 | 106 pF | A1 103 29.0 | |
| S15 | ^ 3 Ohm | A1 035 65.1 | | C38 | 113 pF | | |
| S16 | ^ 1 Ohm | | | | | S28 | 600 Ohm |
| S17 | ^ 1 Ohm | | | S29 | < 1 Ohm | | |
| S18 | ^ 1 Ohm | A1 035 63.5 | | S30 | 230 Ohm | | |
| S19 | ^ 1 Ohm | | | | | | |
| S20 | < 1 Ohm | | | S31 | 230 Ohm | | |
| | | | | S32 | 4 Ohm | 28 220 51.1 | |
| | | | | S35 | 700 Ohm | A1 000 32.0 | |

RESISTANCES.

| | Value | Codenumbr | Price |
|------|------------------|-----------|-------|
| R1 | 1800 Ohm | 49 356 | 30.0 |
| R2 | 0.82 M.Ohm | 49 375 | 59.0 |
| R3 | 39 Ohm | 49 375 | 07.0 |
| R4 | 10000 Ohm | 49 377 | 36.0 |
| R5 | 0.15 M.Ohm | 49 375 | 50.0 |
| R6 | 3.3 Ohm | 49 377 | 66.0 |
| R7 | 150 Ohm | 49 375 | 14.0 |
| R8 | 0.1 M.Ohm/2 = | | |
| | 50,000 Ohm | 49 377 | 48.0 |
| R9 | 220 Ohm | 49 375 | 16.0 |
| R10 | 33000 Ohm | 49 375 | 42.0 |
| R11 | 2 × 10,000 Ohm = | | |
| | 20,000 Ohm | 49 376 | 36.0 |
| R12 | 5.6 M.Ohm | 49 377 | 69.0 |
| R13 | 47000 Ohm | 49 375 | 44.0 |
| R14 | 47000 Ohm | 49 375 | 44.0 |
| R15 | 22000 Ohm | 49 375 | 40.0 |
| R16 | 68000 Ohm | 49 375 | 46.0 |
| R17 | 0.65 M.Ohm | | |
| R17a | 0.2 M.Ohm | 49 500 | 19.0 |
| R18 | 1000 Ohm | 49 375 | 24.0 |
| R19 | 1 M.Ohm | 49 376 | 60.0 |
| R20 | 180 Ohm | 49 376 | 15.0 |
| R21 | 47000 Ohm | 49 375 | 44.0 |
| R22 | 1.5 M.Ohm | 49 376 | 62.0 |
| R23 | 82000 Ohm | 49 375 | 47.0 |
| R24 | 1800 Ohm | 49 375 | 27.0 |
| R25 | 0.35 M.Ohm | 49 470 | 31.0 |
| R28 | 5.6 M.Ohm | 49 377 | 69.0 |
| R29 | 12000 Ohm | 49 375 | 37.0 |
| R30 | 12000 Ohm | 49 375 | 37.0 |
| R31 | 2700 Ohm | 49 375 | 29.0 |
| R32 | 47000 Ohm | 49 375 | 44.0 |
| R33 | 39000 Ohm | 49 375 | 43.0 |
| R40 | 2.2 M.Ohm | 49 377 | 64.0 |
| R41 | 2.2 M.Ohm | 49 377 | 64.0 |
| R42 | 1 M.Ohm | 49 376 | 60.0 |
| R43 | 1.5 M.Ohm | 49 376 | 62.0 |
| R44 | 0.82 M.Ohm | 49 375 | 59.0 |

TUBES.

| L1 | L2 | L3 | L4 | L5 | L6 | L7 |
|-----|--------|------|-----|-----|-----------|-----|
| EF8 | ECH3 B | EBF2 | EL3 | AZ1 | 8091 D-00 | EM4 |

CURRENTS AND TENSIONS.

| | Va | Va tr. | Vg2 | Vkath | Ia | Ia tr. | Ig2 |
|----|-----|--------|-----|-------|----------------|--------|-----|
| L1 | 150 | | 170 | 0.3 | 7.6 | | 0.2 |
| L2 | 220 | 115 | 80 | 1.2 | 1.4 | 4.6 | 2.2 |
| L3 | 225 | | 85 | 0 | 4.6 | | 1.5 |
| L4 | 255 | | 225 | 6.2 | 32 | | 3.1 |
| L7 | 20 | | 225 | 0 | 0.2 and 0.1 | | 0.6 |

Ve1 = 275 V. Ve2 = 225 V.
Primary consumption = 50 Watt.

