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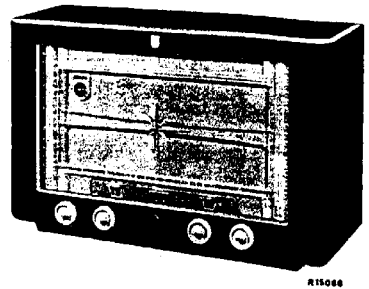
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PHILIPS

SERVICE NOTES

for the receiver

BX 638 Z



R15000

For A.C. mains supply and 6 V battery supply via the vibrator unit AU 1004
1953 AU 1004

GENERAL

WAVE RANGES

I.F. : 452 kc/s

| | | | | |
|-----------|-----------------|---|---------------|--------|
| 1. M.W. | : 185 - 580 | m | (1622 - 517 | kc/s) |
| 2. S.W.3 | : 60 - 187 | m | (5 - 1.604 | Mc/s) |
| 3. S.W.2d | : 32.25 - 60 | m | (9.3 - 5 | Mc/s) |
| 4. S.W.2c | : 23.07 - 32.96 | m | (13.0 - 9.1 | Mc/s) |
| 5. S.W.2b | : 17.00 - 25.87 | m | (17.6 - 11.6 | Mc/s) |
| 6. S.W.2a | : 10.98 - 17.00 | m | (27.3 - 17.6 | Mc/s) |

CONTROLS

From left to right :

1. Knob : volume control + mains switch
Lever : radio P.U. switch
2. Knob : tone control
Lever : bass switch
3. Knob : vernier tuning
4. Knob : waverange switch
5. Knob : main tuning
6. On rear panel : mains-off-vibrator-charging switch

SUPPLY VOLTAGE

90, 110, 125, 180
200, 220 V (50 c/s)
and 6 V =

CONSUMPTION

50 W approx. (a.c.)
21 W approx. (6V d.c.)

LOUDSPEAKER

type 9770 Z = 5 Ω

VALVES

- B1 : EF41
- B2 : ECH81
- B3 : EBF80
- B4 : EBC41
- B5 : EL42
- B6 : EZ80
- B7 : EM34

DIMENSIONS

| | | | |
|--------|--------|----|------------------|
| Length | : 55 | cm | } knobs included |
| Depth | : 26 | cm | |
| Height | : 34.5 | cm | |

BANDWIDTH

The I.F. bandwidth (1:10) measured from g1 of B2 is approx. 11 kc/s. The "overall" bandwidth (1:10) measured from the aerial socket is about 9.5 kc/s at 1622 kc/s and 9kc/s at 1000 kc/s

DIAL LAMPS L1 : 8045D-00 ; L2 : 8045D-00

LIST OF ILLUSTRATIONS

- Fig. 1 Trimming points on the dial
- Fig. 2 Pointer and gang capacitor drive
- Fig. 3 Switch wafers
- Fig. 4 Coil connections
- Fig. 5 Circuit diagram
- Fig. 6 Wiring diagram (under)
- Fig. 7 Wiring diagram (above)

TRIMMING THE RECEIVER

A. The I.F. Part

1. Set the waverange switch to M.W.
2. Turn the variable condenser to minimum
3. Set the volume control to maximum
4. Set the P.U. radio switch to radio
5. Unscrew the iron cores of the I.F. coils
6. Connect a voltmeter via a trimming transformer to the extension loudspeaker socket.
7. Apply to g1 of B2 a modulated signal of 452 kc/s via a capacitor of 33000 pF
8. Trim the I.F. circuits in the following order :

- 4th I.F. circuit S45-S46-C48 (coil U)
- 3rd I.F. circuit S43-S44-C47 (coil U)
- 1st I.F. circuit S39-S40-C44 (coil T)
- 2nd I.F. circuit S41-S42-C45 (coil T)
- 3rd I.F. circuit S43-S44-C47 (coil U)

After the last circuit has been trimmed the cores of the I.F. coils must be left as they are.

9. Seal the cores

Note

The iron cores of the I.F. bandfilters have been sealed with "Vaseline Compound" (see list of parts and tools). This compound can easily be removed in the cold state with the aid of a screw-driver. Heating of the core damages the core holder and makes trimming impossible.

B. R.F. and oscillator circuits

Trimming is done with the aid of trimming points on the dial (see fig. 2).

There is no need to uncage the apparatus. Before starting to trim, be sure that the pointers are in the right positions at minimum capacitance of the variable condenser.

The positions of the pointers are (at minimum position of the variable capacitor).

- For range M.W. on trimming point (1)
- For range S.W. 3 on trimming point (4)
- For range S.W. 2b on trimming point (5)
- For range S.W. 2a on trimming point (5)
- For range S.W. 2c on trimming point (3)
- For range S.W. 2d on trimming point (3)

For all waveranges the following applies :

1. Set the volume control to maximum
2. Turn the tone control to the "quality" position
3. Connect a voltmeter via a trimming transformer to the extension loudspeaker socket.

Trim as indicated in the following table strictly observing the order given :

| 1 | Waverange switch in position | M.W. | S.W.3 | S.W.2b | S.W.2a | S.W.2c | S.W.2d |
|----|---|--|--|--------------------------------------|------------------|-------------------|-------------------|
| 2 | Pointer on trimming point by means of tuning knob | 2 | 2 | 6 ⁺ | 2 ⁺ | 2 ⁺ | 2 ⁺ |
| 3 | Apply modulated signal of to aerial socket via a capacitor of 33000 pF | 547 kc/s | - | - | - | - | - |
| 4 | Apply modulated signal of to aerial socket via a capacitor of 125 pF | - | 1.72 Mc/s | 11.6 Mc/s | 17.6 Mc/s | 9.0 Mc/s | 4.91 Mc/s |
| 5 | Trim for maximum output voltage | S38 S24 S16 | S36 S21 S14 | S27 S18 S8 | S26 S17 S6 | S28 S19 S10 | S34 S20 S12 |
| 6 | Pointer on trimming point by means of tuning knob | 1 | 4 | 5 ⁺ | - | - | - |
| 7 | Apply modulated signal of to aerial socket via a capacitor of 33000 pF | 1630 kc/s | - | - | - | - | - |
| 8 | Apply modulated signal of via a capacitor of 125 pF | - | 5.1 Mc/s | 18 Mc/s | - | - | - |
| 9 | Trim for maximum output voltage | C43 C24 C13 | C39 C23 C12 | C33 C19 C8 | - | - | - |
| 10 | Repeat the points | 2-9 | 2-9 | 2-9 | - | - | - |
| 11 | Seal the trimmers and cores | S38 S24 S16 C43 C24 C13 | S36 S21 S14 C39 C23 C12 | S27 S18 S8 C33 C19 C8 | S26 S17 S6 | S28 S19 S10 | S34 S20 S12 |

+ Place vernier-tuning in the middle position on the dial

REPAIRS AND REPLACEMENTS

Uncasing

1. Remove rear panel and bottom plate
2. Remove knobs (they pull off except the knob of the vernier-tuning which has to be unscrewed).
3. Unscrew loudspeaker baffle (4 screws).
4. Unscrew the four bottom screws
5. Carefully draw the chassis out of the cabinet

Variable capacitor and pointer drive

The path and the lengths of the cables are indicated in fig. 2, the variable capacitor being set to maximum.

