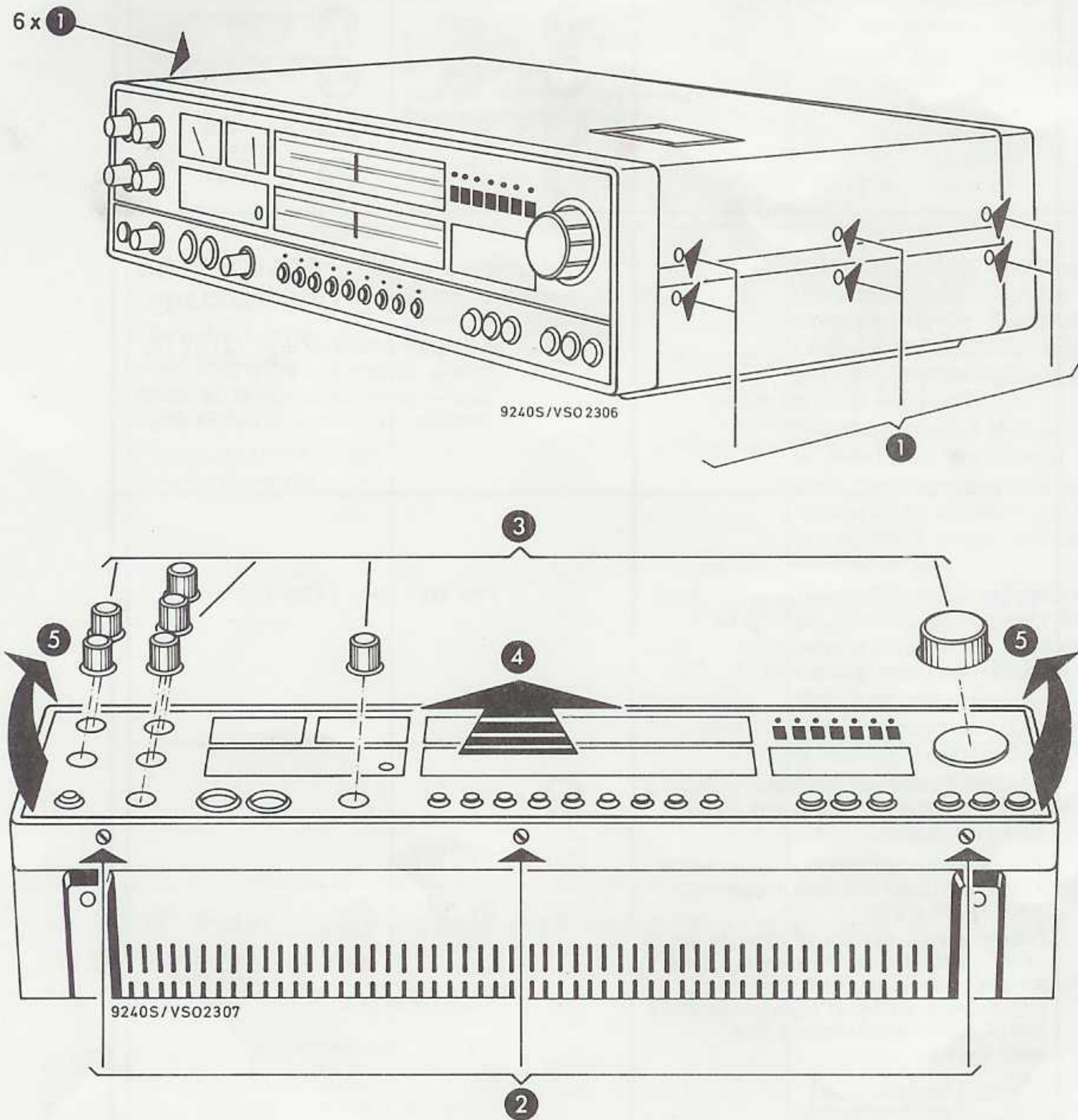


Service-Schaltbild

ULTRA HiFi professional
9240 S electronic

Service circuit diagram
Documentation technique
Schema di servizio



Ausbauhinweise:

Zur Abnahme des Gehäuseober- und unterteils, die Schrauben 1 auf beiden Seiten lösen.

Zum Ausbau der Frontplatte werden die drei Schrauben 2 entfernt und die Drehknöpfe 3 abgenommen. Die Frontplatte etwas nach oben schieben 4 und unten herausschwenken 5.

Dismounting hints:

To remove the upper and lower sections of the housing, loosen the screws 1 on both sides.

To remove the front panel, loosen the three screws 2 and remove the rotary knobs 3. The front panel should then be removed by lifting slightly 4 and swinging out from below 5.

Indications pour le démontage:

Pour enlever le dessus et le dessous du coffret, enlever les vis 1 sur les deux côtés.

Pour démonter la plaque frontale, enlever les trois vis 2 et enlever les boutons 3. Pousser la plaque frontale quelque peu vers le haut 4 et basculer le bas de la plaque vers l'avant 5.

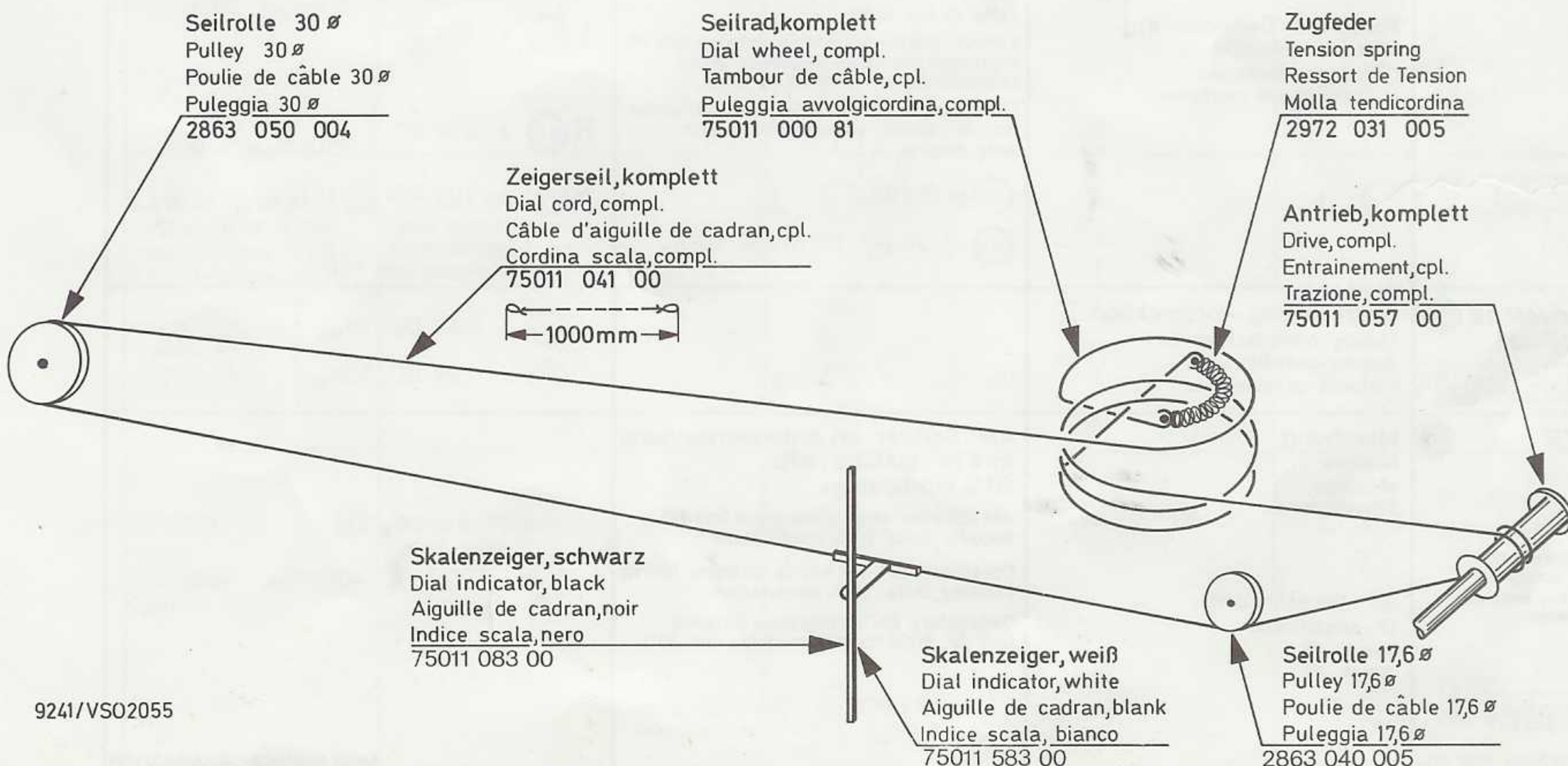
Istruzioni di smontaggio:

Per levare la carenatura superiore e inferiore, svitare le viti 1 su ambo i lati.

