

# Service Manual



**Smartradio** (G.HH 75-00)  
**Smartradio CC** (G.HH 76-00)

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Zusätzlich erforderliche Unterlagen für den Komplettservice  
Additionally required Documents for the Complete Service



Dieses Service Manual ist nur in Datenform verfügbar  
This Service Manual is only available as data

Änderungen vorbehalten  
Subject to alteration

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E-BS 36 1199  
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## D Abgleichvorschriften

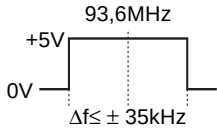
### 1. Hauptplatte

**Meßgeräte:** DC-Voltmeter, Meßsender, NF-Voltmeter, Stereo-Coder, Wobbler, Oszilloskop

#### Aufruf der Parameterliste:

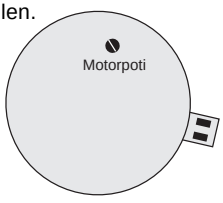
Gerät ausschalten. Stationstaste 2 drücken, gedrückt halten und Gerät einschalten. Stationstaste 2 gedrückt halten bis die Frequenzanzeige erscheint. Taste TP drücken und ca. 10 Sekunden gedrückt halten, bis zum zweiten Ton. Taste FM drücken um in den Parametermodus zu gelangen. Im Display erscheint jetzt z.B. **00 0940** (Parameter 00 und Wert 0940). Durch Drehen am rechten Drehgeber den gewünschten Parameter anwählen. Ändern des Parameterwertes mit den Stationstasten 1 (**0940**), 2 (**0940**), 3 (**0940**) und 4 (**0940**). Zum Abspeichern des geänderten Wertes mit dem rechten Drehgeber auf einen anderen Parameter weiterschalten.

**Sollte versehentlich ein anderer Parameter geändert werden, können Sie dessen korrekten Wert aus der Parametertabelle auf der Seite 5 entnehmen.**

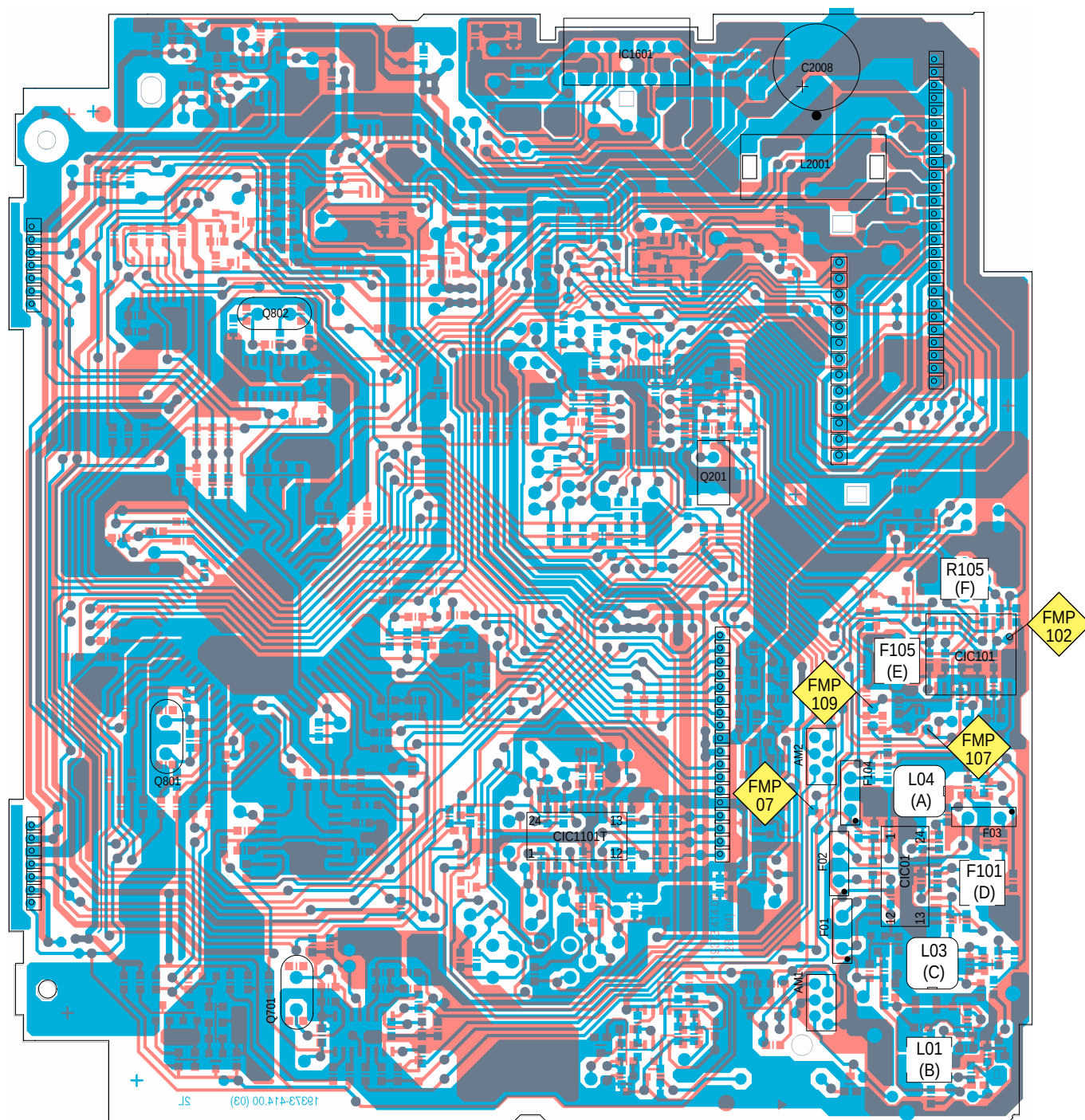
| Abgleich                | Vorbereitung                                                                                                                                                                                                                                                                                                                                                                                                               | Abgleichvorgang                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. FM-Oszillator        | <b>DC-Voltmeter</b> an <b>FMP07</b> .                                                                                                                                                                                                                                                                                                                                                                                      | Mit <b>L04 (A)</b> bei <b>93,6MHz</b> auf <b>2,7V ± 50mV</b> abgleichen.                                                                                 |
| 2. Stop-Generator       | Wobbler an Antenneneingang;<br>Mittenfrequenz <b>93,6MHz</b> ; $\Delta f = \pm 100\text{kHz}$ ;<br>ohne Modulation; $E' = 1\text{mV}$ (60dB $\mu\text{V}$ ).<br><b>Oszilloskop</b> an <b>FMP107</b> .                                                                                                                                                                                                                      | Mit <b>F105 (E)</b> auf symmetrischen Spannungssprung einstellen.<br> |
| 3. FM-HF- und ZF-Kreise | Meßsender an Antenneneingang;<br>Frequenz <b>93,6MHz</b> ;<br>$f_{\text{mod}} = 1\text{kHz}$ ; Hub = 22,5kHz; $E' = 3\mu\text{V}$ (10dB $\mu\text{V}$ ).<br><b>NF-Voltmeter</b> an <b>Lautprecherausgänge</b> .                                                                                                                                                                                                            | Wechselweise mit <b>L01 (B)</b> und <b>L03 (C)</b> auf <b>Maximum</b> abgleichen.<br>Mit <b>F101 (D)</b> auf <b>Maximum</b> abgleichen.                  |
| 4. Feldstärkepegel      | Meßsender an Antenneneingang;<br>Frequenz <b>93,6MHz</b> ;<br>ohne Modulation; $E' = 100\mu\text{V}$ (40dB $\mu\text{V}$ ).<br><b>DC-Voltmeter</b> zwischen <b>FMP102 (+)</b> und <b>FMP109 (-)</b> .                                                                                                                                                                                                                      | Mit <b>R105 (F)</b> auf <b>+600mV</b> einstellen.                                                                                                        |
| 5. Stereodecoder        | Meßsender mit Stereo-Coder an Antenneneingang;<br>Frequenz <b>93,6MHz</b> ;<br>$f_{\text{mod}} = 1\text{kHz}$ mit 22,5kHz Hub;<br>Pilotton 19kHz mit 7,5kHz Hub;<br>RDS 57kHz mit 1,2kHz Hub; $E' = 3\text{mV}$ (70dB $\mu\text{V}$ ).<br>Nur <b>linken Kanal</b> modulieren.<br><b>NF-Voltmeter</b> an <b>Lautsprecher-Ausgang rechter Kanal</b> .<br><b>Parameterliste</b> aktivieren (s. o.).<br>Parameter 37 anwählen. | Durch Ändern des Wertes auf <b>minimale Anzeige</b> einstellen.                                                                                          |

### 2. Cassettenlaufwerk

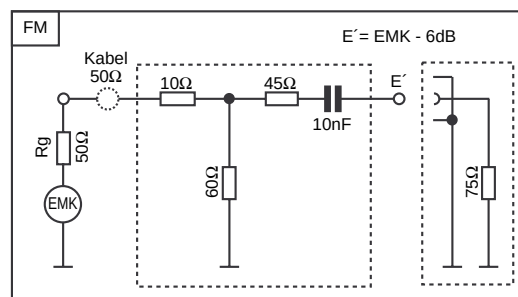
**Meßgeräte:** Frequenzzähler, Test-Cassette **3150Hz** (z.B. 448A)

| Abgleich            | Vorbereitung                                                                                                | Abgleichvorgang                                                                                                                             |
|---------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Bandgeschwindigkeit | <b>Frequenzzähler</b> an <b>Lautsprecher-Ausgang</b> anschließen.<br>Test Cassette <b>3150Hz</b> abspielen. | Mit <b>Motorpoti</b> auf <b>3150Hz</b> einstellen.<br> |

## Abgleichlageplan / Alignment Layout



Zum Abgleich die Antennennachbildung für FM verwenden.  
For adjustment use the aerial dummy for FM.



## GB Adjustment Procedures

### 1. Main Board

**Test equipment:** DC Voltmeter, Test Generator, AF Voltmeter, Stereo Coder, Sweep Generator, Oscilloscope

#### Calling up the Parameter List:

Switch off the set. Press and hold depressed station button 2 and switch on the set. Hold the station button 2 depressed until the frequency is displayed. Press and hold depressed the TP button for about 10 seconds until the second sound. Press the FM button to enter the Parameter Mode. The display now shows e.g. 00 0940 (parameter 00 and value 0940). Rotate the right rotary knob to select the desired parameter. Change the value with the station buttons 1 (0940), 2 (0940), 3 (0940) and 4 (0940). To store the new value select another parameter with the right rotary knob.

If you changed an other parameter by mistake you can find its correct value in the parameter table on page 5.

| Adjustment        | Preparation                                                                                                                                                                                                                                                                                                                                                                                                                                            | Adjustment Procedure                                                                                                             |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 1. FM Oscillator  | Connect a <b>DC Voltmeter</b> to <b>FMP07</b> .                                                                                                                                                                                                                                                                                                                                                                                                        | Align with <b>L04 (A)</b> at <b>93.6MHz</b> for <b>2.7V ± 50mV</b> .                                                             |
| 2. Stop Generator | Connect a sweep generator to aerial input.<br><b>Center frequency 93.6MHz</b> ; $\Delta f = \pm 100\text{kHz}$ ;<br>no modulation; $E' = 1\text{mV}$ (60dB $\mu\text{V}$ );<br>Connect an <b>Oscilloscope</b> to <b>FMP107</b> .                                                                                                                                                                                                                       | Align <b>F105 (E)</b> for a symmetrical stop impulse.<br><div style="text-align: center;"> </div>                                |
| 3. FM RF and IF   | Connect a Test Generator to aerial input;<br>Frequency <b>93.6MHz</b> ;<br>$f_{\text{mod}} = 1\text{kHz}$ ; Dev. = 22.5kHz; $E' = 3\mu\text{V}$ (10dB $\mu\text{V}$ ).<br>Connect an <b>AF Voltmeter</b> to <b>loudspeaker outputs</b> .                                                                                                                                                                                                               | Align alternating with <b>L01 (B)</b> and <b>L03 (C)</b> for <b>maximum</b> .<br>Align with <b>F101 (D)</b> for <b>maximum</b> . |
| 4. Fieldstrength  | Connect a Test Generator to aerial input;<br>Frequency <b>93.6MHz</b> ;<br>no modulation; $E' = 100\mu\text{V}$ (40dB $\mu\text{V}$ ).<br>Connect a <b>DC Voltmeter</b> between <b>FMP102 (+)</b> and <b>FMP109 (-)</b> .                                                                                                                                                                                                                              | Align with <b>R105 (F)</b> for <b>+600mV</b> .                                                                                   |
| 5. Stereo Decoder | Connect a Test Generator via a Stereo Coder to aerial input;<br>Frequency <b>93.6MHz</b> ;<br>$f_{\text{mod}} = 1\text{kHz}$ at 22.5kHz dev.;<br>Pilot 19kHz at 7.5kHz dev.;<br>RDS 57kHz at 1.2kHz dev.; $E' = 3\text{mV}$ (70dB $\mu\text{V}$ );<br>modulate only the <b>left channel</b> .<br>Connect an <b>AF Voltmeter</b> to <b>loudspeaker output right channel</b> .<br>Call up the <b>parameter list</b> (see above).<br>Select parameter 37. | Set the parameter value for <b>minimum AF voltage</b> .                                                                          |

### 2. Cassette Drive

**Test equipment:** Frequency Counter, Test Cassette **3150Hz** (e.g. 448A)

| Adjustment | Preparation                                                                                           | Adjustment Procedure                                                                         |
|------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Tape Speed | Connect <b>Frequency Counter</b> to <b>Loudspeaker Output</b> .<br>Play Test Cassette <b>3150Hz</b> . | With <b>Motorpoti</b> adjust for <b>3150Hz</b> .<br><div style="text-align: center;"> </div> |

## Parametertabelle / Set of Parameters

Smartradio

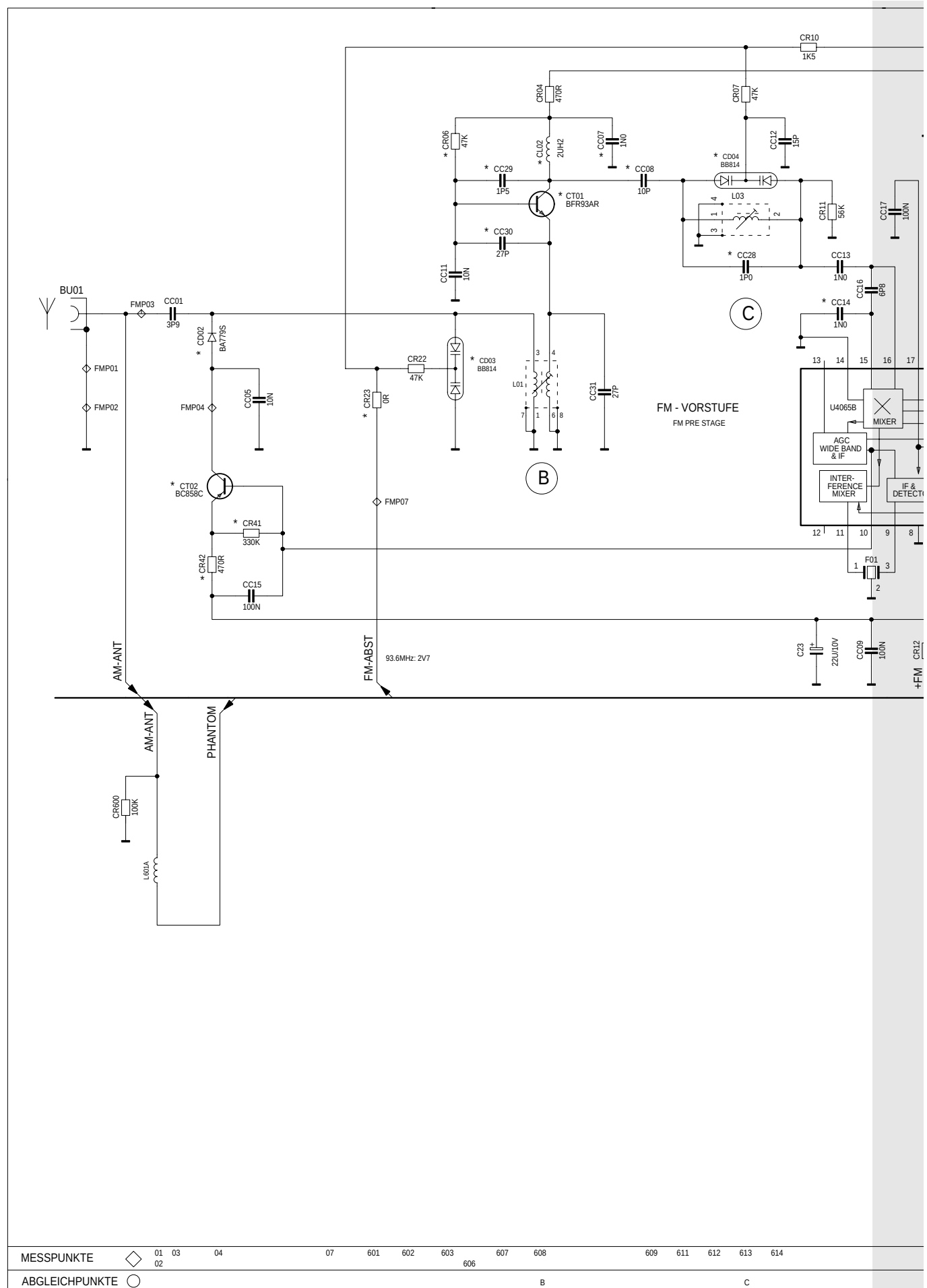
| Parameter | Wert<br>Value | Beschreibung<br>Description    |
|-----------|---------------|--------------------------------|
| 00        | 0940          |                                |
| 01        | 1460          |                                |
| 02        | 1700          |                                |
| 03        | 2400          |                                |
| 04        | 2000          |                                |
| 05        | 1600          |                                |
| 06        | 1500          |                                |
| 07        | 2500          |                                |
| 08        | 3000          |                                |
| 09        | 0440          |                                |
| 10        | 0540          |                                |
| 11        | 3800          |                                |
| 12        | 3500          |                                |
| 13        | 3000          |                                |
| 14        | 2700          |                                |
| 15        | 2500          |                                |
| 16        | 3200          |                                |
| 17        | 0002          |                                |
| 18        | 0010          |                                |
| 19        | 0025          |                                |
| 20        | 0060          |                                |
| 21        | 0060          |                                |
| 22        | 0002          |                                |
| 23        | 0010          |                                |
| 24        | 0040          |                                |
| 25        | 0004          |                                |
| 26        | 0020          |                                |
| 27        | 0050          |                                |
| 28        | 0080          |                                |
| 29        | 0002          |                                |
| 30        | 0075          |                                |
| 31        | 0000          |                                |
| 32        | 0016          |                                |
| 33        | 2000          |                                |
| 34        | 0006          |                                |
| 35        | 0001          |                                |
| 36        | 0004          |                                |
| 37        |               | Stereodekoder / Stereo Decoder |
| 38        | 0007          |                                |
| 39        | 0017          |                                |

