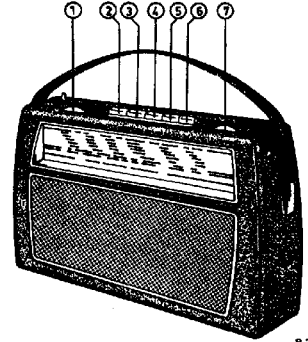


# PHILIPS *Service*

## RADIO

### L4X12T/01/05/08



R 20091



| <u>Controls</u> | <u>Bediening</u>       | <u>Bedienung</u> | <u>Commande</u>      | <u>Mandos</u>          |
|-----------------|------------------------|------------------|----------------------|------------------------|
| Volume control  | 1   Volumeregelaar     | Lautstärkereglér | Contrôle de volume   | 1   Control de volumen |
| Battery switch  | 2   Batterijschakelaar | Batterieschalter | Comm. de batterie    | 2   Comm. para pila    |
| Tone control    | 3   Toonregeling       | Tonregler        | Contrôle de tonalité | 3   Regulador de tono  |
| L.W. switch     | 4   L.G.-schakelaar    | LW-Schalter      | Commutateur G.O.     | 4   Comutador de O.L.  |
| M.W. switch     | 5   M.G.-schakelaar    | MW-Schalter      | Commutateur P.O.     | 5   Comutador de O.N.  |
| F.M. switch     | 6   F.M.-schakelaar    | UKW-Schalter     | Commutateur F.M.     | 6   Comutador de F.M.  |
| Tuning          | 7   Afstemming         | Abstimmung       | Syntonisation        | 7   Sintonía           |

| <u>Specification</u> | <u>Specificatie</u>            | <u>Spezifikation</u> | <u>Spécification</u> | <u>Especificación</u> |  |
|----------------------|--------------------------------|----------------------|----------------------|-----------------------|--|
| Loudspeaker          | AD 3414Z (3 Ω)                 | Luidspreker          | Lautsprecher         | Haut-parleur          | AD 3414Z (3 Ω)   Altavoz                 |
| I.F.                 | 452 kc/s (AM)<br>6,75Mc/s (FM) | M.F.                 | ZF                   | M.F.                  | 452 kc/s (AM)<br>6,75Mc/s (FM)   F.I.    |
| Battery voltage      | 9 V (6x1.5 V<br>2x4.5 V)       | Batterijspanning     | Batteriespannung     | Tens. de batt.        | 9 V (6x1.5 V<br>2x4.5 V)   Tens. de pila |
| Consumption          | 40 mA - 50 mW                  | Verbruik             | Verbrauch            | Consommation          | 40 mA - 50 mW   Consumo                  |
| Dimensions           | 290x185x100 mm                 | Afmetingen           | Abmessungen          | Dimensions            | 290x185x100 mm   Dimensiones             |

#### Wave ranges - Golfgebieden - Wellenbereiche - Gammas d'ondes - Márgenas de ondas

|                                 |   |                                |
|---------------------------------|---|--------------------------------|
| L.W. - L.G. - LW - G.O. - O.L.  | : | 150 - 260 kc/s (2000 - 1164 m) |
| M.W. - M.G. - MW - P.O. - O.N.  | : | 517 - 1612 kc/s ( 580 - 186 m) |
| F.M. - F.M. - UKW - F.M. - F.M. | : | 86.5 - 100 Mc/s ( 3.43 - 3 m)  |

#### Transistors

|              |                 |
|--------------|-----------------|
| TS1 : AF 114 | TS6 : OC 75     |
| TS2 : AF 115 | TS7,8 : 2-OC 74 |
| TS5 : AF 116 | GR1 : OA 79     |
| TS4 : AF 116 | GR2,3 : 2-OA 79 |
| TS5 : OC 75  | GR4 : OA 79     |

|                     |  |  |  |  |  |  |  |  |  |  |
|---------------------|--|--|--|--|--|--|--|--|--|--|
| SERVICE INFORMATION |  |  |  |  |  |  |  |  |  |  |
|---------------------|--|--|--|--|--|--|--|--|--|--|

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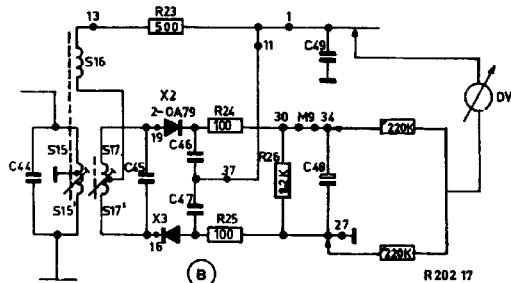
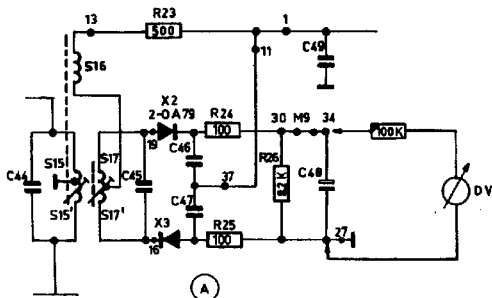
93 726 68.1.90

| Sery-O-Meoua<br>E-a-1<br>E-a-2<br>E-a-3   | Push button<br>Druktoets<br>Taste<br>Touche<br>Tecla | Trimming point<br>Trimpunt<br>Trimpunkt<br>Point de réglage<br>Punto de ajuste | Signal<br>Signaal<br>Signal<br>Signal<br>Señal | Adjust<br>Afrregelen<br>Abgleichen<br>Régler<br>Ajustense | Indication<br>Aanwijzing<br>Anzeige<br>Indicacion<br>Indicación                               |
|---|--|--|--|---|---|
| I.F. circuits<br>M.F.-kringen<br>ZF-Kreise (AM)<br>Circuits M.F.<br>Circuitos de F.I. | 5  | 1550 Kc/s  | 460 Kc/s<br>33k ± 1kΩ<br>BT84<br>BT83          | S28-S29<br>S26-S27  | max. output<br>max. uitg. spanning<br>max. Ausg. spannung<br>max. de sortie<br>max. de salida |
| R.F. circuits<br>H.F.-kringen<br>HF-Kreise<br>Circuits H.F.<br>Circuitos R.F.         | 5  | 550 Kc/s<br>1550 Kc/s  | 550 Kc/s<br>1550 Kc/s                          | S22<br>C38  |   |
|   | 4  | 148 Kc/s<br>200 Kc/s   | 148 Kc/s<br>200 Kc/s                           | C41<br>S21  |   |
| I.F. circuits<br>M.F.-kringen<br>ZF-Kreise<br>Circuits M.F.<br>Circuitos de F.I.      | 6  | 98 Mc/s  | 6,75 Mc/s 1500 pF<br>B-TS-4                    | S15<br>S17  | max. D.V. m<br>Ø.V. D.V. m  |
|   |  |  | 6,75 Mc/s 1500 pF<br>B-TS-3                    | S12<br>S13  |   |
|   |  |  | 6,75 Mc/s 1500 pF<br>E-TS-3                    | S7<br>S8  | max. D.V. m   |
| R.F. circuits<br>H.F.-kringen<br>HF-Kreise<br>Circuits H.F.<br>Circuitos de R.F.      | 5  | 88 Mc/s<br>98 Mc/s   | 88 Mc/s<br>88 Mc/s                             | S6, S4<br>C15, C7   | min. D.V. m<br><br>max. D.V. m  |

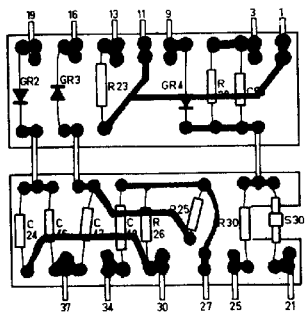
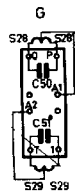
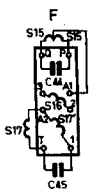
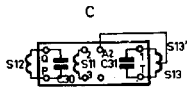
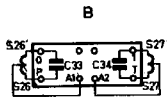
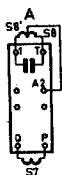
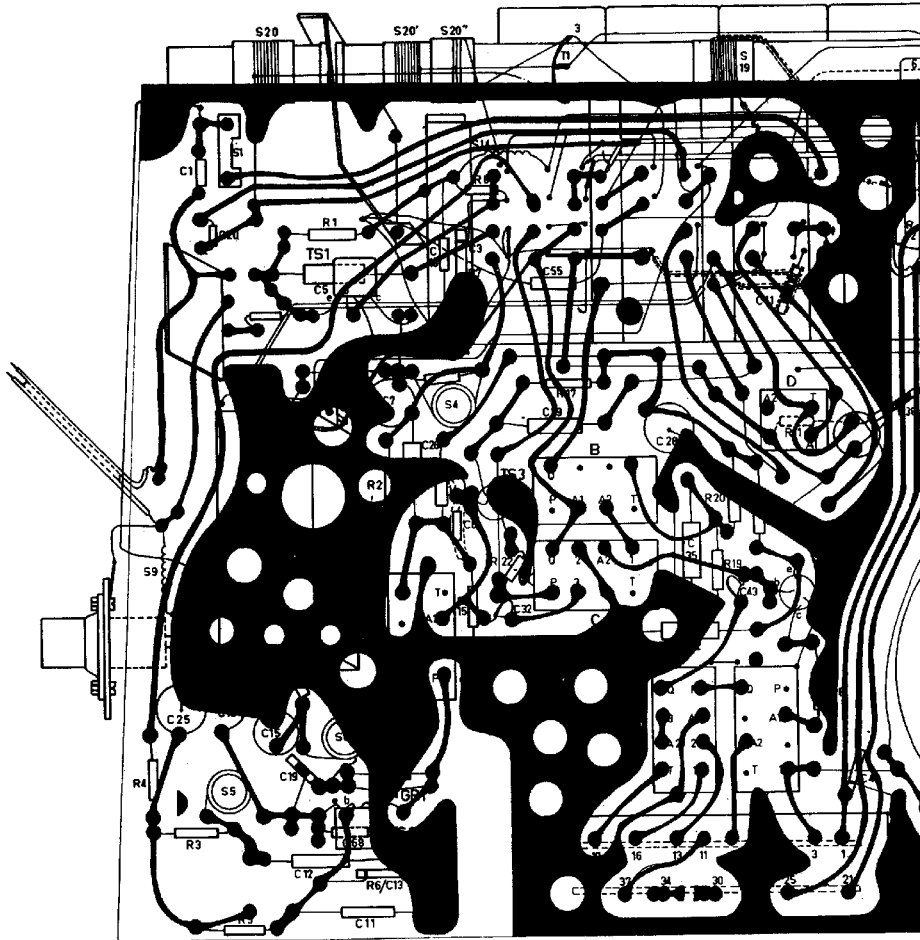
\* Connect diode voltmeter as indicated in fig. A.  
Diodevoltmeter aansluiten als aangegeven in fig. A.  
Diodevoltmeter anschliessen, wie angegeben in Abb. A.  
Connecter le voltmètre à diode comme il est indiqué dans la fig. A.  
Conéctese el voltímetro de diode como se indica en la fig. A.

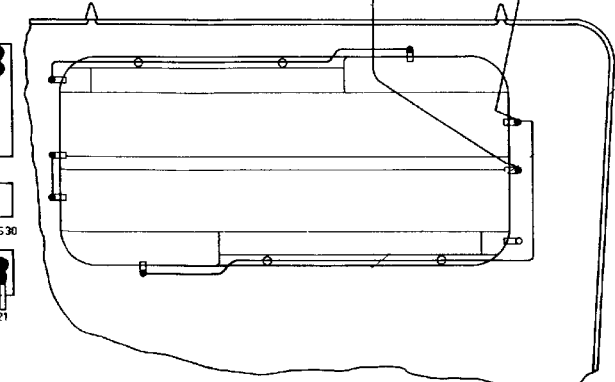
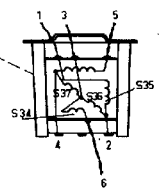
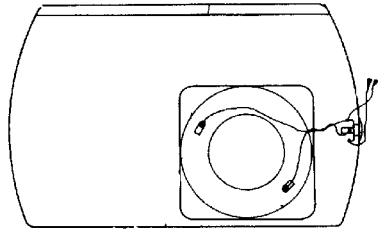
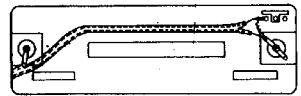
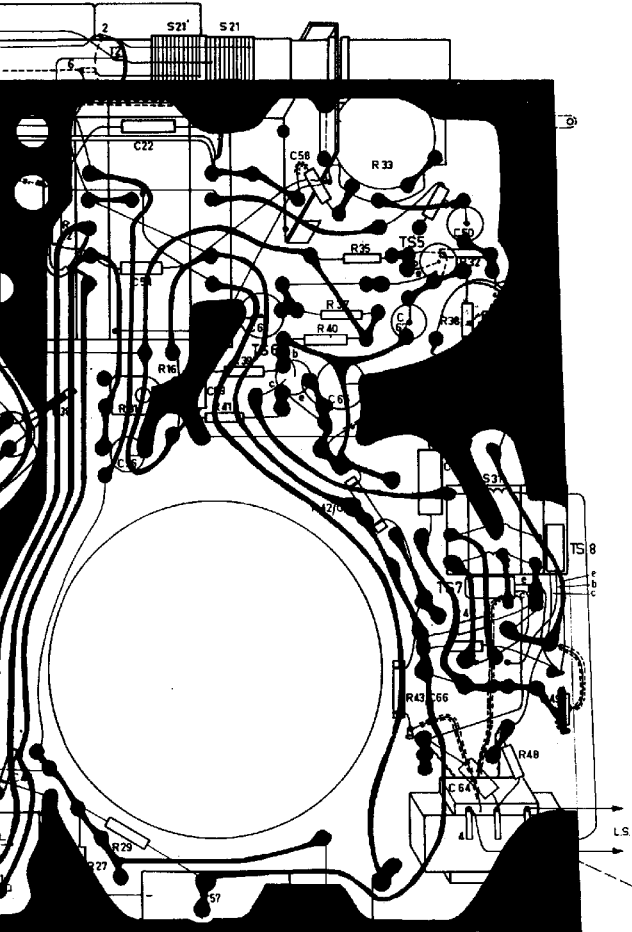
\*\* Connect diode voltmeter as indicated in fig. B.  
Diodevoltmeter aansluiten als aangegeven in fig. B.  
Diodevoltmeter anschliessen, wie angegeben in Abb. B.  
Connecter le voltmètre à diode comme il est indiqué dans la fig. B.  
Conéctese el voltímetro de diode como se indica en la fig. B.

JBa/PC



R 202 17





|                   |                                |                               |                                  |
|-------------------|--------------------------------|-------------------------------|----------------------------------|
| WE 731 57<br>(01) | Cabinet, front side            | Screw fixing handle           | Contact slide                    |
| WE 731 58<br>(05) | Keber, voorzijde               | Schroef bev. handgreep        | Kontactschuif                    |
| WE 731 59<br>(02) | Keber, toederteil              | Schraube Bef. Handgriff       | Kontaktschieber                  |
|                   | Coiffret, front                | Vis fixation poignée          | Tiroir                           |
|                   | Ga-ja, frente                  | Tornillo fij. asa             | Placa deslizante                 |
| WE 558 68         | Louderesker grill              | Aerial bush                   | Contact slide, F.M.              |
|                   | Luidsprekerrooster             | Antennebus                    | Contactenschuif, F.M.            |
| WE 221 56         | Zierlijst für Lautsprecher     | Antennebucsh                  | Kontaktschieber, UKW             |
|                   | Cadran                         | Doville antenne               | Tiroir, F.M.                     |
|                   | Cuadrante                      | Resbrilla antena              | Placa deslizante, F.M.           |
| WE 743 59         | Plexiglas before dial          | Aerial                        | Contact plate                    |
|                   | Plexiglas voor schaal          | Antenne                       | Contactplaat                     |
|                   | Blende für Skala               | Antenne                       | Kontaktplatte                    |
|                   | Penêtre devant cadran          | Antenna                       | Plaquelette fixe                 |
|                   | Ventana ante cuadrante         | Antena                        | Placa portcontactos              |
| WE 671 34         | Framing around dial            | Socket plate earphone         | Contact plate, F.M.              |
|                   | Sierlijst om schaal            | Ortel. aansluiting            | Contactplaat, F.M.               |
|                   | Rahmen um Skala                | Kofigurerbucsh                | Kontaktpatte, UKW                |
|                   | Cadre autour de cadren.        | Doville écouleur              | Plaqueette fixe, F.M.            |
|                   | Cuadro para cuadrante          | Resbrilla auriculares         | Placa portcontactos, F.M.        |
| WE 171 82         | Push button unit               | Rear cover                    | Contact spring                   |
|                   | Druckknopfeinheit              | Achterwand                    | Contactveer, UKW                 |
|                   | Ens comm. a touches            | Rückwand                      | Kontaktfeder                     |
|                   | Unidad de pulsadores           | Panneau arrière               | Resort de contact                |
| WE 613 65         | Ornamental strip, push button  | Screw fixing rear cover       | Resorte de contacto              |
|                   | Sierstrip voor toetsen         | Schroef bev. achterwand       | Contact spring, A9 027 16-17     |
|                   | Zierlijste für Tasten          | Schraube Bef. Rückwand        | Contactveer, A9 027 16-17        |
|                   | Bande enjoliveuse pour touches | Vis fix. panneau arrière      | Kontaktfeder, A9 027 16-17       |
|                   | Platina ornamental para teclas | Tornillo fij. panel post.     | Resort de contacto, A9 027 16-17 |
| EA 713 52         | Push button                    | Drum on varco                 | Contact plate, print side        |
|                   | Drucktoets                     | Trommel op varco              | Contactplaat, printzijde         |
|                   | Touche                         | Trommel auf Drehko            | Kontaktplate, Druckseite         |
|                   | Tecla                          | Tambour pour C.V.             | Plaqueette fixe, cote impr.      |
| A9 027 23         | Spring in push button          | Driving roller                | Placa portcontactos, lado impr.  |
|                   | Veer in druktoets              | Aandrijffrol                  | Contact lip                      |
|                   | Feder in Drucktaete            | Seilrolle                     | Contactlip                       |
|                   | Resort dans touche             | Rouleau d'entraînement        | Schalterkontakt                  |
|                   | Resorte en tecla               | Rollo de arrastre             | Contact pour plaqueette          |
| WE 743 55         | Knob                           | Spring, battery holder        | Contacto fijo                    |
|                   | Knopf                          | Veer, batt. holder            | Stop plate                       |
|                   | Bouton                         | Feder, Batt. Halter           | Arrestplaat                      |
|                   | Botón                          | Resort, porta pile            | Arrestierplatte                  |
| WE 309 43         | Handle                         | Resorte, porta pila           | Placa d'arrêt                    |
|                   | Handgreep                      | Contact plate, batt. holder   | Placa de tope                    |
| WE 309 74         | Handgriff                      | Contactplaat, batt. holder    | Stop spring                      |
|                   | Poignée                        | Kontakblech, Batt. Halter     | Arrestveer                       |
|                   | As                             | Plaque de contact porte pile  | Arrest d'arrét                   |
|                   |                                | Placa de contacto, porte pila | Resort de tope                   |
| WE 309 35         |                                | Contact strip                 | Spring for stop plate            |
|                   |                                | Contactstrip                  | Veer voor arrestplaat            |
|                   |                                | Plaque fixe                   | Feder für arrestierplatte        |
|                   |                                | Placa porta contactos         | Resort pour plaque d'arrét       |
|                   |                                |                               | Resorte para placa de tope       |

S26  
S26  
S27

I.F. circuit, F.M.  
M.F.kring, F.M.

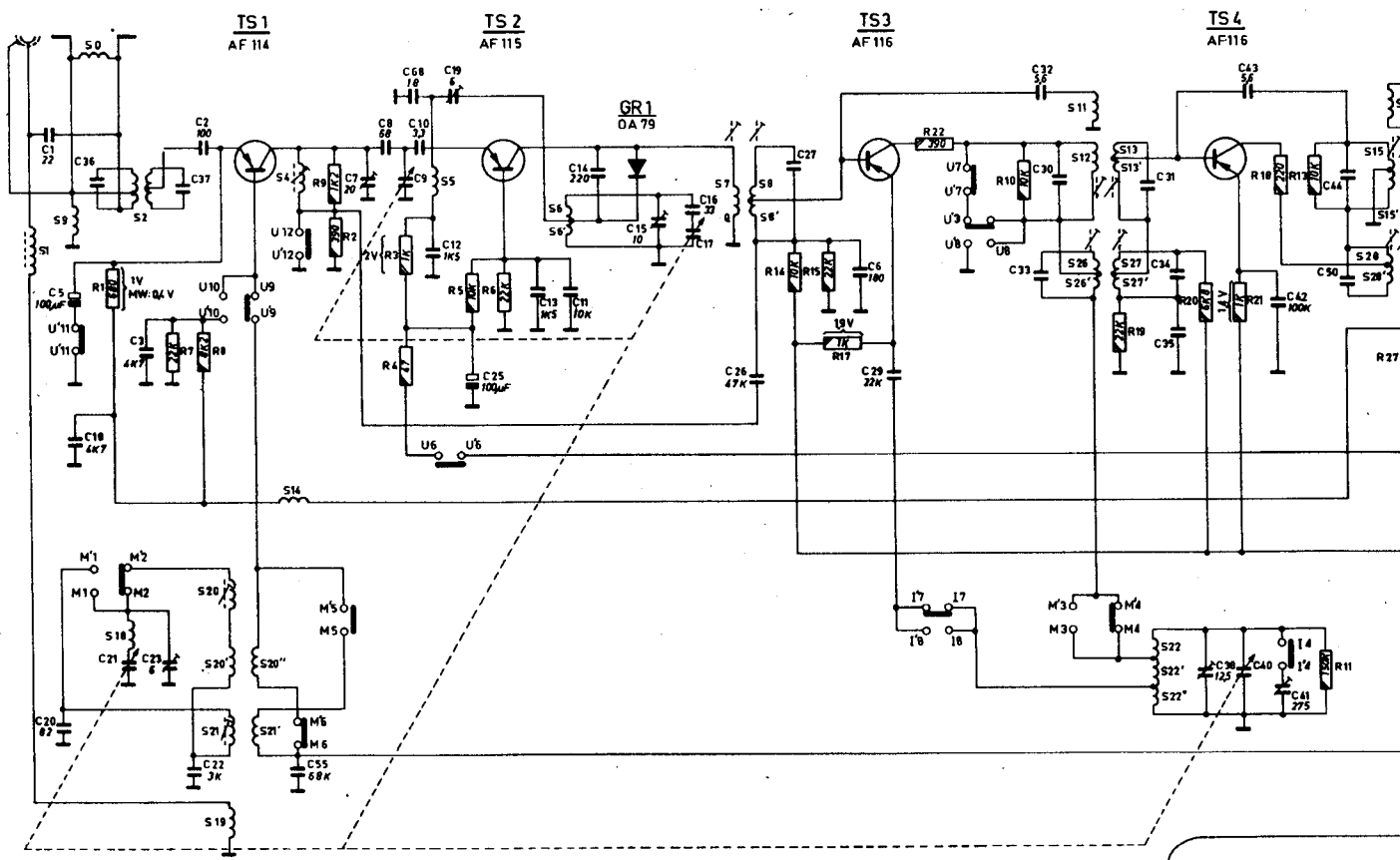
S11  
S12

Choke  
Zuocorroel

|     |                |   |           |   |   |
|-----|----------------|---|-----------|---|---|
| S0  | WE 114 22      | Choke<br>Smoorespoel<br>Drossel<br>Self<br>Choque   | WE 121 78 | I.F. circuit, F.M.<br>M.F. kring, F.M.<br>ZF-Kreise, UKW<br>Circuit de M.F., F.M.<br>Circuit de F.I., F.M.                          | S26'<br>S26'<br>S27<br>S27'<br>C33<br>C34 |
| S1  | WE 113 26      | Coil  | WE 112 45 | Choke<br>Smoorespoel  | S28<br>S28'                               |
| S5  | WE 113 30      | Spoel   | WE 112 45 | Drossel   | S29'                                      |
| S9  | WE 112 99      | Soule<br>Bobine<br>Bobina   | WE 112 45 | Self<br>Choque  | S30<br>C50<br>C51                         |
| S2  | WE 114 01      | Input circuit, F.M.<br>Ingangskring, F.M.<br>Eingangskreise, UKW<br>Circuit d'entrée, F.M.<br>Circuito de entrada, F.M.                       | WE 121 79 | Ratio detector<br>Ratiodetektor<br>Ratiodetektor<br>Défcteur de rapport<br>Detector de relación                                     | S30<br>S30                                |
| S4  | WE 113 28      | Intern.circuit coil, F.M.<br>Innenspeelspoel, F.M.<br>Zwischenspeel, UKW<br>Bobine de circuit interm. F.M.<br>Bobina de circuito interm. F.M. | WE 112 99 | Choke<br>Smoorespoel<br>Drossel<br>Self<br>Choque   | S31<br>S32<br>S33                         |
| S6  | WE 113 29      | Oscillator coil, F.M.<br>Oscillatrorspoel, F.M.<br>Oscillatrorspule, UKW<br>Bobine d'oscillateur, F.M.<br>Bobina de oscilador, F.M.           | WE 741 36 | Rod aerial<br>Staanantenne<br>Stabantenne<br>Cadre ferrocube<br>Antena de varilla   | S34<br>S35<br>S36<br>S37<br>S38           |
| S7  | WE 121 77      | I.F. circuit, F.M.<br>M.F. kring, F.M.<br>ZF-Kreise, UKW<br>Circuit de M.F., F.M.<br>Circuit de F.I., F.M.                                    | WE 121 80 | Oscillator coil, M.W.<br>Oscillatrorspoel, M.W.<br>Oscillatrorspule, UKW<br>Bobine d'oscillateur, P.O.<br>Bobina de oscilador, O.K. | C9<br>C17<br>C21<br>C40                   |
| R6  | E 551 AA/52+39 |   |           | E 210 BC/A130A  | C52                                       |
| R7  | E 551 AA/52+44 |   |           | 909/W100<br>909/26.4<br>C 004 PA/20E  | C56<br>C57<br>C58                         |
| R42 | E 551 AA/60+42 |   |           | 908/P10E<br>907/1E-6E<br>908/6E   | C59<br>C61<br>C62                         |
| R43 | E 551 AA/60+24 |   |           | 909/W100  | C65                                       |
| R31 | WE 417 75      |   |           | 907/1E5-12E5  | C69                                       |
| R33 | WE 366 67      |   |           | 907/45E-275E  |   |
| R44 | WE 671 43      |   |           | 909/26.4  |   |

JCB/kJ

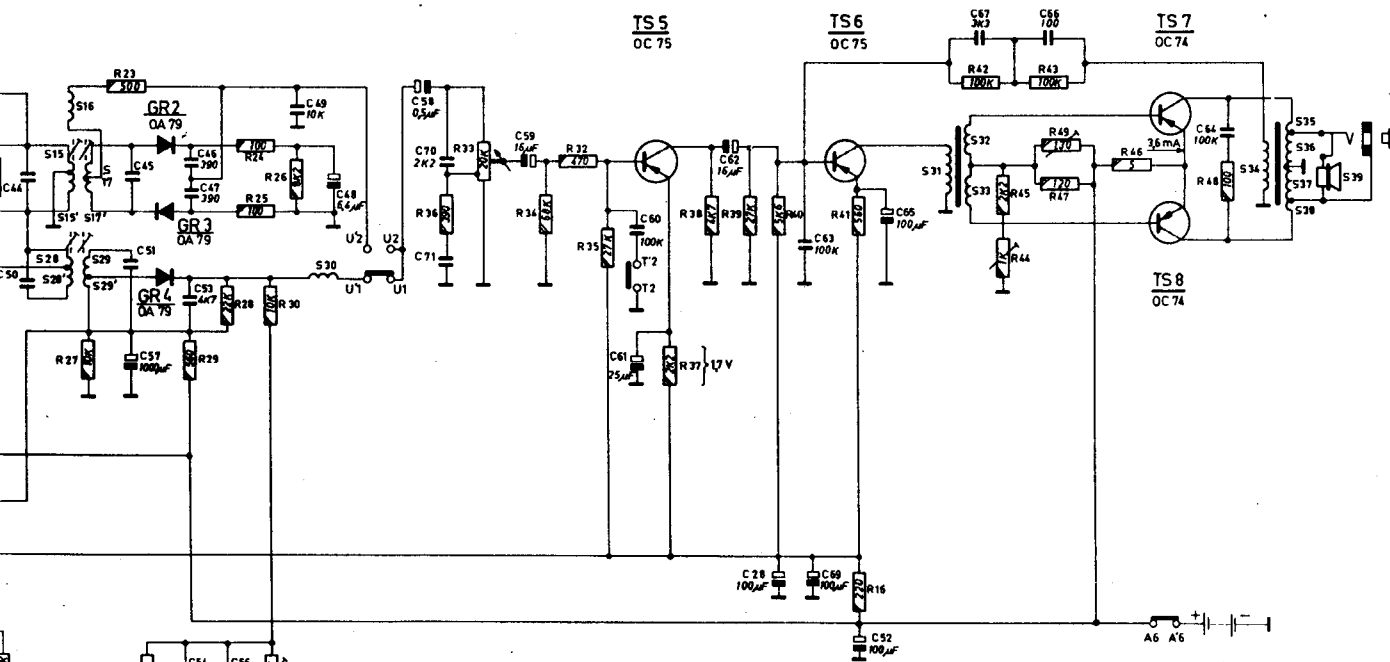
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|----|---|----|----|----|----|-----|----|----|-----|-----|----|----|----|----|----|----|----|----|----|-----|----|-----|----|-----|----|-----|-----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|
| S: | 1 | 9  | 10 | 2  | 20 | 20' | 21 | 19 | 20' | 21' | 4  | 6  | 6' | 7  | 0  | 8' | 11 | 12 | 26 | 26' | 13 | 13' | 27 | 27' | 22 | 22' | 22' | 15 | 15' | 28 |    |    |    |    |    |    |    |    |    |    |    |
| C: | 1 | 20 | 3  | 10 | 36 | 21  | 3  | 23 | 37  | 2   | 22 | 55 | 7  | 8  | 9  | 68 | 12 | 10 | 25 | 13  | 11 | 14  | 15 | 16  | 17 | 27  | 6   | 29 | 73  | 32 | 30 | 31 | 34 | 35 | 38 | 40 | 43 | 42 | 41 | 44 | 50 |
| R: | 1 | 7  | 8  | 9  | 2  | 3   | 4  | 5  | 6   | 14  | 15 | 17 | 22 | 10 | 19 | 20 | 21 | 10 | 13 | 11  | 27 |     |    |     |    |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |



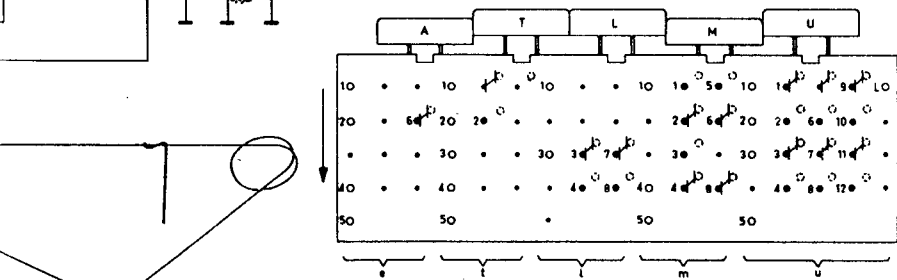
735 mm

T/01/05/08

|    |     |    |     |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|----|-----|----|-----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| 15 | 15' | 26 | 26' | 16 | 17 | 29 | 29' | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| 4  | 50  | 45 | 51  | 57 | 46 | 47 | 53  | 54 | 56 | 49 | 48 | 58 | 70 | 71 | 59 | 60 | 61 | 62 | 28 | 63 | 69 | 52 | 65 | 67 | 66 | 64 | 34 | 35 | 36 | 37 | 38 | 39 |  |  |
| 11 | 27  | 23 | 12  | 29 | 28 | 24 | 25  | 30 | 31 | 26 | 36 | 33 | 34 | 35 | 37 | 38 | 39 | 40 | 41 | 16 | 42 | 44 | 45 | 43 | 49 | 47 | 46 | 48 |    |    |    |    |  |  |



R 201 82



R 202 21



# PHILIPS *Service*

## INFORMATION

### RADIO

27.8.1962

L4X12T/00/01/05/08

Ba 618



In the abovementioned sets, it may happen that the rear panel cannot be fixed because the thread in the bush is worn out. The plastic bracket for fixing the rear panel can be ordered under code number WE 744 86. Please mention this in your documentation.

- - - - -

Bij bovengenoemde apparaten kan het voorkomen, dat de achterwand niet bevestigd kan worden, omdat de schroefdraad in de bus versleten is. De plastic beugel ter bevestiging van de achterwand kan besteld worden onder codenummer WE 744 86. Gelieve dit in Uw documentatie te vermelden.

- - - - -

Dans les appareils susmentionnés il peut arriver que le panneau arrière ne peut pas être fixé, parce que le filet dans le manchon est usé. L'équerre en plastique pour fixer le panneau arrière peut être commandé sous le numéro de code WE 744 86. Veuillez mentionner cela dans votre documentation.

- - - - -

In den obengenannten Apparaten kann es vorkommen, dass die Rückwand nicht befestigt werden kann, weil das Gewinde in der Büchse abgenutzt ist. Die Rückwandschiene kann unter Kodenummer WE 744 86 bestellt werden. Bitte, erwähnen Sie dies in Ihrer Kundendienstanleitung.

- - - - -

En los aparatos arriba indicados puede presentarse el caso de que el panel posterior no puede fijarse, puesto que la rosca en el buje está desgastada. La abrazadera de plástico para fijar el panel posterior puede pedirse bajo el número de código WE 744 86. Sírvanse mencionar esto en su Documentación.

CENTRAL SERVICE

*M. Sijm*  
Th. Sijm.