Per smontare il frontale, vengono levate le tre viti 2 e le manopole 3. Spingere il frontale un pò verso l'alto 4 e dopo ribaltarlo verso il basso 5.

Seillaufschema

Pulley Diagram
Schéma du câble
Percorso cordina scala



Diagnosesystem für die meßtechnische Ermittlung defekter Funktionseinheiten.
Meßmittel: Oszillograf 10 MHz, AC-DC-Eingang, Tastkopf 10:1.

Troubleshooting system for detecting faults in functional units.
 Test equipment: 10 MHz oscilloscope, AC-DC-input, 10:1 probe.
 Méthode de diagnostic pour la localisation de sous-ensembles défectueux ainsi la mesure.
 Appareils nécessaires: Oszillographe 10 MHz, entrée continu et alternatif, sonde desure 10:1.
 Sistema di diagnosi per individuare unità difettose con misurazioni.
 Strumento: oscilloscopio 10 MHz, ingresso AC DC, sonda 10:1.

Änderungen vorbehalten!
 Subject to modification without notice!
 Modifications réservées!
 Con riserva di modifiche!
 7140/VSO 2278/05 09 78

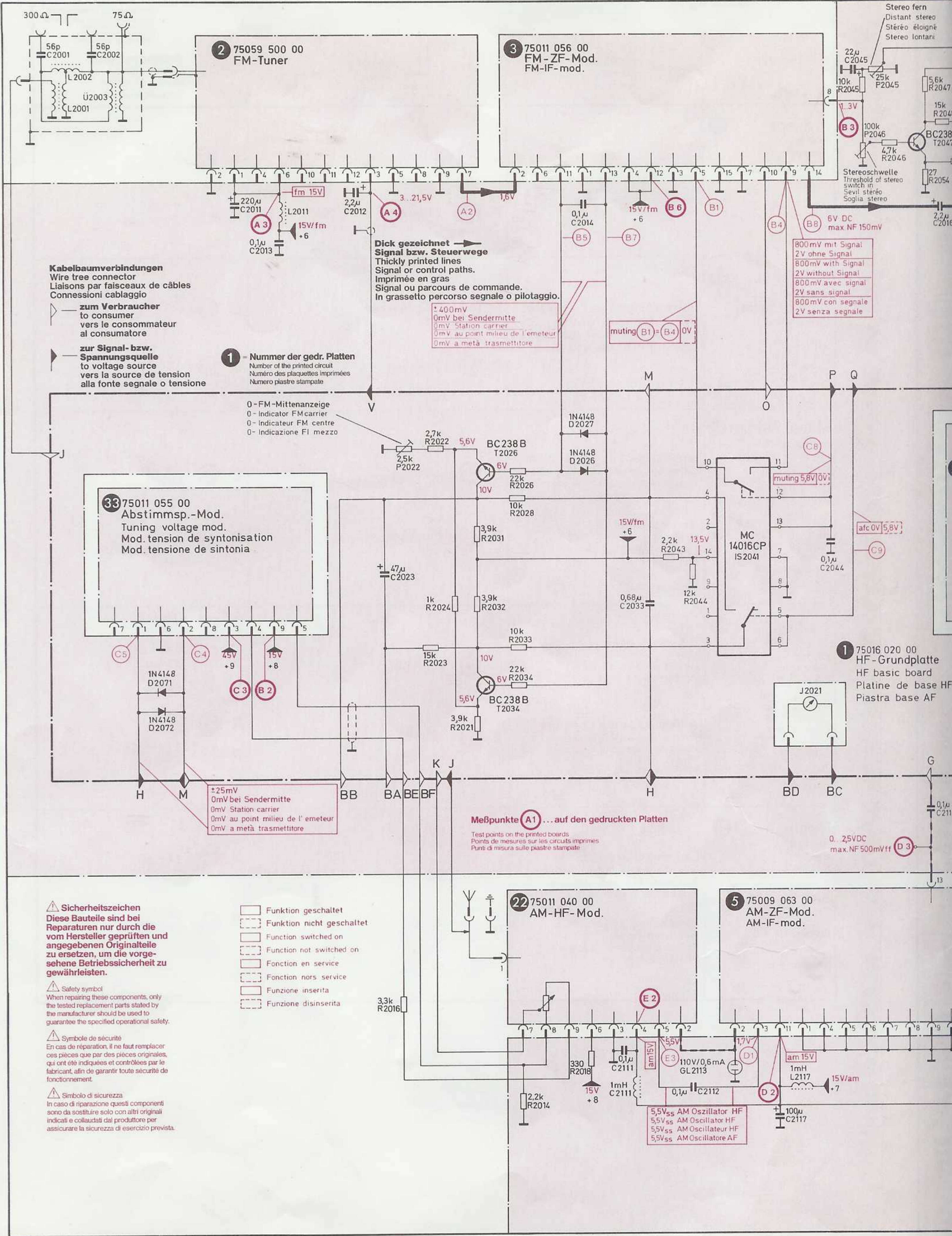
Baugruppe Unit Sous ensemble Unità modulare	Funktion Function Fonction Funzione	Eingangssignal Input signal Signal d'entrée Segnale d'ingresso	Ausgangssignal Output signal Signal de sortie Segnale d'uscita
Netzteil 15 Power supply Alimentation secteur Alimentatore rete	Gleichrichtung Rectification Redressement Raddrizzazione Stabilisierung Stabilisation Stabilisation Stabilizzazione		L7 = -42V K3 = 42V K5 = -42V K7 = 42V L6 = -8,2V K4 = 12V F1 = 15V F2 = 45V F3 = AM 15V F4 = FM 15V H5 = 12V H6 = 44V
Abstimmsp. 33 Tuning voltage Tension de synton. Tensione de sintonia B2 = 15V C3 = 45V	Stabilisierung Stabilisation Stabilisation Stabilizzazione Nachstimmung Post tuning Correction d'accord Correzione sintonia	C9 = afc 5,8V C4 } ±25 mV 0V bei Sendermitte 0V Station carrier C5 } 0V au point milieu de l'émetteur 0V a metà trasmettitore	A4 = Abstimmspannung 3... 21,5V DC Tuning voltage 3... 21,5V DC Tension de syntonisation 3... 21,5V DC Tensione de sintonia 3... 21,5V DC
FM-Tuner 2 FM-Tuner Tuner-FM Tuner-FM C6 = fm 7,5V A3 = 15V	HF-Verstärkung HF-amplification Ampli - HF Ampli - AF Mischung Mixture Mélange Miscelazione	A4 = Abstimmspannung 3... 21,5V Tuning voltage 3... 21,5V Tension de syntonisation 3... 21,5V Tensione de sintonia 3... 21,5V	A2 = FM 10,7 MHz 1,6V DC
FM-ZF 3 FM-IF FI-FM FI-FM B6 = fm 15V	ZF-Verstärkung IF-amplification Ampli - FI Ampli - FI Demodulation Demodulation Démodulation Demodulazione Still-Steuerung Mute control Silencieux Pilotaggio sordina	Stereo-Coder an Antenneneingang 1mV HF, 40kHz Hub und Pilot, 1kHz rechts. Stereo-Coder at antenna input 1mV HF, 40kHz deviation and pilot frequency, 1kHz to the right. Codeur-stéréo sur entrée antenne 1mV HF, excursion 40kHz en fréquence piloté modulée par 1kHz, canal de droite. Codificatore stereo all'ingresso antenna 1mV AF, 40kHz vobulazione e pilot 1kHz destra. C8 = muting 5,8V B1 = B4	B3 = 4V DC B4 = 900 mV B8 = 6V DC 150mVeff MPX-Signal MPX segnale B5 } ±400 mV DC B7 } 0V bei Sendermitte 0V Station carrier 0V au point milieu de l'émetteur 0V a metà trasmettitore
Stereo-Decoder 4 Stereo-decoder Décodeur-stéréo Decoder stereo D5 = fm 15V D4 = 30V	Multiplex - Decodierung Multiplex decoding Décodage multiplex Decodificazione multiplex	Stereo-Coder an Antenneneingang 1mV HF, 40kHz Hub und Pilot, 1kHz rechts. Stereo-Coder at antenna input 1mV HF, 40kHz deviation and pilot frequency, 1kHz to the right. Codeur-stéréo sur entrée antenne 1mV HF, excursion 40kHz en fréquence piloté modulée par 1kHz, canal de droite. Codificatore stereo all'ingresso antenna 1mV AF, 40kHz vobulazione e pilot 1kHz destra. D8 = 15V DC D7 = 3V DC 150mVeff MPX	D6 = 12V L E4 = 4,5V DC } 10 mVeff 1kHz L G7 = 10V DC } R E6 = 4,5V DC } 750mVeff 1kHz R G6 = 10V DC }
AM-HF/AM-HF 22 HF-AM/AF-AM E2 am15V C7 am7,5V	Abstimmung - Vorselektion Tuning - preselection Accord - présélection Sintonia - preselezione		E1 = 0,4V DC ; 4V _{SS} } vom Oszillator Oscillator E3 = 0V DC ; 5,5V _{SS} } Oscillateur Oscillatore
AM-ZF 5 AM-IF FI-AM FI-AM Betriebsspannung: Operating voltage: Tension d'alimentation: Tensione lavoro: D2 = am15V	Mischung Mixture Mélange Miscelazione ZF-Verstärkung IF-amplification Ampli - FI Ampli - FI	AM-Sender an Antenneneingang 1mV HF, 800kHz, 1kHz 30% Modulation. AM-Station at antenna input 1mV HF 800kHz, 1kHz 30% modulation. Emetteur-AM sur entrée antenne 1mV HF, 800kHz, 1kHz 30% Modulation. Generatore AM all'ingresso antenna 1mV AF, 800kHz, 1kHz modulazione 30%. D1 = 1,7V DC HF vom Oszillator 5,5V _{SS} Oscillator/Oscillateur Oscillatore	D3 = 2,0V DC 400mVeff 1kHz

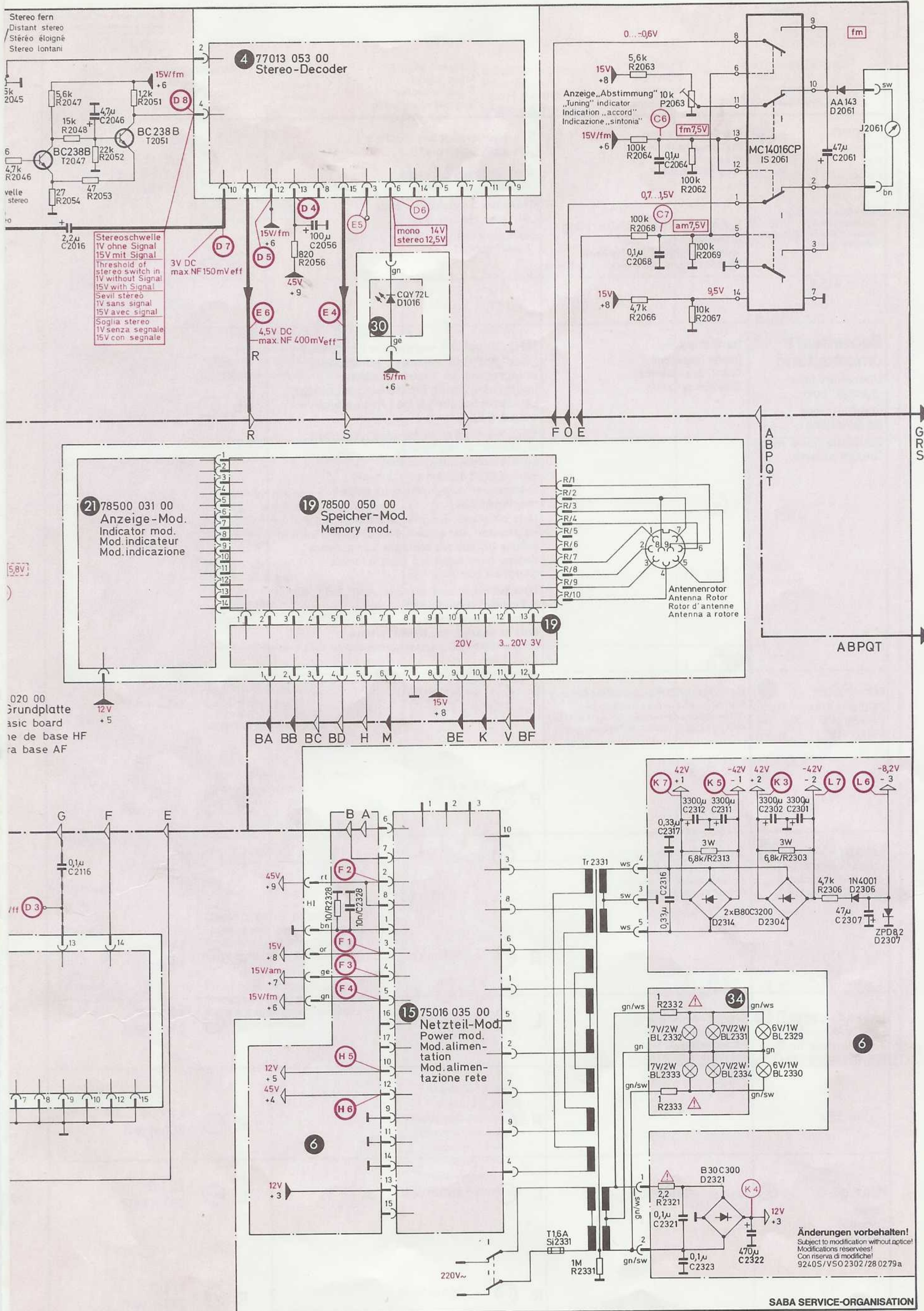
Baugruppe Unit Sous ensemble Unità modulare	Funktion Function Fonction Funzione	Eingangssignal Input signal Signal d'entrée Segnale d'ingresso	Ausgangssignal Output signal Signal de sortie Segnale d'uscita
Phono ⑦ Phono PU Fono Betriebsspannung: Operating voltage: Tension d'alimentation: Tensione lavoro: (G8) = 31,5V	Vorverstärkung Pre-amplification Préamplification Preamplificazione Schneidkennlinienentzerrung All adjustments „linear“ Tous les réglages sur „linéaire“ Equalizzazione della curva di incisione	Sinusgenerator an Buchse „Phono“ Stift 3 und 5 Sinus generator on socket „Phono“ at pin 3 and 5 Générateur sinusoïdal sur prise „PU“ sur contact 3 sur 5 Generatore sinusoidale alla boccola „Fono“ contatto 3 e 5 100 Hz 10mVeff 1 kHz 10mVeff 10 kHz 10mVeff	L (H9) 100 Hz 4,1Veff 1 kHz 900mVeff 10 kHz 190mVeff R (F8) 100 Hz 4,1Veff 1 kHz 900mVeff 10 kHz 190mVeff
Betriebsart-umschaltung Operation type change over Commutateur de fonctions Commutazione modo funzionamento	Bereichswahl Range selection Choix des gammes Selezione banda	1kHz, 500mVeff wahlweise an Buchse „Aux“, „BdI“, „BdII“, „Monitor“ Stift 3 und 5, entsprechende Taste drücken, Lautstärke 20, alle Einstellungen „Linear“, Lautsprecherausgänge L/R Lastwiderstand 4 Ω 1kHz, 500 mVeff at socket „Aux“, „BdI“, „BdII“, or „Monitor“ at pin 3 and 5, push corresponding button, volume 20, all adjustments „Linear“, Loudspeaker output left/right ballast resistance 4 Ω 1kHz, 500mVeff sur prise „Aux“, „BdI“, „BdII“, ou „Monitor“ sur contact 3 sur 5, touche corresp. volume 20, tous les réglages sur „Lineaire“, sorties haut par leurs gauche/droite chargées par 4 Ω 1kHz, 500mVeff alla boccola „Aux“, „BdI“, „Bd“, o „Monitor“ contatto 3 e 5, tasto corrispondente, tutte le regolazioni „Linear“, uscite altoparlante S/D resistenza di carico 4 Ω	L (J7) = 10V DC 500mVeff 1kHz R (H8) = 10V DC 500mVeff 1kHz
NF-Filter ⑨ Audio-Filter Filtres-BF Filtro-BF (H7) = 20V	Rumpel- und Rauschabsenkung Rumble - and noise reduction Atténuation du rumble et du souffle Attenuazione rombo e fruscio	L (J7) = 500 mVeff R (H8) = 500 mVeff	L (J5) = 11V DC 500mVeff R (K2) = 11V DC 500mVeff
Linear-Verst.I ⑪ Linear-Amplifier I Amplificateur lin. I Amplificatore lin. I (J2) = 37V	Signal-Anhebung Level accentuation Accentuation du signal Accentuazione segnale	L (J5) = 500mVeff R (K2) = 500mVeff	L (K1) = 0V DC 1Veff R (J3) = 0V DC 1Veff
Linear-Verst.II ⑪ Linear-Amplifier II Amplificateur lin. II Amplificatore lin. II (L2) = 33V	Signal-Anhebung Level accentuation Accentuation du signal Accentuazione segnale	L (L3) = 70 mVeff R (L4) = 70 mVeff	L (L1) = 1,2VDC 250mVeff R (L5) = 1,2VDC 250mVeff
Klang ⑫ Tone Tonalité Suono (J1) = 23V	Aktives Filter Active filter Filtre actif Filtro attivo	L (L1) = 250mVeff R (L5) = 250mVeff	L (H4) = 7V DC 250mVeff R (H3) = 7V DC 250mVeff

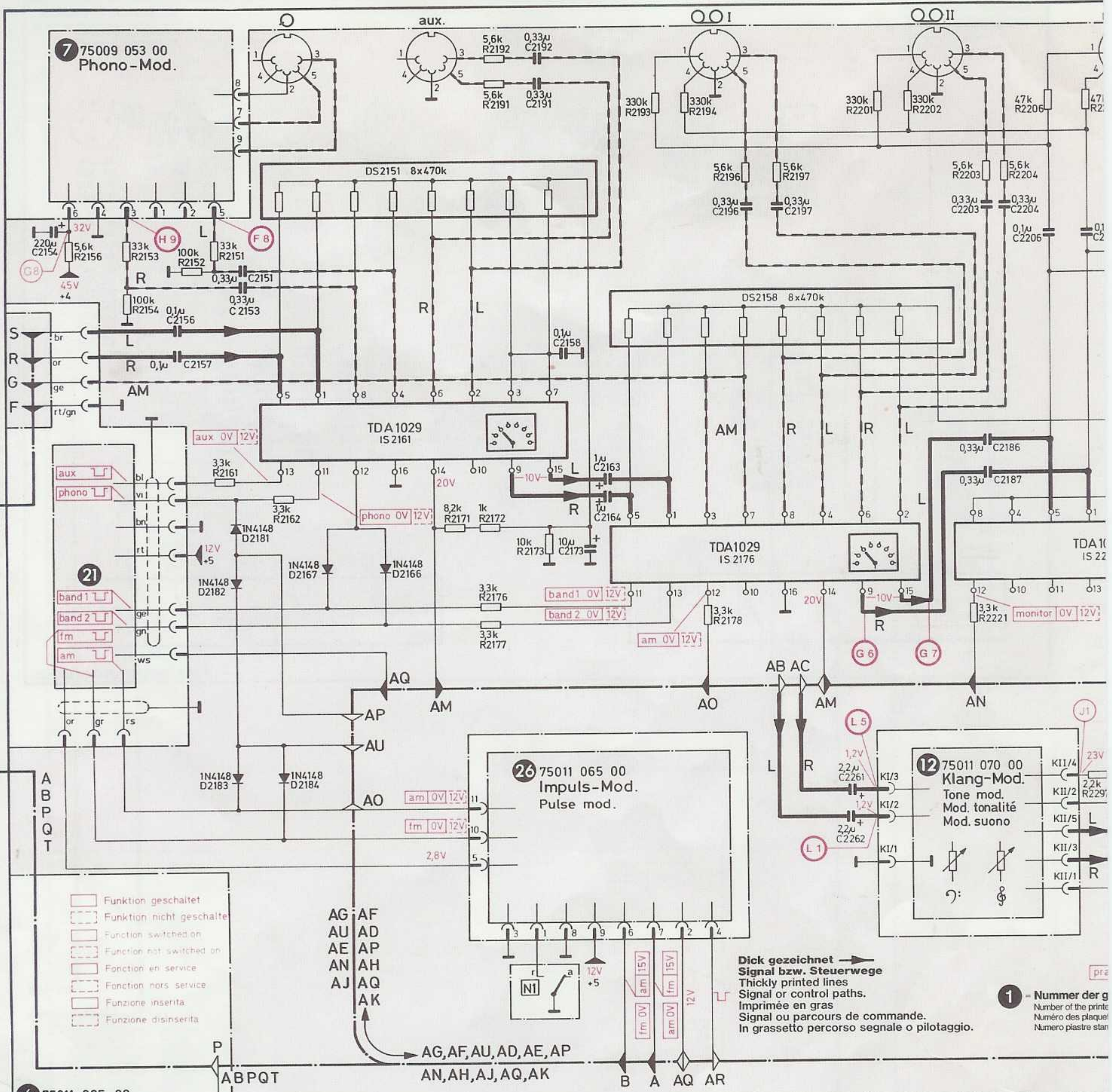
Baugruppe Unit Sous ensemble Unità modulare	Funktion Function Fonction Funzione	Eingangssignal Input signal Signal d'entrée Segnale d'ingresso	Ausgangssignal Output signal Signal de sortie Segnale d'uscita
Präsenz 23 Presence Présence Presenza (J4) = 23V	Präsenz-Anhebung Presence accentuation Accentuation présence Accentuazione presenza	L (H4) = 250mVeff R (H3) = 250mVeff	L (G2) = 7V DC 250mVeff R (G1) = 7V DC 250mVeff
Bandpass 24 Bandpass Filtre de bande Passabanda Stift 1 12V Pin 1 12V Contact 1 12V Contatto 1 12V	Übertragungsbereich-Begrenz. Transmission range limiting Limitation de la bande passante Limitazione risposta di frequenza	L (G2) = 250mVeff R (G1) = 250mVeff	L (G4) = 6,5V DC 250mVeff R (G3) = 6,5V DC 250mVeff
Mono Stumm 25 Mono mute Mono silencieux Mono muto Stift 10 12V Pin 10 12V Contact 10 12V Contatto 10 12V	Umschaltgeräusch-Unterdrückung Switching interference suppression Suppression des bruits de commutation Soppressione disturbi di commutazione Monofunktion Mono function Fonction mono Funzione mono	L (G4) = 250mVeff R (G3) = 250mVeff	L (J6) = 0V DC 150mVeff R (G5) = 0V DC 150mVeff
Treiber 13 Driver Driver Pilotaggio Stift 4 -42V Pin 4 -42V Contact 4 -42V Contatto 4 -42V Stift 7 +42V Pin 7 +42V Contact 7 +42V Contatto 7 +42V	Signal-Anhebung Level accentuation Accentuation du signal Accentuazione segnale Arbeitspunkt für Endstufe Final stage working point Point de fonctionnement pour les étages finals Punto lavoro stadio finale	L (J6) = 150mVeff R (G5) = 150mVeff	L (K6) = -0,63V DC 2,6Veff L (L9) = 0,7V DC 2,6Veff L (L8) = 1,3V DC 2,6Veff R (F7) = -0,63V DC 2,6Veff R (F5) = 0,7V DC 2,6Veff R (F6) = 1,3V DC 2,6Veff
Relais 31 Relays Relais Relais Stift 10 12V Pin 10 12V Contact 10 12V Contatto 10 12V	Lautsprecherschutz Loudspeaker protection circuit Protection des haut-parleurs Protezione altoparlanti Einschaltverzögerung Switch-on delay Retard à la mise en service Ritardo accensione	L (M3) = 0V DC 2,4V NF (M2) = 0V DC R (M5) = 0V DC 2,4V NF (M1) = 0V DC	L (M4) = 0V 2,4V NF R (M6) = 0V 2,4V NF

SABA SERVICE-ORGANISATION

- Funktion geschaltet
- Funktion nicht geschaltet
- Function switched on
- Function not switched on
- Fonction en service
- Fonction hors service
- Funzione inserita
- Funzione disinserita







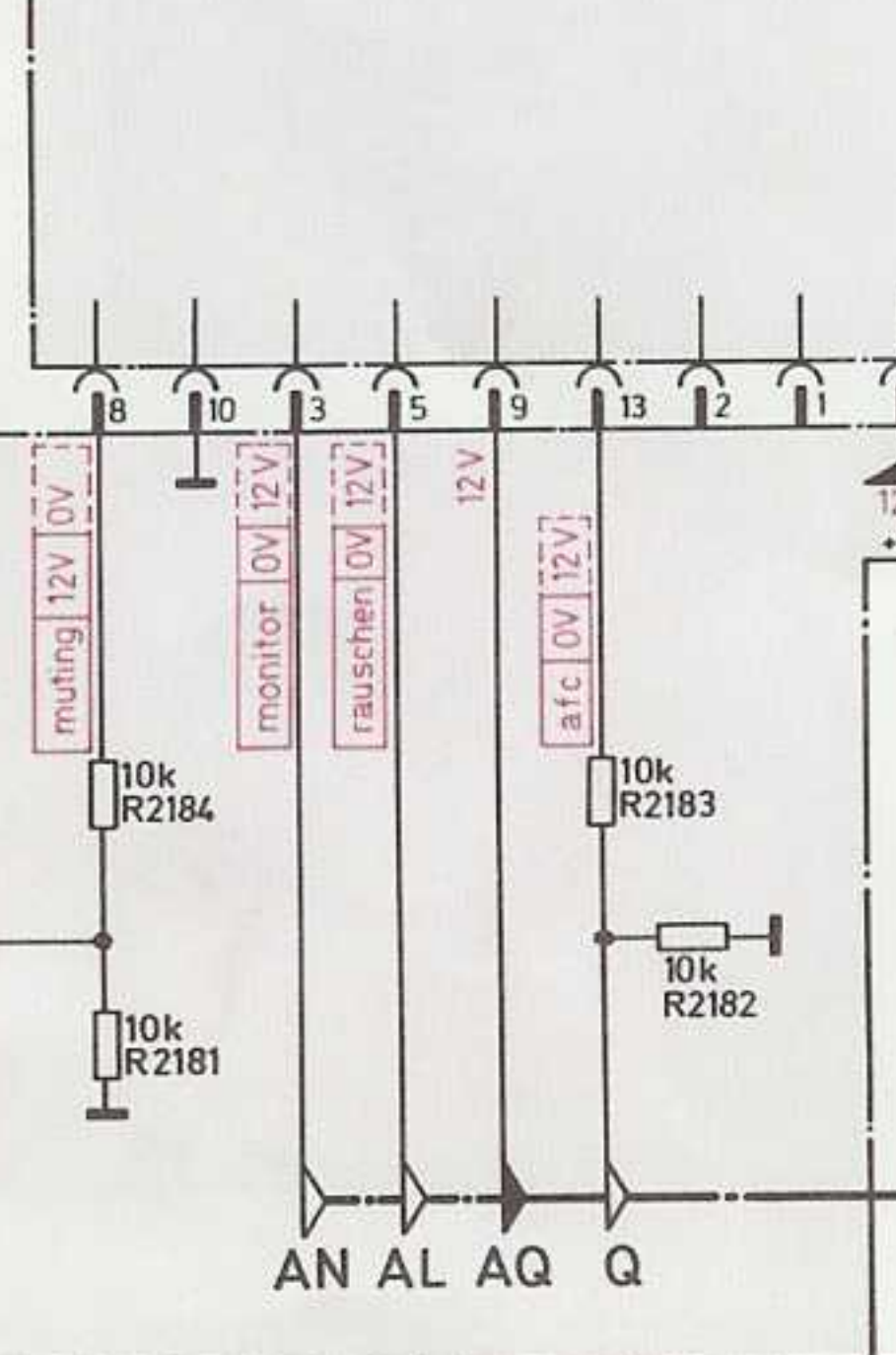
6 75011 025 00 NF-Grundplatte
Audio basic board
Platine de base BF
Piastra base BF

- | | | | |
|--------------|------------|----------|-----------|
| sw = schwarz | black | noir | nero |
| bn = braun | brown | marron | marrone |
| ge = gelb | yellow | jaune | giallo |
| or = orange | orange | orange | arancione |
| rs = rosa | pink | rose | rosa |
| gr = grau | grey | gris | grigio |
| vi = violett | violet | violet | violeta |
| bl = blau | blue | bleu | blu |
| fs = farblos | colourless | incoloro | incoloro |
| we = weiß | white | blanc | bianco |
| rt = rot | red | rouge | rosso |
| gn = grün | green | vert | verde |

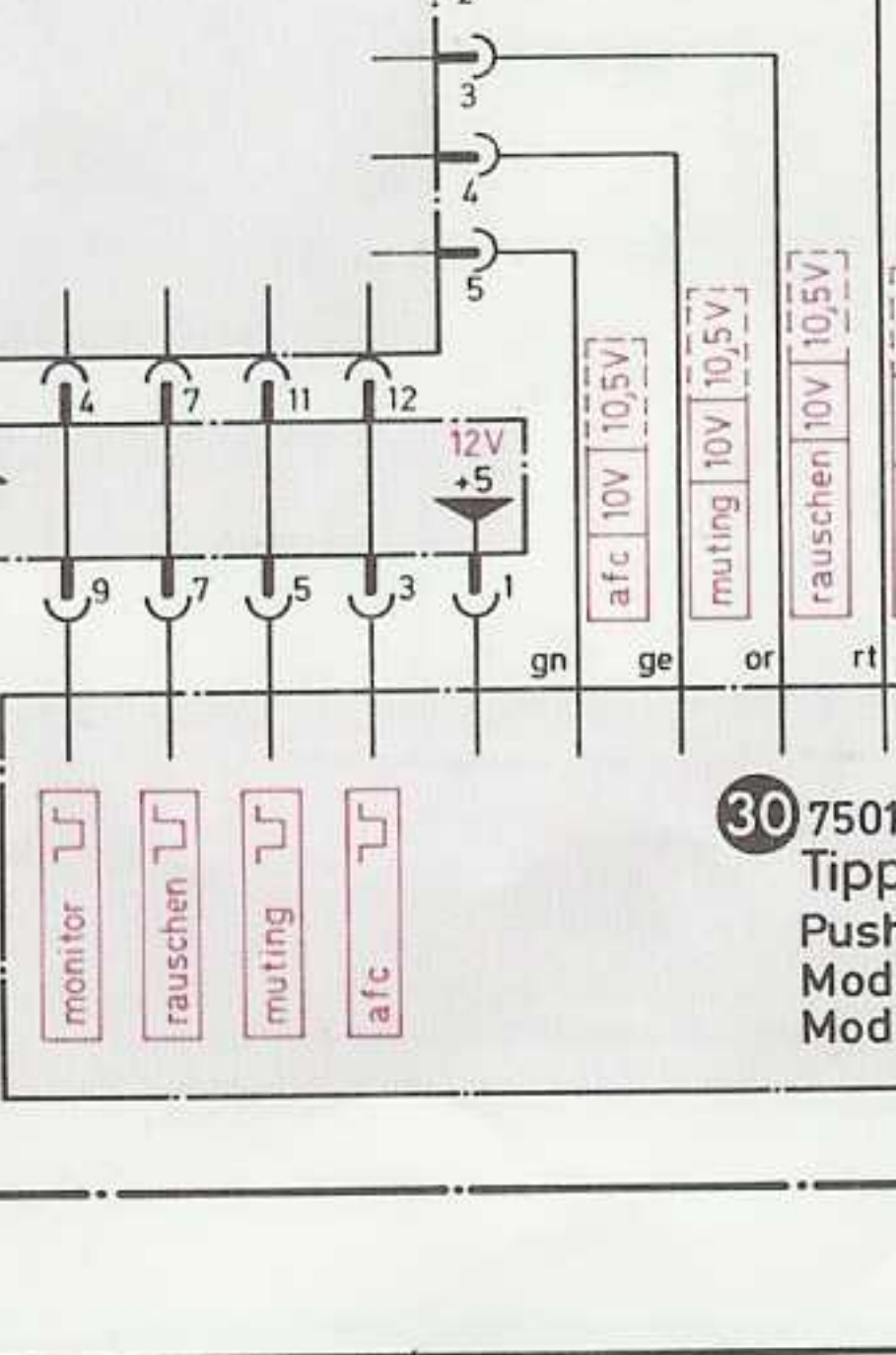
- = Plattenspieler / Record player / Phono / Giradischi
- = Tonband / Tape recorder / Magnetophone / Registratore
- = Bass / Graves / Basso
- = Lautstärke / Volume
- = Balance / Balans
- = Höhen / Treble / Altes / Altezza

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Modifications réservées!
Con riserva di modifiche!
92405/VS02303/21 02 79 b

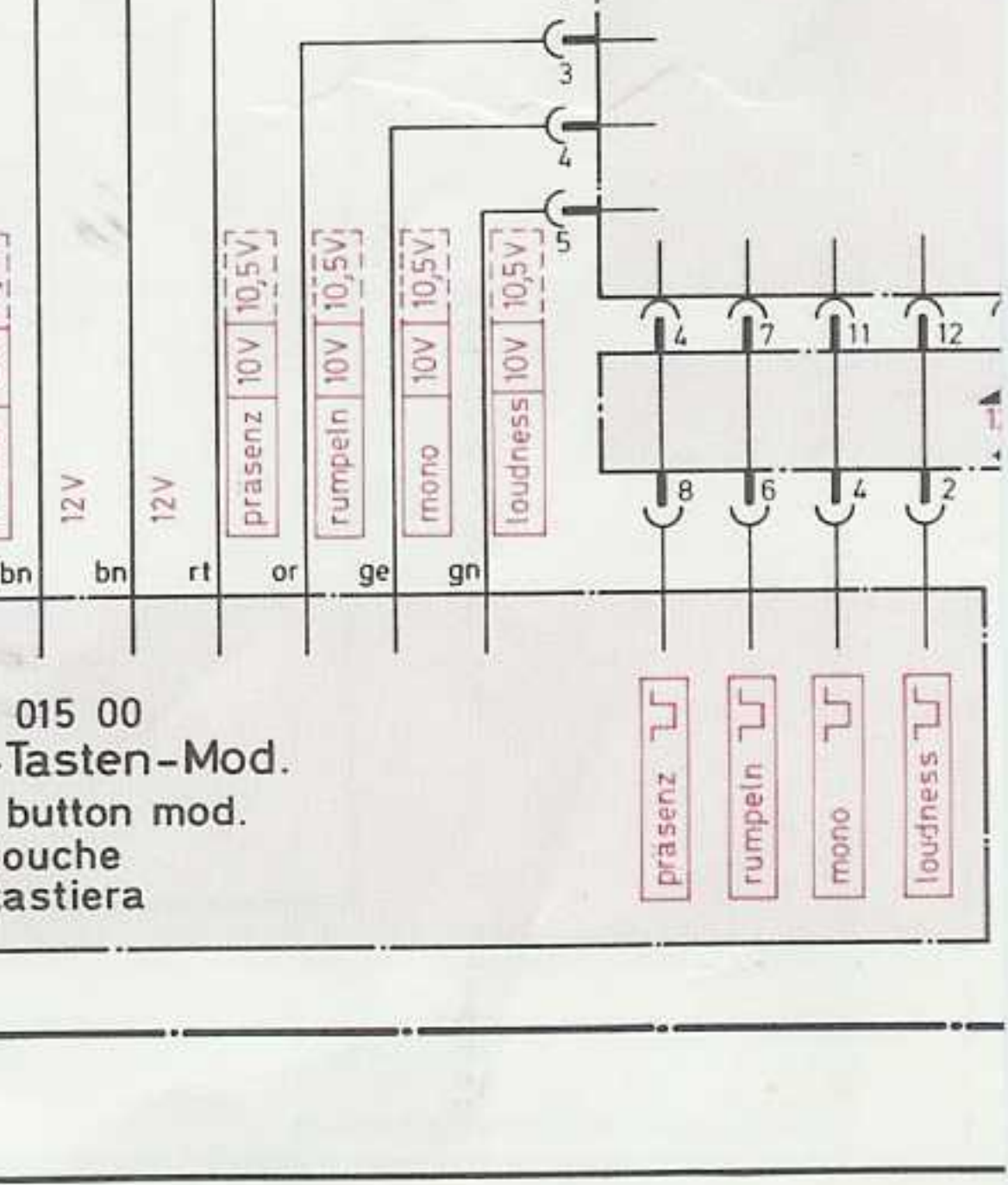
27 75011 045 00 Flip-Flop-Mod. II
Flip Flop mod. II

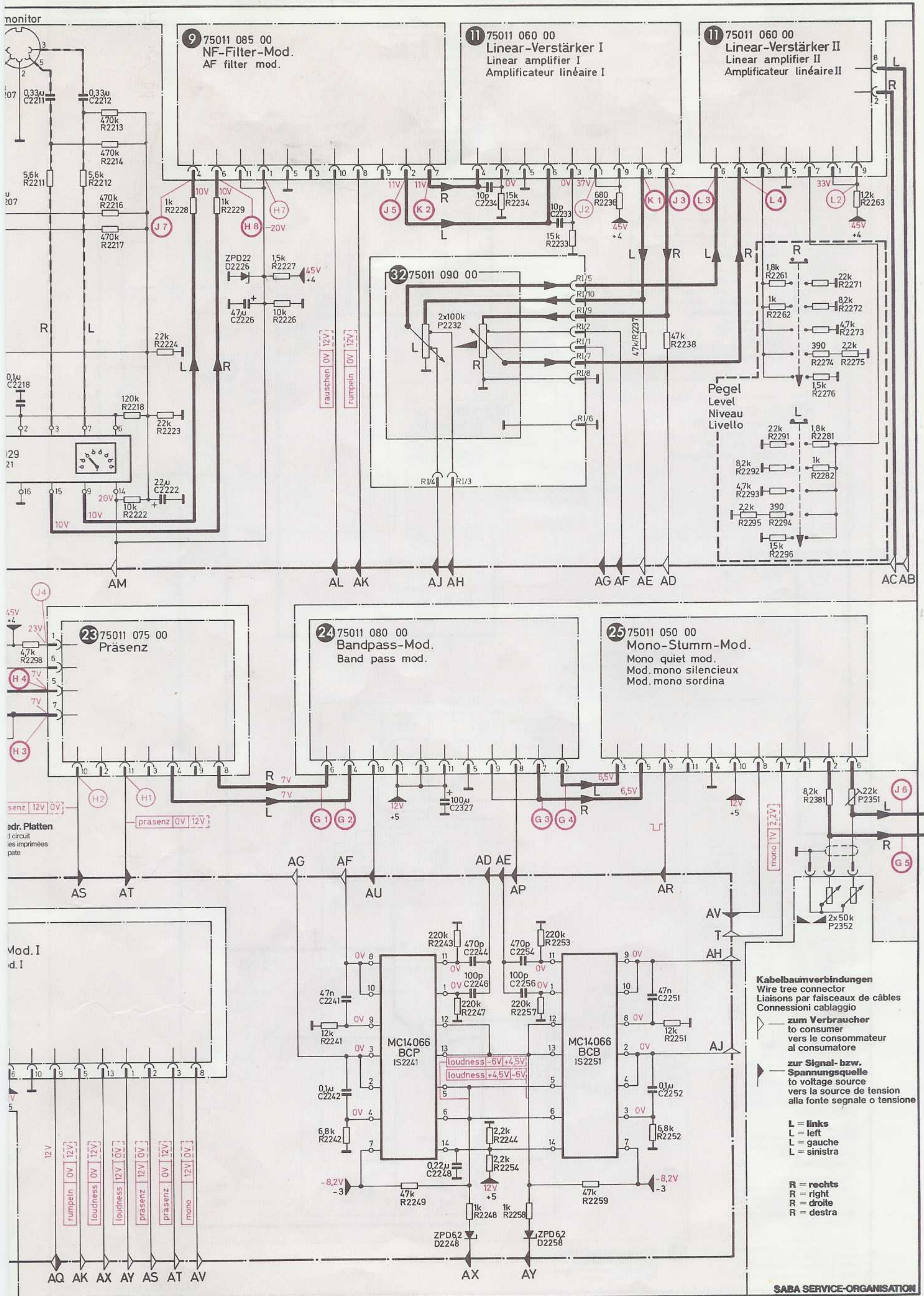


30 75016 015 00 Tipp-Tasten-Mod.
Push button mod.
Mod. touche
Mod. tastiera



27 75011 045 00 Flip-Flop-Mod. II
Flip Flop mod. II



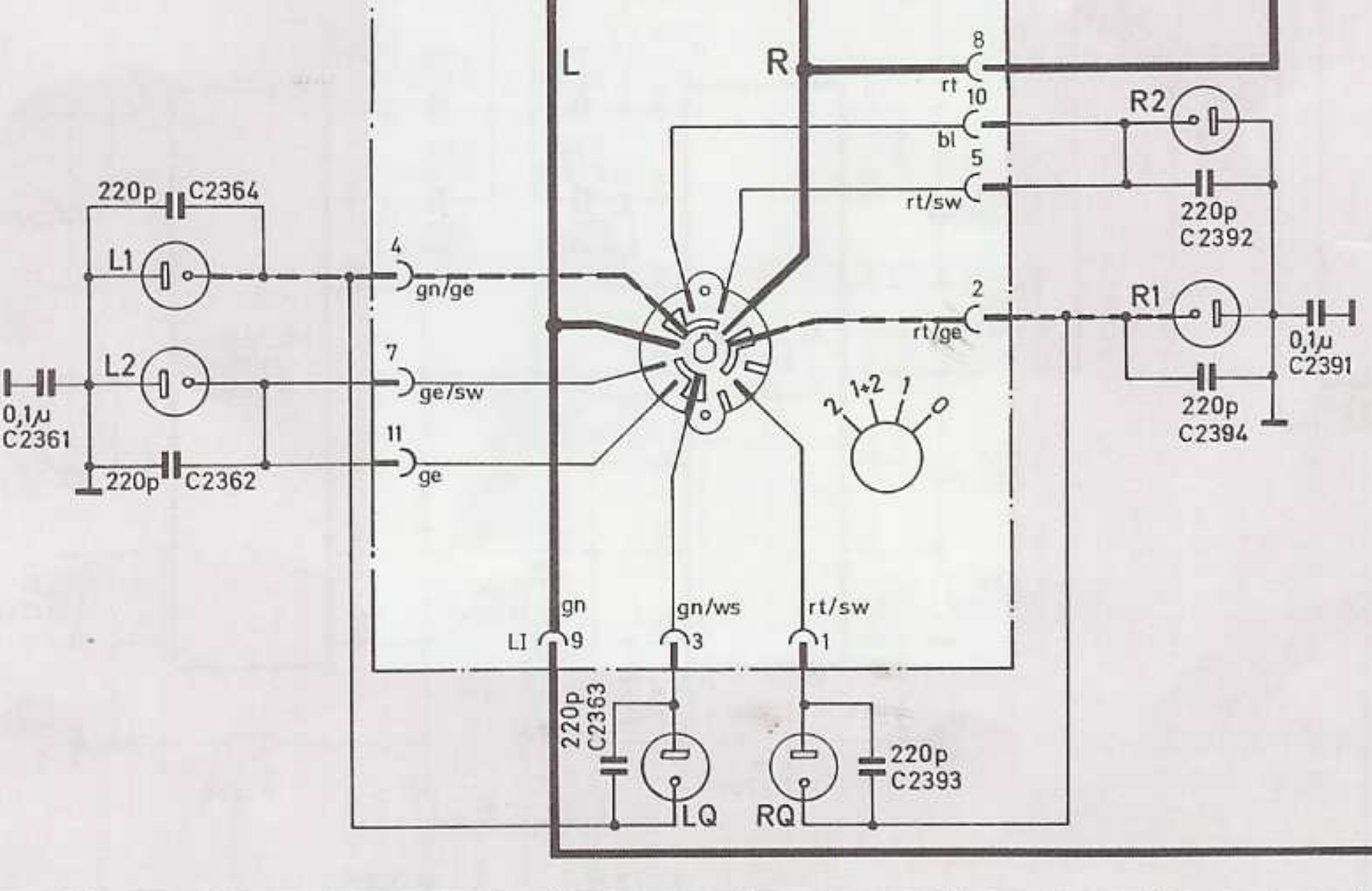
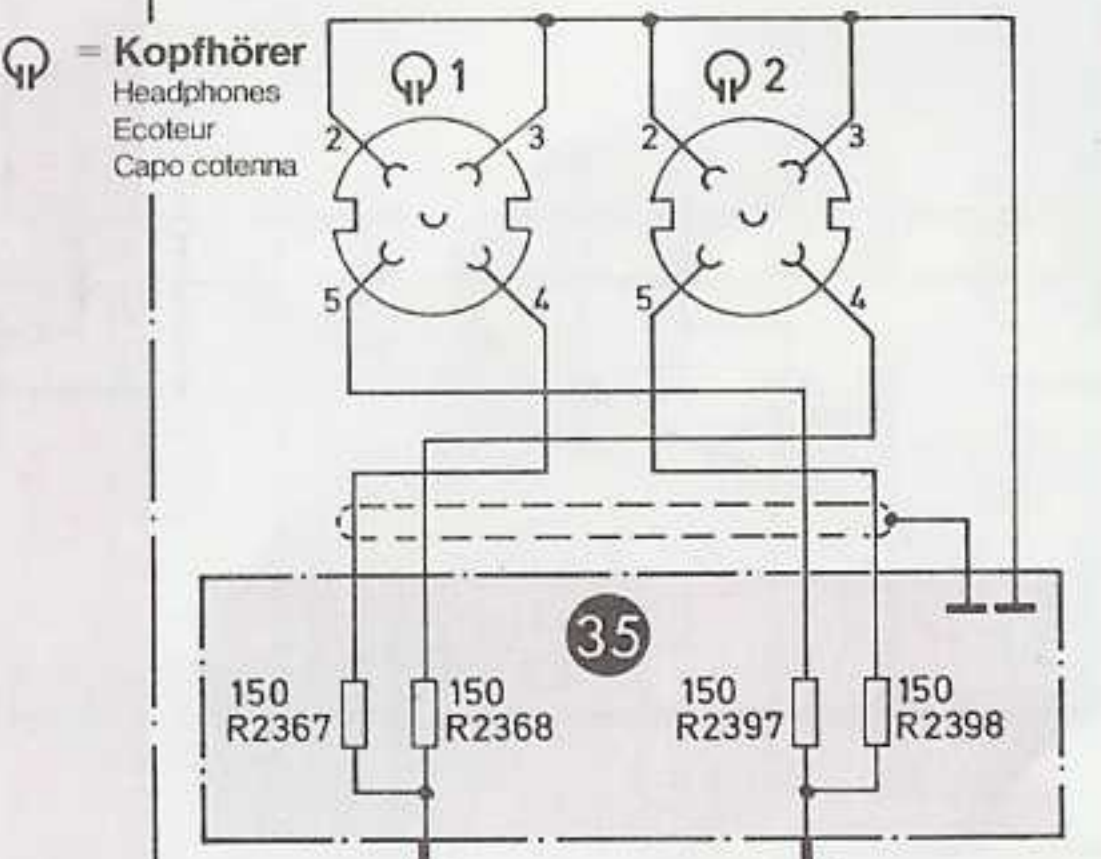
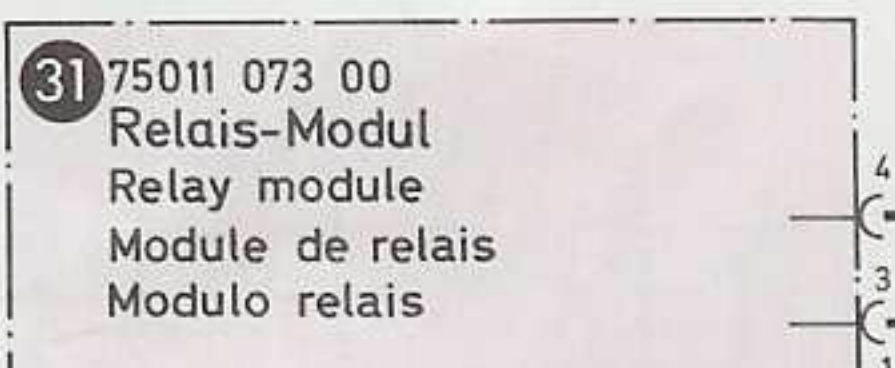
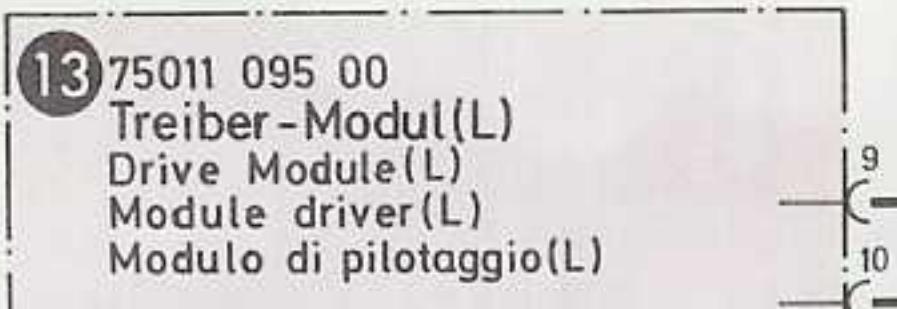


Meßpunkte (A1) ... auf den gedruckten Platten

Test points on the printed boards
 Points de mesures sur les circuits imprimés
 Punti di misura sulle piastre stampate