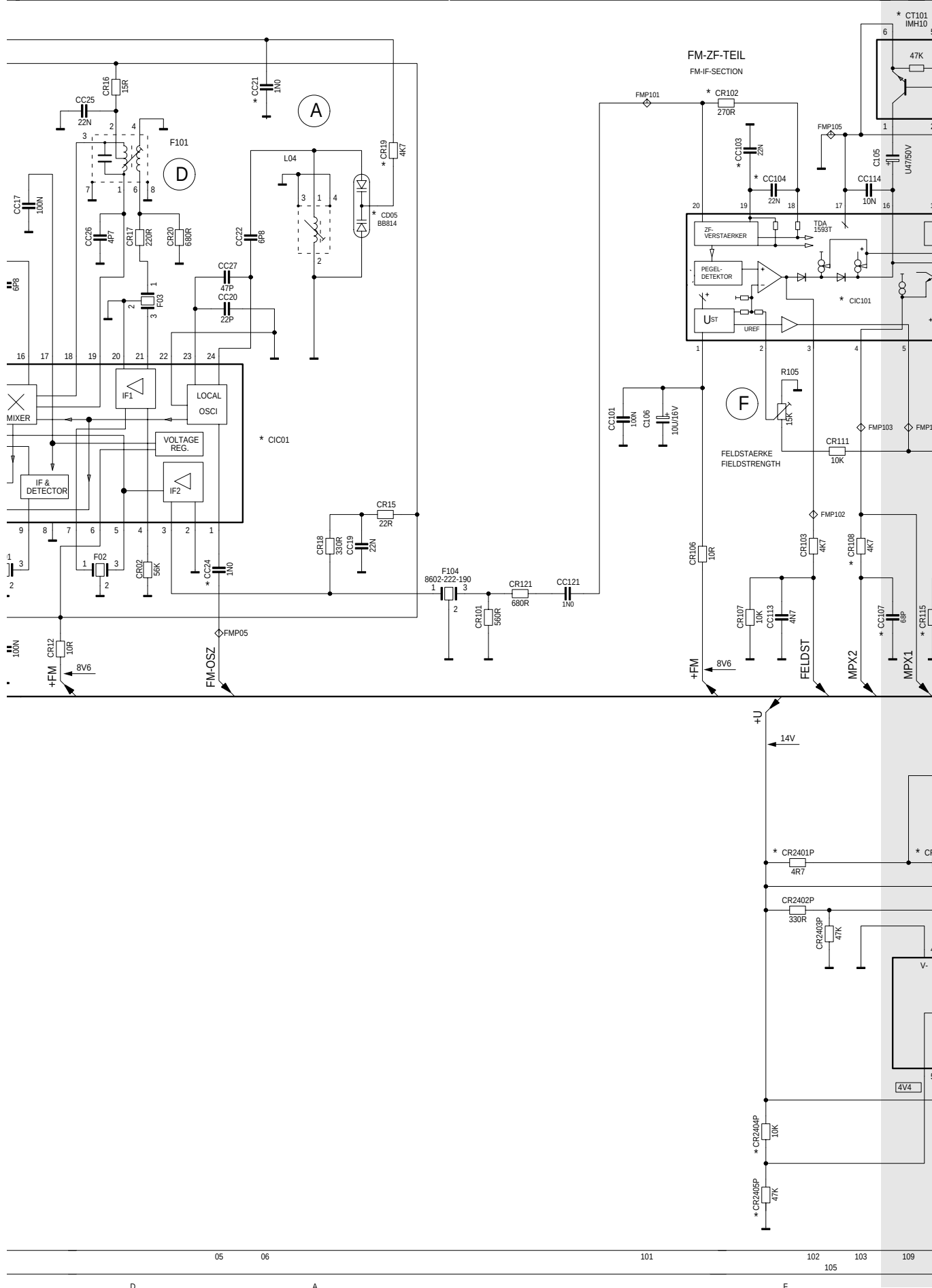
Smartradio CC

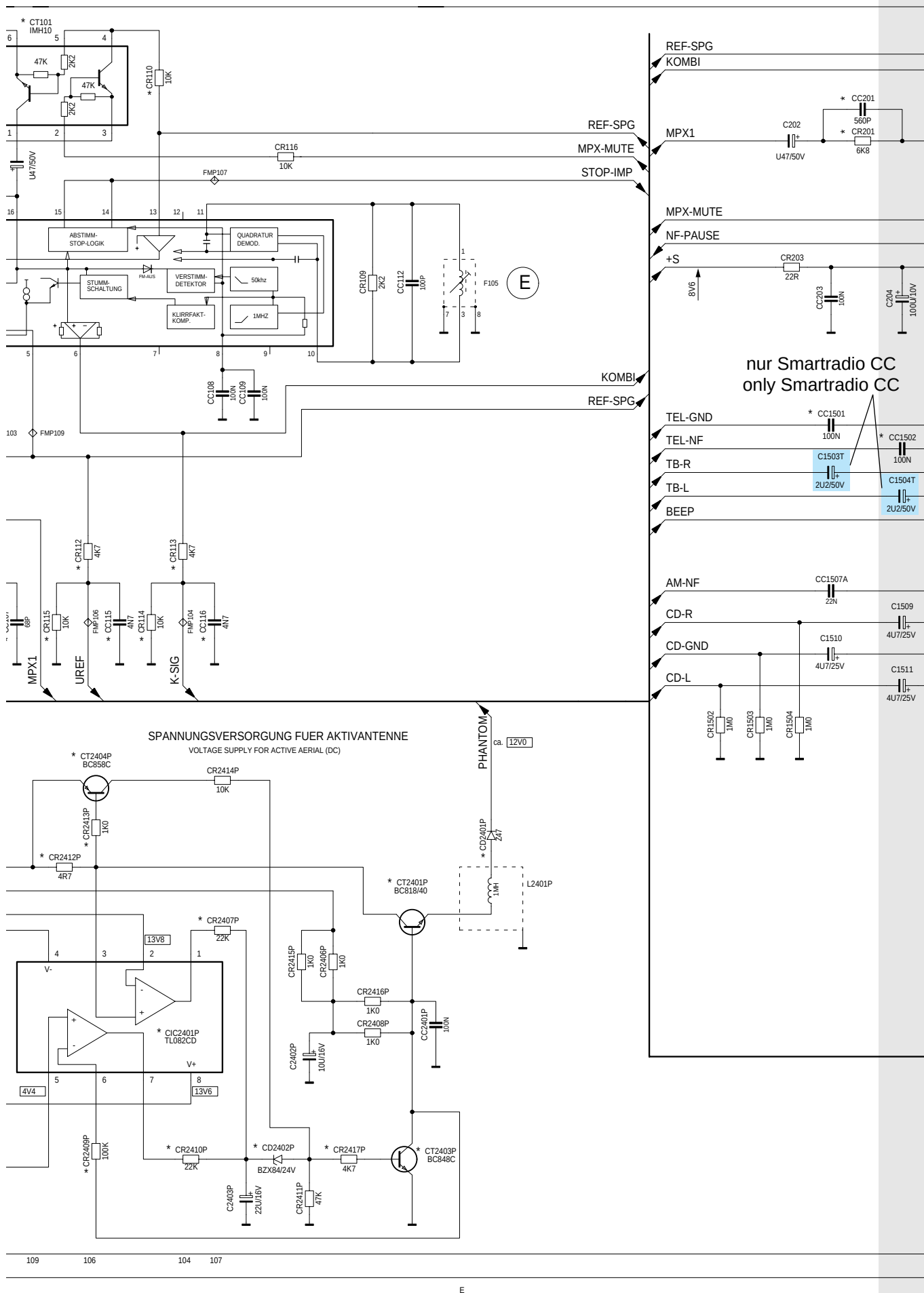
| Parameter | Wert<br>Value | Beschreibung<br>Description    |
|-----------|---------------|--------------------------------|
| 00        | 0940          |                                |
| 01        | 1460          |                                |
| 02        | 1700          |                                |
| 03        | 2400          |                                |
| 04        | 2000          |                                |
| 05        | 1600          |                                |
| 06        | 1500          |                                |
| 07        | 2500          |                                |
| 08        | 3000          |                                |
| 09        | 0440          |                                |
| 10        | 0540          |                                |
| 11        | 3800          |                                |
| 12        | 3500          |                                |
| 13        | 3000          |                                |
| 14        | 2700          |                                |
| 15        | 2500          |                                |
| 16        | 3200          |                                |
| 17        | 0002          |                                |
| 18        | 0010          |                                |
| 19        | 0025          |                                |
| 20        | 0060          |                                |
| 21        | 0060          |                                |
| 22        | 0002          |                                |
| 23        | 0010          |                                |
| 24        | 0040          |                                |
| 25        | 0004          |                                |
| 26        | 0020          |                                |
| 27        | 0050          |                                |
| 28        | 0080          |                                |
| 29        | 0002          |                                |
| 30        | 0075          |                                |
| 31        | 0000          |                                |
| 32        | 0020          |                                |
| 33        | 2000          |                                |
| 34        | 0006          |                                |
| 35        | 0001          |                                |
| 36        | 0004          |                                |
| 37        |               | Stereodekoder / Stereo Decoder |
| 38        | 0007          |                                |
| 39        | 0017          |                                |

## Schaltpläne und Druckplattenabbildungen / Circuit Diagrams and Layout of PCBs

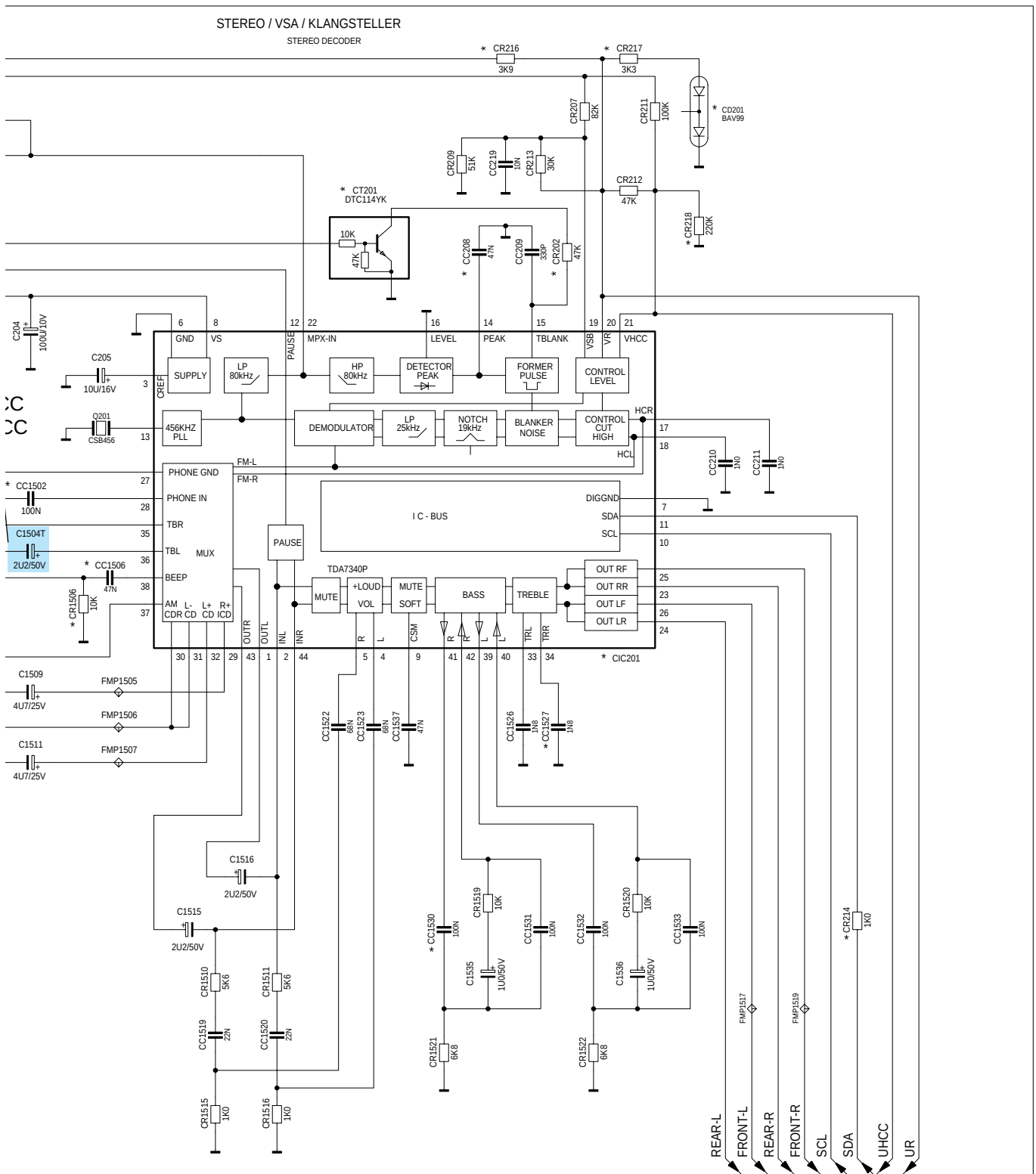
## HF-Teil / RF Part











15.04.99

1505  
1506  
15071517  
1519

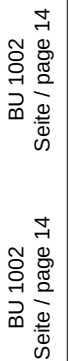
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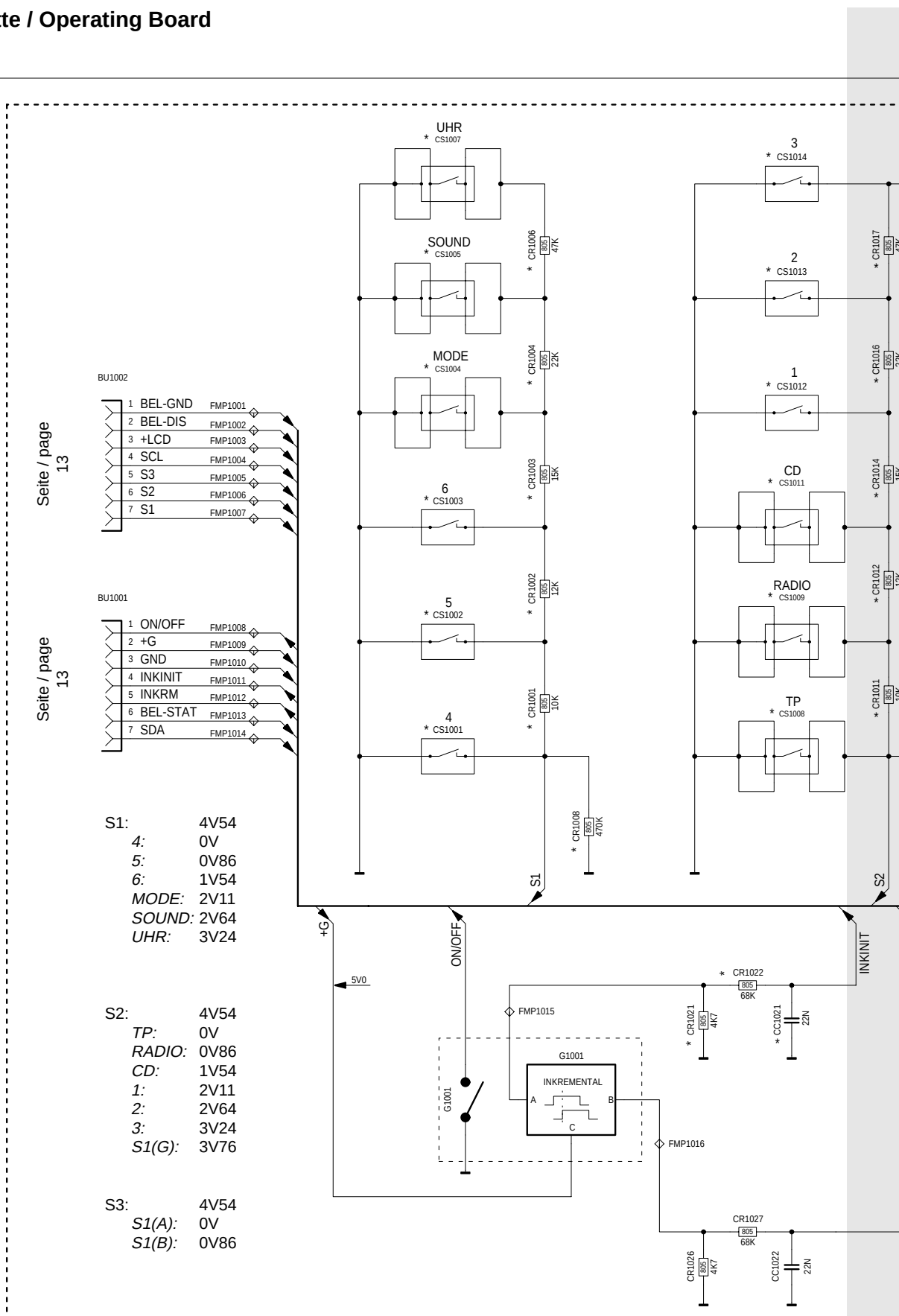


