

BRAUN

R4

Technische Information
Stromlaufplan

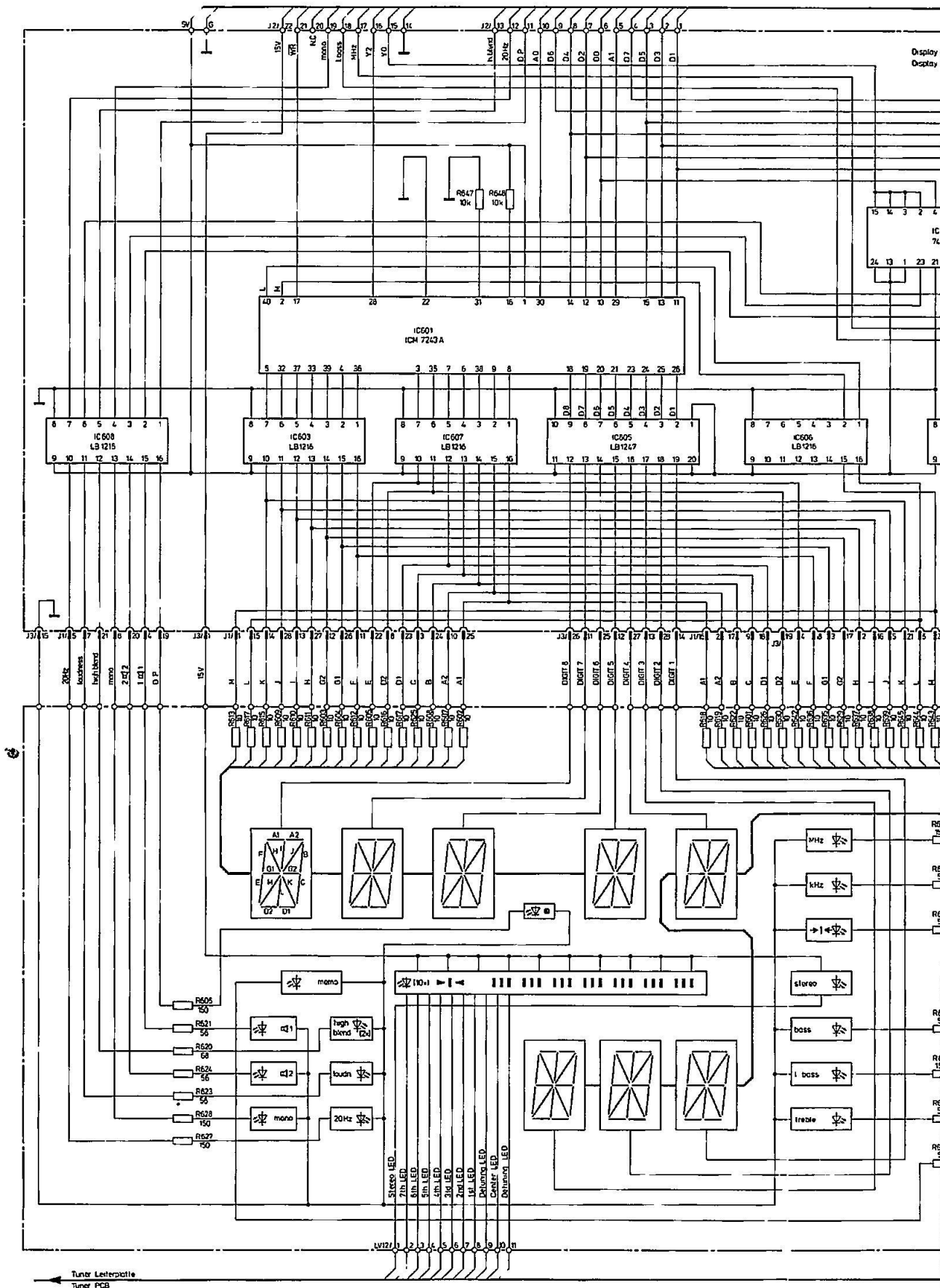
Informazioni tecniche
e schema del circuito