L = links
 L = left
 L = gauche
 L = sinistra

R = rechts
 R = right
 R = droite
 R = destra



dgn	= dunkelgrün	darkgreen	vert foncé
wrt	= weinrot	wine red	bordeaux
we/sw	= weiß/schwarz	white/black	blanc/noir
we/ge	= weiß/gelb	white/yellow	blanc/jaune
we/bl	= weiß/blau	white/blue	blanc/bleu
we/bn	= weiß/braun	white/brown	blanc/marron
we/rt	= weiß/rot	white/red	blanc/rouge
we/gn	= weiß/grün	white/green	blanc/vert
ge/sw	= gelb/schwarz	yellow/black	jaune/noir
ge/bl	= gelb/blau	yellow/blue	jaune/bleu
ge/bn	= gelb/braun	yellow/brown	jaune/marron
ge/rt	= gelb/rot	yellow/red	jaune/rouge

sw	= schwarz	black	noir	nero
bn	= braun	brown	marron	marrone
ge	= gelb	yellow	jaune	giallo
or	= orange	orange	orange	arancione
rs	= rosa	pink	rosé	rosa
gr	= grau	grey	gris	grigio
vi	= violett	violet	violet	viola
bl	= blau	blue	bleu	blu
fs	= farblos	colourless	incoloré	incoloro
we	= weiß	white	blanc	bianco
rt	= rot	red	rouge	rosso
gn	= grün	green	vert	verde

⚠ Sicherheitszeichen
 Diese Bauteile sind bei Reparaturen nur durch die vom Hersteller geprüften und angegebenen Originalteile zu ersetzen, um die vorge-sehene Betriebssicherheit zu gewährleisten.

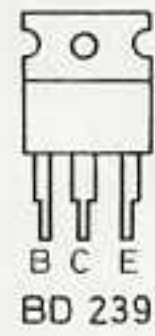
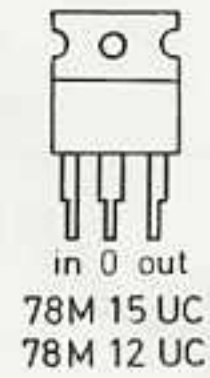
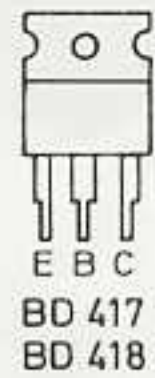
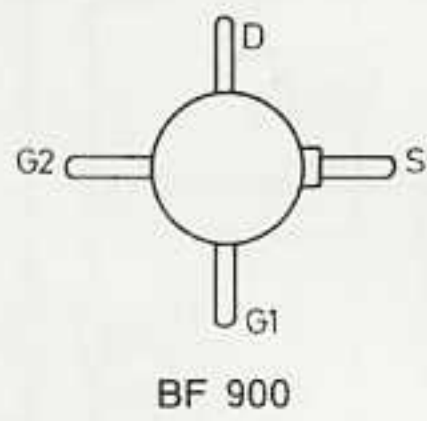
⚠ Safety symbol
 When repairing these components, only the tested replacement parts stated by the manufacturer should be used to guarantee the specified operational safety.

⚠ Symbole de sécurité
 En cas de réparation, il ne faut remplacer ces pièces que par des pièces originales, qui ont été indiquées et contrôlées par le fabricant, afin de garantir toute sécurité de fonctionnement.

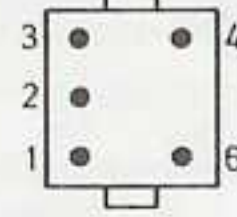
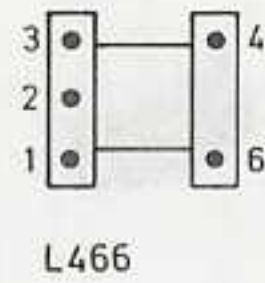
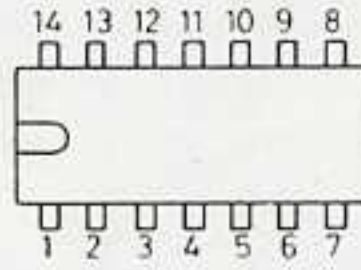
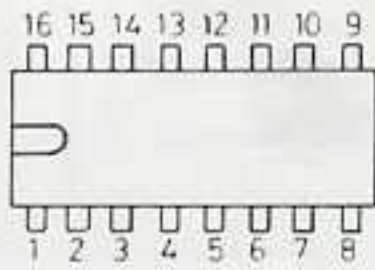
⚠ Simbolo di sicurezza
 In caso di riparazione questi componenti sono da sostituire solo con altri originali indicati e collaudati dal produttore per assicurare la sicurezza di esercizio prevista.

1 - Nummer der gedr. Platten
 Number of the printed circuit
 Numéro des plaquettes imprimées
 Numero piastre stampate

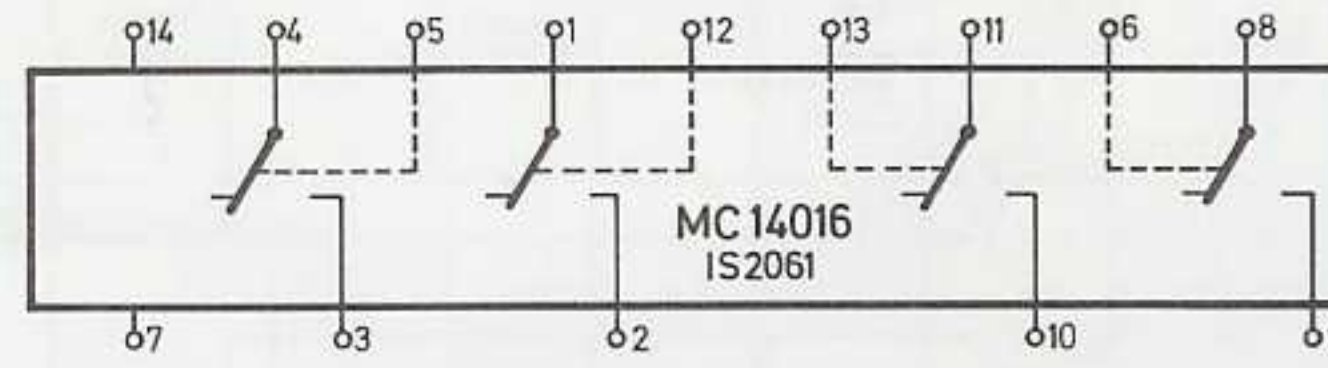
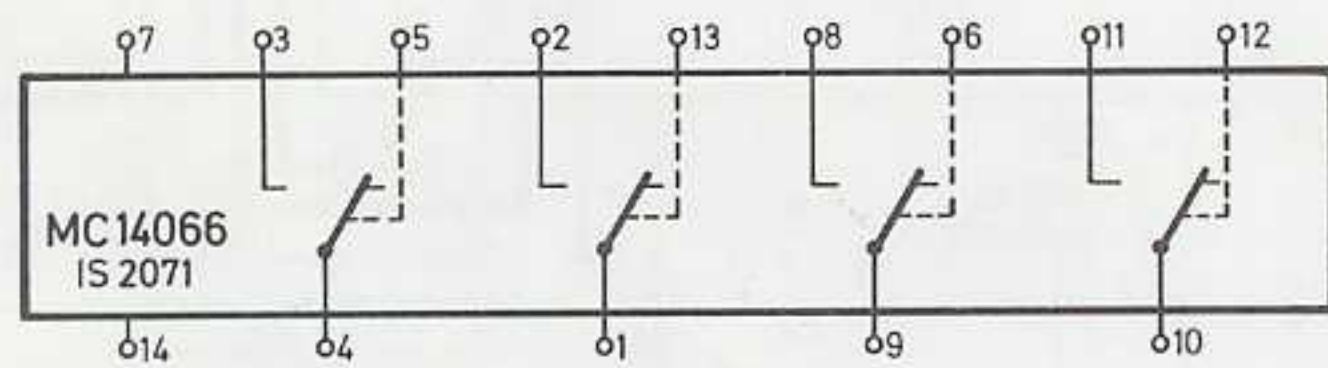
Transistoren von unten
 Transistors from below
 Transistor vue de dessous
 Transistor visti dal basso



IS von oben
 IC top view
 Circuit intégré vue de dessus
 Circuiti integrati visti dall'alto



sw = schwarz	black	noir	nero
bn = braun	brown	marron	marrone
ge = gelb	yellow	jaune	giallo
or = orange	orange	orange	arancione
rs = rosa	pink	rosé	rosa
gr = grau	grey	gris	grigio
vi = violett	violet	violet	viola
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fs = farblos	colourless	incoloro	incoloro
we = weiß	white	blanc	bianco
rt = rot	red	rouge	rosso
gn = grün	green	vert	verde



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