

**BRAUN**

**Technische Information  
Stromlaufplan**

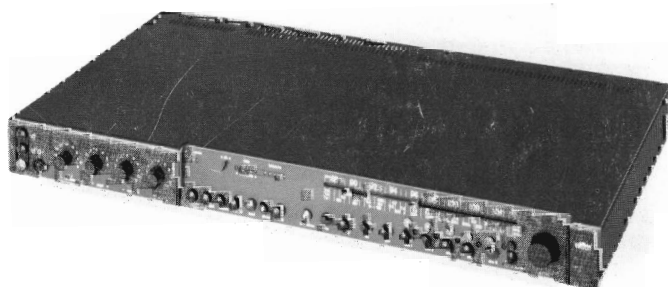
**Service Manual  
Circuit Diagram**

**Typ/Type: studio system RA 1  
analog**

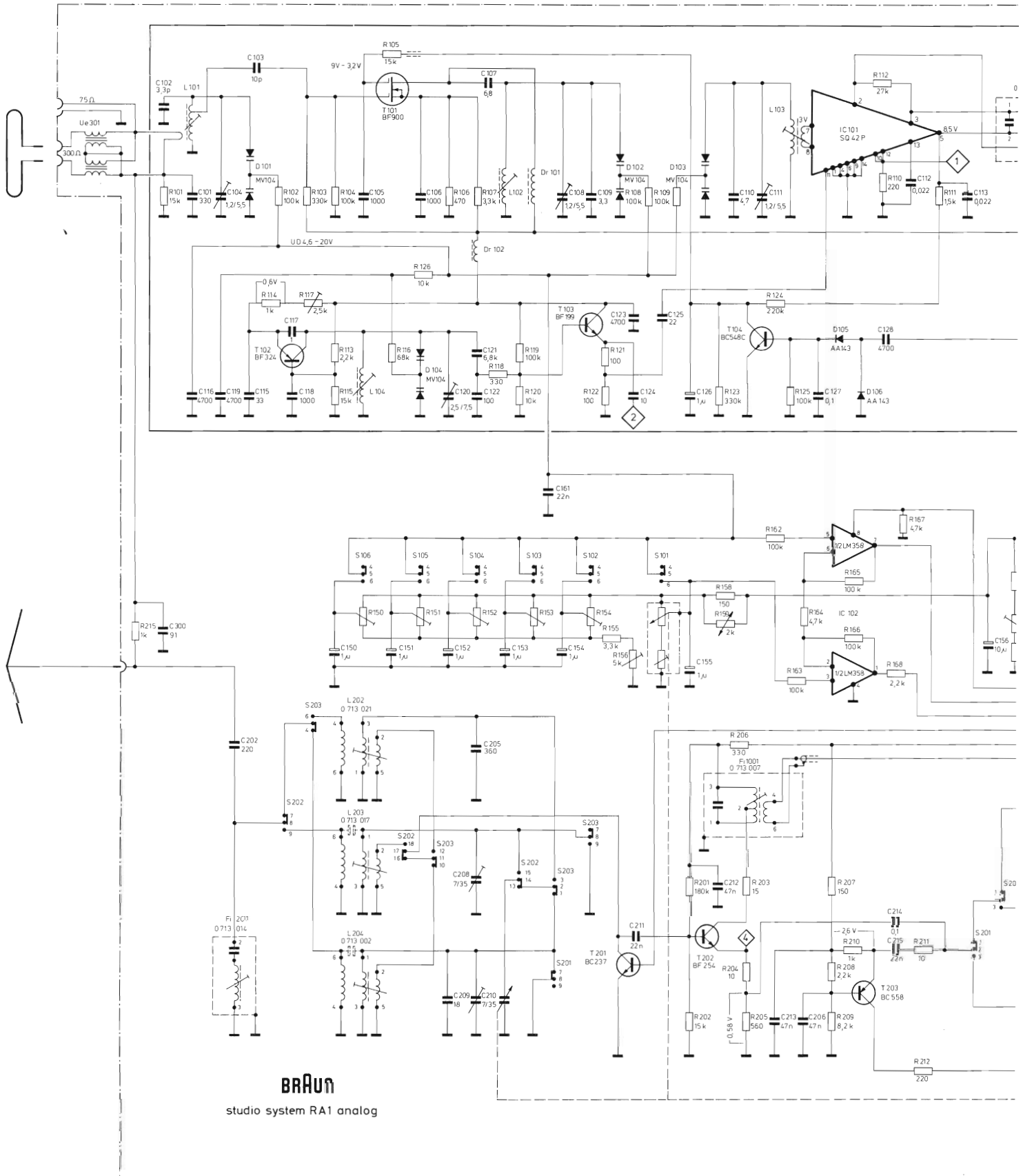
**BRAUN**

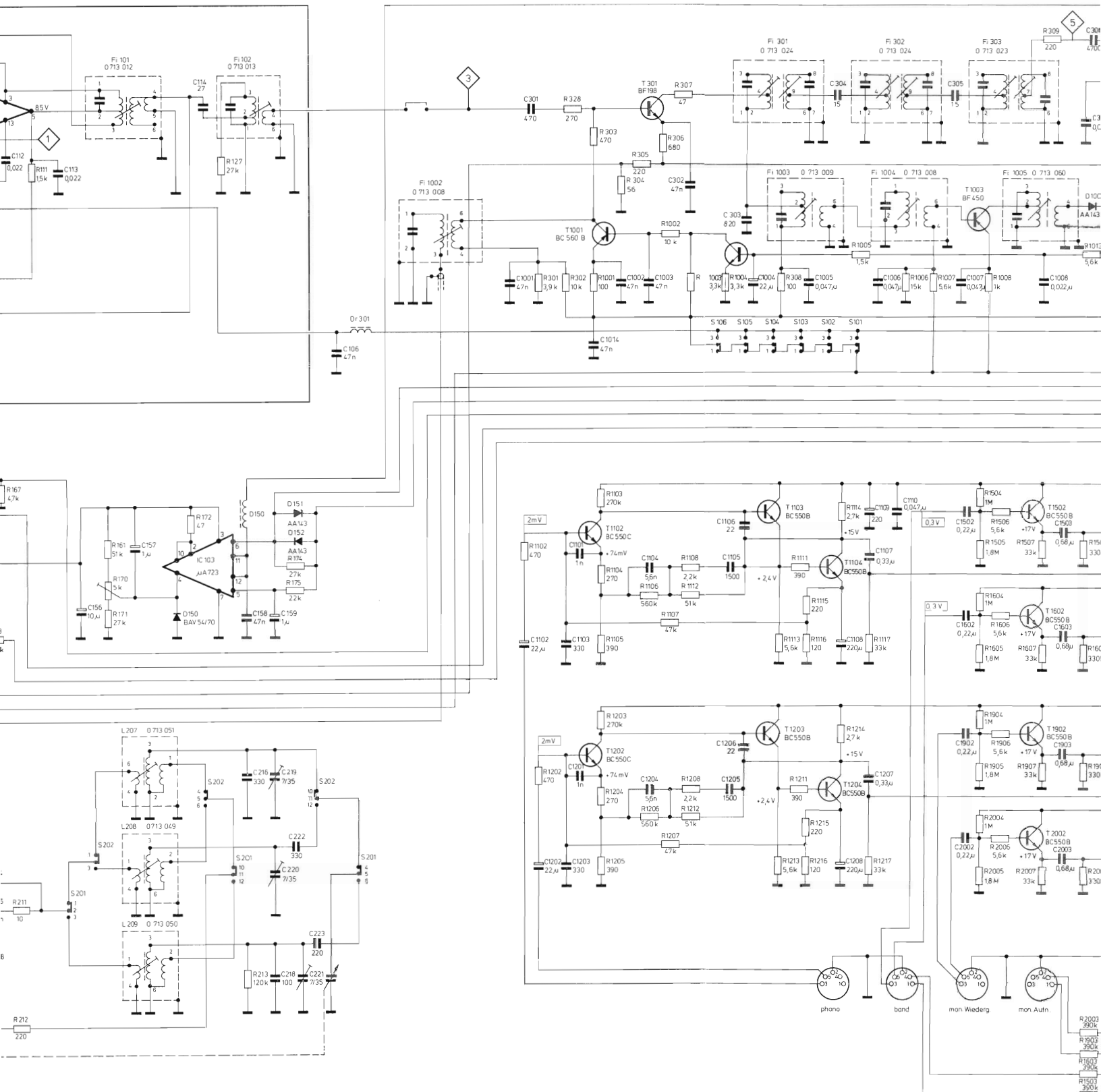
**studio system RA 1 analog  
HiFi Stereo Receiver**