BU 1002  
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04.08.98

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
|     | 829 | 833 | 837 | 841 |
| 827 | 831 | 834 | 838 | 842 |
| 828 | 832 | 836 | 839 | 843 |

## Bedienplatte / Operating Board



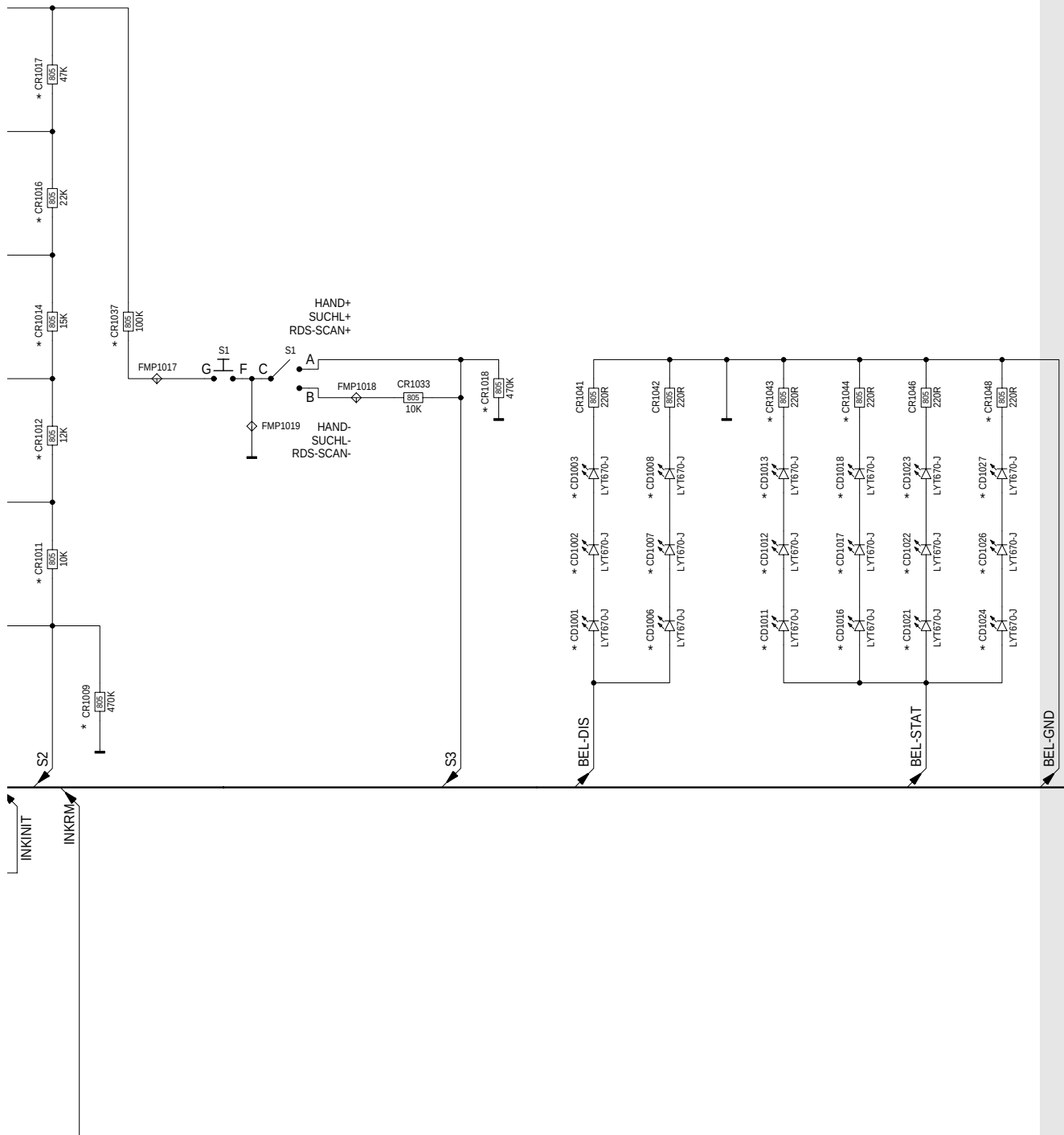
MESSPUNKTE

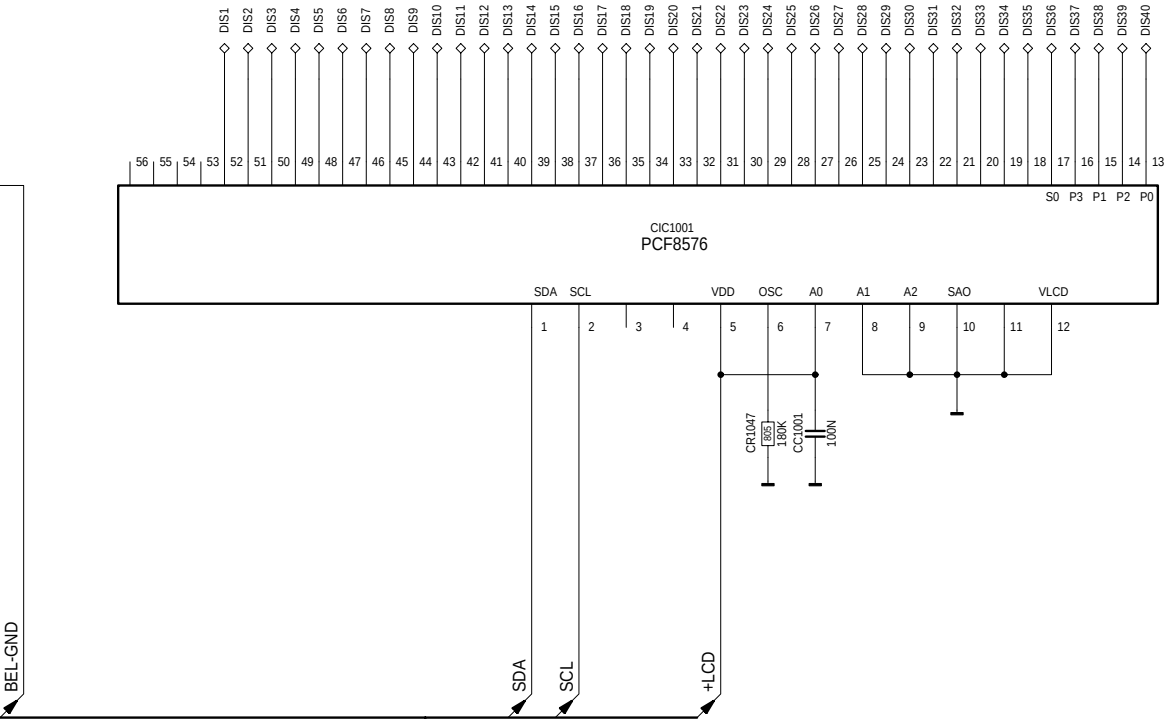
1001 1004 1007 1010 1013  
1002 1005 1008 1011 1014  
1003 1006 1009 1012