A. Variable capacitor drive

1. Remove the chassis from the cabinet.
2. Remove the broken cables.
3. Assemble the new cables "A" and "B".
4. Push the nipple a of the cable A into the slit A1 of the small drum and pass the cable ± 2 x in a clockwise direction around the drum.
5. Place the cable guide into position.
6. Pass the cable $\pm \frac{1}{2}$ x in an anti-clockwise direction around the drum of the variable capacitor.
7. Fix the cable temporarily with a crocodile clip.
8. Push the nipple b of the cable B into the slit B1.
9. Pass the cable B $\pm \frac{1}{2}$ x in an anti-clockwise direction around the small drum.
10. Place the cable guide into position.
11. Pass the cable around the pulley and $\pm 1\frac{1}{2}$ x in a clockwise direction around the variable capacitor drum.
12. Hook the spring into the cable loops, pass the ends through the drum opening and lay one end in the right direction around the pin of the drum.
13. Fix the spring on its bracket and remove the crocodile clip.

Pointerdrive

1. Remove the chassis from the cabinet.
2. Remove the dialscale and if desired also the baffle.
3. Put cable D with nipple d in slit D1 on the cable drum, a turn $\pm 1\frac{1}{2}$ turns to the left and clip temporarily with a crocodile clip on the friction wheel.
4. Put cable C with nipple c in slit C1 on the cable drum and turn $\pm 2\frac{1}{2}$ turns to the right and clip temporarily with a crocodile clip on the friction wheel.
5. Put the baffle back in place.
6. Remove the crocodile clip from cable D and put the cable on its pulleys (see fig. 2).
7. Remove the crocodile clip from cable C and put the cable on its pulleys (see fig. 2).
8. Hook the two cable ends together with hook H as indicated in fig. 2.
9. Fix the pointer carriers and pointers to the cable.
10. Check the tension in the cables, it must be taken up entirely by the spring on the side of the chassis.

Repair of the vernier control

For the repair of this part unscrew the bracket from the chassis after which it will be easy to remove both the driving spindle and the cores. Keep always free of grease the rubber driving rolls and core rods.

After repair the cores must be moved to and fro once or twice against their stop points, after which they come automatically in the right position.

CURRENTS AND VOLTAGES

| | | | Va | Vg2(+4) | Vk | Ia | Ig2(+4) |
|----|-------|------------------|-------|---------|-------|------|---------|
| B1 | EF41 | Pentode | 178 | 62 | - | 4.8 | 1.4 |
| B2 | ECH81 | Hexode | 226 | 62 | - | 1.8 | 4.0 |
| | | Triode | 126 | - | - | 4.0 | - |
| B3 | EBF80 | Pentode | 226 | 62 | - | 4.6 | 1.6 |
| B4 | EBC41 | Triode | 74 | - | - | 0.72 | - |
| B5 | EL42 | Pentode | 231 | 226 | 9,5 | 25 | 4.1 |
| B7 | EM34 | Tuning Indicator | 226 | d1=26 | - | - | d1=0.2 |
| | | | | d2=16 | | | d2=0.21 |
| | | | Volts | Volts | Volts | mA | mA |

VC1 = 260 V
VC2 = 226 V

Imprim 225 mA (220 V, 50 c/s)

These measurements have been taken with the Universal Measuring Instrument GM 4257 with the receiver connected to 220 V a.c. and no signal on the aerial socket.