Service Manual
Circuit Diagram

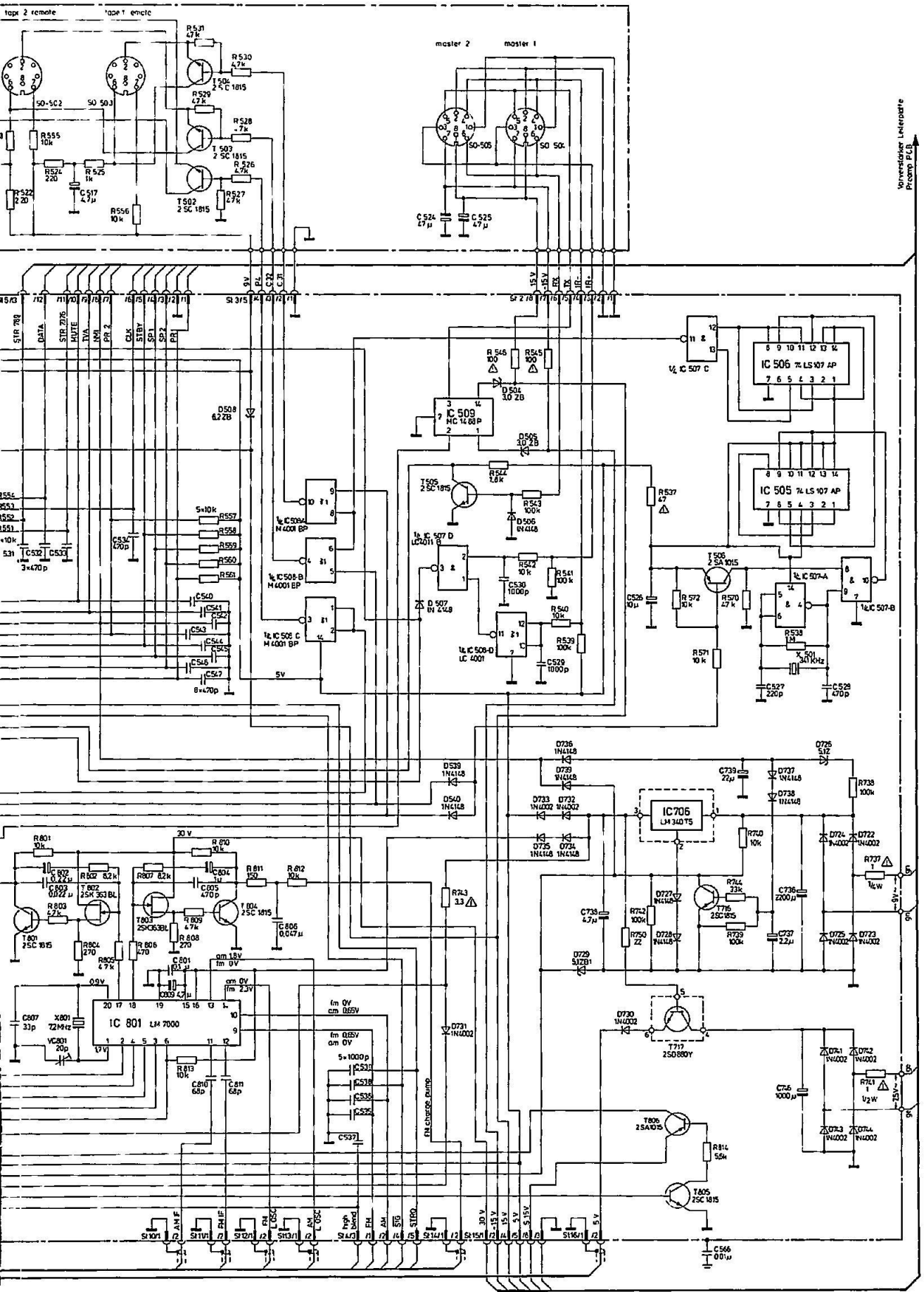
Information Technique
Schéma à partir

Stromlaufplan Schema

Circuit Diagram Schéma



← Tuner Leiste
Tuner PCB

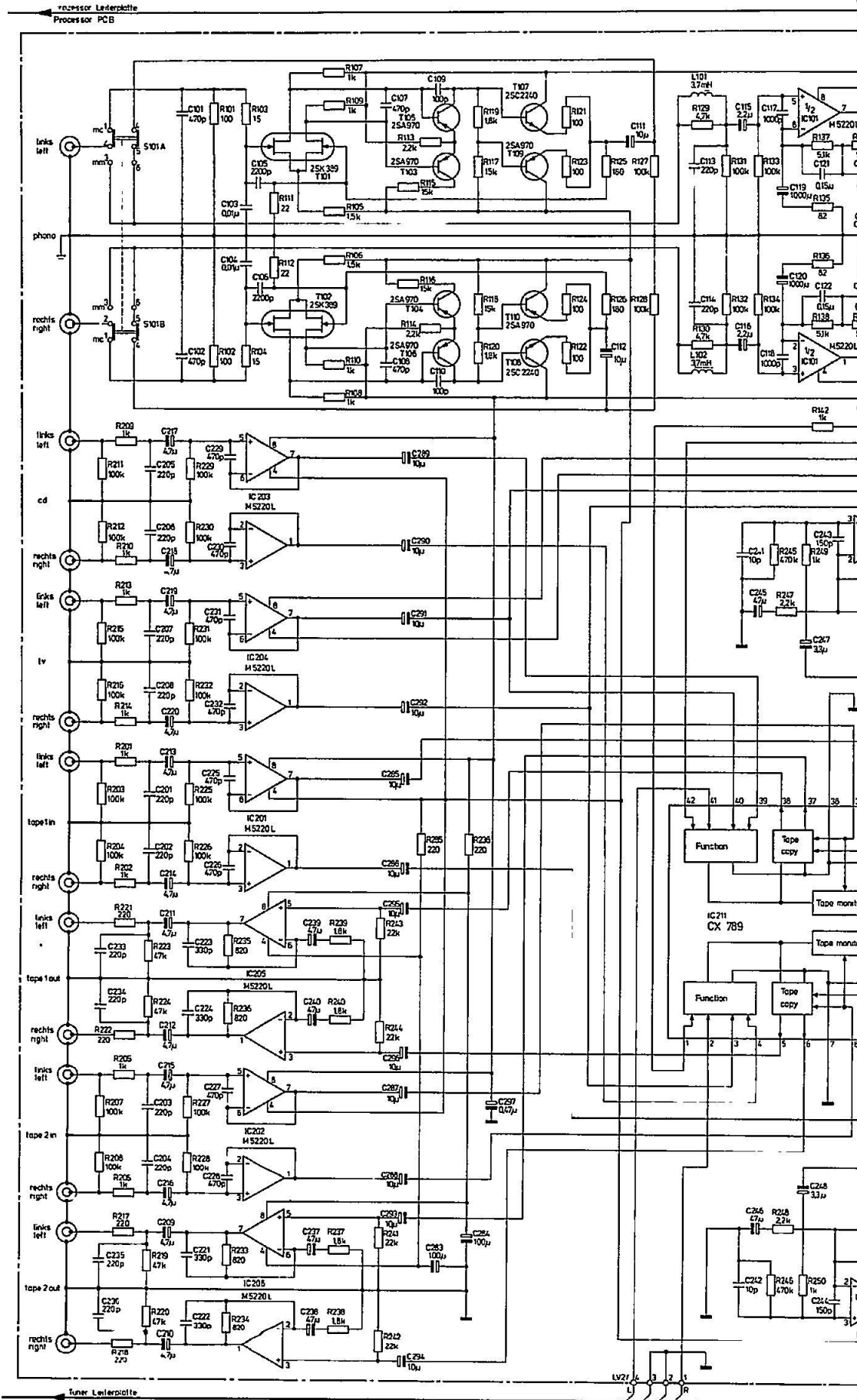


Preamp PCB

Stromlaufplan
Schema

Circuit Diagram
Schéma