1015

1016

ABGLEICHPUNKTE

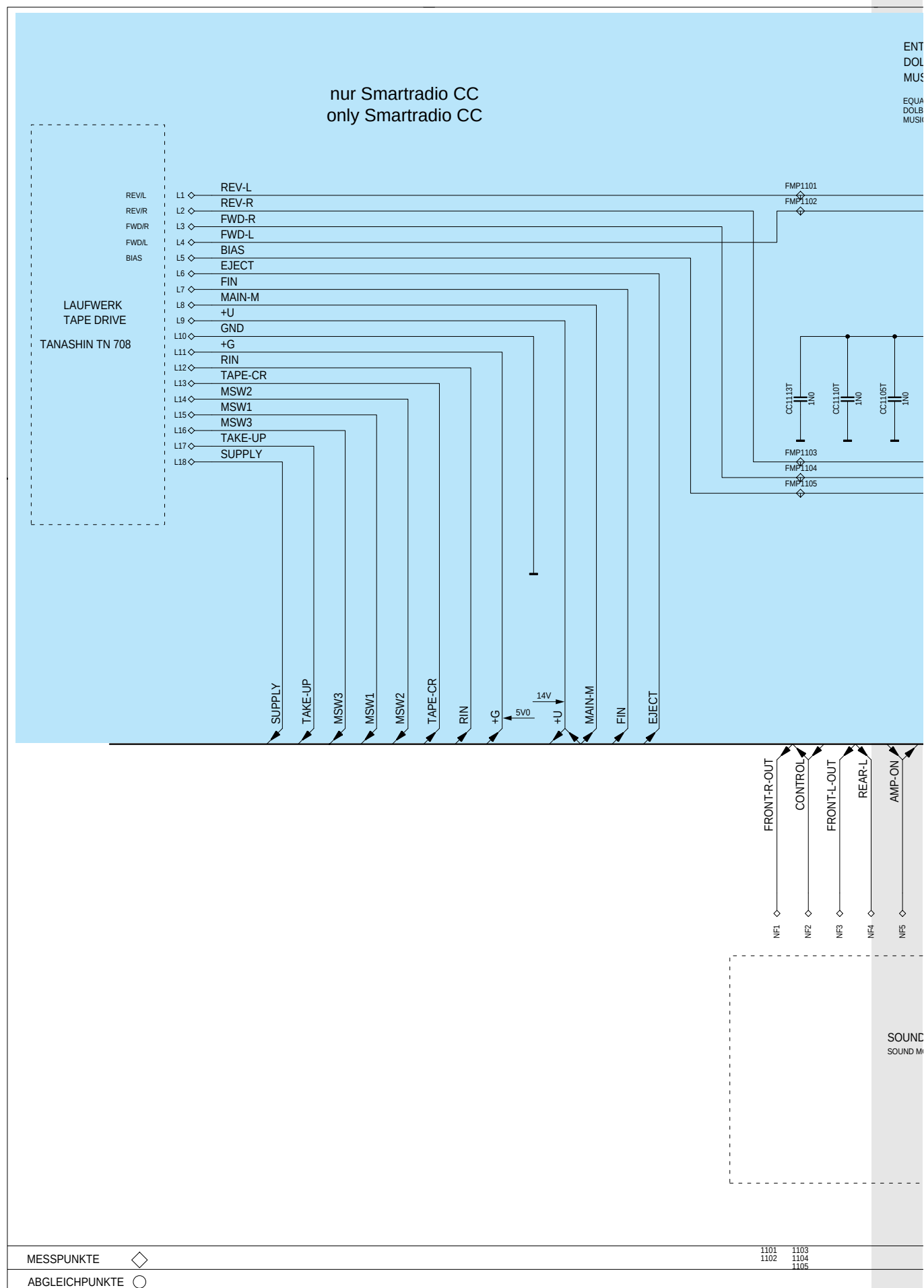




SMARTRADIO 19373-416.00  
SMARTRADIO CC 19273-420.00



## NF-Teil / AF Part

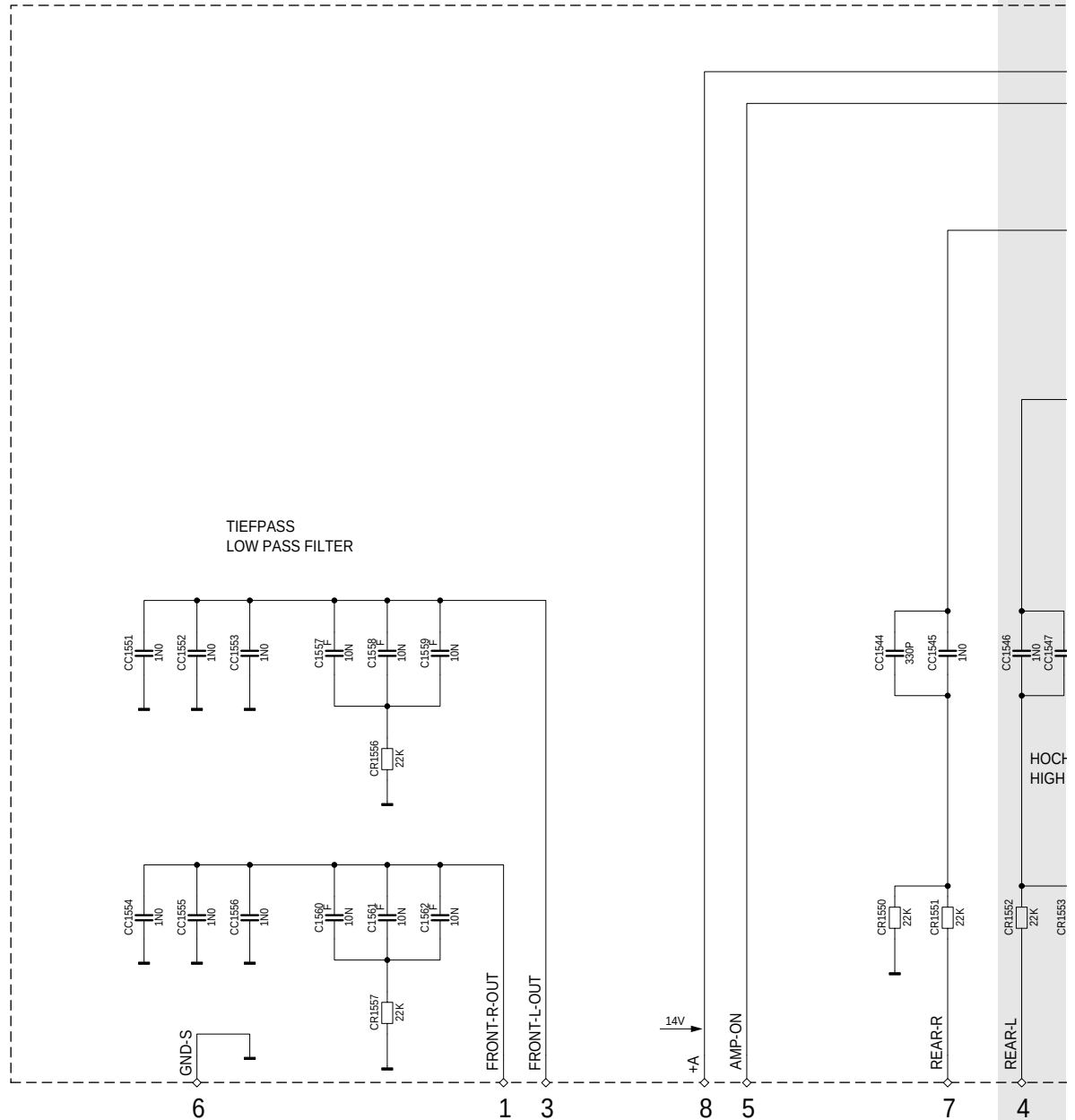








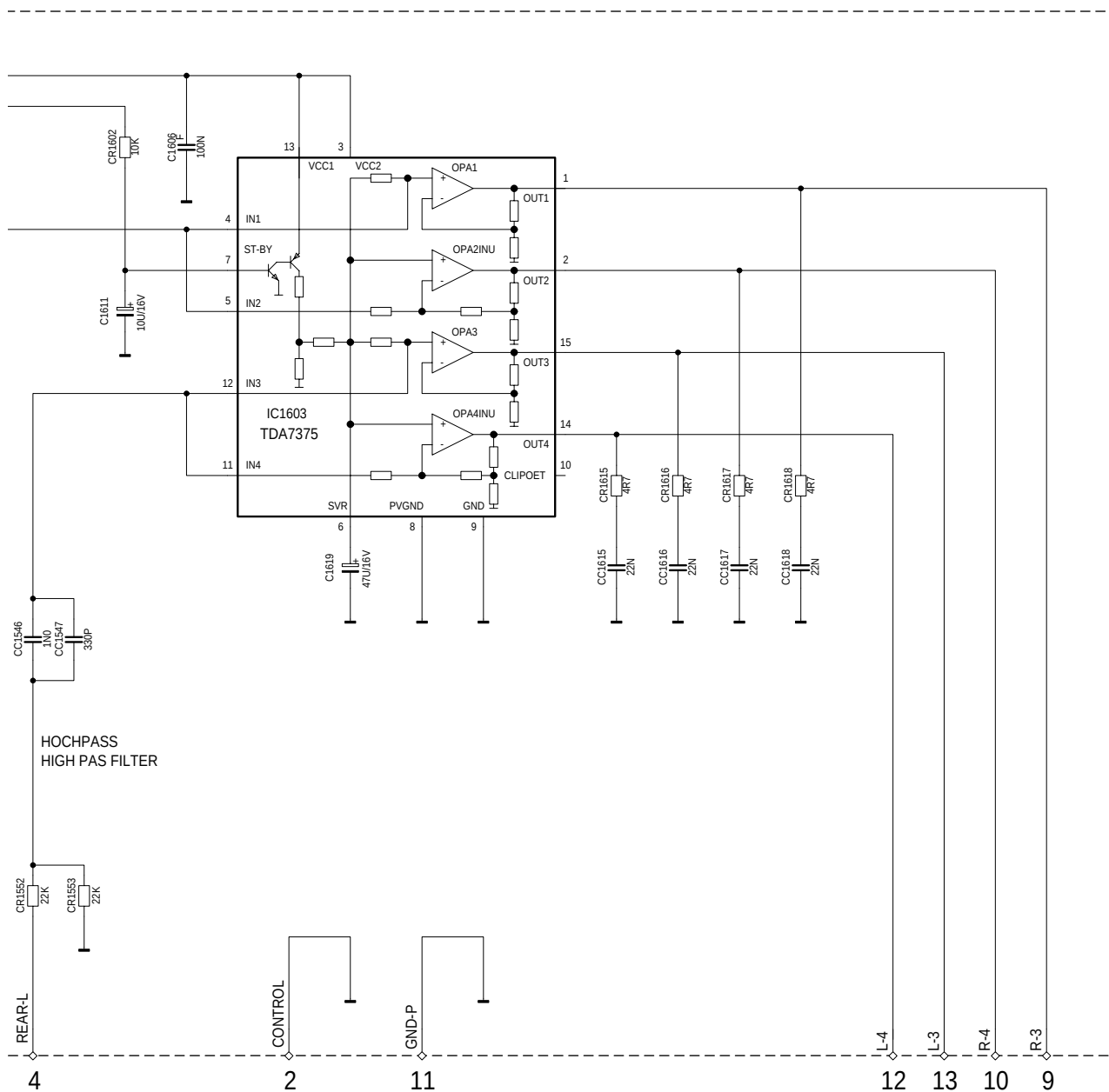
## Soundmodul / Sound Module



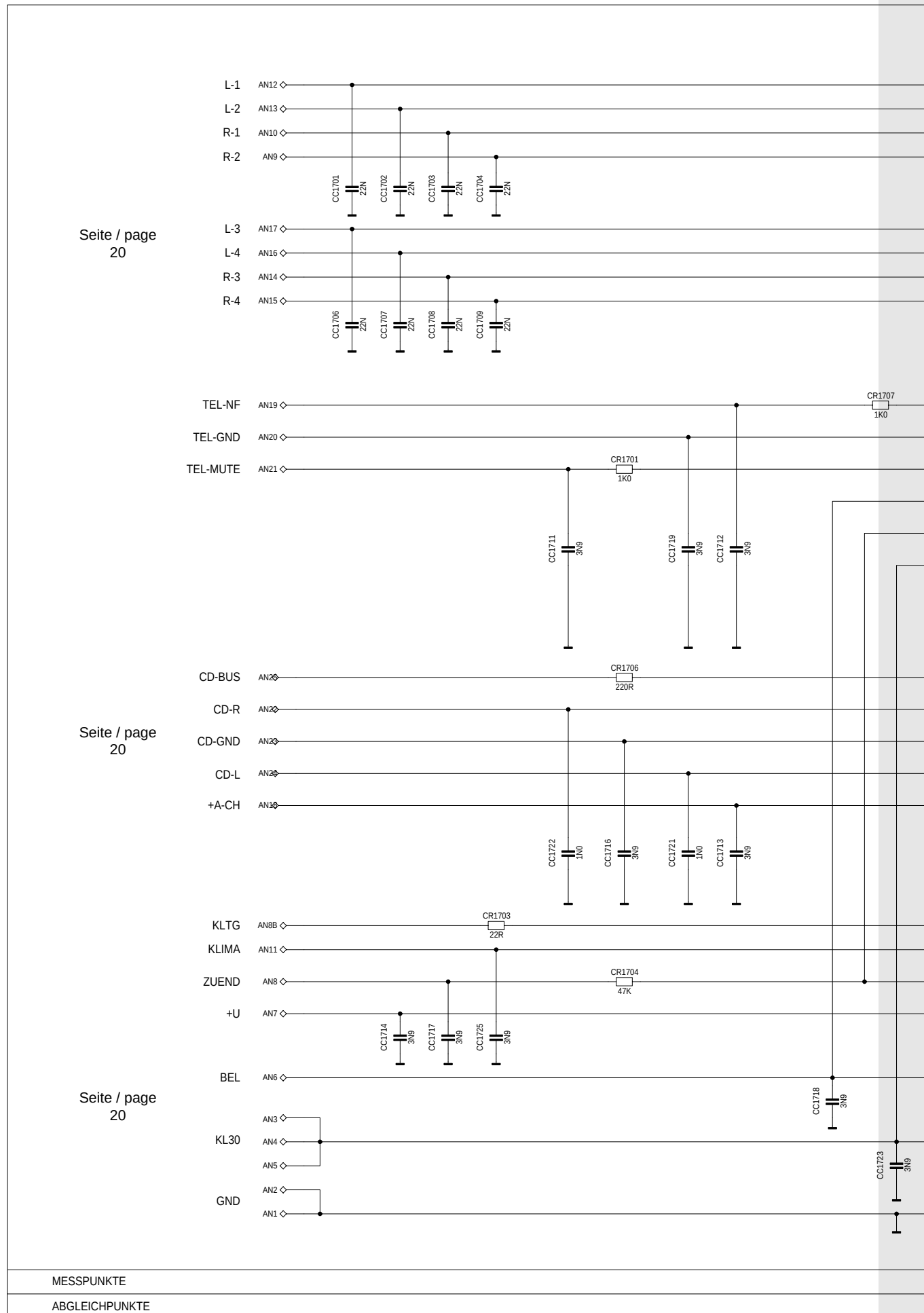
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18

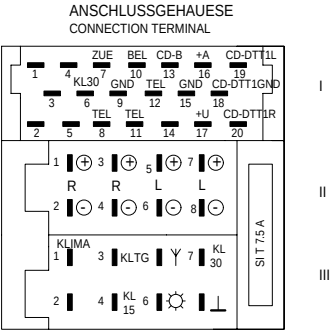
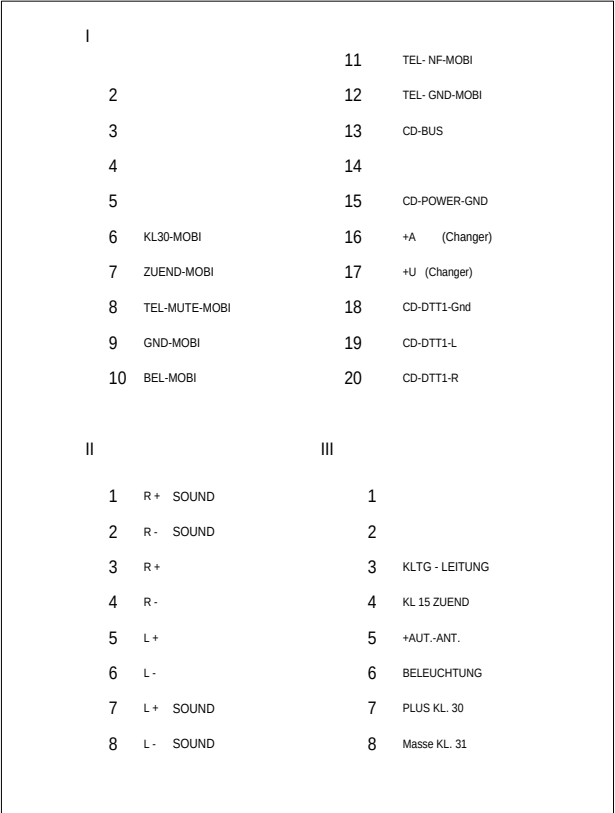
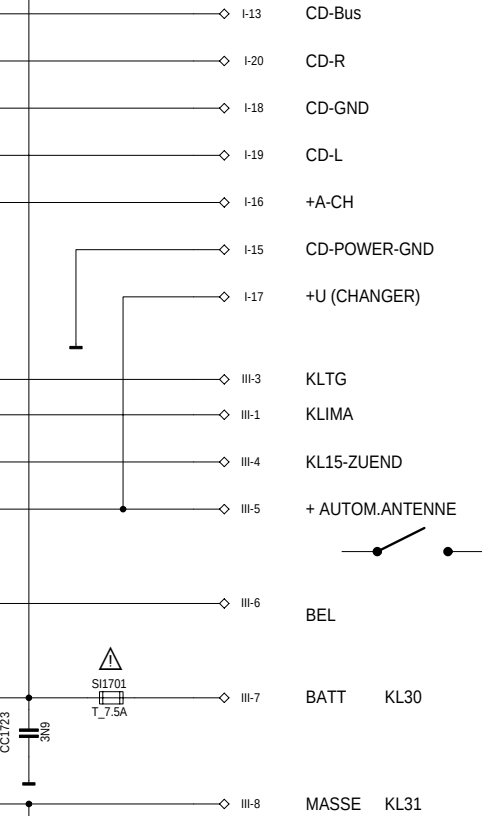
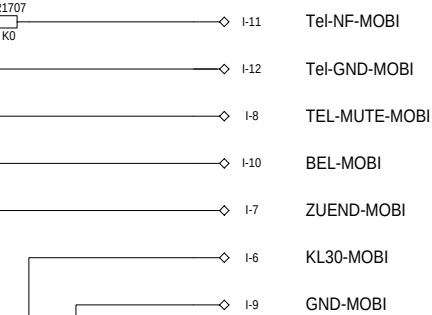
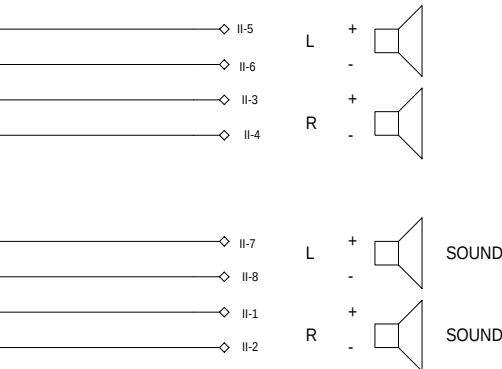
MESSPUNKTE

ABGLEICHPUNKTE



## Anschlußplatte / Connecting Board



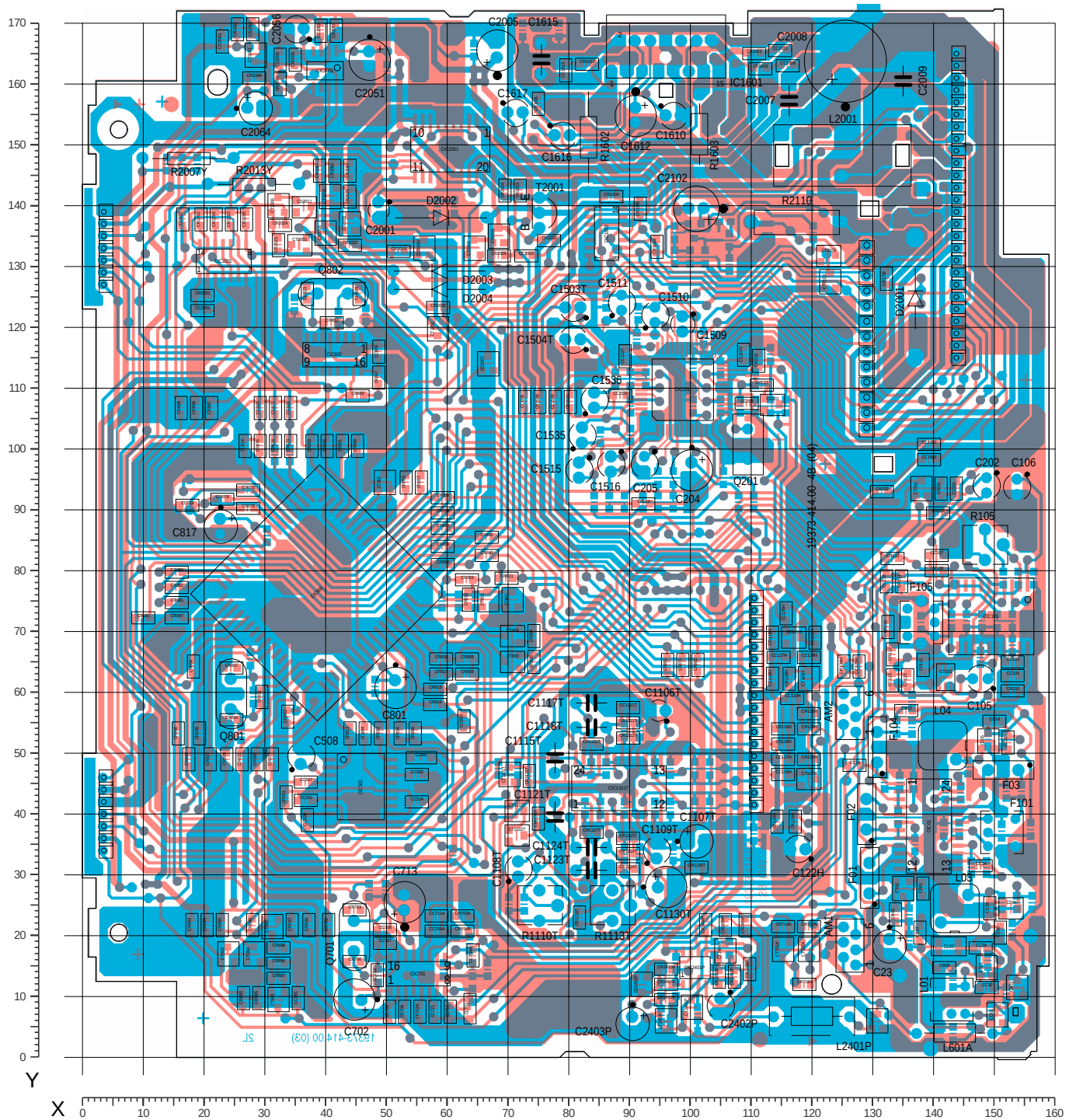


ANSCHLUSSPLATTE 19373-418.00  
CONNECTING BOARD



## Hauptplatte / Main Board

(Sicht auf Bestückungsseite / View on Component Side)



## Hauptplatte / Main Board

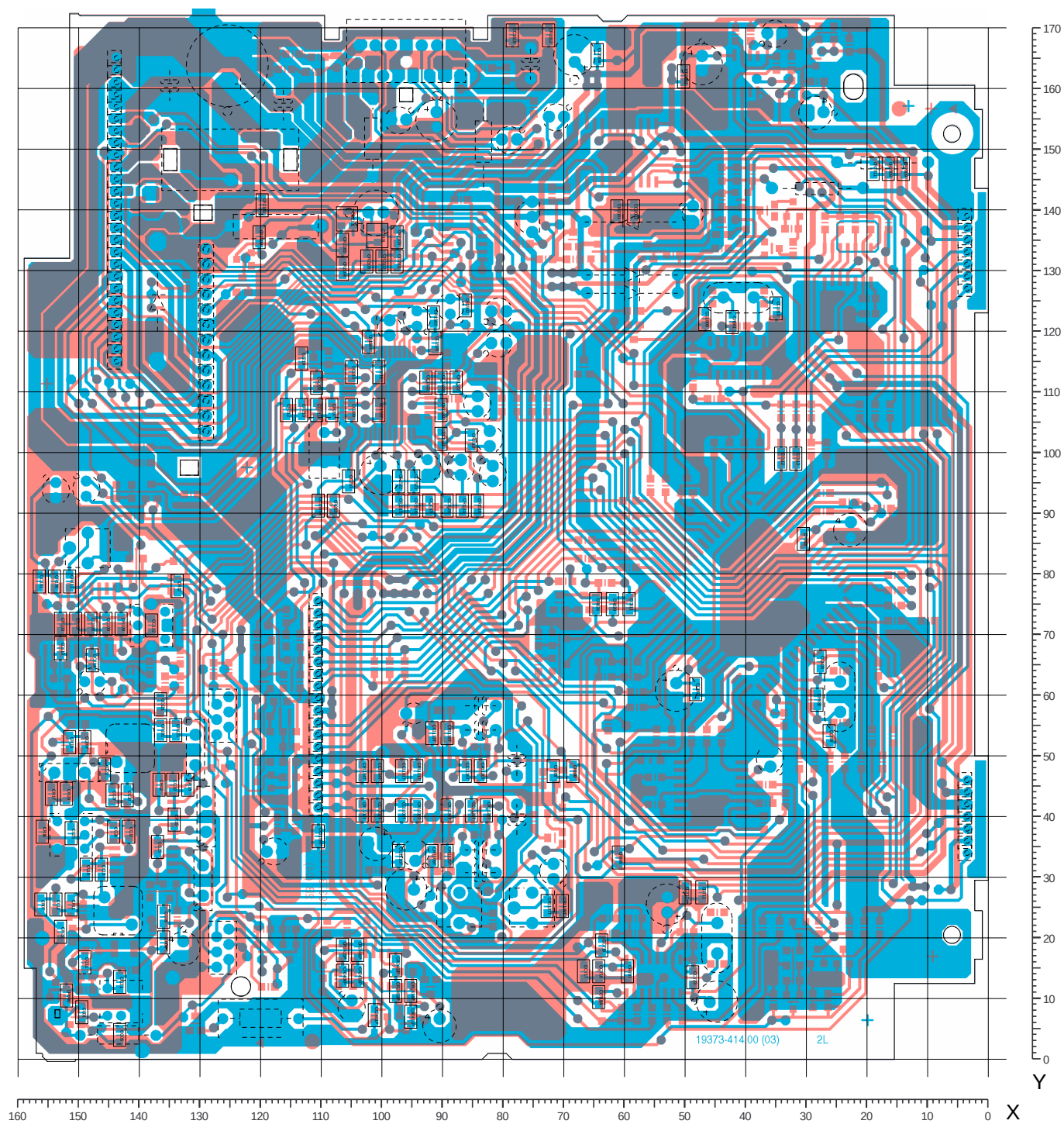
(Sicht auf Bestückungsseite / View on Component Side)