LIST OF PARTS AND TOOLS

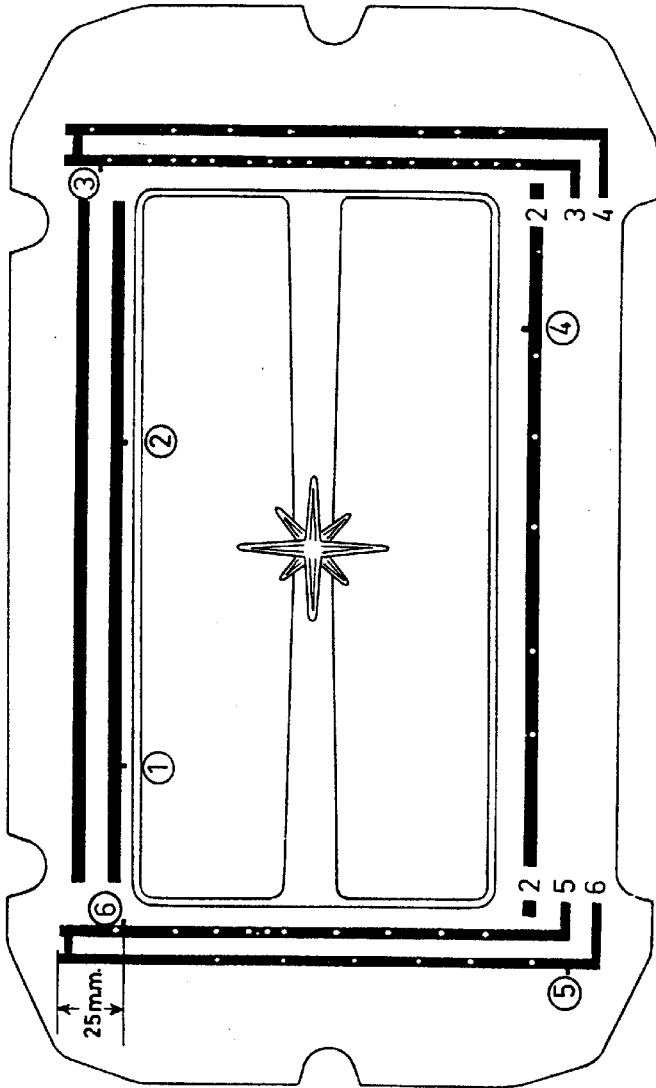
When ordering always quote

1. Codenumber
2. Description
3. Type number of the set

| | Description | Code number |
|--|--|--|
| | Cabinet | A3 737 24.0 |
| | Rubber grommet (fixing chassis) 4x | A3 327 14.0 |
| | Knobs (4x) | A3 736 57.0 |
| | Levers (colour MC) bass-switch and radio/P.U. Switch | 23 952 95.5 |
| | Knob vernier control (colour MC) | 23 610 54.1 |
| | Knob on rear panel (colour AA) | 23 993 10.0 |
| | <u>Chassis</u> | |
| | Valve holder (3x) | B1 505 22.0 |
| | Spring for fixing coil cans 8x | A3 652 58.3 |
| | Pick-up radio switch | A3 402 44.0 |
| | Waverange indication disc | A3 404 08.0 |
| | Indication disc for vernier tuning | A3 404 09.2 |
| | Indication disc tone control | A3 390 04.0 |
| | Spring at side of chassis | A3 646 17.0 |
| | Pointer carrier | A3 372 35.0 |
| | Valve holder (1x) | B1 505 26.1 |
| | Dial lamp holder (2x) | A3 359 16.1 |
| | Spring in drum variable capacitor | A3 646 09.3 |
| | Large vertical pulley for cable drive | P4 095 04/01 |
| | Large horizontal pulley for cable drive | P4 095 05/01 |
| | Ornamental window for tuning indicator | A3 357 12.1 |
| | Spring for fixing coilcan 1x | A3 652 75.1 |
| | Bass-switch | A3 186 57.0 |
| | Battery on-off switch | A3 181 45.0 |
| | Spindle for potentiometers | A3 432 95.0 |
| | Nut for fixing potentiometers | 49 758 21.0 |
| | Mounting plate for potentiometers | A3 537 90.0 |
| | Dial (overseas) | A3 740 23.0 |
| | Dial (mediterranean) | A3 740 24.0 |
| | <u>Tools</u> | |
| | Service oscillator | GM 2883 or GM 2883/02 or GM 2884 |
| | Universal Measuring Instrument | GM 4257 |
| | Vaseline Compound | X 009 47.0 |

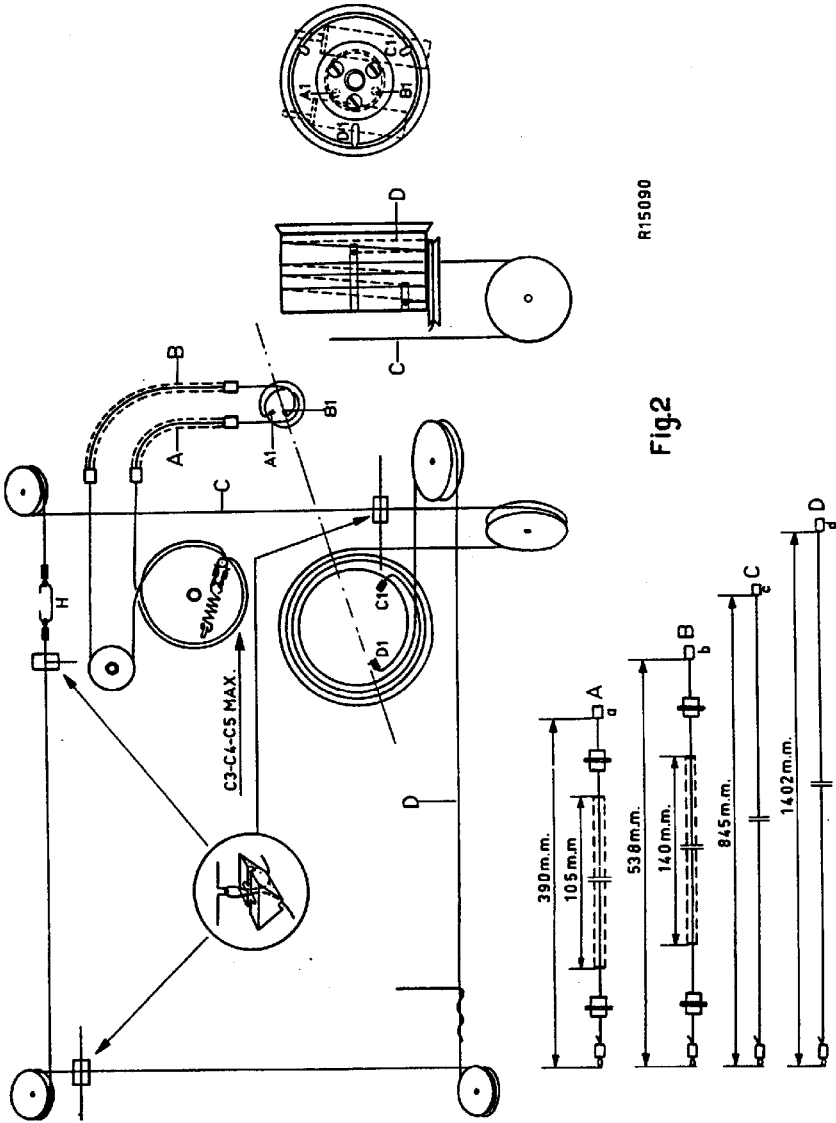
| | | | | | |
|-----|--------|-------------|-----|---------------|-----------------|
| S1 | - | A3 142 16.0 | S43 | 5 Ω | A3 121 94.2 |
| S2 | - | | S44 | 2.5 Ω | |
| S2a | - | | S45 | 2 Ω | |
| S3 | - | | S46 | 3 Ω | |
| S4 | - | A3 125 79.0 | S47 | 115 pF | A3 169 59.0 |
| S5 | 1.5 Ω | | S48 | 115 pF | |
| S6 | < 1 Ω | | S49 | - | |
| S9 | 1.6 Ω | | S51 | - | |
| S10 | < 1 Ω | A3 125 26.0 | C1 | 50 μF | 48 317 63/50+50 |
| S7 | 1.5 Ω | | C2 | 50 μF | |
| S8 | < 1 Ω | | C3 | 11-498 pF | |
| S11 | 1.6 Ω | | C4 | 11-498 pF | |
| S12 | < 1 Ω | A3 125 28.0 | C5 | 11-498 pF | 49 001 66.2 |
| S13 | 13 Ω | | C6 | 1500 pF | |
| S14 | 1.7 Ω | | C7 | 1500 pF | |
| S15 | 45 Ω | | C8 | 60 pF | |
| S16 | 3 Ω | A3 125 35.0 | C9 | 1500 pF | A9 999 04/1K5 |
| S17 | < 1 Ω | | C10 | 120 pF | |
| S19 | < 1 Ω | | C11 | 18 pF | |
| S18 | < 1 Ω | | C12 | 0.22 μF | |
| S20 | < 1 Ω | A3 125 38.0 | C13 | 30 pF | A9 999 04/120E |
| S21 | 1.7 Ω | | C14 | 30 pF | |
| S22 | < 1 Ω | | C15 | 30 pF | |
| S23 | 45 Ω | | C16 | 150 pF | |
| S24 | 3 Ω | A3 125 41.0 | C17 | 150 pF | A9 999 04/18E |
| S25 | 26 Ω | | C19 | 60 pF | |
| S26 | < 1 Ω | | C21 | 120 pF | |
| S28 | < 1 Ω | | C23 | 18 pF | |
| S27 | < 1 Ω | A3 125 39.0 | C24 | 30 pF | A9 999 04/220K |
| S32 | < 1 Ω | | C25 | 30 pF | |
| S33 | < 1 Ω | | C26 | 150 pF | |
| S34 | < 1 Ω | | C27 | 150 pF | |
| S29 | < 1 Ω | A3 125 42.0 | C29 | 0.22 μF | 28 212 36.4 |
| S30 | < 1 Ω | | C30 | 220 pF | |
| S35 | < 1 Ω | | C31 | 470 pF | |
| S36 | < 3 Ω | | C33 | 30 pF | |
| S37 | 4.7 Ω | A3 110 66.0 | C34 | 30 pF | A9 999 04/150E |
| S38 | 10 Ω | | C35 | 100 pF | |
| S39 | 5 Ω | | C36 | 100 pF | |
| S40 | 2.5 Ω | | C37 | 100 pF | |
| S41 | 2 Ω | A3 113 10.0 | C39 | 150 pF | A9 999 04/150E |
| S42 | 3 Ω | | C40 | 30 pF | |
| S44 | 115 pF | | C42 | 1500 pF | |
| S45 | 115 pF | | C43 | 75 pF | |
| | | A3 125 60.0 | C44 | 470 pF | A9 999 05/180E |
| | | | C45 | 15 pF | |
| | | | C46 | 30 pF | |
| | | | | | |
| | | A3 125 68.0 | C47 | See coils | A9 999 05/1K5 |
| | | | C48 | Véase bobinas | |
| | | | C49 | Voir bobines | |
| | | | C50 | 10 pF | |
| | | A3 125 72.0 | C51 | See coils | A9 999 04/100E |
| | | | C52 | Véase bobinas | |
| | | | C53 | Voir bobines | |
| | | | C54 | 10 pF | |
| | | A3 125 79.0 | C55 | See coils | A9 999 05/75E |
| | | | C56 | Véase bobinas | |
| | | | C57 | Voir bobines | |
| | | | C58 | 10 pF | |
| | | A3 121 94.2 | C59 | See coils | A9 999 04/470E |
| | | | C60 | Véase bobinas | |
| | | | C61 | Voir bobines | |
| | | | C62 | 10 pF | |