CONDENSERS.

| | Value | Codenumbr | Price |
|-----|-----------------|--------------|-------|
| C1 | 48 μF | 49 025 | 22.0 |
| C2 | 48 μF | 49 025 | 22.0 |
| C3 | 11-490 pF | | |
| C4 | 11-490 pF | 49 000 | 09.0 |
| C5 | 11-490 pF | | |
| C6 | 10000 pF | 49 127 | 14.0 |
| C7 | 68 pF | 49 055 | 48.0 |
| C8 | 20 pF | 49 005 | 03.0 |
| C9 | 20 pF | 49 005 | 03.0 |
| C10 | 20 pF | 49 005 | 03.0 |
| C11 | 100 pF | 49 055 | 49.0 |
| C14 | 10000 pF | 49 128 | 57.0 |
| C15 | 20 pF | 49 005 | 03.0 |
| C16 | 20 pF | 49 005 | 03.0 |
| C17 | 20 pF | 49 005 | 03.0 |
| C19 | 10000 pF | 49 127 | 14.0 |
| C20 | 0.1 μF | 49 128 | 63.0 |
| C21 | 100 pF | 49 055 | 28.0 |
| C22 | 150 pF | 49 055 | 30.0 |
| C23 | 220 pF | 49 055 | 32.0 |
| C24 | | 49 005 | 13.0 |
| C25 | 20 pF | 49 005 | 05.0 |
| C26 | 20 pF | 49 005 | 03.0 |
| C27 | 5750 pF | 28 195 | 69.0 |
| C28 | 1600 pF | 49 080 | 34.0 |
| C29 | 400 pF | 49 057 | 00.0 |
| C30 | 125 pF | 28 212 | 07.0 |
| C31 | 100 pF | | |
| C32 | 106 pF | Vide "Coils" | |
| C33 | 47000 pF | 49 127 | 61.0 |
| C34 | 10000 pF | 49 127 | 57.0 |
| C35 | 10000 pF | 49 128 | 57.0 |
| C36 | 100 pF | 49 055 | 28.0 |
| C37 | 106 pF | | |
| C38 | 113 pF | Vide "Coils" | |
| C39 | 100 pF | 49 055 | 28.0 |
| C40 | 27000 pF | 49 127 | 15.0 |
| C41 | 3300 pF | 49 128 | 08.0 |
| C42 | 25 μF | 49 020 | 00.0 |
| C43 | 330 pF | 49 055 | 05.0 |
| C44 | 4700 pF | 49 126 | 54.0 |
| C47 | 1000 pF | 49 126 | 53.0 |
| C51 | 22000 pF | 49 129 | 90.0 |
| C52 | 0.22 μF | 49 128 | 65.0 |
| C54 | 2 × 2.2 pF par. | 49 055 | 61.0 |
| C58 | 47000 pF | 49 127 | 61.0 |
| C59 | 47000 pF | 49 127 | 61.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-----|-------|-------|-----|-----|------|------|--------|
| S: | 12.34 | 37.9 | 6.810 | 12.15 | 14.15 | 16. | 17.18 | 21 | 18.20 | 25.24 | 25.26 | 27 | 35.28 | 30.31 | 32 | | | | | | | | | | | | | | | | |
| C: | 7. | 51 | 6.18 | 8.10 | 5.27 | 23.59 | 14.58 | 13.16 | 17. | 4. | 18. | 20.21 | 22.5. | 90.87 | 28.29 | 34.21 | 25.26 | 31.32 | 33.34 | 52. | 55.89 | 37.40 | 38.41 | 36. | 44.42 | 43. | 47. | | | | |
| R: | | | | | | 4. | 5. | 31. | 12.7 | 33.16 | 3.9 | 10.15.11. | 28. | 6. | 15. | 28. | 32. | 14. | 40.41 | 30.17 | 17.21. | 18. | 21. | 18. | 33.34 | 23.24 | 25. | 29. | 44.2 | 43.2 | 47.23. |