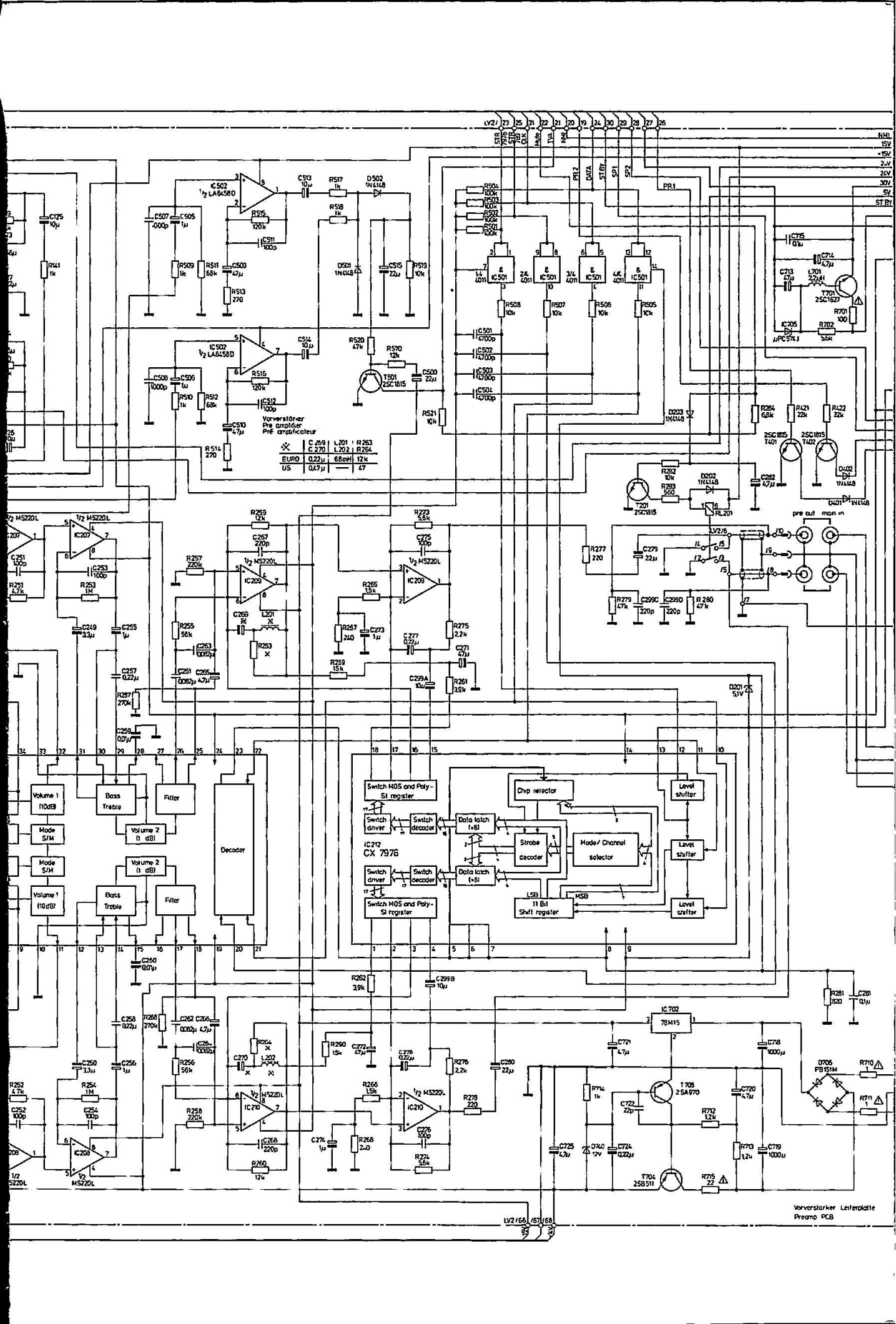
BRAUN - A/D/S / "R4" RECEIVER



Processor Leiterplatte
Processor PCB

Tuner Leiterplatte
Tuner PCB

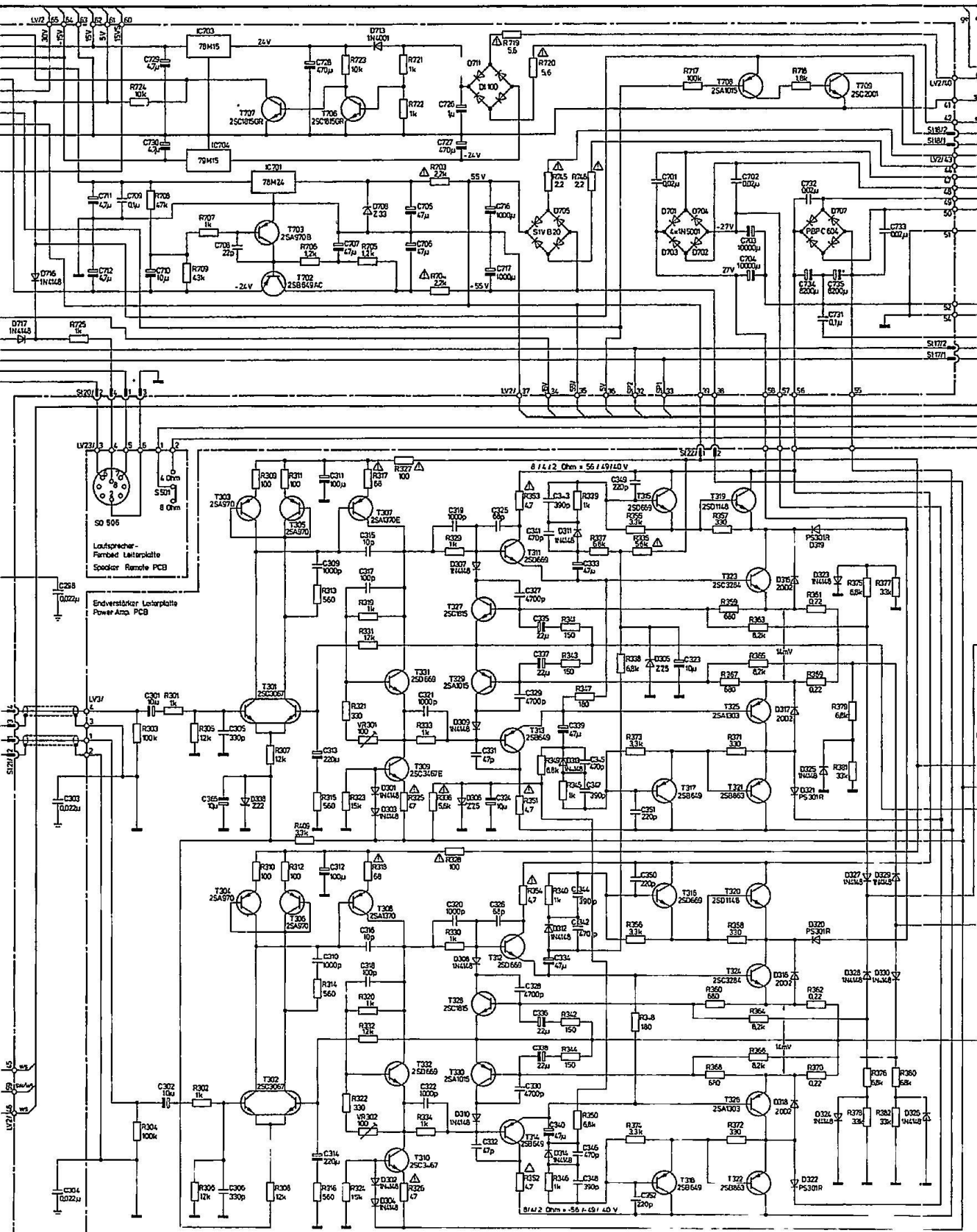
L21 1 2 3 4



Vorverstärker
Pre amplifier

×	C 270	L 201	R 263
EURO	0.22 μ	68mH	12k
US	0.47 μ	—	47