| | | | | | |
|-----|----------------|----------------|-----|---------|----------------|
| C47 | See coils | | R25 | 330 Ω | A9 999 00/330E |
| C48 | Véase bobinas | | R26 | 10000 Ω | A9 999 00/10K |
| | Voir bobines | | R27 | 2.2 MΩ | A9 999 00/242 |
| C49 | 82 pF | A9 999 04/823 | R28 | 1 MΩ | A9 999 00/1M |
| C50 | 47000 pF | A9 999 06/47K | R29 | 1 MΩ | A9 999 00/1M |
| C51 | 39000 pF | A9 999 06/39K | R32 | 12000 Ω | A9 999 00/12K |
| C52 | 10000 pF | A9 999 06/10K | | | |
| C53 | 0.12 μF | A9 999 06/120K | | | |
| C54 | 15000 pF | A9 999 06/15K | | | |
| C55 | 22000 pF | A9 999 06/22K | | | |
| C56 | 390 pF | A9 999 04/390E | | | |
| C57 | 2200 pF | A9 999 06/V2K2 | | | |
| C58 | 100 μF | AC 5540/100 | | | |
| C59 | 1500 pF | A9 999 04/1K5 | | | |
| C60 | 47000 pF | A9 999 06/47K | | | |
| C61 | 1500 pF | A9 999 06/1K5 | | | |
| C62 | 2200 pF | A9 999 06/2K2 | | | |
| R1 | 1200 Ω | A9 379 78.0 | | | |
| R2 | 1000 Ω | A9 999 00/1K | | | |
| R3 | 1 MΩ | A9 999 00/1M | | | |
| R4 | 10000 Ω | A9 999 00/10K | | | |
| R5 | 1000 Ω | A9 999 00/1K | | | |
| R6 | 1 MΩ | A9 999 00/1M | | | |
| R7 | 2x47000 Ω par. | A9 999 00/47K | | | |
| R8 | 47000 Ω | A9 999 00/47K | | | |
| R9 | 15000 Ω | A9 999 00/15K | | | |
| R10 | 560 Ω | A9 999 00/560E | | | |
| R11 | 1.5 MΩ | A9 999 00/1M5 | | | |
| R12 | 1.2 MΩ | A9 999 00/1M2 | | | |
| R13 | 47000 Ω | A9 999 00/47K | | | |
| R14 | 450000 Ω) | 48 900 00/ | | | |
| R15 | 50000 Ω) | DL 50K + 450K | | | |
| R16 | 15000 Ω | A9 999 00/15K | | | |
| R17 | 0.1 MΩ | A9 999 00/100K | | | |
| R18 | 10 MΩ | A9 999 00/10M | | | |
| R19 | 56000 Ω | A9 999 00/56K | | | |
| R20 | 56000 Ω | A9 999 00/56K | | | |
| R21 | 3300 Ω | A9 999 00/3K3 | | | |
| R22 | 1000 Ω | A9 999 00/1K | | | |
| R23 | 50000 Ω) | 48 900 00/ | | | |
| R24 | 450000 Ω) | DL 50K + .450K | | | |