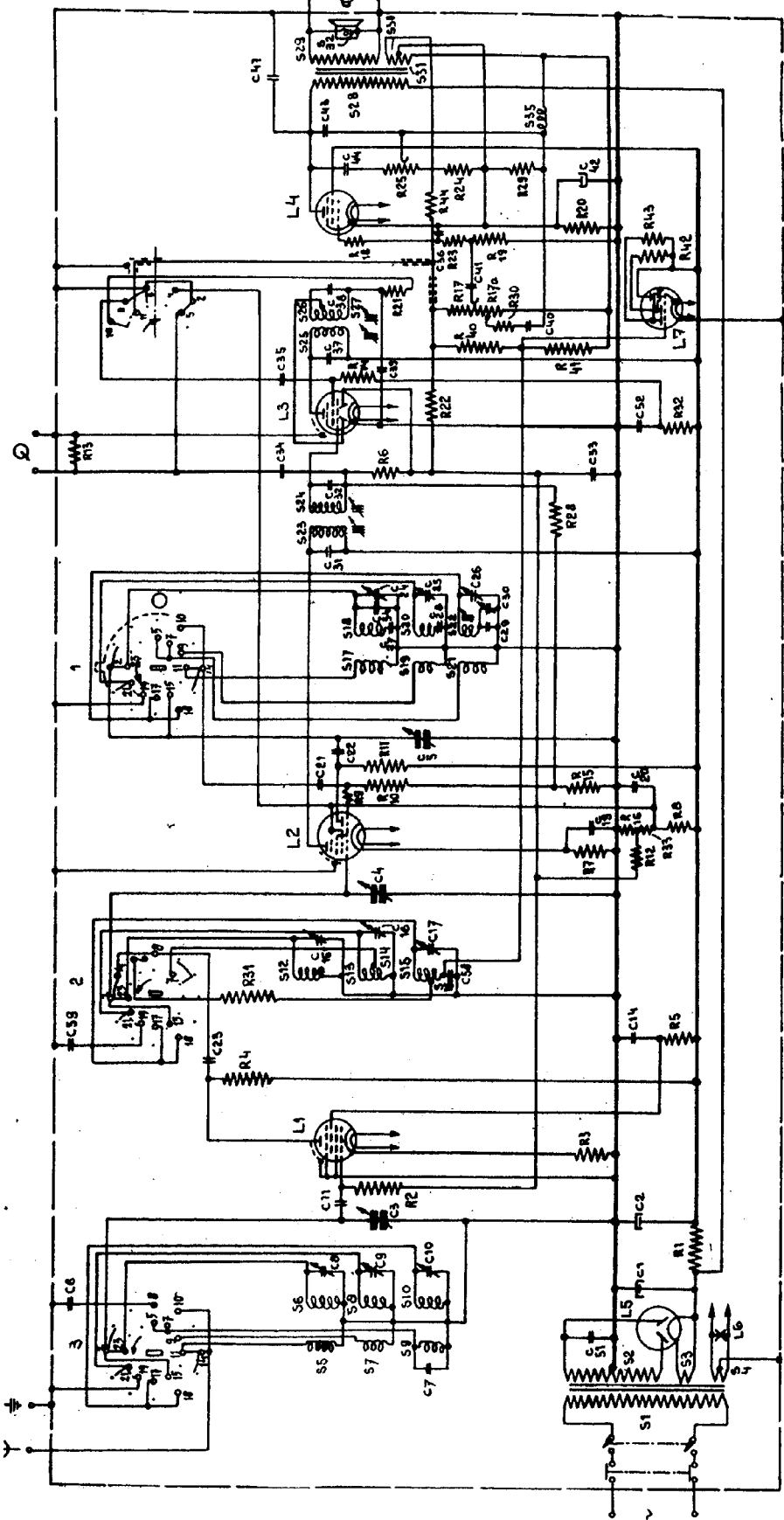
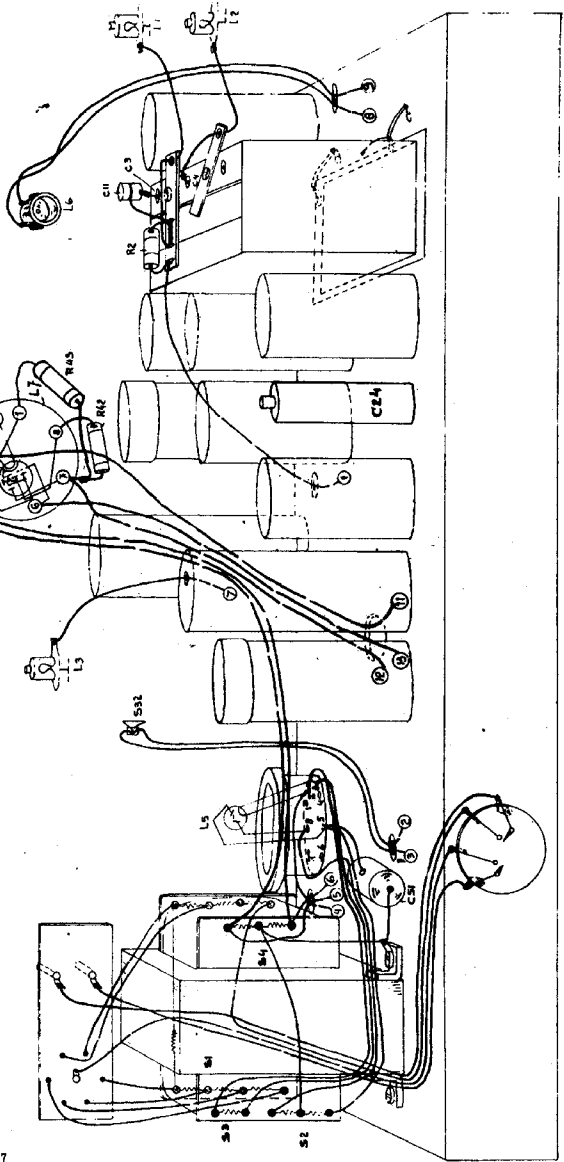