Vorverstärker Leiterplatte
Preamp PCB

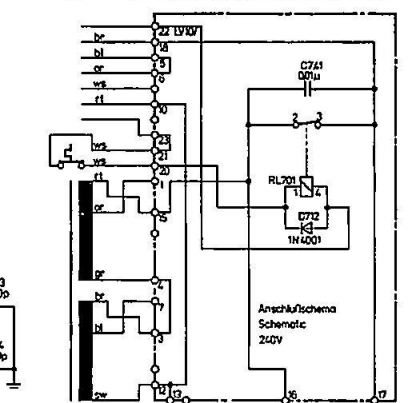
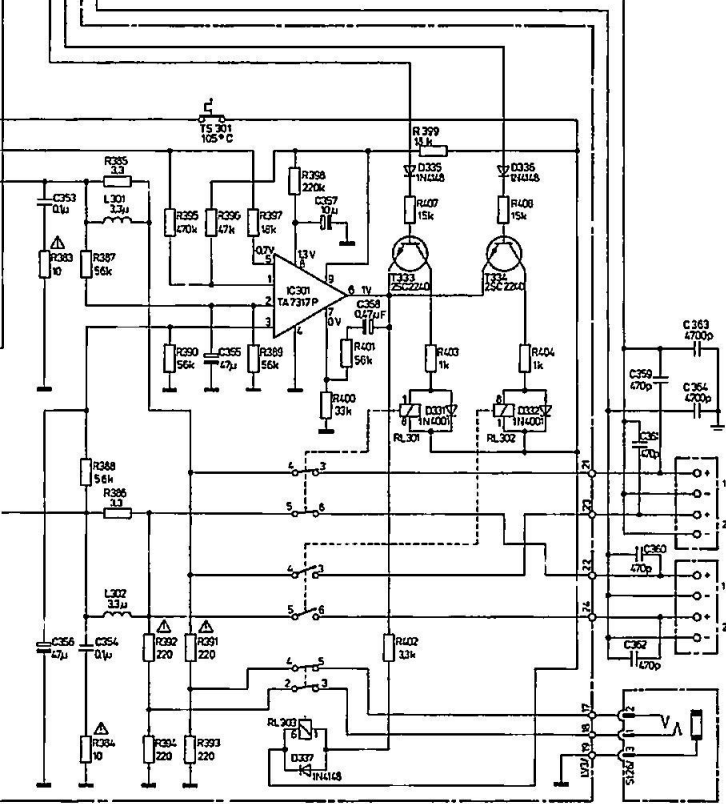
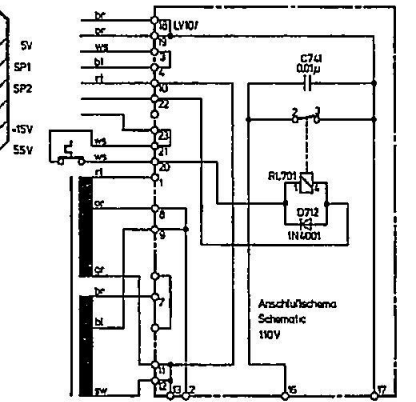
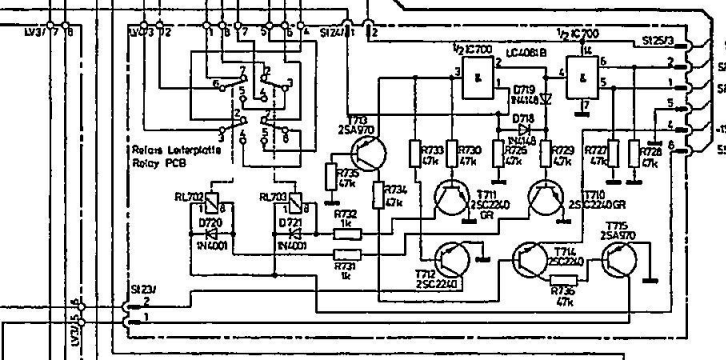
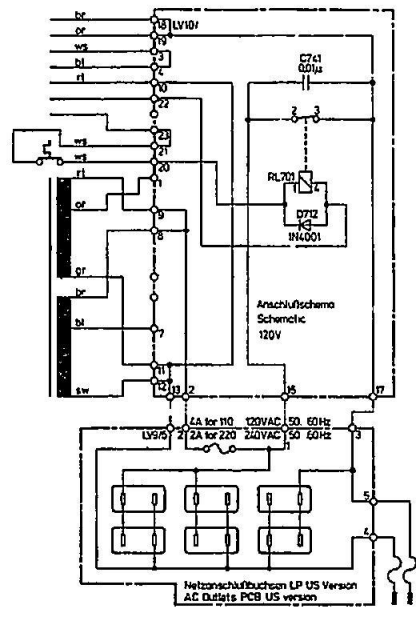
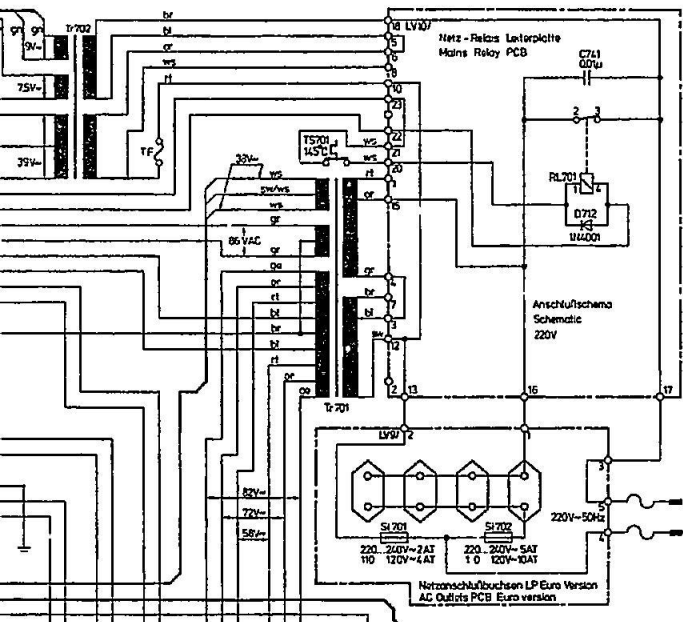


SO 506
Lautsprecher-
Farbad Leiterplatte
Speaker Remote PCB

Endverstärker Leiterplatte
Power Amp PCB

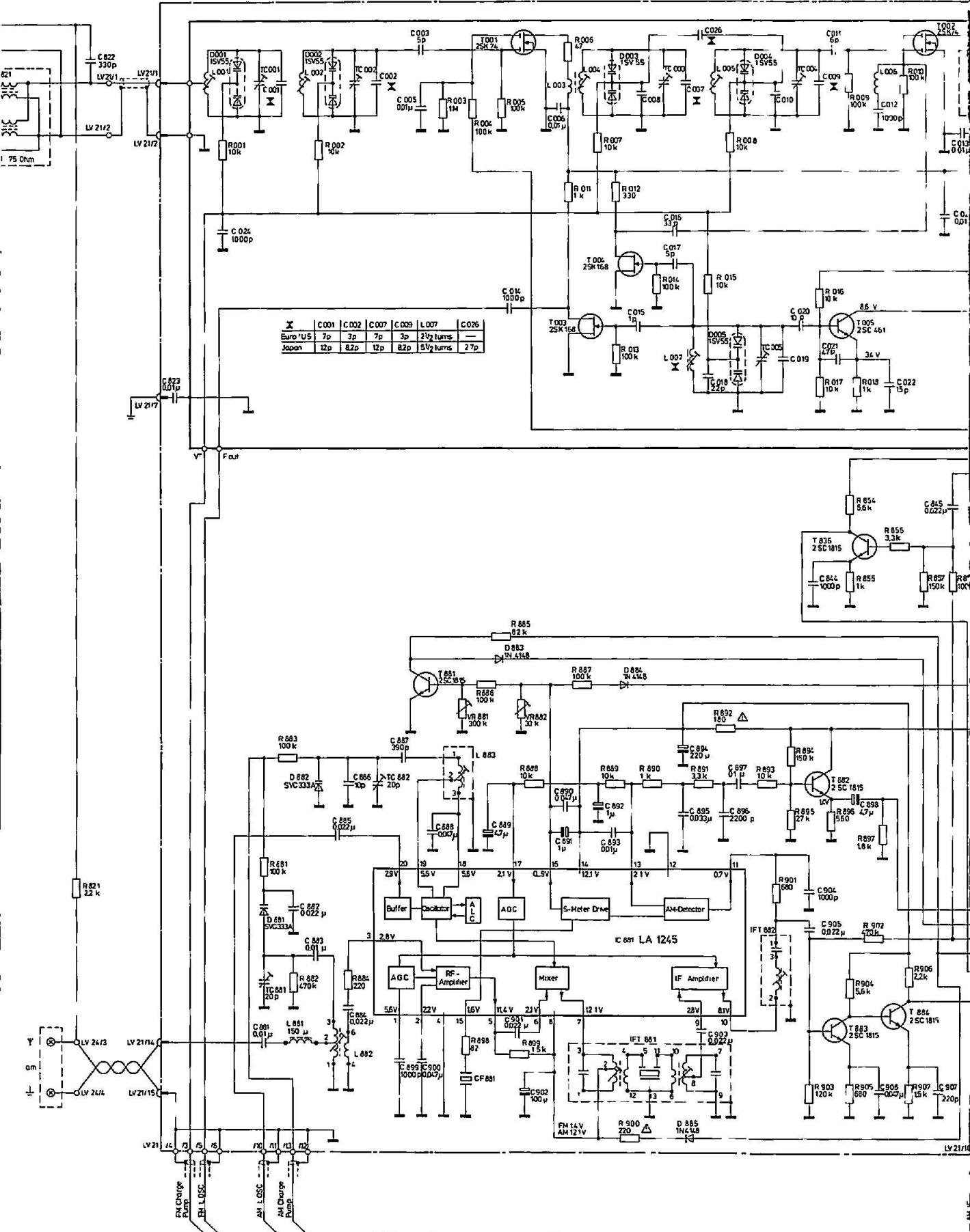
8 14 2 Ohm = 56 1 49 14 0 V

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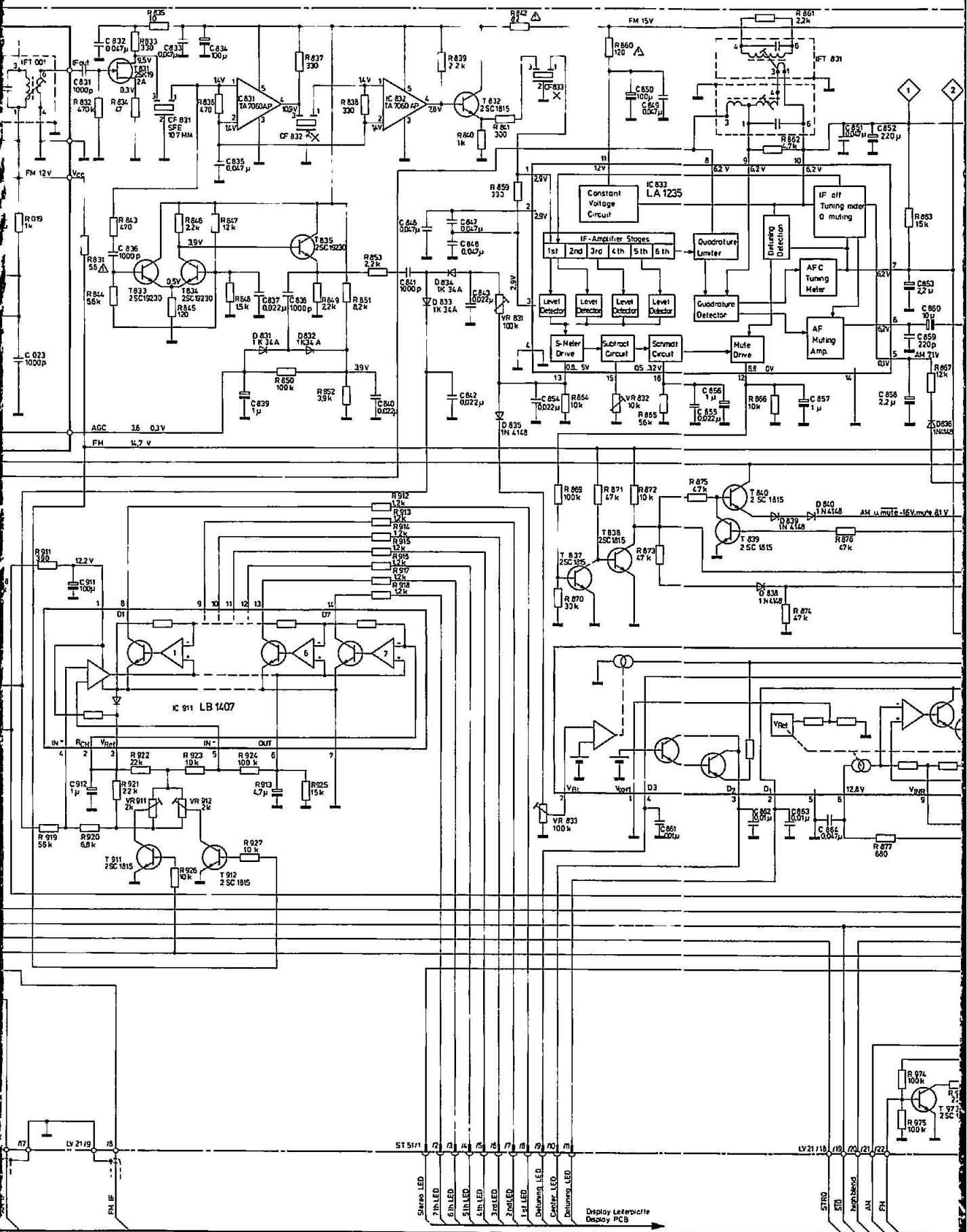


Stromlaufplan
Schema

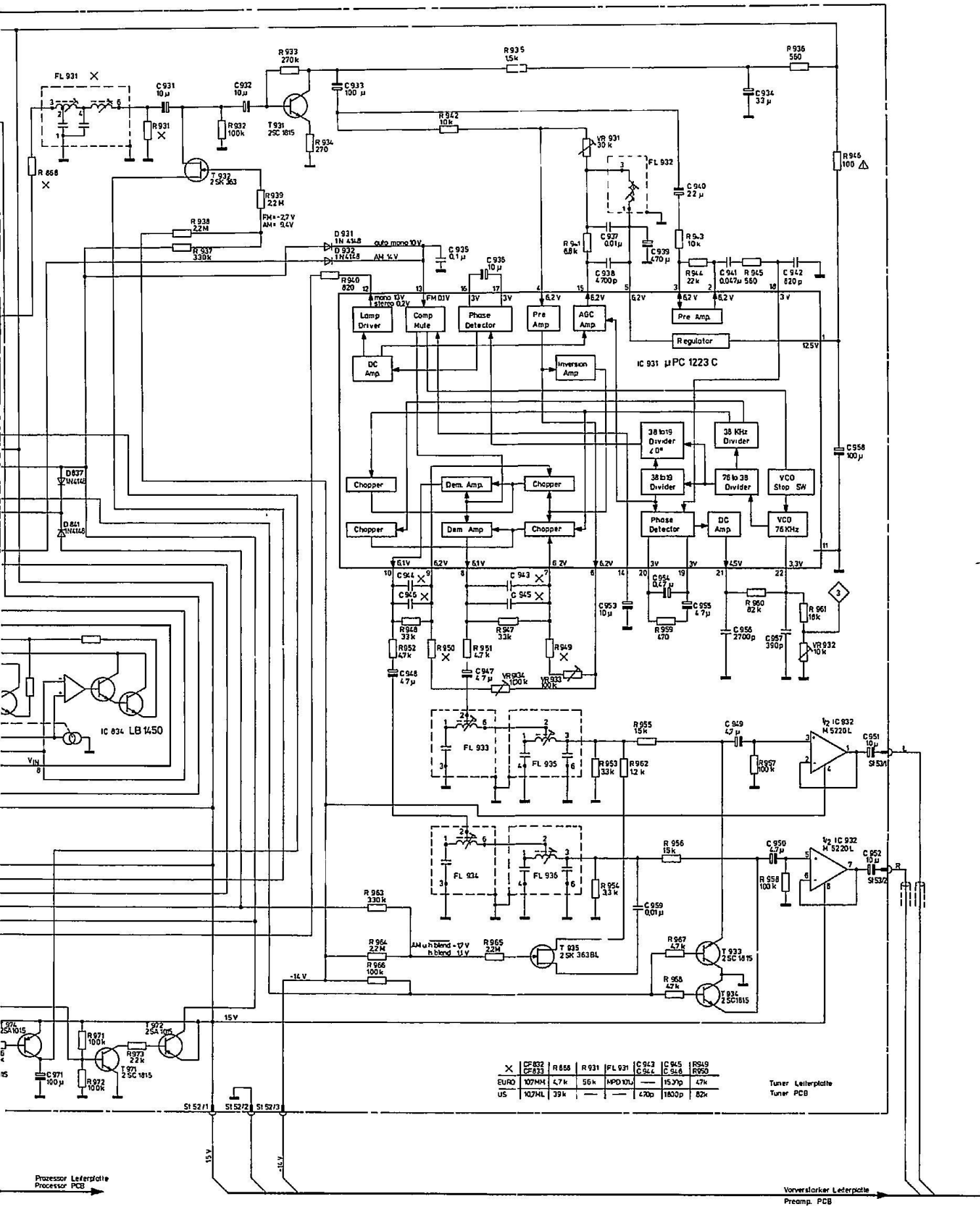
Circuit Diagram
Schéma



	C 001	C 002	C 007	C 009	L 007	C 026
Euro/US	7p	3p	7p	3p	21 $\frac{1}{2}$ turns	—
Japan	12p	8.2p	12p	8.2p	5 $\frac{1}{2}$ turns	2.7p



ST 51/1 1/2 3 4 5 6 7 8 9 10 11
 Stereo LED
 7th LED
 6th LED
 5th LED
 4th LED
 3rd LED
 2nd LED
 1st LED
 Detuning LED
 Center LED
 Detuning LED
 Display LED PCB
 Display LED PCB
 Display LED PCB
 STRO 5/0
 High Blend
 AM
 FM
 LV 21/1 1/2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
 R 974 100k
 T 975 2SC 1815
 R 976 100k



×	CP 932	R 868	R 931	FL 931	C 943	C 945	R 949
EURO	107MH	47k	56k	MPD10J	—	153p	47k
US	107MH	39k	—	—	470p	1800p	82k

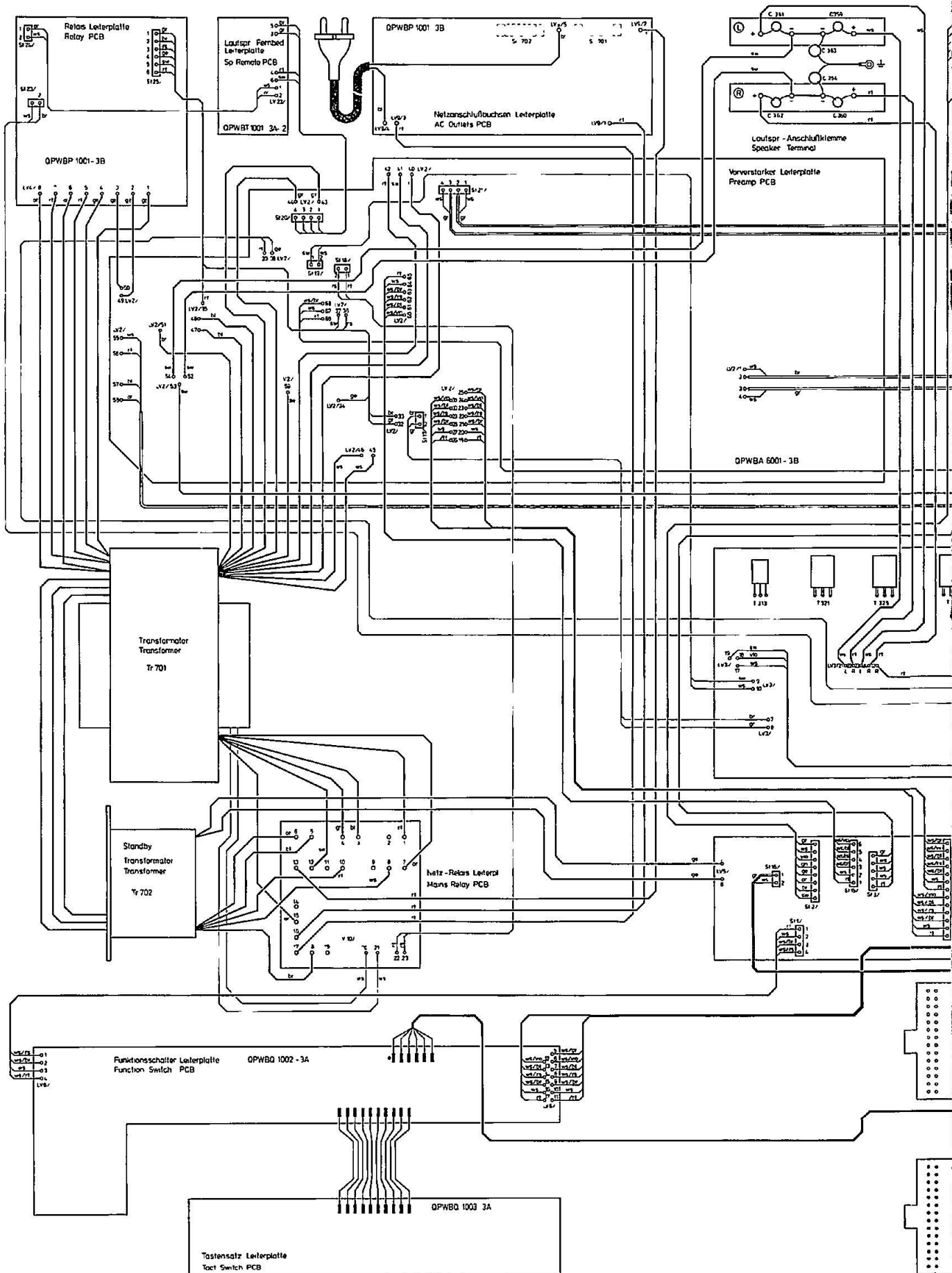
Tuner Leiterplatte
Tuner PCB

Processor Leiterplatte
Processor PCB

Vorverstärker Leiterplatte
Preamp PCB

Lageplan Schema

Component Location Schéma



Hinweise zum Stromlaufplan R4

Nozioni per lo schema R4

Gezeichnete Schalterstellungen Netzschalter gedruckt Eingangswahlschalter FM Lautsprecher 1 Lautsprecher 1 gedruckt Impedanzwahlschalter 8 Ohm

Spannungsangaben sind gegen Masse zu messen Die angegebenen Meßwerte werden bei 220 V* Netzspannung und einer Umgebungstemperatur von 25 °C mit einem Meßinstrument, dessen Eingangswiderstand mindestens 50 kOhm/V beträgt, gemessen

Die angegebenen Spannungen können um $\pm 10\%$ abweichen

* 120 V bei US- und Canada-Version

Frequenzbereiche UKW 87,5 108 MHz FM/ZF 10,7 MHz AM 522-1611 kHz AM/ZF 450 kHz

Oszillatorspannungen UKW ca 550 mV am Emitter T005 gemessen mit Millivoltmeter URV Rhode & Schwarz oder Sampling Voltmeter 3406 A Hewlett-Packard

Wichtig für Euro-Version Bei Umschaltung des Gerates auf eine andere Netzversorgungsspannung ist die Angabe auf dem Typenschild durch den im Gerät angebrachten Spannungsaufkleber entsprechend zu ändern



Die Bauteile, die mit Sicherheitszeichen markiert sind, sind bei Reparaturen nur durch die vom Hersteller geprüften Originalteile zu ersetzen. Nur so kann die Betriebssicherheit garantiert werden

Posizione degli interruttori Interruttore di rete spento Selettore die entrata FM Interruttore altoparlanti 1 altoparlanti 1 spento Selettore impedenza 8 Ohm

I voltaggi sono misurati in rispetto alla terra I voltaggi indicati sono misurati a 220 Volt ad una temperatura ambiente di 25 °C, con uno strumento quale resistenza d'entrata e di almeno 50 kOhm/V

I voltaggi indicati possono variare del $\pm 10\%$

* 120 V per le versioni USA e Canada

Frequenze FM 87,5 108 MHz FM/IF 10,7 MHz AM: 522-1611 kHz AM/IF 450 kHz

Voltaggi oscillanti FM circa 550 mV con emettitore T005 misurato con millivoltmetro, URV, Rhode & Schwarz, oppure con un voltmetro 3406 A Hewlett-Packard

Importante per le versioni Europee Quando all'apparecchio necessita di essere cambiato il voltaggio, vi suggeriamo di cambiare il voltaggio anche sulla placca interna, mediante l'apposito adesivo in dotazione

Tutti i componenti indicati con l'apposito segno di sicurezza, devono essere sostituiti esclusivamente con ricambi originali provati dal produttore solo in questo modo la sicurezza del vostro apparecchio viene garantita



Notes on Circuit Diagram R4

Indications pour le schéma R4

Switched positions shown Mains switch Input selector Loudspeaker button depressed FM Loudspeaker 1 depressed 8 Ohm Impedance selector

Voltages are measured with respect to ground Voltages indicated are measured at 220 V* mains and an ambient temperature of 25 °C with a meter whose input resistance is at least 50 kOhm/V

Given voltages may vary $\pm 10\%$

* 120 V for US and Canada version

Frequency ranges FM 87,5 108 MHz FM/IF 10,7 MHz AM 522-1611 kHz AM/IF 450 kHz

Oscillator voltages FM ca 550 mV on Emitter T005 measured with Millivoltmeter URV Rhode & Schwarz or Sampling Voltmeter 3406 A Hewlett-Packard

Important for European version When the unit is changed to another supply voltage the information on the type plate must be changed accordingly using the voltage sticker located inside the unit



Components marked with the safety symbol should only be replaced by original parts tested by the manufacturer, when in need of repair Only in this way can safety in operation be guaranteed

Position des commutateurs dessinés Interrupteur principal enfoncé Sélecteur d'entrée FM haut-parleur 1 haut-parleur 1 enfoncé Inverseur d'impédance 8 Ohm

Les tensions sont à mesurer par rapport à la masse Les valeurs indiquées sont avec une tension secteur de 220 V*, avec une température ambiante de 25 °C et un instrument de mesure ayant une impédance d'entrée d'au moins 50 kOhms/V

Les tensions indiquées peuvent dévier de $\pm 10\%$

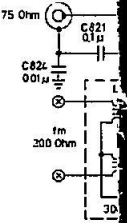
* 120 V US- et Canada-version

Gammes de fréquences FM 87,5 108 MHz FM/IF 10,7 MHz AM 522-1611 kHz AM/IF 450 kHz

Tensions d'oscillateurs FM env 550 mV sur l'émetteur de T005 mesurées avec le millivoltmètre URV Rhode & Schwarz ou le Sampling Voltmeter 3406 A Hewlett-Packard

Important pour version Européenne Si l'appareil a été adapté sur une autre tension d'alimentation, il faut changer l'information portée sur la plaque en utilisant l'auto-collant à l'intérieur de l'appareil

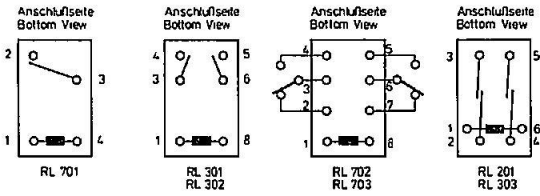
Les composants avec un signe de sécurité ne doivent être remplacés en cas de réparations que par des pièces d'origine éprouvées par le constructeur La sécurité d'emploi ne donne une garantie qu'à cette condition



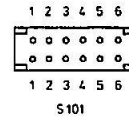
Anschlußcode Codice collegamenti

Connection Code Code de connexion

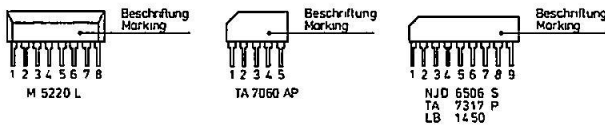
Relais Relay



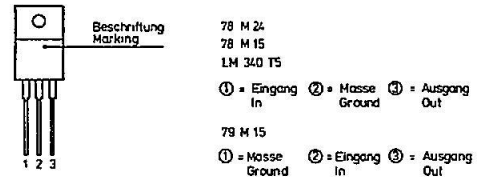
Schalter Switches



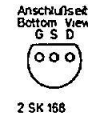
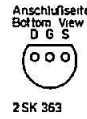
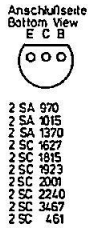
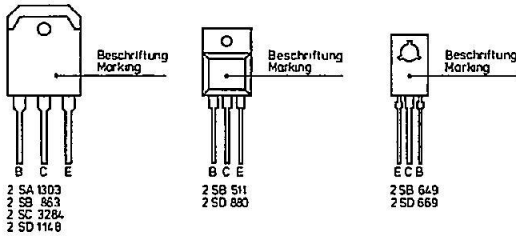
Integrierte Schaltungen Integrated Circuits



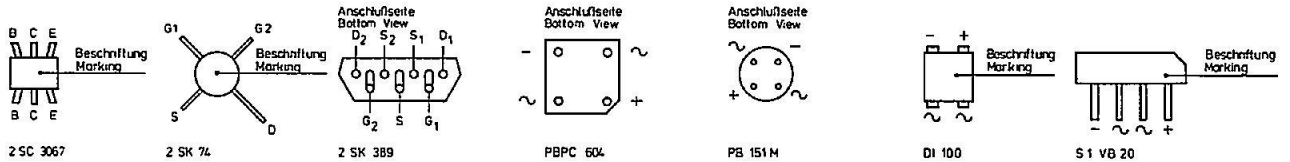
Spannungsregler Voltage Regulators



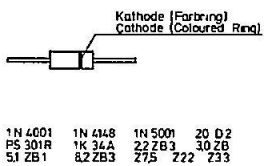
Transistoren Transistors



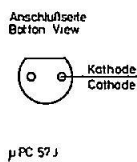
Gleichrichter Rectifiers



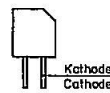
Dioden Diodes



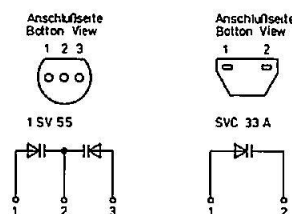
Referenz - Diode Reference Diode



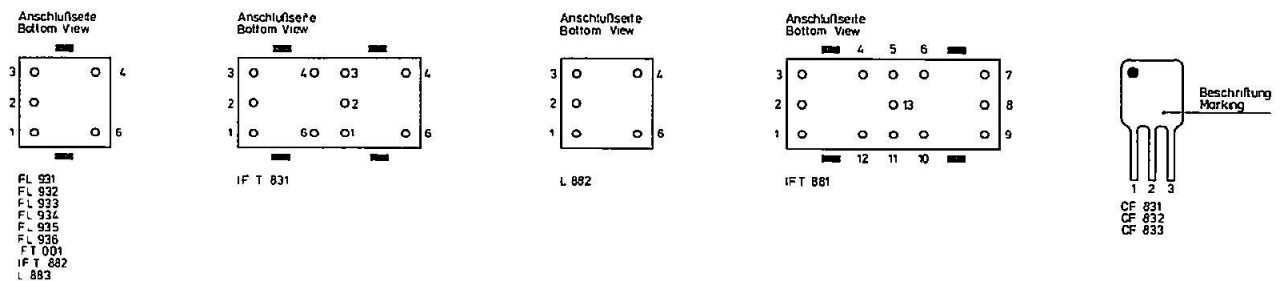
IR - Diode IR Diode



Varicap - Dioden Varicap Diodes



Spulen und Filter Coils and Filters



1 985-005/dt./ital./engl./franz./III-89 Printed in Taiwan R O C

Anderungen vorbehalten

Soggetto a modifiche senza preavviso

Subject to modifications without notice

Saut modifications