R15089

Fig.1



R15090

Fig2

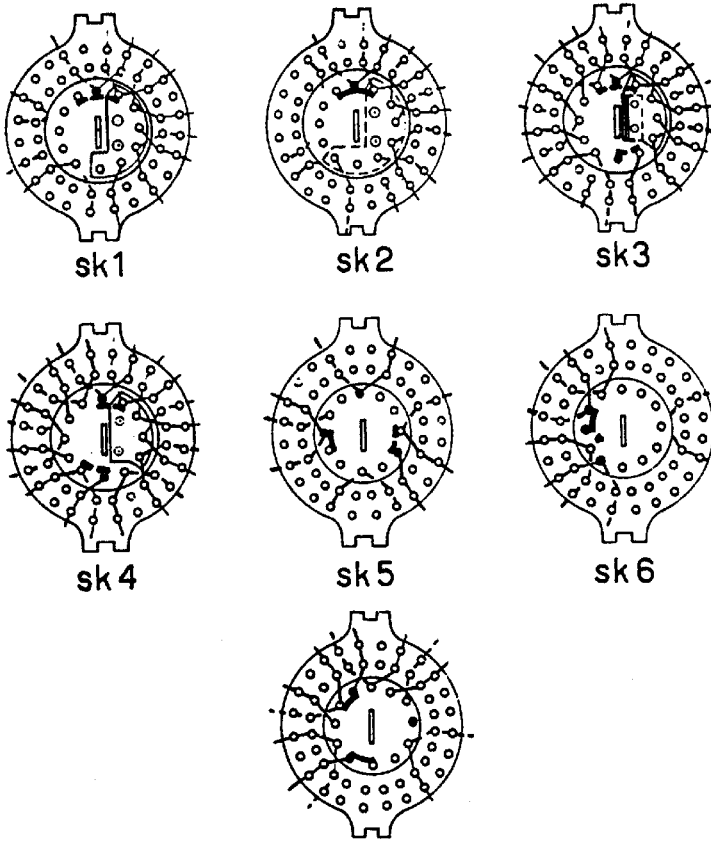


Fig.3 sk7 R15091

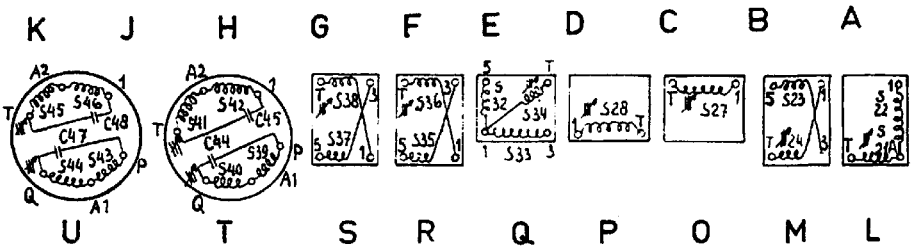
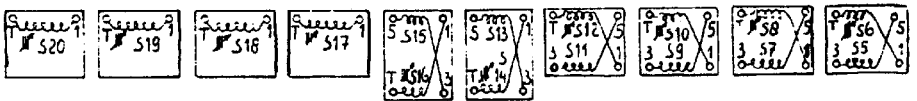


Fig.4

| | | | | | | | |
|----|---|--------------------------|-----------------------|----------------------|--|--------------|---|
| S: | 1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16. | 25. | 23.17.18.19.20.21.24. | 32.35.37. | 26.27.28.29.30.31.32.33.34.35.36.38.39.40.41.42. | 43.44.45.46. | 51.47.48.49.50.51. |
| C: | 8.10.12.13.14.15.16.17. | 19.21.22.23.24.25.26.27. | 27.4.15.26.62. | 29.30.5.31.34.35.36. | 40.42.33.37.39.43.44. | 45.50.46. | 47.21.48.49.60.52.56.54.55.53. |
| R: | 2. | 4.5. | 32. | 7.6.0.9.26. | 10. | 11.12. | 27. |
| | | | | | | | 13.14.15.16.28.29.17.18.20.19.23.24.21.22.25. |

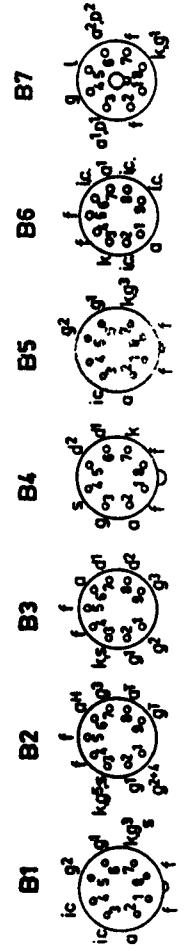
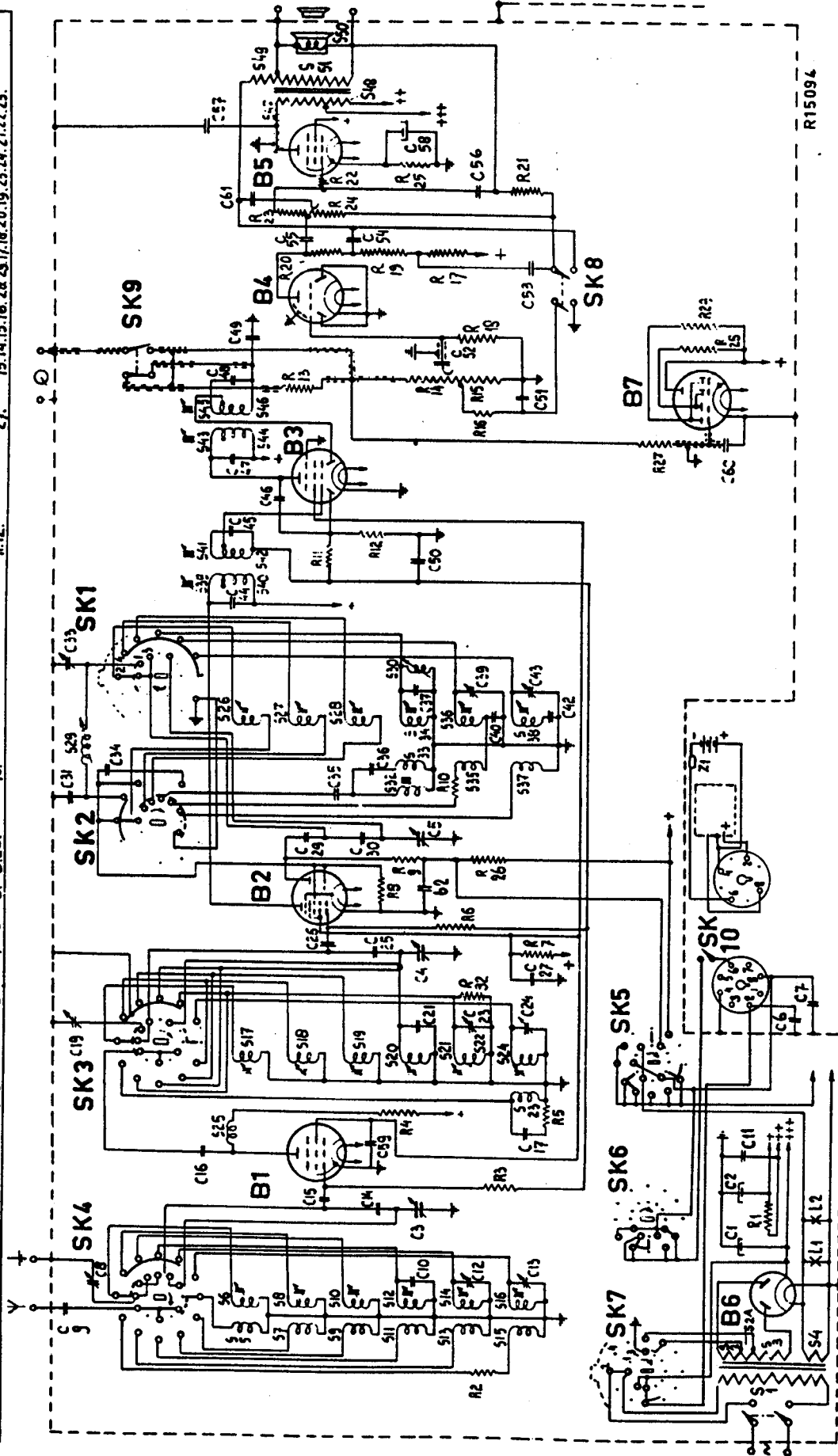
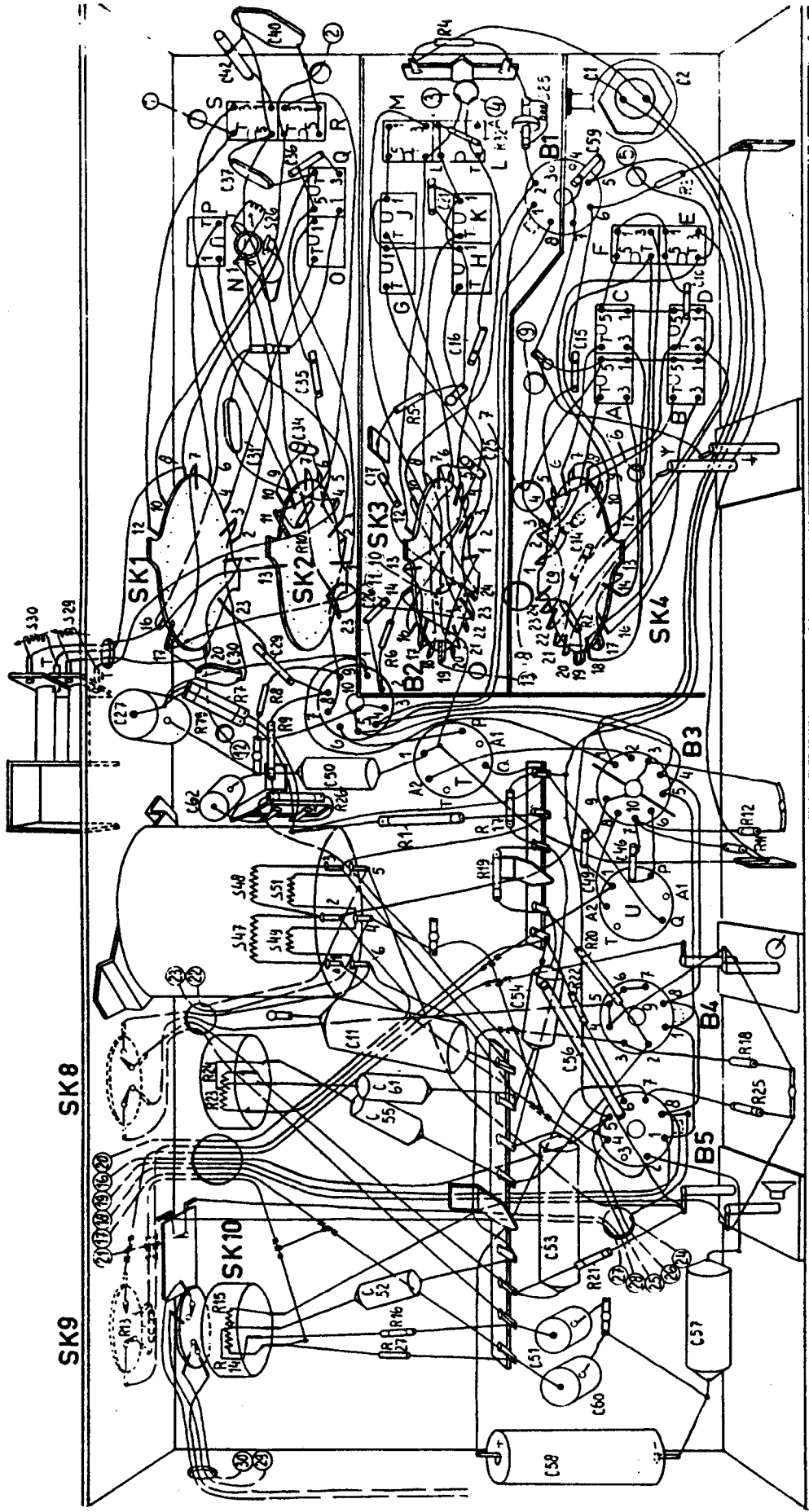


Fig.5

| S | C | R | T | | | | | | | | | | A B | | | | | | | | | | M LSR 25 | | | | | | | | | | | | | | | | | | |
|----------------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|-----|----|----|---|----|----|----|----|----|----|----------|----|----|----|----|----|----|----|----|----|----|---|--|--|--|--|--|--|--|
| 58 | 60 | | 57 | 61 | 11 | 54 | 56 | 46 | 48 | 62 | 80 | 27 | 38 | 89 | 26 | 9 | 14 | 17 | 25 | 34 | 31 | 35 | 15 | 16 | 10 | 21 | 37 | 39 | 36 | 12 | 42 | 40 | | | | | | | | | |
| | | | 25 | 23 | 24 | 18 | 22 | 20 | 19 | 11 | 17 | 22 | 26 | 9 | 7 | 8 | 7 | 8 | 9 | 7 | 8 | 9 | 7 | 8 | 9 | 7 | 8 | 9 | 7 | 8 | 9 | 3 | 32 | 4 | | | | | | | |
| 67.49 | 57.37 | 27.14 | 61.48 | 24.18 | 13.15 | 11.54 | 22.20 | 20 | 18 | 11 | 17 | 22 | 26 | 9 | 7 | 8 | 7 | 8 | 9 | 7 | 8 | 9 | 7 | 8 | 9 | 7 | 8 | 9 | 7 | 8 | 9 | 3 | 32 | 4 | | | | | | | |
| 71.49 U. 48.51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



R15092

Fig.6

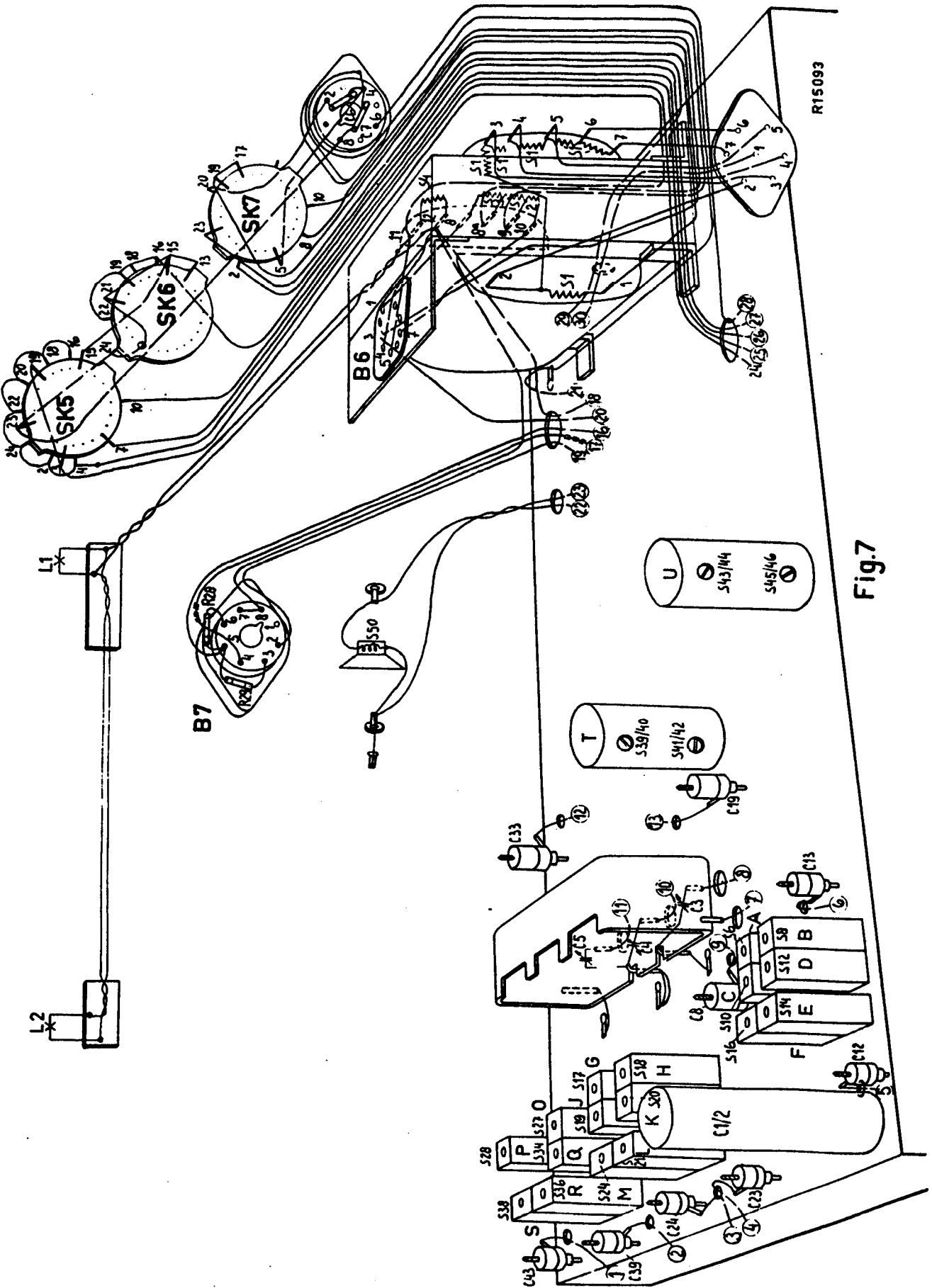
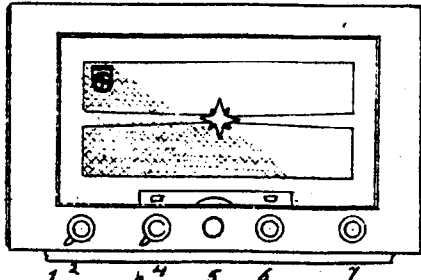


Fig.7

Eigendom van de N.V. Philips' Gloeilampenfabrieken, Eindhoven. Vermogensvuldiging of mededeeling aan derden in welke vorm ook, is zonder schriftelijke toestemming van eigenaars niet geoorloofd.

| ALG. GEG. GENERAL DATA | | Circuit type | | Superhet | | AFGELEIDE APPARATEN — DERIVED TYPES | |
|--|-------------------------|-------------------------------|--|---|--|---|--|
| Spanning an voeding | Voltage and supply | 7 (zie opm 1) | | | | | |
| Golfgebieden: st. 6 | Wave ranges: pos 6 | 11+13+16 mb (273-176 Mc) | | | | | |
| " " 5 | " " 5 | 20+25 " (176-116 ") | | | | | |
| " " 4 | " " 4 | 25+30 " (13-9.1 ") | | | | Zie opm 2 | |
| " " 3 | " " 3 | 40+50 " (9.3-5 ") | | | | | |
| " " 2 | " " 2 | 60-187 m (5-1604 ") | | | | | |
| " " 1 | " " 1 | 185-580 " (1622-517 Mc.) | | | | | |
| Bandspreiding | Bandspread | Ja | | | | BX 638 Z = BX 626 Z, echter voorzien van laadfeature | |
| Merk | Brand | Philips | | | | 4-standenschak. op achterwand. | |
| Luidspr. basistype | Speaker basic type | 9972-00 | | | | Laden van accu, spelen op accu uit, spelen op net. | |
| Extra luidspr. aansl. | Ext. speaker connect. | Ja | | | | Op stand buizen Schaal v. m. b. | |
| Luidspr. uitsch. baar | Speaker switch | Ja | | | | Net in in in in | |
| Gram. opn. aansl. | Pickup-sockets | Ja | | | | Accu in uit in in | |
| Gram. schak. | Pickup-switch | Ja | | keleke onder vol reg. | | Laden uit in uit | |
| Kwaliteitschak. | Performance-sw. | | | | | Laadstroom 0.5-1 Amp., afhankelijk van | |
| Tegenkoppeling | Inverse feedback | Ja | | | | aanspanning. | |
| Toonregeling | Tone control | Ja, hoog-cent + 2 st. bassch. | | | | | |
| Var. bandbreedte | Var. bandwidth | | | | | | |
| Afstemindicatie | Tuning indicator | Ja, m.c. | | | | | |
| Ing. antenne | Built in aerial | | | | | | |
| " " uitsch. b. | Sw. for built in aerial | | | | | | |
| Netzeef | Mains filter | | | | | | |
| Zuig/Sperkring | Wave trap | Vast (fixed): | | | | | |
| " " " | " " " | Facult. (Optional): | | | | | |
| Fijnregeling | Vernier drive | Ja, zie opm 2 | | | | | |
| Smelt-veiligheid | fuse | Ja, in aansluiting | | | | | |
| Veiligh. contact | Safety contact | | | | | | |
| Spanningsaflazing | Voltage indication | Car | | | | | |
| Uitvoering | Execution | Met vliegwielen Trapensafe | | | | | |
| Meeleveren | Extra accessories | | | | | | |
| Aantal H.F. kringen | Number of H.F. circ. | 1+1+1 | | | | | |
| " M.F. " | " " I.F. " | 2+2 | | | | | |
| M.F. in kHz | IF in Kc.'s | 452 | | | | | |
| Selectiviteit (S9) | Selectivity (S9) | MG (M.W.): 100X | | | | | |
| Gevoeligheid st. 6 | Sensitivity pos. 6 | ca 5 μ V | | ca 20 μ V | | | |
| " " 5 | " " 5 | " 3 " | | " 10 " | | | |
| " " 4 | " " 4 | " 3 " | | " 8 " | | op | |
| " " 3 | " " 3 | " 3 " | | " 8 " | | vibr | |
| " " 2 | " " 2 | " 2 " | | " 5 " | | | |
| " " 1 | " " 1 | " 2 " | | " 5 " | | | |
| B 1.6 in kHz | B 1.6 in Kc.'s | MG (MW): 3,5 | | | | | |
| Spiegelvert. MG | Image ratio MW | 2,5000 voor \leq 1000 Kc | | | | | |
| Verbruik op vibr. | Power cons. on vibr. | ca 3,1 A | | | | | |
| 125V ~ | 125V ~ | | | | | | |
| 220V ~ | 220V ~ | 40 W | | | | | |
| El. uitg. verm. vibr. | Output vibr. | 650 mW | | | | | |
| (D=10%) 125V ~ | (D=10%) 125V ~ | | | | | | |
| 220V ~ | 220V ~ | 1,5 W | | | | | |
| Ac. uitg. verm. vibr. | Acoust. outp. vibr. | 45 mW | | | | | |
| (D=10%) 125V ~ | (D=10%) 125V ~ | | | | | | |
| 220V ~ | 220V ~ | 90 mW | | | | | |
| | | | | OPMERKINGEN — REMARKS | | | |
| | | | | 1 Z 90-110-125-180-200-220V ~ + 6V accu met vibrator | | | |
| | | | | 2 Op stand 4.5 en 6 Colpitt-schakeling | | | |
| | | | | Onafhankelijke elektr. klynschakeling op stand 3 4 m b | | | |
| | | | | 3 App is voorzien van laadfeature (zie boven) | | | |
| | | | | 4 d PU = 45 mV op stand net | | | |
| | | | | 5 Kraak bovenkant kast en sagopening speaker toorman-doud | | | |
| | | | | Serie: | | Richtk.pr.: | |
| | | | | Ontwikkeling: | | Fabricage: | |
| BUIZEN VALVES | | H.F. buis H | | H.F. valve | | EF41 | |
| | | Mengbuis C | | Mixer valve | | ECH89 | |
| | | Osc. buis O | | Oscill. valve | | | |
| | | M.F. buis M | | IF. valve | | EBF80 | |
| | | Det. buis D | | Det. valve | | | |
| | | L.F. buis L | | A.F. valve | | EB41 | |
| | | Eindbuis E | | Power valve | | EL42 | |
| | | Gelijkr. buis G | | Rectifier valve | | EZ89 | |
| | | Faseomkeerb. F | | Phase-rev. valve | | | |
| | | Afstembuis A | | Tuning indicator | | EM 34 | |
| | | Verl. lampje(s) V | | Pilot lamp(s) | | 2X8045D-00 (niet op accu) | |
| | | Soort schaal | | Kind of scale | | Kwadrantschaal | |
| SCHAAL SCALE | | Afmetingen | | Dimensions | | | |
| | | Materiaal | | Material | | polystyreen | |
| | | Verlichting | | Lighting | | doorverlicht | |
| | | Ijking | | Calibration | | namen en makers | |
| | | Verloop | | Law | | 90° lin | |
| | | Slag | | Stroke | | 195 mm | |
| | | Wijzer | | Pointer | | witte wijzers | |
| | | Golfgebieden | | Wave ranges | | Ind. schijf dankzij een geveerd perlina's "witte bedruking" | |
| INTERIEUR EXTERIOR | | Kast | | Cabinet | | Hoogglans ornatie | |
| | | Schaalvenster | | Escutcheon | | | |
| | | Doek | | Silk | | K3007-21 | |
| | | Knoppen | | Knobs | | Ph. 36 ϕ , phil. 196 messing ring, midd. jaarm | |
| | | Embleem | | Emblem | | schildmotief om mee te p | |
| | | Sierstrip | | Ornamental strip | | | |
| | | Afm. b x h x d. | | Dim. l x h x w | | 550 x 340 x 220 mm | |
| RAPPORTNR. | | | | ONTVANGER RECEIVER 53/54 | | | |
| OPMERKING BEH-REM | | | | SPECIFICATIE SPECIFICATION | | | |
| GET.—DESS. GEZ.—DRAWN | | | | TYPE-VOLG. CODE-NR. BX638Z | | DAT. 17-3-54 | |
| | | | | BLT.—SH. 41 0 | | VERV.—REMP. ERS.—SUPERS. DAT. 11-12-53 | |
| N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, HOLLAND - HOOFDINDUSTRIEGROEP APPARATEN | | | | | | | |



- 1 = Ru. schak
- 2 = Accu-schak. vol. reg
- 3 = Basschak.
- 4 = Hoge tonen reg.
- 5 = Fijnregeling
- 6 = Golf. schak
- 7 = Afstemming
- 8 = Net-uit-vibr. schak. op achterwand