**Hinweise zum Gebrauch**

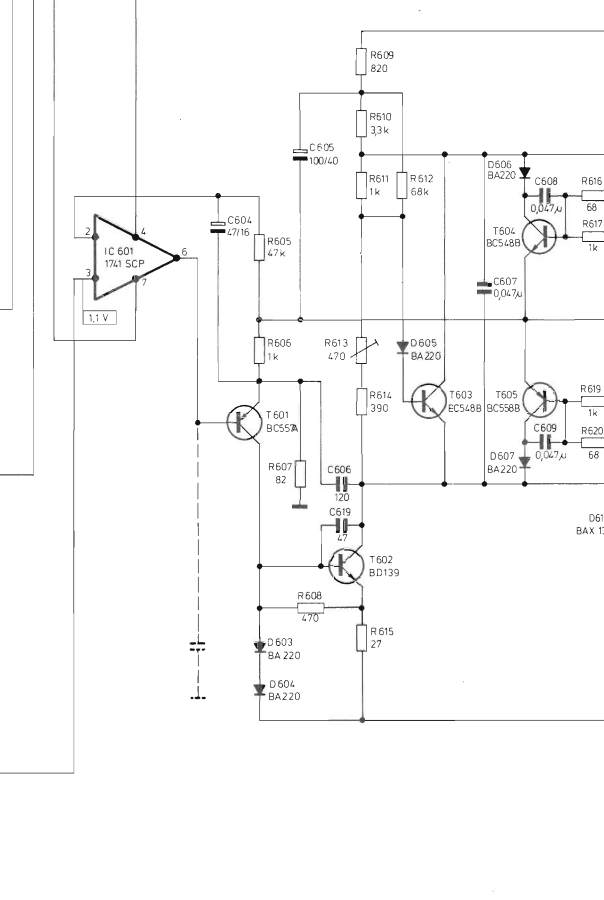
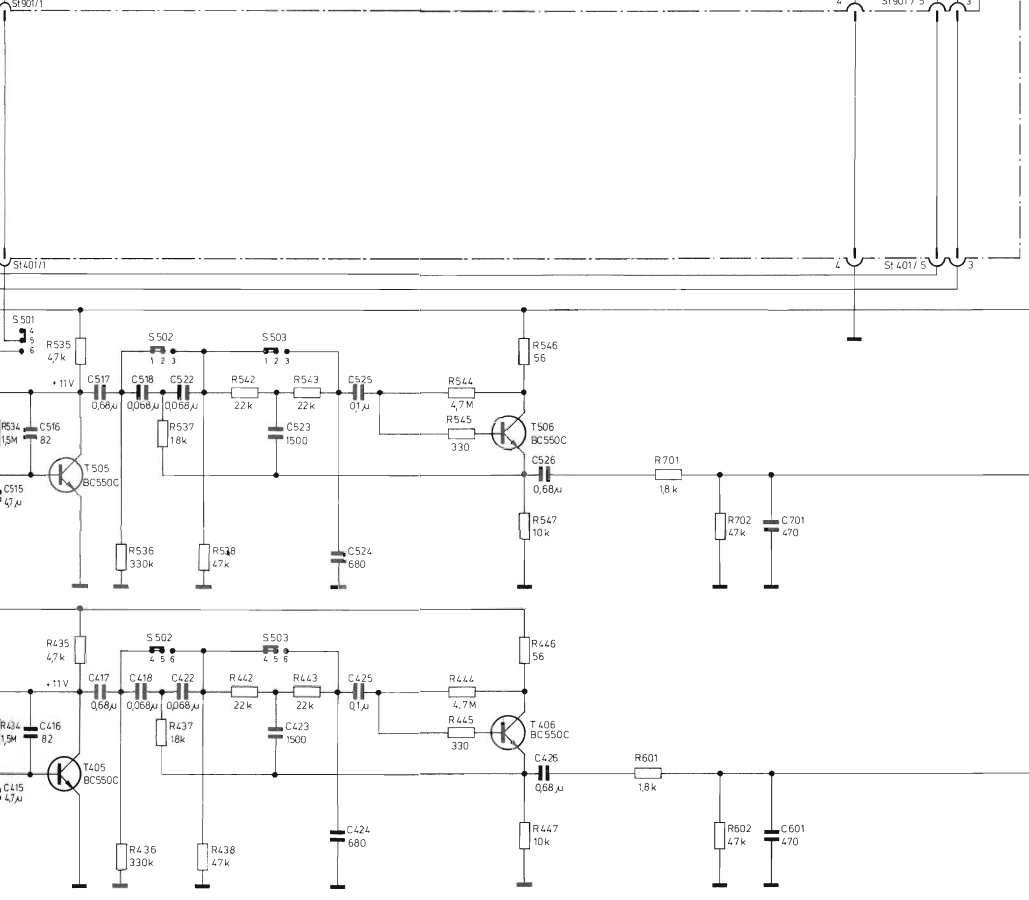