| Bauteil /<br>Component | X   | Y   |          |     |     |         |     |     |         |     |     |
|------------------------|-----|-----|----------|-----|-----|---------|-----|-----|---------|-----|-----|
|                        |     |     | CC711A   | 58  | 23  | CR2061  | 26  | 169 | CR885   | 29  | 10  |
|                        |     |     | CC715    | 61  | 8   | CR2062  | 28  | 169 | CR886   | 55  | 53  |
|                        |     |     | CC721    | 58  | 8   | CR2064  | 28  | 161 | CR887   | 21  | 107 |
| BU01                   | 151 | 11  | CC724    | 49  | 13  | CR214   | 92  | 91  | CR888   | 19  | 107 |
| C105                   | 148 | 62  | CC803    | 63  | 55  | CR216   | 141 | 90  | CR889   | 16  | 107 |
| C106                   | 154 | 94  | CC804    | 46  | 53  | CR217   | 112 | 110 | CR890   | 26  | 10  |
| C1106T                 | 95  | 57  | CC806    | 73  | 108 | CR218   | 111 | 115 | CR891   | 10  | 72  |
| C1107T                 | 101 | 36  | CC809    | 49  | 116 | CR2201  | 20  | 125 | CR892   | 29  | 49  |
| C1108T                 | 72  | 31  | CC814    | 27  | 101 | CR2202  | 19  | 138 | CR893   | 18  | 22  |
| C1109T                 | 94  | 34  | CC819    | 17  | 91  | CR2203  | 25  | 138 | CR894   | 32  | 16  |
| C1115T                 | 78  | 49  | CC891    | 35  | 10  | CR2204  | 22  | 138 | CR895   | 20  | 22  |
| C1117T                 | 84  | 58  | CD02     | 150 | 7   | CR2206  | 27  | 138 | CR897   | 32  | 13  |
| C1118T                 | 84  | 54  | CD03     | 154 | 12  | CR23    | 136 | 57  | CR898   | 32  | 18  |
| C1121T                 | 78  | 40  | CD04     | 153 | 25  | CR2401P | 109 | 22  | CR899   | 28  | 22  |
| C1123T                 | 84  | 31  | CD05     | 149 | 52  | CR2404P | 102 | 22  | CT01    | 149 | 15  |
| C1124T                 | 84  | 35  | CD101H   | 117 | 69  | CR2405P | 110 | 15  | CT02    | 135 | 28  |
| C1130T                 | 96  | 28  | CD2006   | 68  | 135 | CR2407P | 96  | 12  | CT101   | 142 | 62  |
| C122H                  | 118 | 34  | CD2007   | 67  | 114 | CR2409P | 106 | 22  | CT102H  | 119 | 46  |
| C1503T                 | 81  | 123 | CD2008Y  | 56  | 133 | CR2410P | 96  | 15  | CT103H  | 119 | 62  |
| C1504T                 | 81  | 118 | CD2009   | 44  | 137 | CR2412P | 107 | 13  | CT1101T | 70  | 46  |
| C1509                  | 99  | 120 | CD201    | 113 | 107 | CR2413P | 105 | 13  | CT1102T | 71  | 36  |
| C1510                  | 94  | 122 | CD2011   | 36  | 140 | CR2417P | 96  | 9   | CT1103T | 71  | 41  |
| C1511                  | 89  | 124 | CD2401P  | 131 | 6   | CR41    | 138 | 28  | CT2001  | 36  | 134 |
| C1515                  | 82  | 96  | CD2402P  | 92  | 12  | CR42    | 134 | 23  | CT2002  | 65  | 133 |
| C1516                  | 87  | 98  | CD801    | 71  | 75  | CR501   | 34  | 43  | CT2003  | 41  | 142 |
| C1535                  | 82  | 102 | CIC01    | 139 | 38  | CR701   | 41  | 22  | CT2004  | 40  | 135 |
| C1536                  | 84  | 108 | CIC101   | 149 | 73  | CR702A  | 62  | 23  | CT2006  | 32  | 140 |
| C1610                  | 97  | 155 | CIC1101T | 88  | 44  | CR703   | 45  | 24  | CT201   | 138 | 93  |
| C1612                  | 91  | 155 | CIC1602  | 86  | 135 | CR704A  | 62  | 21  | CT2061  | 28  | 165 |
| C1615                  | 75  | 164 | CIC2001  | 61  | 149 | CR706   | 45  | 16  | CT2102  | 123 | 132 |
| C1616                  | 79  | 151 | CIC201   | 99  | 110 | CR708   | 51  | 8   | CT2103  | 123 | 127 |
| C1617                  | 71  | 155 | CIC2051  | 40  | 162 | CR709   | 53  | 8   | CT2201  | 59  | 120 |
| C2001                  | 49  | 139 | CIC2201  | 23  | 131 | CR712A  | 56  | 8   | CT2401P | 100 | 8   |
| C2005                  | 68  | 165 | CIC2401P | 101 | 15  | CR714A  | 115 | 21  | CT2403P | 96  | 6   |
| C2007                  | 116 | 157 | CIC501   | 46  | 45  | CR716A  | 119 | 12  | CT2404P | 106 | 18  |
| C2008                  | 126 | 163 | CIC701   | 55  | 14  | CR717A  | 119 | 21  | CT701A  | 115 | 18  |
| C2009                  | 135 | 160 | CIC801   | 39  | 76  | CR801   | 43  | 101 | CT702A  | 119 | 18  |
| C202                   | 149 | 94  | CIC802   | 42  | 116 | CR802   | 101 | 65  | CT801   | 67  | 75  |
| C204                   | 100 | 97  | CL02     | 143 | 18  | CR803   | 63  | 79  | CT802   | 50  | 94  |
| C205                   | 92  | 98  | CL701    | 64  | 8   | CR804   | 74  | 69  | CT803   | 71  | 65  |
| C2051                  | 47  | 164 | CL801    | 56  | 49  | CR806   | 74  | 65  | CT804   | 71  | 69  |
| C2056                  | 35  | 169 | CR06     | 142 | 15  | CR808   | 63  | 66  | CT891   | 32  | 9   |
| C2064                  | 28  | 156 | CR102    | 153 | 60  | CR809   | 63  | 63  | CT892   | 31  | 21  |
| C2102                  | 101 | 140 | CR108    | 140 | 80  | CR810   | 63  | 75  | CT893   | 24  | 17  |
| C23                    | 133 | 18  | CR110    | 138 | 65  | CR811   | 70  | 79  | CT894   | 28  | 17  |
| C2402P                 | 105 | 8   | CR1111T  | 90  | 55  | CR812   | 49  | 53  | D2001   | 137 | 125 |
| C2403P                 | 90  | 6   | CR1112T  | 90  | 52  | CR813   | 44  | 53  | D2002   | 59  | 138 |
| C508                   | 36  | 50  | CR1114T  | 90  | 34  | CR814   | 25  | 56  | D2003   | 59  | 129 |
| C702                   | 45  | 9   | CR1115T  | 90  | 36  | CR816   | 59  | 66  | D2004   | 59  | 126 |
| C713                   | 53  | 25  | CR1116T  | 82  | 23  | CR817   | 59  | 63  | F01     | 129 | 30  |
| C801                   | 51  | 61  | CR112    | 133 | 66  | CR818   | 58  | 61  | F02     | 129 | 40  |
| C817                   | 23  | 87  | CR1121T  | 84  | 51  | CR819   | 58  | 58  | F03     | 151 | 47  |
| CC07                   | 138 | 21  | CR1122T  | 73  | 46  | CR821   | 26  | 49  | F101    | 151 | 37  |
| CC08                   | 151 | 21  | CR1127T  | 84  | 37  | CR822   | 34  | 56  | F104    | 131 | 51  |
| CC103                  | 153 | 65  | CR1128T  | 75  | 39  | CR823   | 37  | 126 | F105    | 138 | 71  |
| CC104                  | 153 | 63  | CR113    | 133 | 82  | CR824   | 45  | 126 | IC1601  | 96  | 166 |
| CC107                  | 140 | 83  | CR1130T  | 101 | 31  | CR827   | 25  | 64  | L01     | 143 | 9   |
| CC1111T                | 90  | 58  | CR114    | 135 | 78  | CR829   | 24  | 49  | L2001   | 125 | 148 |
| CC1114T                | 90  | 31  | CR115    | 136 | 62  | CR831   | 29  | 59  | L2401P  | 120 | 7   |
| CC115                  | 133 | 62  | CR116    | 132 | 71  | CR833   | 34  | 22  | L601A   | 144 | 4   |
| CC116                  | 132 | 78  | CR118H   | 113 | 69  | CR834   | 37  | 22  | Q201    | 110 | 101 |
| CC117H                 | 115 | 66  | CR119H   | 115 | 54  | CR836   | 52  | 53  | Q701    | 45  | 20  |
| CC118H                 | 113 | 62  | CR124H   | 117 | 39  | CR837   | 21  | 49  | Q801    | 25  | 60  |
| CC119H                 | 117 | 59  | CR125H   | 119 | 54  | CR838   | 19  | 53  | Q802    | 41  | 126 |
| CC123H                 | 115 | 46  | CR126H   | 119 | 56  | CR839   | 59  | 84  | R105    | 149 | 84  |
| CC124H                 | 119 | 66  | CR127H   | 119 | 49  | CR841   | 66  | 83  | R1110T  | 75  | 25  |
| CC125H                 | 128 | 64  | CR128H   | 116 | 62  | CR842   | 66  | 86  | R1113T  | 87  | 25  |
| CC126H                 | 116 | 73  | CR129H   | 115 | 51  | CR843   | 59  | 87  | R1602   | 83  | 151 |
| CC127H                 | 115 | 49  | CR131H   | 121 | 69  | CR844   | 17  | 49  | R1603   | 101 | 152 |
| CC14                   | 148 | 31  | CR133H   | 114 | 39  | CR846   | 16  | 53  | R2007Y  | 17  | 148 |
| CC1501                 | 139 | 101 | CR134H   | 125 | 64  | CR847   | 16  | 72  | R2013Y  | 28  | 143 |
| CC1502                 | 139 | 98  | CR1506   | 75  | 108 | CR851   | 96  | 65  | R2110   | 117 | 137 |
| CC1506                 | 78  | 108 | CR1521   | 80  | 108 | CR852   | 59  | 81  | T2001   | 76  | 139 |
| CC1527                 | 89  | 115 | CR1554   | 94  | 133 | CR853   | 53  | 94  |         |     |     |
| CC1530                 | 88  | 109 | CR1555   | 92  | 140 | CR854   | 59  | 90  |         |     |     |
| CC1609                 | 116 | 163 | CR1601   | 75  | 157 | CR855   | 40  | 101 |         |     |     |
| CC1611                 | 115 | 166 | CR1604   | 87  | 142 | CR856   | 59  | 92  |         |     |     |
| CC1613                 | 79  | 162 | CR1610   | 111 | 162 | CR857   | 56  | 94  |         |     |     |
| CC2003                 | 73  | 132 | CR1611   | 111 | 165 | CR858   | 45  | 101 |         |     |     |
| CC201                  | 144 | 93  | CR1613   | 83  | 163 | CR859   | 38  | 101 |         |     |     |
| CC2053                 | 39  | 169 | CR1702   | 132 | 128 | CR862   | 41  | 121 |         |     |     |
| CC2058                 | 33  | 164 | CR19     | 150 | 55  | CR863   | 17  | 138 |         |     |     |
| CC2063                 | 23  | 167 | CR2002   | 77  | 134 | CR864   | 18  | 64  |         |     |     |
| CC207Y                 | 109 | 116 | CR2003   | 72  | 143 | CR866   | 45  | 109 |         |     |     |
| CC208                  | 109 | 108 | CR2004   | 69  | 143 | CR867   | 49  | 112 |         |     |     |
| CC21                   | 152 | 52  | CR2006   | 68  | 132 | CR868   | 34  | 107 |         |     |     |
| CC2201                 | 20  | 123 | CR201    | 141 | 93  | CR869   | 29  | 107 |         |     |     |
| CC24                   | 127 | 48  | CR2014   | 44  | 146 | CR871   | 99  | 65  |         |     |     |
| CC28                   | 149 | 25  | CR2016   | 42  | 146 | CR872   | 32  | 107 |         |     |     |
| CC29                   | 148 | 18  | CR2017   | 39  | 146 | CR873   | 34  | 101 |         |     |     |
| CC30                   | 149 | 12  | CR2018   | 59  | 123 | CR874   | 32  | 101 |         |     |     |
| CC501                  | 37  | 42  | CR2019   | 52  | 133 | CR875   | 27  | 93  |         |     |     |
| CC502                  | 55  | 46  | CR202    | 131 | 93  | CR876   | 29  | 101 |         |     |     |
| CC507                  | 37  | 45  | CR2021   | 44  | 142 | CR877   | 31  | 49  |         |     |     |
| CC509                  | 37  | 39  | CR2022   | 44  | 134 | CR878   | 23  | 92  |         |     |     |
| CC514                  | 55  | 42  | CR2023   | 32  | 134 | CR879   | 27  | 90  |         |     |     |
| CC704A                 | 64  | 17  | CR2024   | 33  | 137 | CR880   | 23  | 22  |         |     |     |
| CC707                  | 50  | 19  | CR2056   | 33  | 160 | CR881   | 16  | 75  |         |     |     |
| CC708                  | 50  | 21  | CR2057   | 42  | 169 | CR882   | 16  | 77  |         |     |     |
| CC709A                 | 58  | 21  | CR2058   | 35  | 164 | CR884   | 16  | 80  |         |     |     |



## Hauptplatte / Main Board

(SMD-Bauteile auf der Lötseite / SMD Components on the Solder Side)





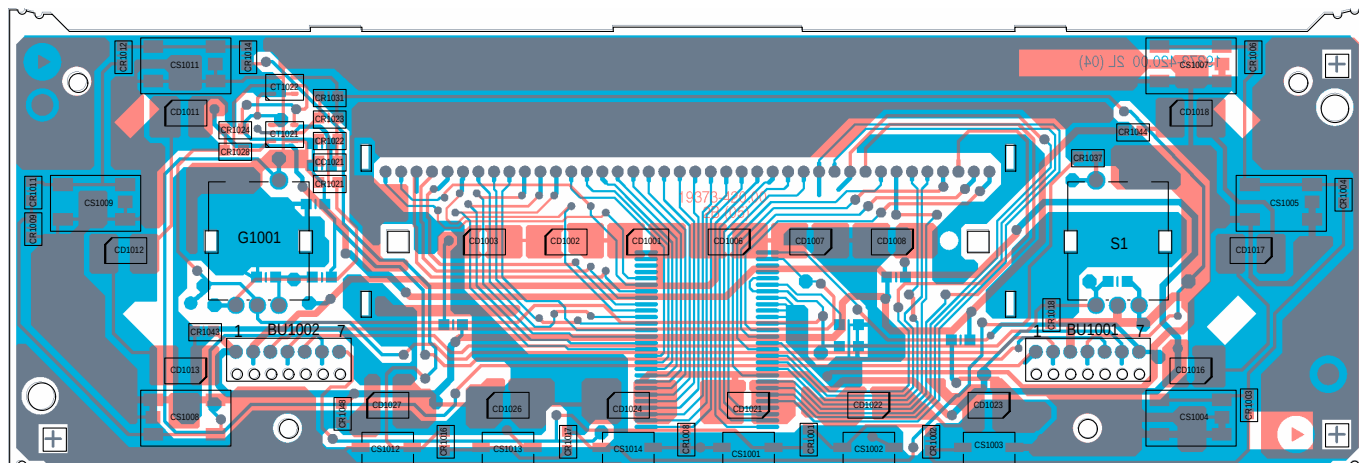
## Hauptplatte / Main Board

(SMD-Bauteile auf der Lötseite / SMD Components on the Solder Side)