Fig 1

494A



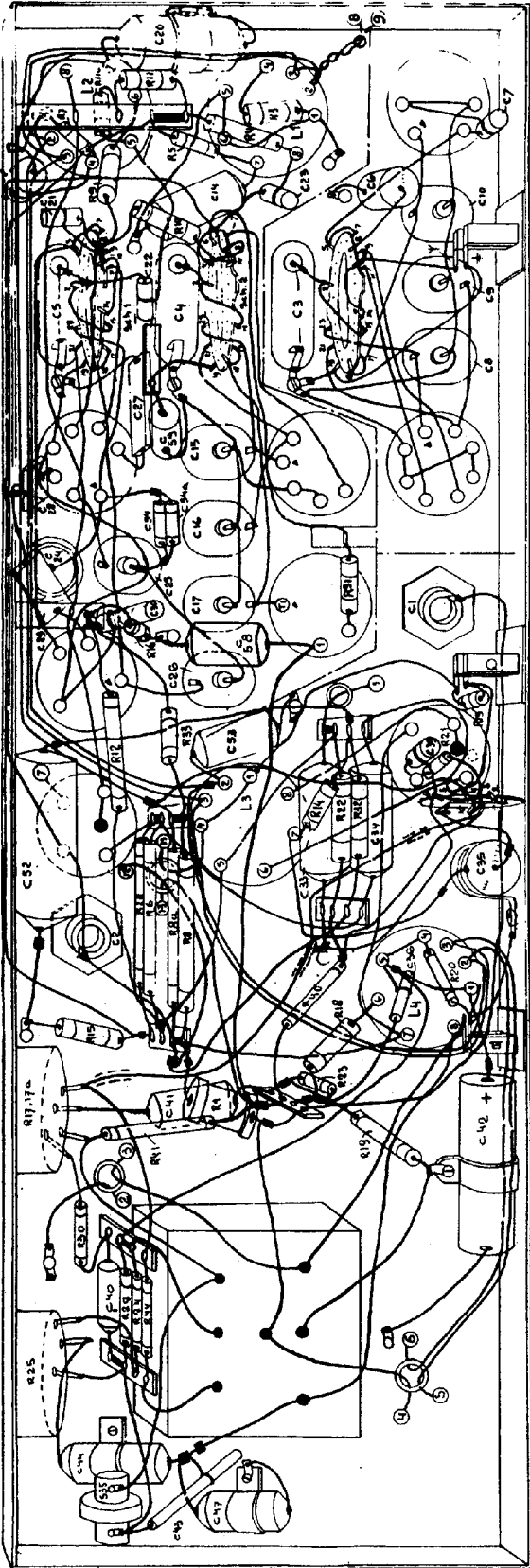
5767

| | | | |
|----|----|-----|-----|
| S. | 3. | 4 | 38. |
| C. | 1 | 81. | |
| R. | 24 | 43. | 44. |

Fig 2

R 591

494A

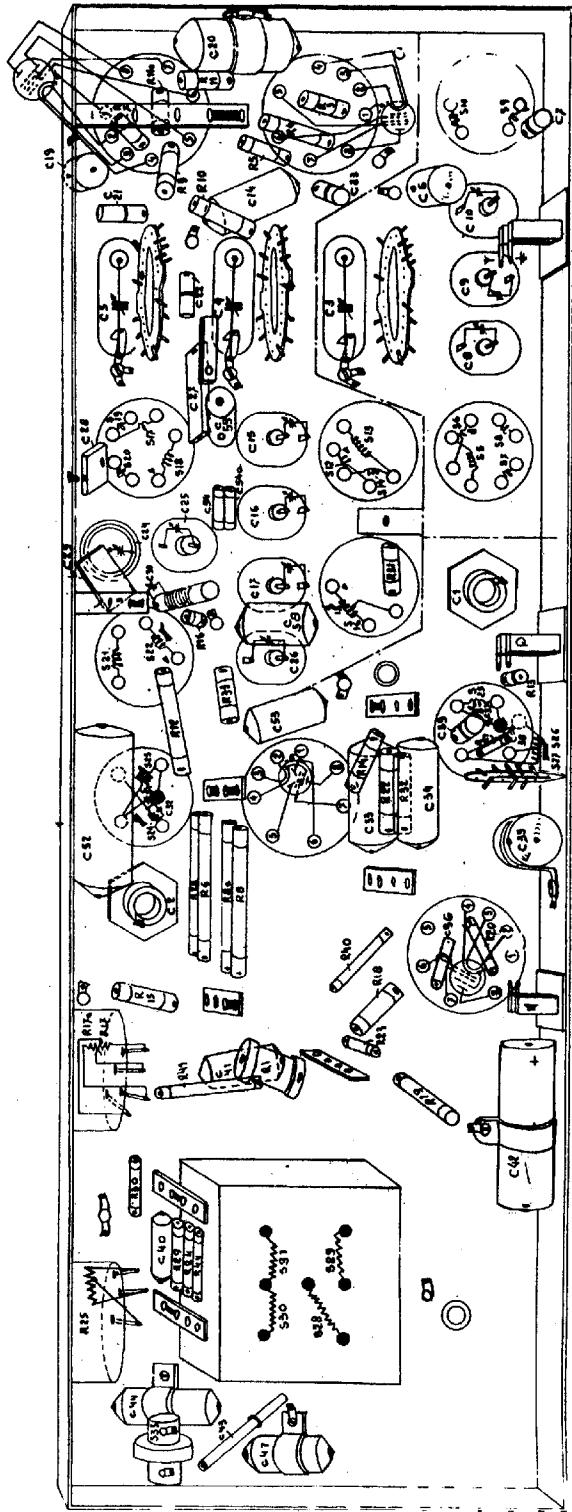


R 992

Fig 3

494A

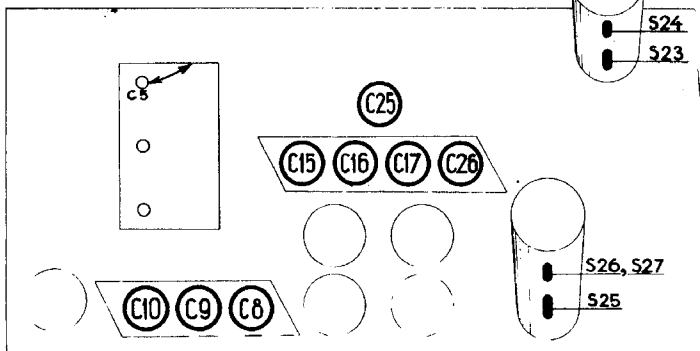
| | | | | | | | | | |