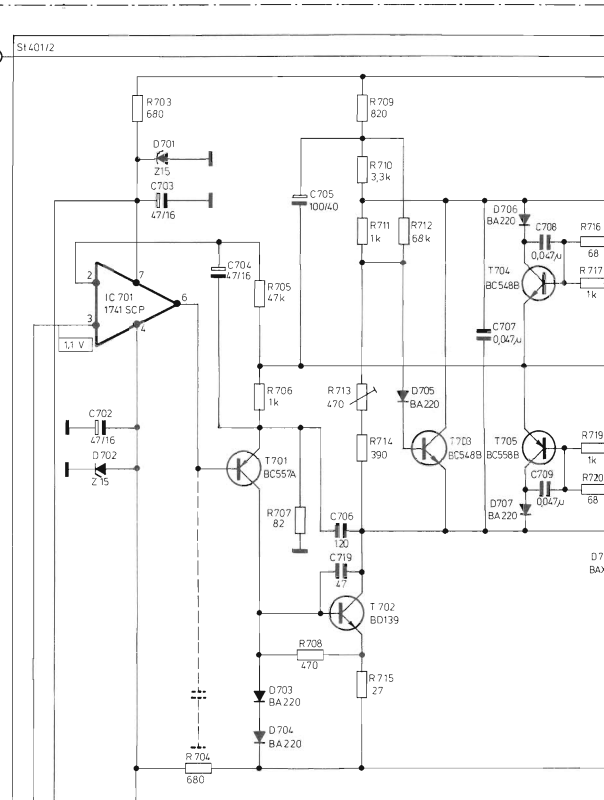
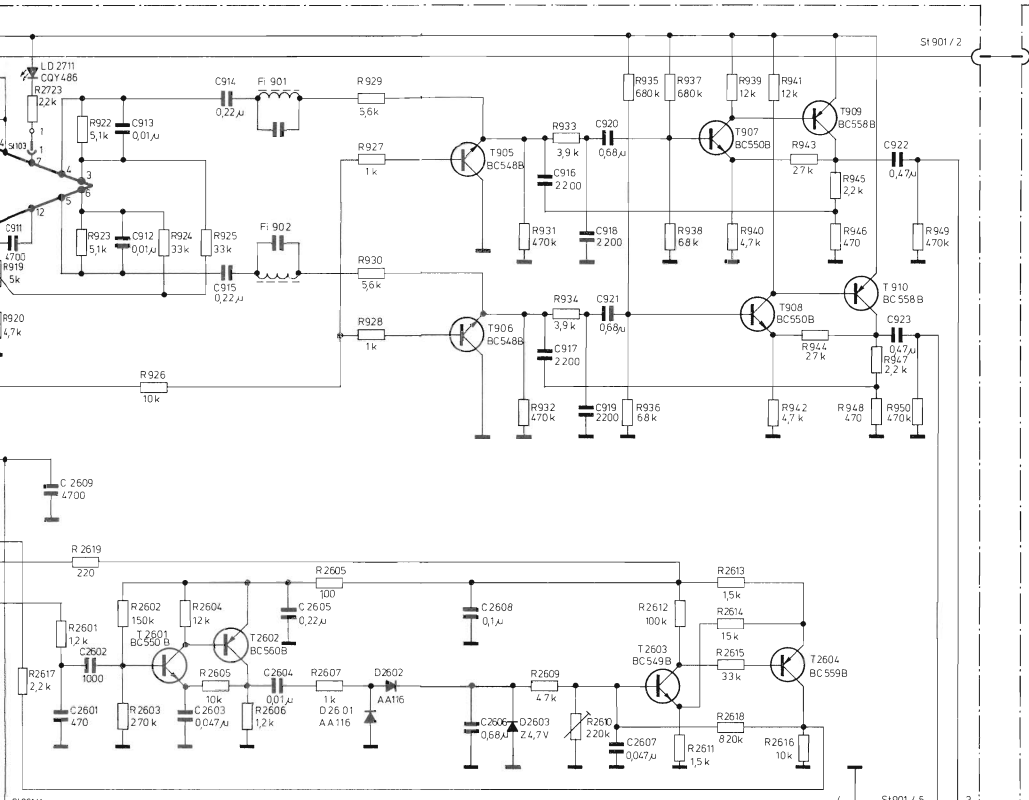


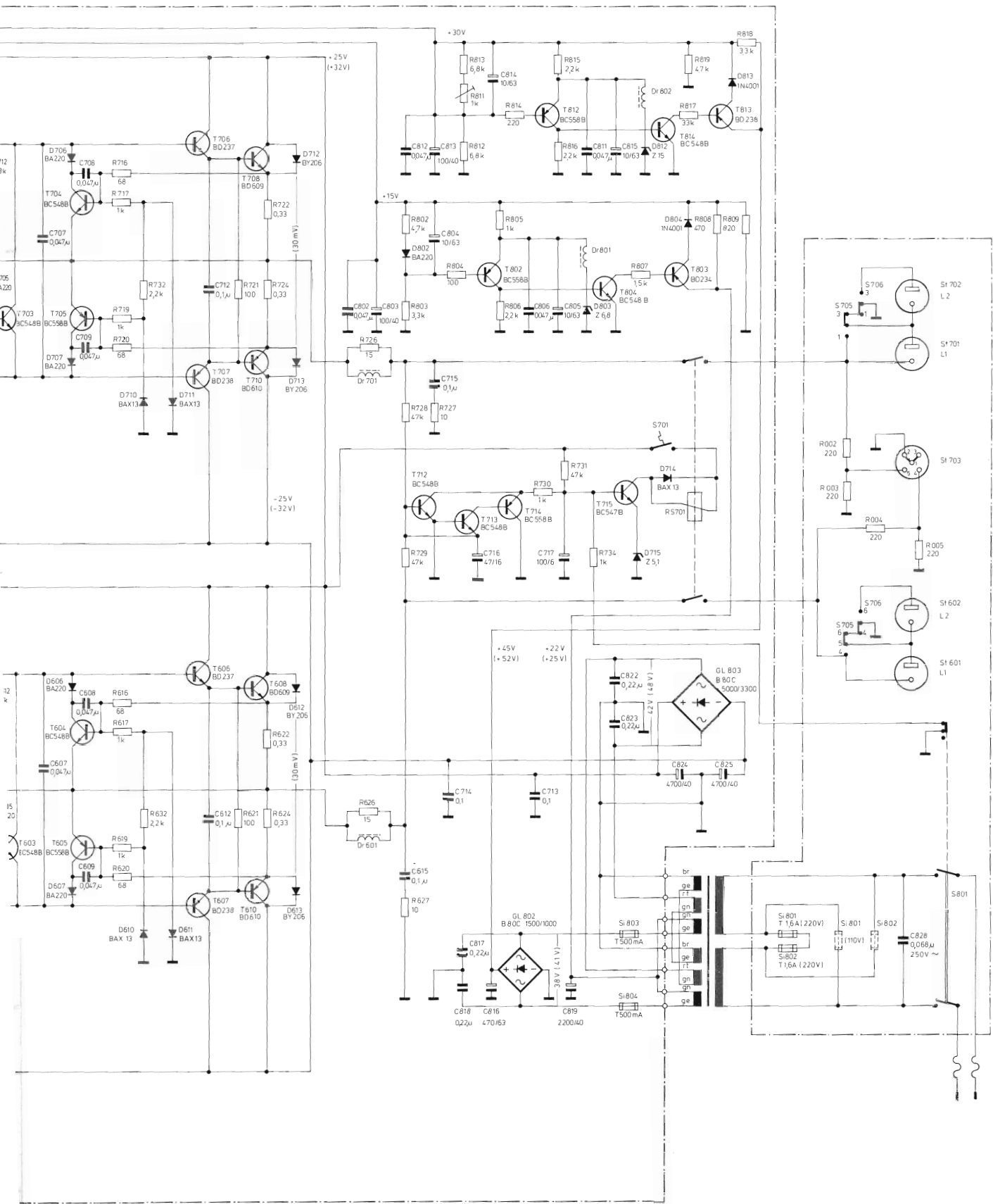
# Stromlaufplan Circuit Diagram











## Hinweise zum Stromlaufplan RA 1

## Notes on Circuit Diagram RA 1

### Gezeichnete Schalterstellungen:

Stationstasten: nicht gedrückt  
 NF-Tasten: radio gedrückt  
 Lautsprecher-Tasten: Lautsprecher 1 gedrückt

### Switches are shown in the following positions:

Station push buttons: not depressed  
 AF push buttons: radio depressed  
 Speaker push buttons: Speaker 1 depressed

Die im Endverstärker angegebenen Spannungswerte ohne Klammer sind mit Nennleistung, jene mit runder Klammer sind ohne Signal gemessen. Mittels Rechteck eingerahmte Spannungswerte sind NF-Spannungen (Effektivwert).

Voltages as indicated in the output stage not in parentheses are measured with nominal power and those in parentheses are measured without signal. Voltages in square parentheses are AF voltages (effective value).

Spannungsangaben ohne Bezugslinie sind gegen Masse zu messen. Gemessen wird generell bei 220 V Netzspannung und mit einem Meßinstrument, dessen Eingangswiderstand mindestens 50 k $\Omega$ /V beträgt.

Voltages without reference lines are measured to ground (chassis). Measurements should always be carried out at 220 V mains voltage with a 50 k $\Omega$ /V meter.

### Frequenzbereiche:

UKW 87,5 ... 104 MHz FM/ZF: 10,7 MHz  
 KW 5,8 ... 8,2 MHz AM/ZF: 455 kHz  
 MW 515 ... 1640 kHz  
 LW 145 ... 350 kHz

### Tuning range:

UKW 87,5 ... 104 MHz FM IF: 10,7 MHz  
 KW 5,8 ... 8,2 MHz AM IF: 455 kHz  
 MW 515 ... 1640 kHz  
 LW 145 ... 350 kHz

### Oszillatorspannungen

UKW 60 mV L-Seite am Emitter T 103 } Meßpunkt 2  
 KW 40 ... 100 mV am Emitter T 202 } Meßpunkt 4  
 MW 100 ... 120 mV am Emitter T 202  
 LW 130 ... 150 mV am Emitter T 202

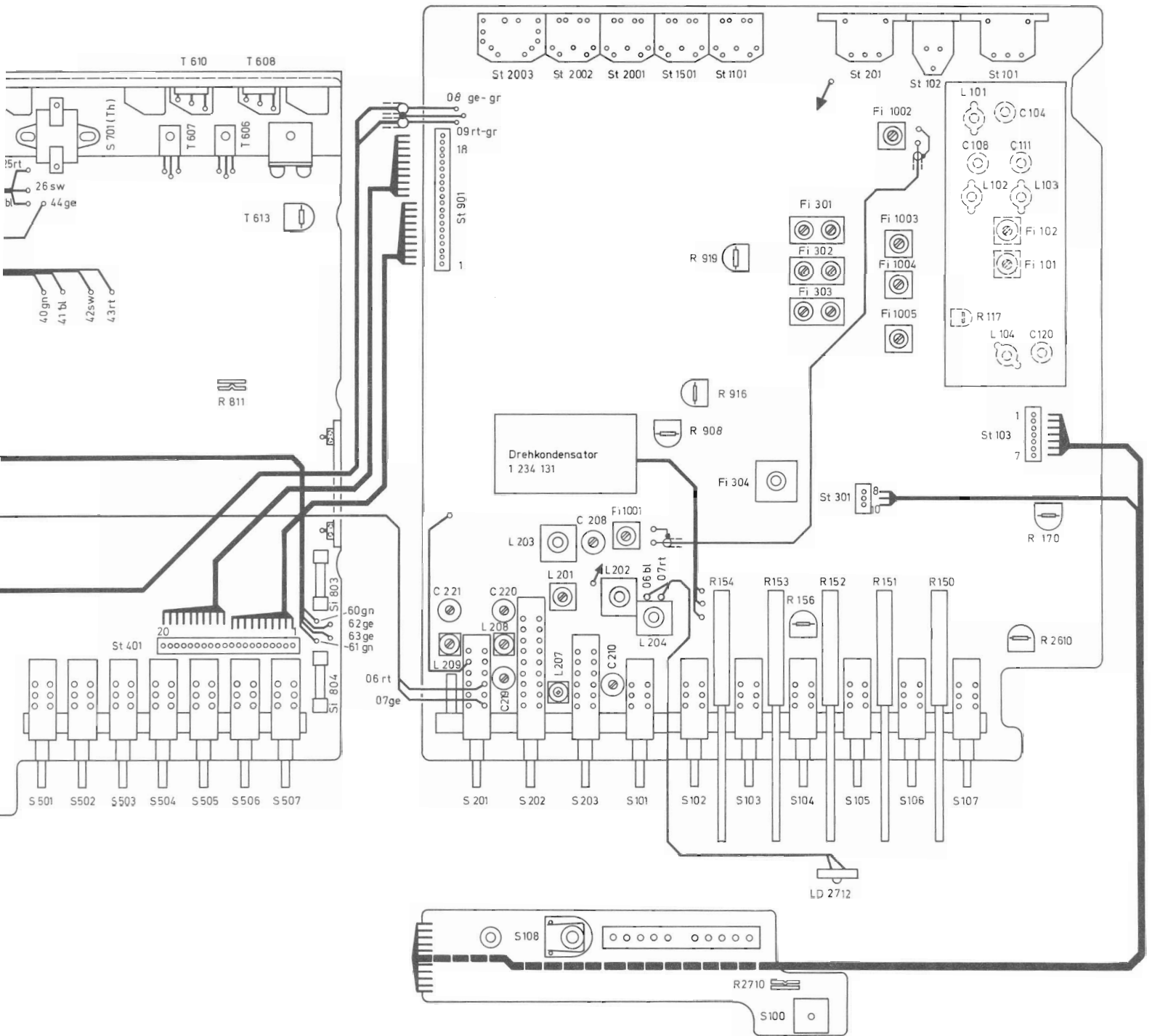
### Local oscillator voltages:

UKW 60 mV L-Side at emitter T 103 } test point 2  
 KW 40 ... 100 mV at emitter T 202 } test point 4  
 MW 100 ... 120 mV at emitter T 202  
 LW 130 ... 150 mV at emitter T 202

gemessen mit UHF-Millivoltmeter URV Rhode & Schwarz.

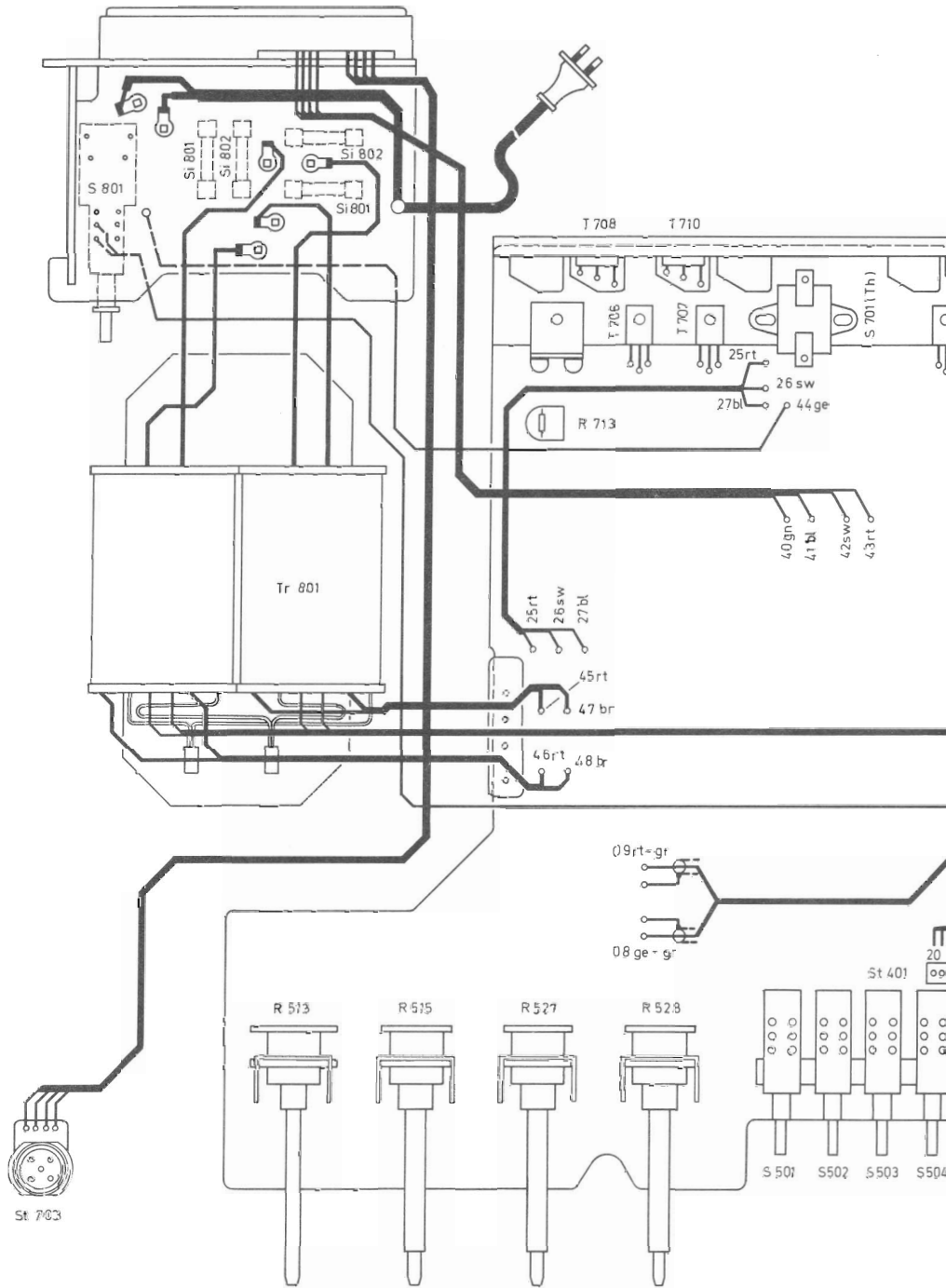
measured with Rhode & Schwarz UHF Millivoltmeter, type URV.





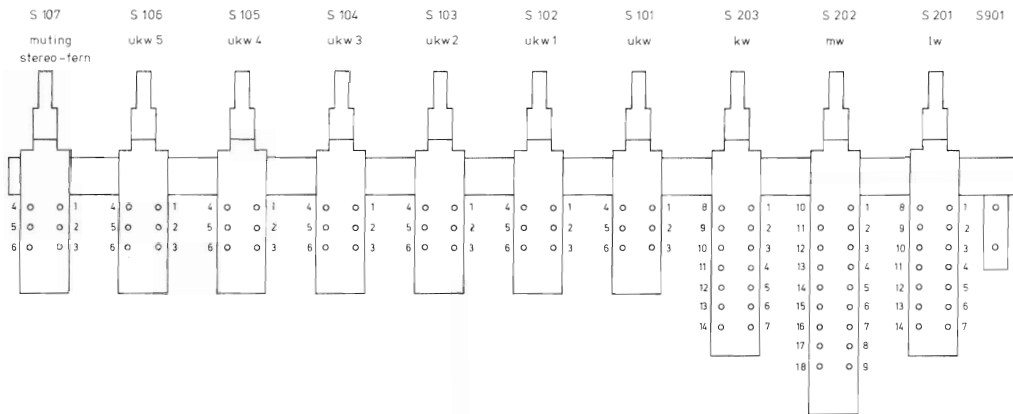


# Lageplan Component location

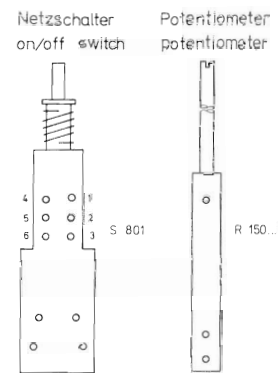
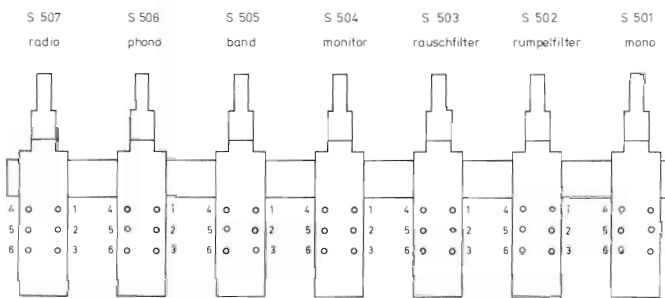
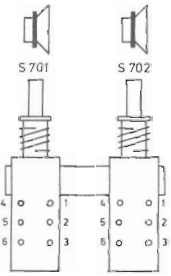
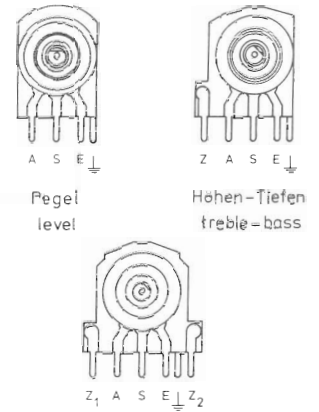


# Anschlußcode Connection Code

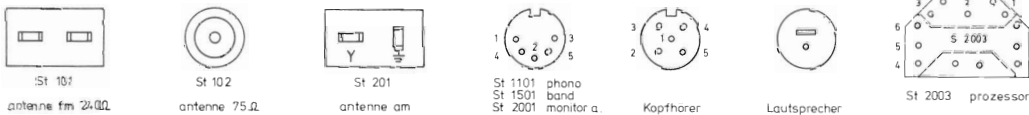
## Tastatur p-b switches



## Drehwiderstände rotary-potentiometers



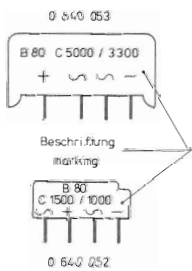
## Steckverbindungen pluggable-connections



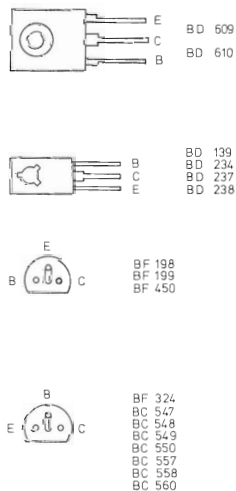
## Filter filters



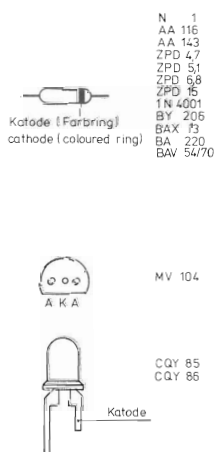
## Gleichrichter rectifiers



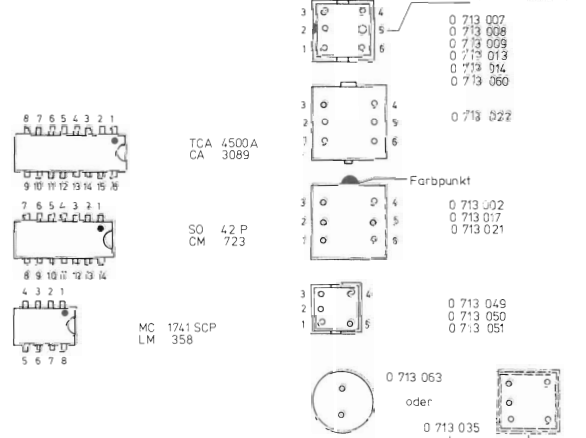
## Transistoren transistors



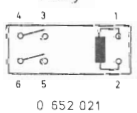
## Dioden diodes



## Integrierte Schaltungen integrated circuits



## Relais relay



## Trennstelle solder bridge (durch Lotpunkt überbrückt)



## Kondensatoren capacitors



## Widerstände resistors