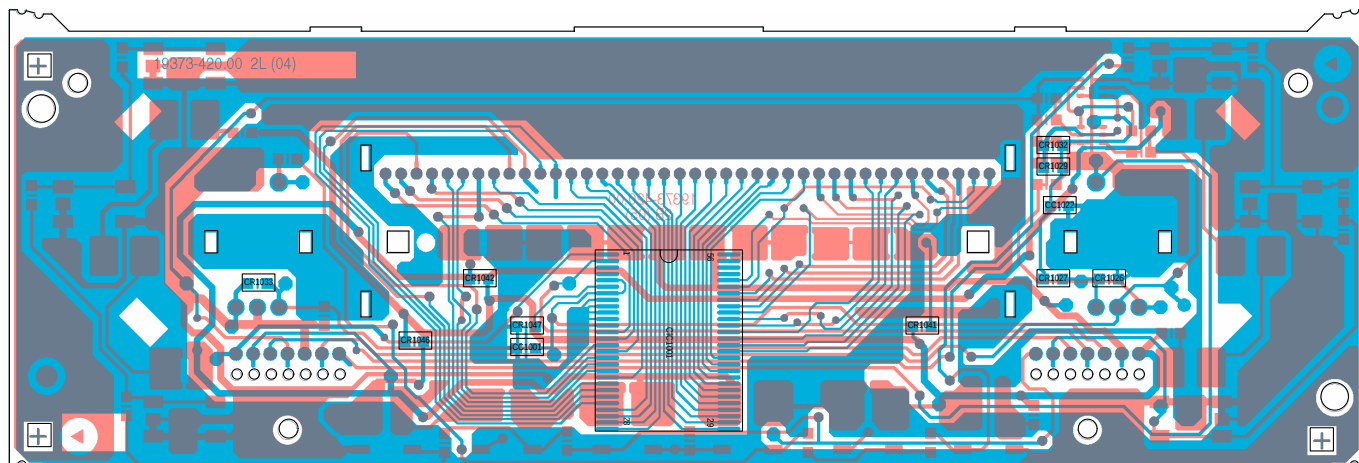
| Bauteil /<br>Component | X   | Y   |         |     |     |
|------------------------|-----|-----|---------|-----|-----|
|                        |     |     | CR1510  | 84  | 91  |
|                        |     |     | CR1511  | 87  | 91  |
|                        |     |     | CR1515  | 97  | 91  |
| CC01                   | 149 | 8   | CR1516  | 95  | 91  |
| CC05                   | 143 | 4   | CR1519  | 85  | 102 |
| CC06Y                  | 149 | 52  | CR1520  | 90  | 107 |
| CC09                   | 136 | 23  | CR1522  | 88  | 111 |
| CC101                  | 156 | 79  | CR16    | 156 | 37  |
| CC108                  | 148 | 72  | CR1612  | 73  | 169 |
| CC109                  | 145 | 72  | CR17    | 154 | 44  |
| CC11                   | 149 | 16  | CR18    | 132 | 45  |
| CC1101T                | 97  | 47  | CR20    | 152 | 44  |
| CC1102T                | 101 | 41  | CR2001  | 61  | 140 |
| CC1103T                | 97  | 41  | CR2008  | 17  | 147 |
| CC1104T                | 101 | 47  | CR2009  | 14  | 147 |
| CC1105T                | 111 | 37  | CR2011  | 19  | 147 |
| CC1110T                | 97  | 34  | CR203   | 108 | 91  |
| CC1113T                | 92  | 54  | CR2051  | 50  | 162 |
| CC1116T                | 86  | 47  | CR207   | 108 | 107 |
| CC112                  | 138 | 71  | CR209   | 111 | 111 |
| CC1122T                | 85  | 41  | CR2101  | 120 | 141 |
| CC113                  | 153 | 68  | CR2102  | 100 | 132 |
| CC114                  | 148 | 66  | CR2103  | 97  | 135 |
| CC12                   | 154 | 26  | CR2104  | 106 | 130 |
| CC121                  | 136 | 58  | CR2105  | 106 | 134 |
| CC13                   | 146 | 31  | CR2106  | 102 | 132 |
| CC15                   | 137 | 35  | CR2109  | 120 | 135 |
| CC1507A                | 111 | 91  | CR211   | 111 | 107 |
| CC1519                 | 92  | 91  | CR212   | 116 | 107 |
| CC1520                 | 89  | 91  | CR213   | 113 | 107 |
| CC1522                 | 97  | 95  | CR22    | 153 | 21  |
| CC1523                 | 95  | 95  | CR2402P | 98  | 16  |
| CC1526                 | 91  | 118 | CR2403P | 98  | 11  |
| CC1531                 | 90  | 102 | CR2406P | 104 | 18  |
| CC1532                 | 93  | 111 | CR2408P | 106 | 14  |
| CC1533                 | 90  | 111 | CR2411P | 95  | 7   |
| CC1537                 | 101 | 107 | CR2414P | 95  | 11  |
| CC16                   | 149 | 31  | CR2415P | 106 | 18  |
| CC1618                 | 78  | 169 | CR2416P | 104 | 14  |
| CC17                   | 142 | 37  | CR600   | 152 | 11  |
| CC1806                 | 47  | 122 | CR707   | 60  | 15  |
| CC1810                 | 35  | 124 | CR711   | 47  | 28  |
| CC19                   | 134 | 45  | CR807   | 72  | 47  |
| CC20                   | 142 | 44  | CR826   | 65  | 75  |
| CC2002                 | 59  | 140 | CR828   | 62  | 75  |
| CC2004                 | 65  | 166 | CR832   | 28  | 59  |
| CC203                  | 106 | 95  | CR848   | 61  | 33  |
| CC209                  | 105 | 107 | CR849   | 68  | 47  |
| CC210                  | 105 | 113 | CR861   | 42  | 121 |
| CC2101                 | 97  | 132 | CR883   | 31  | 86  |
| CC211                  | 101 | 113 | CT2101  | 101 | 136 |
| CC219                  | 113 | 116 |         |     |     |
| CC22                   | 146 | 48  |         |     |     |
| CC2401P                | 101 | 7   |         |     |     |
| CC25                   | 151 | 37  |         |     |     |
| CC26                   | 144 | 37  |         |     |     |
| CC27                   | 144 | 44  |         |     |     |
| CC31                   | 143 | 13  |         |     |     |
| CC712                  | 50  | 28  |         |     |     |
| CC716                  | 64  | 15  |         |     |     |
| CC717                  | 67  | 15  |         |     |     |
| CC718A                 | 64  | 10  |         |     |     |
| CC719                  | 64  | 19  |         |     |     |
| CC723                  | 49  | 13  |         |     |     |
| CC802                  | 48  | 61  |         |     |     |
| CC807                  | 26  | 53  |         |     |     |
| CC808                  | 28  | 66  |         |     |     |
| CC811                  | 59  | 75  |         |     |     |
| CC812                  | 34  | 99  |         |     |     |
| CC813                  | 32  | 99  |         |     |     |
| CD2101                 | 106 | 138 |         |     |     |
| CR02                   | 137 | 45  |         |     |     |
| CR04                   | 136 | 19  |         |     |     |
| CR07                   | 156 | 26  |         |     |     |
| CR10                   | 151 | 52  |         |     |     |
| CR101                  | 136 | 54  |         |     |     |
| CR103                  | 153 | 72  |         |     |     |
| CR106                  | 154 | 79  |         |     |     |
| CR107                  | 150 | 72  |         |     |     |
| CR109                  | 143 | 72  |         |     |     |
| CR11                   | 151 | 26  |         |     |     |
| CR1101T                | 94  | 47  |         |     |     |
| CR1102T                | 103 | 41  |         |     |     |
| CR1103T                | 94  | 41  |         |     |     |
| CR1104T                | 103 | 47  |         |     |     |
| CR1107T                | 73  | 25  |         |     |     |
| CR1108T                | 70  | 25  |         |     |     |
| CR1109T                | 92  | 34  |         |     |     |
| CR111                  | 151 | 79  |         |     |     |
| CR1119T                | 89  | 54  |         |     |     |
| CR1120T                | 84  | 47  |         |     |     |
| CR1124T                | 89  | 41  |         |     |     |
| CR1125T                | 89  | 34  |         |     |     |
| CR1126T                | 83  | 41  |         |     |     |
| CR12                   | 134 | 78  |         |     |     |
| CR121                  | 134 | 54  |         |     |     |
| CR15                   | 134 | 40  |         |     |     |
| CR1502                 | 86  | 124 |         |     |     |
| CR1503                 | 91  | 122 |         |     |     |
| CR1504                 | 102 | 118 |         |     |     |

**Bedienplatte / Operating Board Smartradio**

Sicht auf Bestückungsseite / View on Component Side

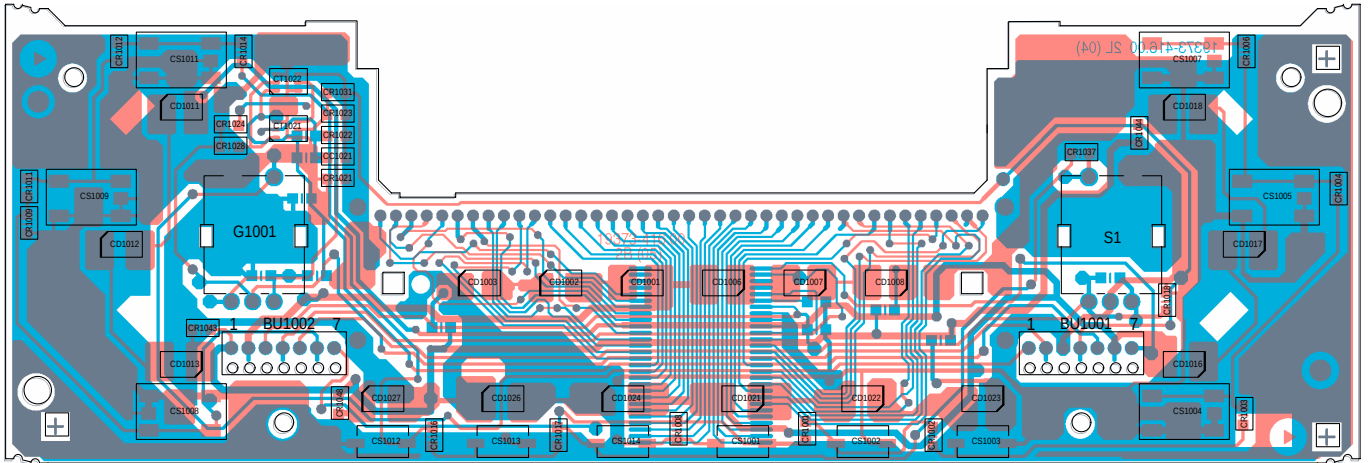


Sicht auf Lötseite / View on Solder Side

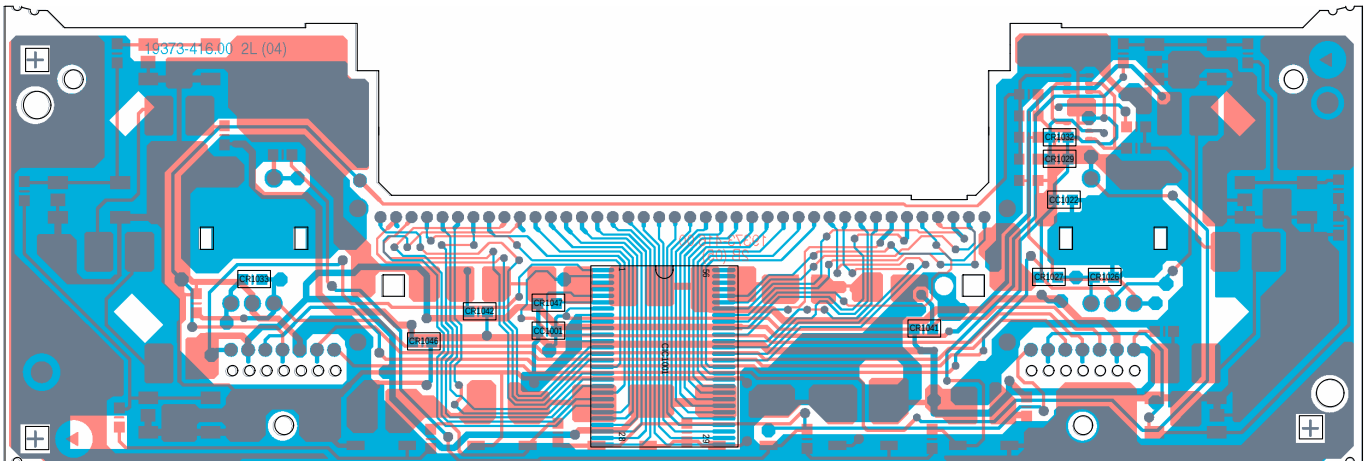


## Bedienplatte / Operating Board Smartradio CC

Sicht auf Bestückungsseite / View on Component Side

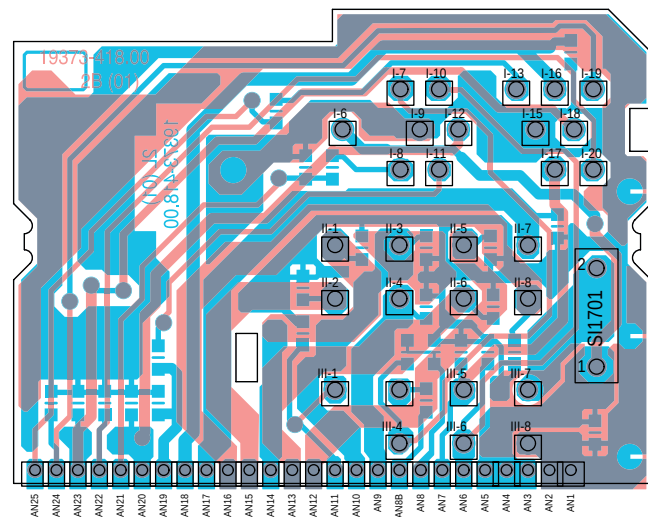


Sicht auf Lötseite / View on Solder Side

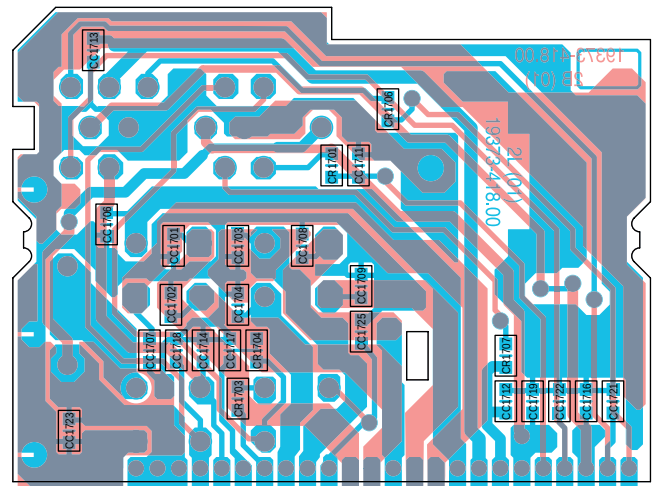


**Anschlußplatte / Connecting Board**

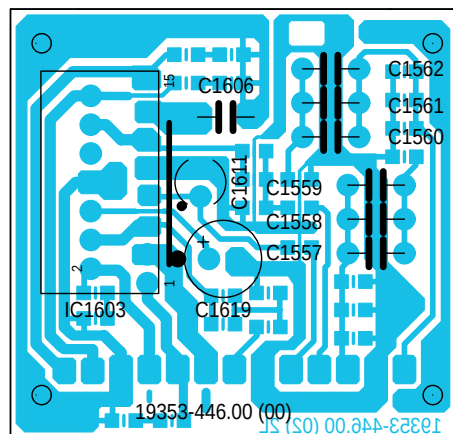
Sicht auf Bestückungsseite / View on Component Side



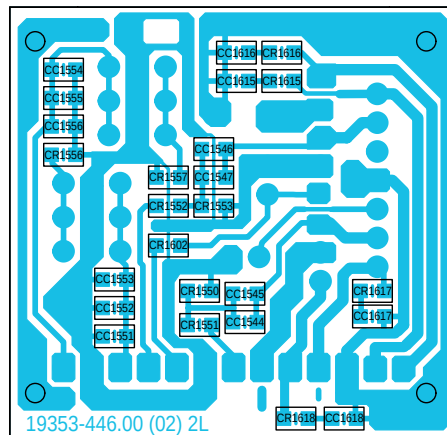
Sicht auf Lötseite / View on Solder Side