|---|--------|----------------|----|---------------------------|------------|---------------|----------------------------------|---------------------|---|
| S | 35 | 30, 32, 31, 29 | 34 | 31, 27, 26 | 25 | 22 | 15 | 20 號機件 2, 6, 13, 19 | 18, 9 |
| C | 47, 43 | 46 | 48 | 44 | 36 | 2 | 32, 28, 25, 34, 33 | 37, 35, 37, 32 | 5, 4, 3, 1, 5, 6, 22, 2, 1, 14, 15, 23, 6 |
| R | 25 | 49, 48, 49 | 30 | 47, 19, 17, 17, 1, 13, 18 | 45, 10, 10 | 1, 1, 6, 2, 8 | 14, 2, 3, 3, 2, 1, 1, 1, 1, 1, 1 | 16 | 10 |
| | | | | | | | | | 7, 5, 3, 3, 11, 16 |



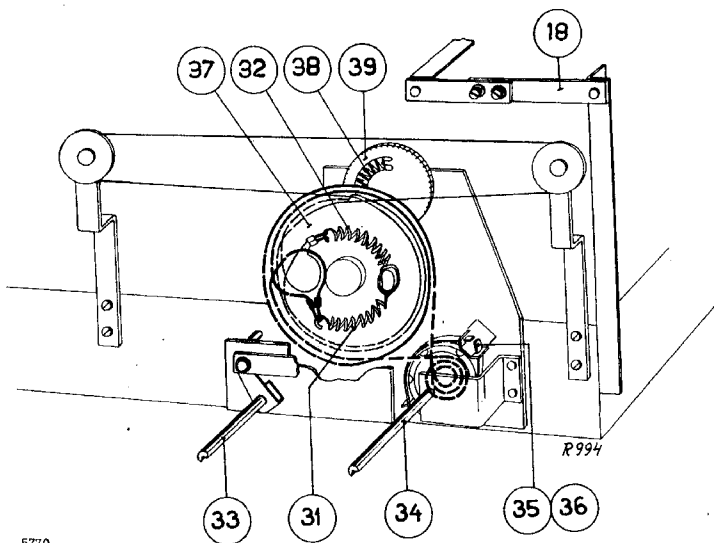
R993

Fig 4

494 A



R404



494A

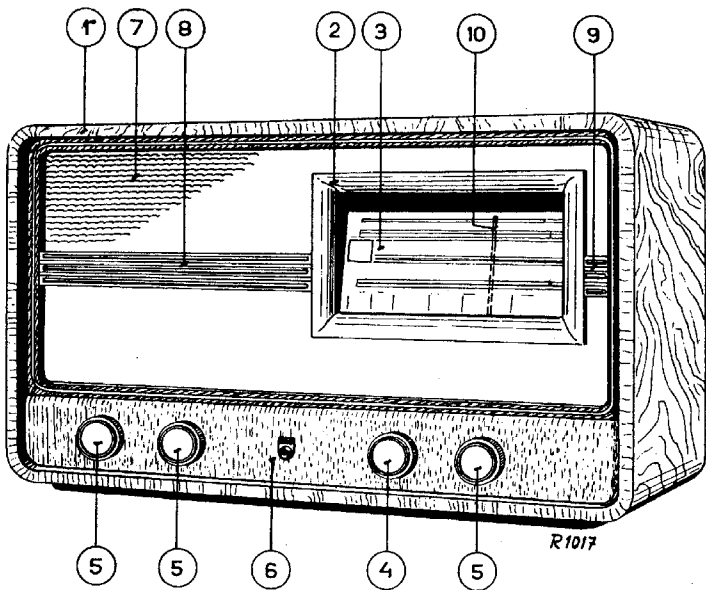


Fig 7