**Soundmodul / Sound Module**

Sicht auf Bestückungsseite / View on Component Side



Sicht auf Lötseite / View on Solder Side





# Ersatzteilliste Spare Parts List

# GRUNDIG

## CAR AUDIO

### 10 / 98

### TN-708 CR-104

SACH-NR. / PART NO.: 19723 036 0000

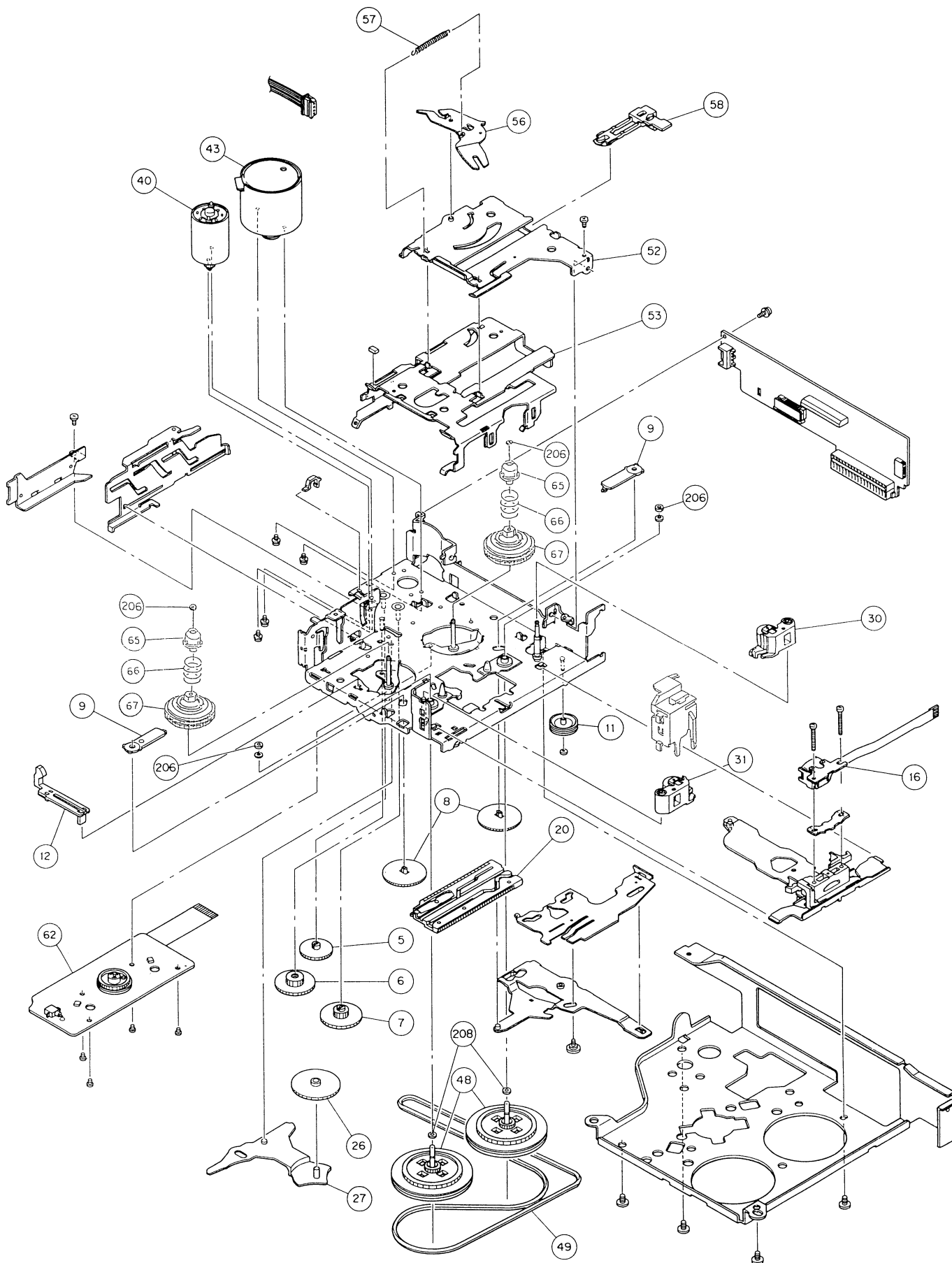
| POS. NR.<br>POS. NO. | ABB.<br>FIG. | SACHNUMMER<br>PART NUMBER | ANZ.<br>QTY. | BEZEICHNUNG<br>(D)              | DESCRIPTION<br>(GB)           |
|----------------------|--------------|---------------------------|--------------|---------------------------------|-------------------------------|
|                      |              | 19723 036 0000            |              | LAUFWERK TN 708 CR-104          | DRIVE MECHANISM TN 708 CR-104 |
| 0005.000             | 1            | 75954 060 2800            |              | ZAHNRAD B                       | GEAR B                        |
| 0006.000             | 1            | 75954 060 2900            |              | ZAHNRAD C                       | GEAR C                        |
| 0007.000             | 1            | 75954 060 3000            |              | ZAHNRAD D                       | GEAR D                        |
| 0008.000             | 1            | 75954 060 3100            | 2            | ZAHNRAD P                       | GEAR P                        |
| 0009.000             | 1            | 75954 060 3200            | 2            | PLATTE P.G                      | PLATE P.G                     |
| 0011.000             | 1            | 75954 060 3300            |              | PULLY MITTE                     | PULLEY MIDDLE                 |
| 0012.000             | 1            | 75954 060 3400            |              | SCHIEBER CR                     | SLIDER CR                     |
| 0016.000             | 1            | 75954 060 3500            |              | KOPF WIEDERGABE P-5544SB-9949   | HEAD PLAYBACK P-5544SB-9949   |
| 0020.000             | 1            | 75954 060 3600            |              | PLATTE O.P                      | PLATE O.P                     |
| 0026.000             | 1            | 75954 060 3700            |              | ZAHNRAD FR                      | GEAR FR                       |
| 0027.000             | 1            | 75954 060 3800            |              | PLATTE FR                       | PLATE FR                      |
| 0030.000             | 1            | 75954 060 3900            |              | ARM ANDRUCKROLLE LINKS          | ARM PINCH ROLLER LEFT         |
| 0031.000             | 1            | 75954 060 4000            |              | ARM ANDRUCKROLLE RECHTS         | ARM PINCH ROLLER RIGHT        |
| 0040.000             | 1            | 75954 060 4100            |              | MOTOR AUSWURF                   | MOTOR SUB                     |
| 0043.000             | 1            | 75954 060 4200            |              | MOTOR CAPSTAN                   | MOTOR MAIN                    |
| 0048.000             | 1            | 75954 060 4300            | 2            | SCHWUNGSCHLEIBE                 | FLYWHEEL CAPSTAN              |
| 0049.000             | 1            | 75954 060 4400            |              | RIEMEN                          | MAIN BELT                     |
| 0052.000             | 1            | 75954 060 4500            |              | HUB PLATTE                      | CASE LIFTER                   |
| 0053.000             | 1            | 75954 060 4600            |              | CASSETTENSCHACHT                | CASSETTE CASE                 |
| 0056.000             | 1            | 75954 060 4700            |              | HEBEL                           | LEVEL                         |
| 0057.000             | 1            | 75954 060 4800            |              | FEDER                           | SPRING                        |
| 0058.000             | 1            | 75954 060 4900            |              | MITNEHMERHEBEL                  | PACK SLIDER                   |
| 0062.000             | 1            | 75954 060 5000            |              | STEUERPLATTE                    | CONTROL BOARD                 |
| 0065.000             | 1            | 75954 060 5100            | 2            | KAPPE WICKELTELLER              | REEL CAP                      |
| 0066.000             | 1            | 75954 060 5200            | 2            | FEDER WICKELTELLER              | REEL WING SPRING              |
| 0067.000             | 1            | 75954 060 5300            | 2            | WICKELTELLER                    | REEL                          |
| 0206.000             | 1            | 75954 060 5400            | 4            | SICHERUNGSSCHLEIBE 1,55X3,5X0,5 | WASHER 1,55X3,5X0,5           |
| 0208.000             | 1            | 75954 060 5500            | 2            | SICHERUNGSSCHLEIBE 2,1X3,5X0,35 | WASHER 2,1X3,5X0,35           |

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Sach-Nummer 72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010 800 0000, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

**1**

# Ersatzteilliste Spare Parts List

# GRUNDIG CAR AUDIO

## 1 / 99

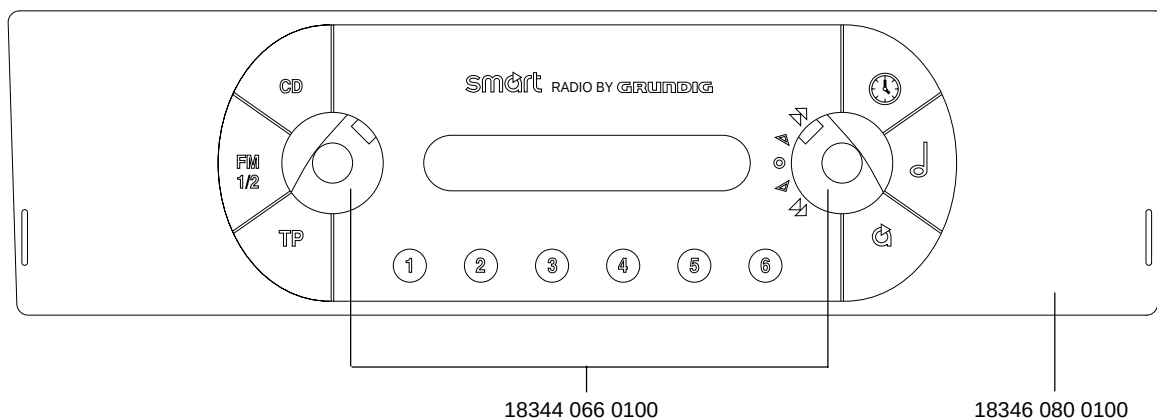
## SMARTRADIO

MATERIAL-NR. / PART NO.: 91834 681 5100

BESTELL-NR. / ORDER NO.: G.HH 75-00

| POS. NR.<br>POS. NO. | ABB.<br>FIG. | MATERIAL-NR.<br>PART NUMBER | ANZ.<br>QTY. | BEZEICHNUNG<br>(D)            | DESCRIPTION<br>(GB)              |
|----------------------|--------------|-----------------------------|--------------|-------------------------------|----------------------------------|
|                      |              | 91834 681 5100              |              | SMARTRADIO AUTOSUPER O.CASS   | SMARTRADIO CAR STEREO W/O CASS   |
| 0001.000             | 1            | 18346 080 0100              |              | BLLENDE KPL                   | MASK CPL                         |
| 0005.000             | 1            | 18344 066 0100              | 2            | DREHKNOFF                     | ROTARY KNOB                      |
| 0008.000             |              | 18344 036 0300              |              | DIFFUSOR                      | DIFFUSER                         |
| 0010.000             |              | 19703 246 0000              |              | DREHSCHALTER EC1112120 ALPS   | ROTARY SWITCH EC1112120 ALPS     |
| 0015.000             |              | 19720 258 0000              |              | LC-DISPLAY                    | LC-DISPLAY                       |
| 0025.000             |              | 19771 616 1800              |              | ANSCHLUSSGEHAEUSE             | CONNECTION TERMINAL              |
| 0027.000             |              | 18300 099 0000              |              | ANTENNENBUCHSE KPL.           | ANTENNA SOCKET CPL               |
| 0028.000             |              | 18344 098 0000              |              | ANTENNEN-ADAPTER              | ANTENNA-ADAPTER                  |
| 0029.000             |              | 18147 036 0000              |              | ADAPTER-CLIPS                 | ADAPTER-CLIPS                    |
| 0032.000             |              | 18344 023 0000              |              | BLATTFEDER LINKS              | LEAF SPRING LHS                  |
| 0033.000             |              | 18344 024 0000              |              | BLATTFEDER RECHTS             | LEAF SPRING RHS                  |
|                      |              | 18344 941 4100              |              | BEDIENUNGSANLEITUNG D//F/NL/E | OPERATING INSTRUCTIONS D//F/NL/E |

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| POS. NR.<br>POS. NO. | MATERIAL-NR.<br>PART NUMBER | BEZEICHNUNG<br>DESCRIPTION | POS. NR.<br>POS. NO. | MATERIAL-NR.<br>PART NUMBER | BEZEICHNUNG<br>DESCRIPTION |
|----------------------|-----------------------------|----------------------------|----------------------|-----------------------------|----------------------------|
| C 02008              | 84529 951 0700              | ELKO 2200UF 20% 16V CA     | CD 01011             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 00002             | 83093 017 7900              | SMD-DIODE BA 779           | CD 01012             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 00003             | 83093 258 1400              | SMD-KAP.DIODE BB 814-I/II  | CD 01013             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 00004             | 83093 258 1400              | SMD-KAP.DIODE BB 814-I/II  | CD 01016             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 00005             | 83093 258 1400              | SMD-KAP.DIODE BB 814-I/II  | CD 01017             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 00201             | 83093 130 9900              | SMD DIODE BAV99 AV215 -G8  | CD 01018             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 00801             | 83093 840 6300              | SMD Z-DIODE BZX84B 6V2     | CD 01021             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 01001             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  | CD 01022             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 01002             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  | CD 01023             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 01003             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  | CD 01024             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 01006             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  | CD 01026             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 01007             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  | CD 01027             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 01008             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  | CD 02006             | 83092 100 1600              | SMD DIODE BAS16 AV215 -G8  |
|                      |                             |                            | CD 02007             | 83092 100 1600              | SMD DIODE BAS16 AV215 -G8  |

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

| POS. NR.<br>POS. NO. | MATERIAL-NR.<br>PART NUMBER | BEZEICHNUNG<br>DESCRIPTION               | POS. NR.<br>POS. NO.  | MATERIAL-NR.<br>PART NUMBER | BEZEICHNUNG<br>DESCRIPTION     |
|----------------------|-----------------------------|------------------------------------------|-----------------------|-----------------------------|--------------------------------|
| CD 02009             | 83093 840 8300              | SMD Z-DIODE BZX84B 8V2                   | G 01001               | 19411 015 0000              | POTENTIOMETER ENCODER          |
| CD 02011             | 83092 100 1600              | SMD DIODE BAS16 AV215 -G8                | IC 01601              | 83053 373 7500              | IC TDA7375AV                   |
| CD 02101             | 83092 100 1600              | SMD DIODE BAS16 AV215 -G8                |                       |                             |                                |
| CIC 00001            | 83051 540 6500              | SMD IC U4065B-AFL G3 TEMI                | L 00001               | 81405 339 0400              | SPULE 7X7 #904 SIGN533904/COIL |
| CIC 00101            | 83058 415 9300              | SMD IC TDA1593T/G13 AV215                | L 00003               | 81405 302 7000              | SPULE 9 #76 UKW 0,15UH=/COIL   |
| CIC 00201            | 83058 473 4000              | SMD IC TDA7340G                          | L 00004               | 81405 302 6900              | SPULE 9 #75 UKW 0,1UH/COIL     |
| CIC 00501            | 83058 265 7900              | SMD IC SAA6579T PHI AV215                | L 02001               | 81405 228 0100              | DR 97UH 15% T68-26 31111-1     |
| CIC 00701            | 83057 692 8900              | SMD IC U4289BM-AFP G3 TEM                | Q 00201               | 86023 310 1000              | KERRES #10/1 456KHZ            |
| CIC 00802            | 83057 345 2100              | SMD IC HEF4521BT/G7 AV215                | Q 00701               | 83821 610 4000              | QUARZ 4 MHZ Q 161/A            |
| CIC 01001            | 83058 185 7600              | SMD IC PCF8576CT/F2 AV215                | Q 00801               | 83822 090 8600              | QUARZ #209 8,664MHZ            |
| CIC 01602            | 83057 340 6600              | SMD IC HEF4066BT PHI AV21                | Q 00802               | 83821 660 4100              | QUARZ #166 4,194304MHZ         |
| CIC 02001            | 83057 649 5200              | SMD IC L4952D013TR SGS AV                |                       |                             |                                |
| CIC 02051            | 83057 649 4900              | SMD IC L4949ND-013TR SGS                 | R 00105               | 87920 022 5200              | ESTR S6 15 KOHM LIN AV330      |
| CIC 02201            | 83057 340 7700              | SMD IC HEF4077BT AV215-G1                |                       |                             |                                |
| CS 01001             | 19401 102 0000              | TASTSCHALTER KQY-902 ALPS                | SI 01701 <sup>△</sup> | 83157 030 7500              | FLACH-SI.7,5 A                 |
| CS 01002             | 19401 102 0000              | TASTSCHALTER KQY-902 ALPS                | T 02001               | 83032 873 6900              | TRANS.BC 369 GEG.AMMO-PAC      |
| CS 01003             | 19401 102 0000              | TASTSCHALTER KQY-902 ALPS                |                       |                             | <b>SOUND-MODUL</b>             |
| CS 01004             | 19401 094 0000              | TASTSCHALTER                             | IC 01603              | 83053 373 7500              | IC TDA 7375 AV                 |
| CS 01005             | 19401 094 0000              | TASTSCHALTER                             |                       |                             |                                |
| CS 01007             | 19401 094 0000              | TASTSCHALTER                             |                       |                             |                                |
| CS 01008             | 19401 094 0000              | TASTSCHALTER                             |                       |                             |                                |
| CS 01009             | 19401 094 0000              | TASTSCHALTER                             |                       |                             |                                |
| CS 01010             | 19401 094 0000              | TASTSCHALTER                             |                       |                             |                                |
| CS 01011             | 19401 094 0000              | TASTSCHALTER                             |                       |                             |                                |
| CS 01012             | 19401 102 0000              | TASTSCHALTER KQY-902 ALPS                |                       |                             |                                |
| CS 01013             | 19401 102 0000              | TASTSCHALTER KQY-902 ALPS                |                       |                             |                                |
| CS 01014             | 19401 102 0000              | TASTSCHALTER KQY-902 ALPS<br>PUSH BUTTON |                       |                             |                                |
| CT 00001             | 83011 810 9400              | SMD TRANS BFR93AR TEMIC                  |                       |                             |                                |
| CT 00002             | 83010 068 5800              | SMD-TRANS.BC 858 C                       |                       |                             |                                |
| CT 00101             | 83028 040 1000              | SMD-TRANS.IMH 10                         |                       |                             |                                |
| CT 00201             | 83011 601 3500              | SMD TRANS BCR135 SIE AV21                |                       |                             |                                |
| CT 00801             | 83011 601 3500              | SMD TRANS BCR135 SIE AV21                |                       |                             |                                |
| CT 00802             | 83011 601 3500              | SMD TRANS BCR135 SIE AV21                |                       |                             |                                |
| CT 00803             | 83010 068 4800              | SMD-TRANS.BC 848 C                       |                       |                             |                                |
| CT 00804             | 83010 068 4800              | SMD-TRANS.BC 848 C                       |                       |                             |                                |
| CT 00891             | 83010 068 4800              | SMD-TRANS.BC 848 C                       |                       |                             |                                |
| CT 00892             | 83010 068 5800              | SMD-TRANS.BC 858 C                       |                       |                             |                                |
| CT 00893             | 83010 068 4800              | SMD-TRANS.BC 848 C                       |                       |                             |                                |
| CT 00894             | 83010 068 4800              | SMD-TRANS.BC 848 C                       |                       |                             |                                |
| CT 02001             | 83010 068 4800              | SMD-TRANS.BC 848 C                       |                       |                             |                                |
| CT 02002             | 83010 068 4800              | SMD-TRANS.BC 848 C                       |                       |                             |                                |
| CT 02003             | 83010 068 4800              | SMD-TRANS.BC 848 C                       |                       |                             |                                |
| CT 02004             | 83010 068 4800              | SMD-TRANS.BC 848 C                       |                       |                             |                                |
| CT 02006             | 83010 068 5800              | SMD-TRANS.BC 858 C                       |                       |                             |                                |
| CT 02061             | 83010 068 1800              | SMD-TRANS.BC 818-40 S8                   |                       |                             |                                |
| CT 02101             | 83010 068 5800              | SMD-TRANS.BC 858 C                       |                       |                             |                                |
| CT 02102             | 83010 068 1800              | SMD-TRANS.BC 818-40 S8                   |                       |                             |                                |
| CT 02103             | 83011 601 4800              | SMD TRANS BCR148                         |                       |                             |                                |
| CT 02201             | 83011 601 4800              | SMD TRANS BCR148                         |                       |                             |                                |
| D 02001              | 83092 154 0100              | DIODE 1 N 5401 G GI/FAG G                |                       |                             |                                |
| D 02002              | 83092 150 2000              | DIODE 1 N 4004 -GA                       |                       |                             |                                |
| D 02003              | 83092 150 2000              | DIODE 1 N 4004 -GA                       |                       |                             |                                |
| D 02004              | 83092 150 2000              | DIODE 1 N 4004 -GA                       |                       |                             |                                |
| F 00001              | 86022 230 8000              | KERFIL #80/A 10,7MHZ AV33                |                       |                             |                                |
| F 00002              | 86022 221 9000              | KERFIL #190 10,7MHZ AV330                |                       |                             |                                |
| F 00003              | 86022 221 9000              | KERFIL #190 10,7MHZ AV330                |                       |                             |                                |
| F 00101              | 81411 144 8200              | FILTER 7X7 #482 SIGN11448                |                       |                             |                                |
| F 00104              | 86022 221 9000              | KERFIL #190 10,7MHZ AV330                |                       |                             |                                |
| F 00105              | 81405 352 5600              | SPULE 7X7 #256 SIGN535256                |                       |                             |                                |

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010 800 0000, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

# Ersatzteilliste Spare Parts List

# GRUNDIG

## CAR AUDIO

### 1 / 99

### SMARTRADIO CC

MATERIAL-NR. / PART NO.: 91834 481 5100

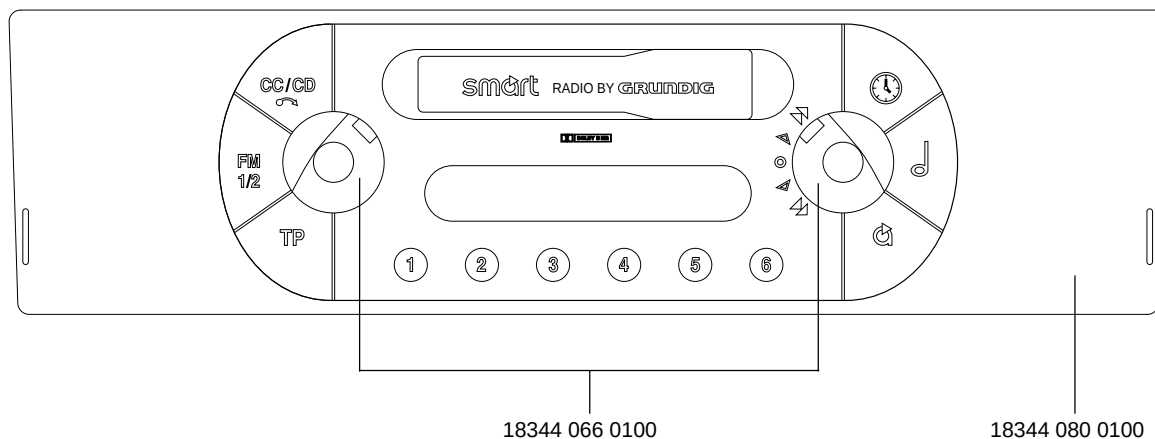
BESTELL-NR. / ORDER NO.: G.HH 76-00

| POS. NR.<br>POS. NO. | ABB.<br>FIG. | MATERIAL-NR.<br>PART NUMBER | ANZ.<br>QTY. | BEZEICHNUNG<br>(D)                      | DESCRIPTION<br>(GB)                              |
|----------------------|--------------|-----------------------------|--------------|-----------------------------------------|--------------------------------------------------|
| 0001.000             | 1            | 91834 481 5100              |              | SMART CC AUTOSUPER M.CASS               | SMART CC CAR STEREO W.TAP                        |
| 0005.000             | 1            | 18344 080 0100              |              | BLLENDE KPL                             | MASK CPL                                         |
| 0008.000             |              | 18344 066 0100              | 2            | DREHKNOFF                               | ROTARY KNOB                                      |
| 0010.000             |              | 18344 036 0300              |              | DIFFUSOR                                | DIFFUSER                                         |
| 0015.000             |              | 19703 246 0000              |              | DREHSCHALTER EC1112120 ALPS             | ROTARY SWITCH EC1112120 ALPS                     |
| 0025.000             |              | 19720 258 0000              |              | LC-DISPLAY                              | LC-DISPLAY                                       |
| 0027.000             |              | 19771 616 1800              |              | ANSCHLUSSGEHAEUSE                       | CONNECTION TERMINAL                              |
| 0028.000             |              | 18300 099 0000              |              | ANTENNENBUCHSE KPL                      | ANTENNA SOCKET CPL                               |
| 0032.000             |              | 18344 098 0000              |              | ANTENNEN-ADAPTER                        | ANTENNA-ADAPTER                                  |
| 0033.000             |              | 18344 023 0000              |              | BLATTFEDER LINKS                        | LEAF SPRING LHS                                  |
|                      |              | 18344 024 0000              |              | BLATTFEDER RECHTS                       | LEAF SPRING RHS                                  |
|                      |              | 19723 036 0000              | X            | LAUFWERK TN 708 TANASHIN<br>KEIN E-TEIL | DRIVE MECHANISM TN 708 TANASHIN<br>NO SPARE PART |
|                      |              | 18344 941 4100              |              | BEDIENUNGSANLEITUNG D/ I/F/NL/E         | OPERATING INSTRUCTIONS D/I/F/NL/E                |

X = SIEHE GESONDERTE E-LISTE

X = SEE SEPARATE PARTS LIST

1



| POS. NR.<br>POS. NO. | MATERIAL-NR.<br>PART NUMBER | BEZEICHNUNG<br>DESCRIPTION | POS. NR.<br>POS. NO. | MATERIAL-NR.<br>PART NUMBER | BEZEICHNUNG<br>DESCRIPTION |
|----------------------|-----------------------------|----------------------------|----------------------|-----------------------------|----------------------------|
| C 02008              | 84529 951 0700              | ELKO 2200UF 20% 16V CA     | CD 01003             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 00002             | 83093 017 7900              | SMD-DIODE BA 779           | CD 01006             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 00003             | 83093 258 1400              | SMD-KAP.DIODE BB 814-I/II  | CD 01007             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 00004             | 83093 258 1400              | SMD-KAP.DIODE BB 814-I/II  | CD 01008             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 00005             | 83093 258 1400              | SMD-KAP.DIODE BB 814-I/II  | CD 01011             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 00201             | 83093 130 9900              | SMD DIODE BAV99 AV215 -G8  | CD 01012             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 00801             | 83093 840 6300              | SMD Z-DIODE BZX84B 6V2     | CD 01013             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 01001             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  | CD 01016             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
| CD 01002             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  | CD 01017             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |
|                      |                             |                            | CD 01018             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9  |

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

| POS. NR.<br>POS. NO. | MATERIAL-NR.<br>PART NUMBER | BEZEICHNUNG<br>DESCRIPTION               | POS. NR.<br>POS. NO. | MATERIAL-NR.<br>PART NUMBER | BEZEICHNUNG<br>DESCRIPTION     |
|----------------------|-----------------------------|------------------------------------------|----------------------|-----------------------------|--------------------------------|
| CD 01021             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9                | CT 02103             | 83011 601 4800              | SMD TRANS BCR148               |
| CD 01022             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9                | CT 02201             | 83011 601 4800              | SMD TRANS BCR148               |
| CD 01023             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9                |                      |                             |                                |
| CD 01024             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9                | D 02001              | 83092 154 0100              | DIODE 1 N 5401 G GI/FAG G      |
| CD 01026             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9                | D 02002              | 83092 150 2000              | DIODE 1 N 4004 -GA             |
| CD 01027             | 83099 736 7000              | SMD LE-DIODE LYT670K/L E9                | D 02003              | 83092 150 2000              | DIODE 1 N 4004 -GA             |
| CD 02006             | 83092 100 1600              | SMD DIODE BAS16 AV215 -G8                | D 02004              | 83092 150 2000              | DIODE 1 N 4004 -GA             |
| CD 02007             | 83092 100 1600              | SMD DIODE BAS16 AV215 -G8                |                      |                             |                                |
| CD 02009             | 83093 840 8300              | SMD Z-DIODE BZX84B 8V2                   | F 00001              | 86022 230 8000              | KERFIL #80/A 10,7MHZ AV33      |
| CD 02011             | 83092 100 1600              | SMD DIODE BAS16 AV215 -G8                | F 00002              | 86022 221 9000              | KERFIL #190 10,7MHZ AV330      |
| CD 02101             | 83092 100 1600              | SMD DIODE BAS16 AV215 -G8                | F 00003              | 86022 221 9000              | KERFIL #190 10,7MHZ AV330      |
|                      |                             |                                          | F 00101              | 81411 144 8200              | FILTER 7X7 #482 SIGN11448      |
| CIC 00001            | 83051 540 6500              | SMD IC U4065B-AFL G3 TEMI                | F 00104              | 86022 221 9000              | KERFIL #190 10,7MHZ AV330      |
| CIC 00101            | 83058 415 9300              | SMD IC TDA1593T/G13 AV215                | F 00105              | 81405 352 5600              | SPULE 7X7 #256 SIGN535256      |
| CIC 00201            | 83058 473 4000              | SMD IC TDA7340G                          |                      |                             |                                |
| CIC 00501            | 83058 265 7900              | SMD IC SAA6579T PHI AV215                | G 01001              | 19411 015 0000              | POTENTIOMETER ENCODER          |
| CIC 00701            | 83057 692 8900              | SMD IC U4289BM-AFP G3 TEM                |                      |                             |                                |
| CIC 00802            | 83057 345 2100              | SMD IC HEF4521BT/G7 AV215                | IC 01601             | 83053 373 7500              | IC TDA7375AV                   |
| CIC 01001            | 83058 185 7600              | SMD IC PCF8576CT/F2 AV215                |                      |                             |                                |
| CIC 01101            | 83058 506 7500              | SMD IC TEA0675T/G7 AV215-                | L 00001              | 81405 339 0400              | SPULE 7X7 #904 SIGN533904/COIL |
| CIC 01602            | 83057 340 6600              | SMD IC HEF4066BT PHI AV21                | L 00003              | 81405 302 7000              | SPULE 9 #76 UKW 0,15UH/COIL    |
| CIC 02001            | 83057 649 5200              | SMD IC L4952D013TR SGS AV                | L 00004              | 81405 302 6900              | SPULE 9 #75 UKW 0,1UH/COIL     |
| CIC 02051            | 83057 649 4900              | SMD IC L4949ND-013TR SGS                 | L 02001              | 81405 228 0100              | DR 97UH 15% T68-26 3111-1      |
| CIC 02201            | 83057 340 7700              | SMD IC HEF4077BT AV215-G1                |                      |                             |                                |
|                      |                             |                                          | Q 00201              | 86023 310 1000              | KERRES #10/1 456KHZ            |
| CL 00002             | 81405 160 5700              | SMD DR 322519 2,2UH 10% A                | Q 00701              | 83821 610 4000              | QUARZ 4 MHZ Q 161/A            |
| CL 00701             | 81405 264 6900              | SMD DR 1206 0,1UH 20% AV2                | Q 00801              | 83822 090 8600              | QUARZ #209 8,664MHZ            |
| CL 00801             | 81405 264 6200              | SMD DR 1206 10UH 10% AV21                | Q 00802              | 83821 660 4100              | QUARZ #166 4,194304MHZ         |
|                      |                             |                                          |                      |                             |                                |
| CS 01001             | 19401 102 0000              | TASTSCHALTER KQY-902 ALPS                | R 00105              | 87920 022 5200              | ESTR S6 15 KOHM LIN AV330      |
| CS 01002             | 19401 102 0000              | TASTSCHALTER KQY-902 ALPS                |                      |                             |                                |
| CS 01003             | 19401 102 0000              | TASTSCHALTER KQY-902 ALPS                | SI 01701△            | 83157 030 7500              | FLACH-SI.7,5 A                 |
| CS 01004             | 19401 094 0000              | TASTSCHALTER                             |                      |                             |                                |
| CS 01005             | 19401 094 0000              | TASTSCHALTER                             | T 02001              | 83032 873 6900              | TRANS.BC 369 GEG.AMMO-PAC      |
| CS 01007             | 19401 094 0000              | TASTSCHALTER                             |                      |                             |                                |
| CS 01008             | 19401 094 0000              | TASTSCHALTER                             |                      |                             | <b>SOUND-MODUL</b>             |
| CS 01009             | 19401 094 0000              | TASTSCHALTER                             |                      |                             |                                |
| CS 01011             | 19401 094 0000              | TASTSCHALTER                             | IC 01603             | 83053 373 7500              | IC TDA 7375 AV                 |
| CS 01012             | 19401 102 0000              | TASTSCHALTER KQY-902 ALPS                |                      |                             |                                |
| CS 01013             | 19401 102 0000              | TASTSCHALTER KQY-902 ALPS                |                      |                             |                                |
| CS 01014             | 19401 102 0000              | TASTSCHALTER KQY-902 ALPS<br>PUSH BUTTON |                      |                             |                                |
|                      |                             |                                          |                      |                             |                                |
| CT 00001             | 83011 810 9400              | SMD TRANS BFR93AR TEMIC                  |                      |                             |                                |
| CT 00002             | 83010 068 5800              | SMD-TRANS.BC 858 C                       |                      |                             |                                |
| CT 00101             | 83028 040 1000              | SMD-TRANS.IMH 10                         |                      |                             |                                |
| CT 00201             | 83011 601 3500              | SMD TRANS BCR135 SIE AV21                |                      |                             |                                |
| CT 00801             | 83011 601 3500              | SMD TRANS BCR135 SIE AV21                |                      |                             |                                |
| CT 00802             | 83011 601 3500              | SMD TRANS BCR135 SIE AV21                |                      |                             |                                |
| CT 00803             | 83010 068 4800              | SMD-TRANS.BC 848 C                       |                      |                             |                                |
| CT 00804             | 83010 068 4800              | SMD-TRANS.BC 848 C                       |                      |                             |                                |
| CT 00891             | 83010 068 4800              | SMD-TRANS.BC 848 C                       |                      |                             |                                |
| CT 00892             | 83010 068 5800              | SMD-TRANS.BC 858 C                       |                      |                             |                                |
| CT 00893             | 83010 068 4800              | SMD-TRANS.BC 848 C                       |                      |                             |                                |
| CT 00894             | 83010 068 4800              | SMD-TRANS.BC 848 C                       |                      |                             |                                |
| CT 01101             | 83011 601 3500              | SMD TRANS BCR135 SIE AV21                |                      |                             |                                |
| CT 01102             | 83011 601 6600              | SMD TRANS BCR166                         |                      |                             |                                |
| CT 01103             | 83011 601 3500              | SMD TRANS BCR135 SIE AV21                |                      |                             |                                |
| CT 02001             | 83010 068 4800              | SMD-TRANS.BC 848 C                       |                      |                             |                                |
| CT 02002             | 83010 068 4800              | SMD-TRANS.BC 848 C                       |                      |                             |                                |
| CT 02003             | 83010 068 4800              | SMD-TRANS.BC 848 C                       |                      |                             |                                |
| CT 02004             | 83010 068 4800              | SMD-TRANS.BC 848 C                       |                      |                             |                                |
| CT 02006             | 83010 068 5800              | SMD-TRANS.BC 858 C                       |                      |                             |                                |
| CT 02061             | 83010 068 1800              | SMD-TRANS.BC 818-40 S8                   |                      |                             |                                |
| CT 02101             | 83010 068 5800              | SMD-TRANS.BC 858 C                       |                      |                             |                                |
| CT 02102             | 83010 068 1800              | SMD-TRANS.BC 818-40 S8                   |                      |                             |                                |

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010 800 0000, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION