

ITT

IDEAL COLOR 3214

MODEL

SERVICE MANUAL

Let op! Bij herstelling onvoorwaardelijk de scheidingstransito gebruiken en de bestaande veiligheidsvoorschriften in acht nemen. De netzekering bevindt zich op de basisplaat (bedieningsdekkende).

Basisinstellingen en beeldgeometrie

- Volg-: AT te stemmen. Aftemperen. a. Bedrijfsspanning (schakel-)instellen. b. Hor. frequentie. c. Vert. frequentie. d. Beeldgeometrie (beeldbuis-aansluitplaat). e. Kleurencoder FHT-oscillator. f. FHT-val. g. PAL-Dematrix. h. Klokfilter.

Attention! Lors d'une réparation on doit employer un transformateur de séparation sur le circuit imprimé de base (unité de commande).

Réglages de base et géométrie de l'image

- Suite: Tension de ser- montage bloc d'alimentation. b. Courant-circuiter. c. Fréquences verticales. d. Géométrie image et focu- (image). e. Décodeur couli. f. Trappe FHT. g. Diamétrie PAL.

Attenzione! Per riparazione usare assolutamente il trasformatore separatore e fare attenzione alle varie prescrizioni di sicurezza. Il fusibile di rete si trova sulla piazzola fondamentale (Elem. comando). Regolemento regoli X: La potenza prevista dalla compagnia regol. da parte questo generi di apparecchio non massima deve comporre 25.5 kV max. La tensione massima si trova nei livelli consentiti se la tensione di esercizio della fase terminale orizzontale comporta a corrente minima catodica 115V, controllare, in caso di separazione tensione, e all'occorrenza, mettere a punto, a valore nominale, mediante R 726.

Regolazioni di base geometria dell'immagine del monoscopio

- Successi- Stadi di accordo. a. Voltaggio. b. Frequenza. c. Frequenza orizzontale. d. Geometria del quadro e messa a fuoco. e. Decodificazione del colore. f. FHT-trappola. g. Dematrix PAL.

Oscillograaf op TP800, twee lijnen over elkaar schrijven, met de regelbaar voor kleurverzaging amplitude schryven. L830 in de beide over elkaar geschreven lijnen op gelijk grote draaggolfrest (zwarte en witte balken) instellen. R 830 op minimum draaggolfrest instellen. Het SECAM-beeld dat geen jalozeen vertoont, controleren en eventueel met R 853 corrigeren.

Bij het wissen van de SECAM-aanwijzing PAL-Dematrix controleren k. Alle zwartreusregelaars, op min. zwartniveau (aanslag gaarde) instellen. Alle witcompensatie-regelaars op max. versteking instellen. TP910 met TP914 instellen. Oscillograaf op TP911 met R 903 DC-niveau op +3V instellen. TP401/402 kletscherm met R 806 op +3V instellen. TP401/402 kletscherm met R 806 op +3V instellen. TP401/402 kletscherm met R 806 op +3V instellen. TP401/402 kletscherm met R 806 op +3V instellen.

Générateur de barres de couleur SECAM, commut. d'identification sur l'identification vert, oscillographe de couleur sur L810 sur courbe enveloppe la plus plane possible. Oscillographe sur TP 800, former deux lignes l'une au-dessus de l'autre, avec réglage d'intensité de couleur amplitude 0,5V sur réglage de couleur. Résidu de porteur de la même grandeur (barres noires et barres blanches). Réglez R 830 sur résidu de porteur min. Répéter alignement si nécessaire d'identification hor. Contr. image SECAM dépourvue de barres et, le cas échéant, corriger avec R 853.

Dans le cas d'un remplacement du dispositif SECAM, contr. dématrice PAL et, le cas échéant, régler cour. 3 point. g. Courant-circuiter. h. Fréquences verticales. i. Géométrie image et focu- (image). j. Décodeur couli. k. Trappe FHT. l. Diamétrie PAL.

Regolare il generatore del colore a regolare sull'indicatore V, l'oscillografo su TP 810. Regolare esattamente l'ampiezza dell'involucro nella maniera più esatta possibile. Oscillatore su TP 800 scrivere due righe una sopra l'altra, con la regolazione della intensità del colore. Regolare l'ampiezza della portata di 0.5V - 1V sulla curva di riferimento. Ripetere l'operazione con entrambi i righi sullo stesso residuo della portante (trave bianco e nero). Regolare R 830 su residuo minimo della portante. Ripetere l'operazione fino a quando il residuo della portante è minimo. Controllare il generatore di colore con R 853, se necessario, l'immagine SECAM senza disturbi di righe orizzontali.

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In caso di cambio del Dematrix PAL, regolare secondo quanto detto al punto a.

Tutti i regolatori del nero devono essere regolati sul valore nero minimo. Tutte le regolazioni di compensazione di bianco mettere a punto all'implicazione massima. Ripetere l'operazione con entrambi i righi sullo stesso residuo della portante (trave bianco e nero). Regolare R 830 su residuo minimo della portante. Ripetere l'operazione fino a quando il residuo della portante è minimo. Controllare il generatore di colore con R 853, se necessario, l'immagine SECAM senza disturbi di righe orizzontali.

Bei Reparatur, unbedingt Trenntrafo benutzen und gültige Sicherheitsvorschriften beachten. Die Netzlecherung (T 2,5 A) befindet sich auf dem Bedientablet.

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Röntgenverordnung festgelegte Ortsdosisleistung ist bei diesem Gerät durch die Bildröhrentype und die maximal zulässige Hochspannung gewährleistet. Die Hochspannung darf maximal 25,5 kV betragen. Die Hochspannung darf maximal 25,5 kV betragen. Die Hochspannung darf maximal 25,5 kV betragen. Die Hochspannung darf maximal 25,5 kV betragen. Die Hochspannung darf maximal 25,5 kV betragen.

Grundeinstellungen - Bildgeometrie - Decoder

Table with 4 columns: Reihenfolge, Abgleichvorgang, FHT-Oscillator, FHT-Falle, PAL-Dematrix, SECAM Zusatz: Glockenfilter, SECAM-Demodulator, Bei Einbau oder Austausch des SECAM-PAL-Dematrix kontr. und ggf. nach Punkt 3g einstellen.

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Always use an isolating transformer for repair works and adhere to existing safety regulations. The power supply fuse (2.5 A, slow) is located on the controls board.

The picture tube type and the maximum permissible high-voltage ensure that the X-ray intensity within the set remains below the permissible value. The high voltage must not exceed 25.5 kV. The high voltage must not exceed 25.5 kV. The high voltage must not exceed 25.5 kV. The high voltage must not exceed 25.5 kV. The high voltage must not exceed 25.5 kV.

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Basic adjustments, Picture geometry, Decoder

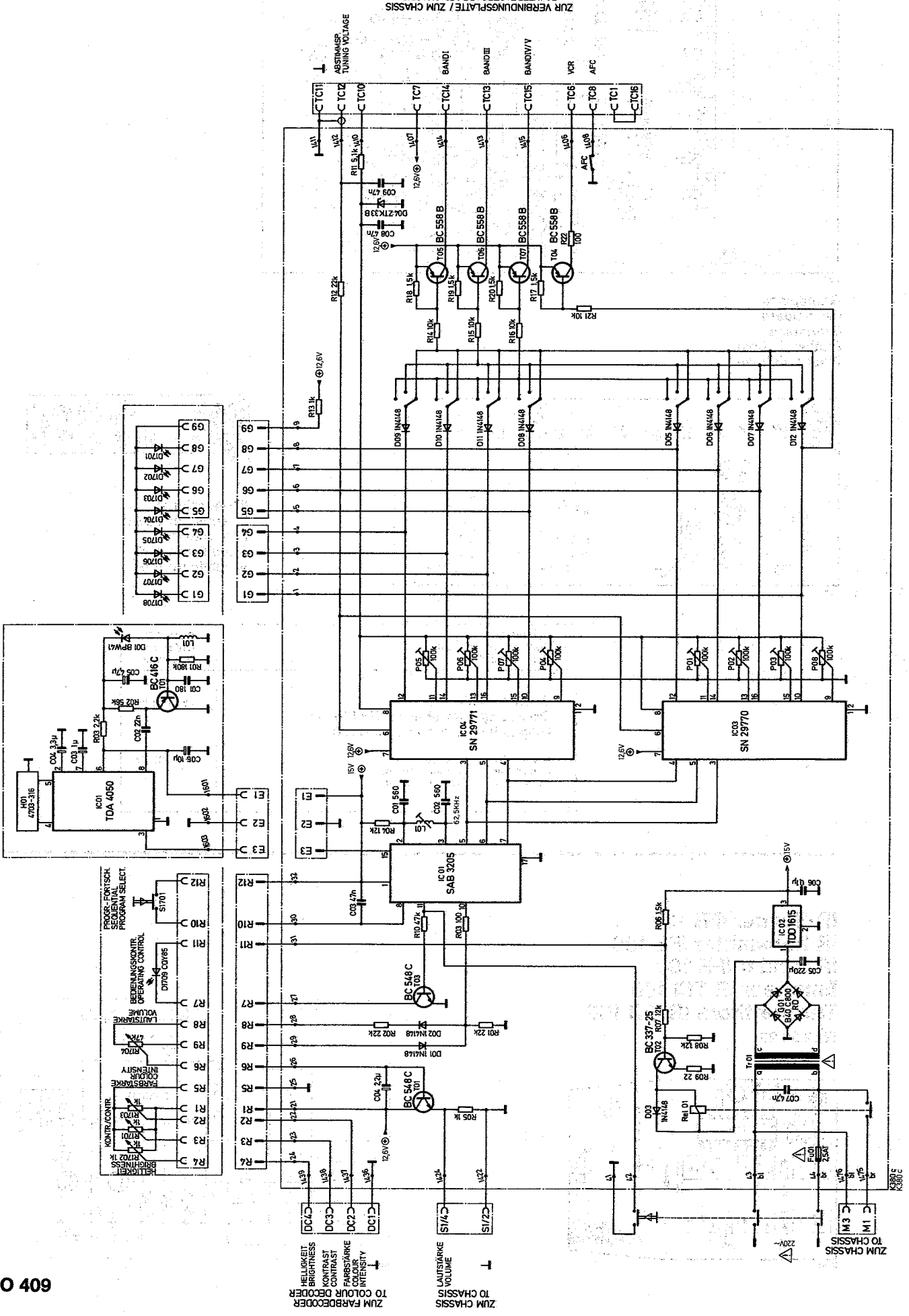
Table with 4 columns: Step, Stage or circuit to be aligned, Adjust, Colour decoder, Colour sub-carrier, Sub-carrier trap, PAL dematrix, SECAM demodulator, Check PAL-dematrix and set the point 'g', if necessary (Caution with PAL-operation).

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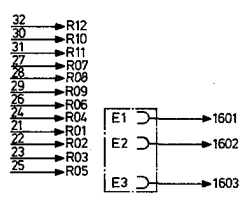
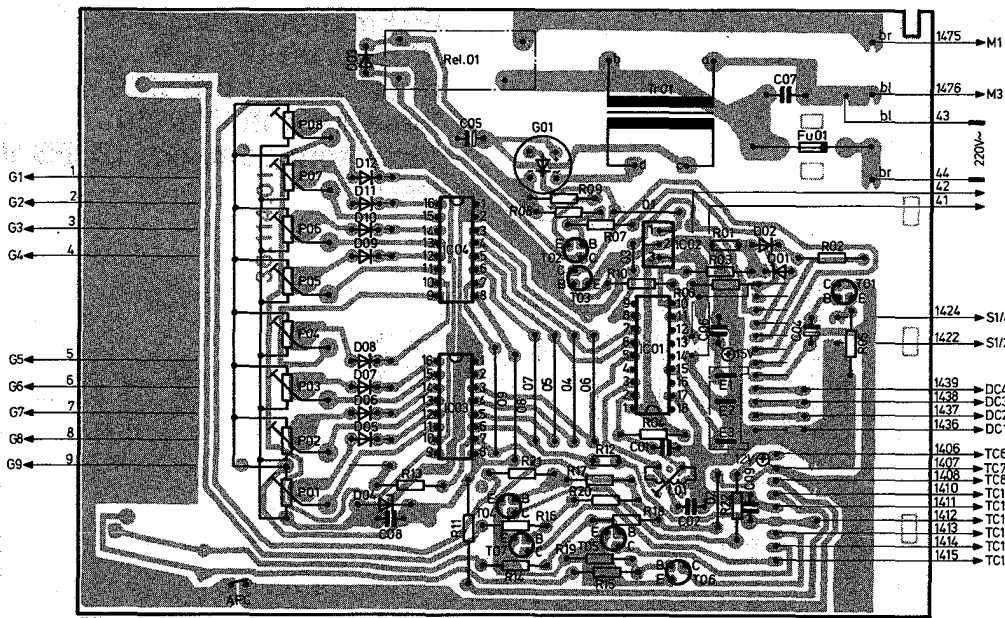
In caso di cambio del Dematrix PAL, regolare secondo quanto detto al punto a.

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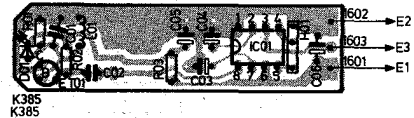
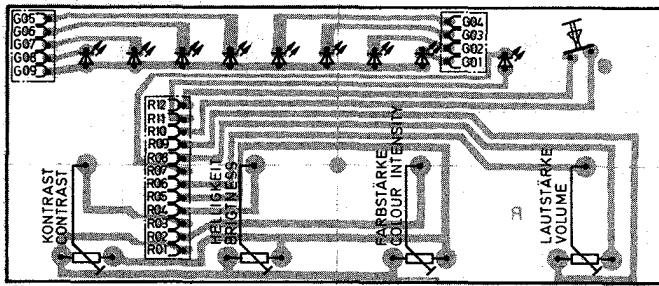
IR-Empfänger IFB 100
IR receiver IFB 100
IR ontvanger IFB 100
Récepteur IR TCI 100
Ricevitore comando IR IFB 100
 5883 24 50



ZUR VERBINDUNGSPORTE / TO CHASSIS
 TO INTERFACEDBOARD / TO CHASSIS



K381 a
K381 a
Grundplatte
Base board
Grondplaat
Platine de base
Piastra di base

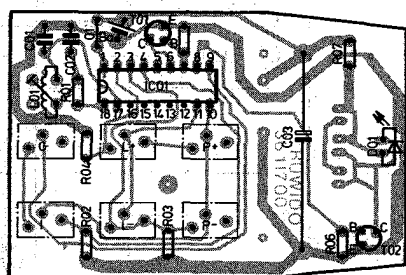


IR-Verstärker
IR amplifier board
IR versterker
Amplificateur IR
Amplificatore IR

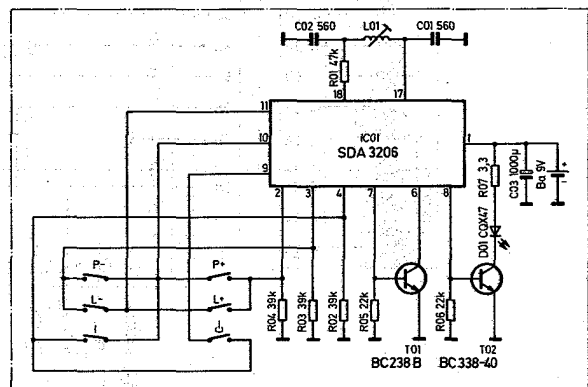
Ersatzteile Replacement parts list Pezzi di ricambio	Bestell-Nr. Order no. Nr. ordine
Bedienteil IFB 100 Operating control units IFB 100 Dispositivo di comando IFB 100	5883 24 50
Infrarot-Verstärker, kpl. Infrared amplifier board, compl. Amplificatore infrarosse, comp.	5888 09 57

IR-Sender IFB 100
IR transmitter IFB 100
IR zender IFB 100
Émetteur IR TCI 100
Trasmittitore IR IFB 100

5652 20 26



K383

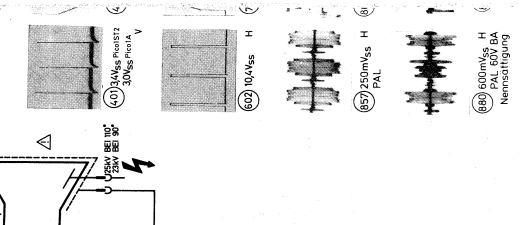


K382

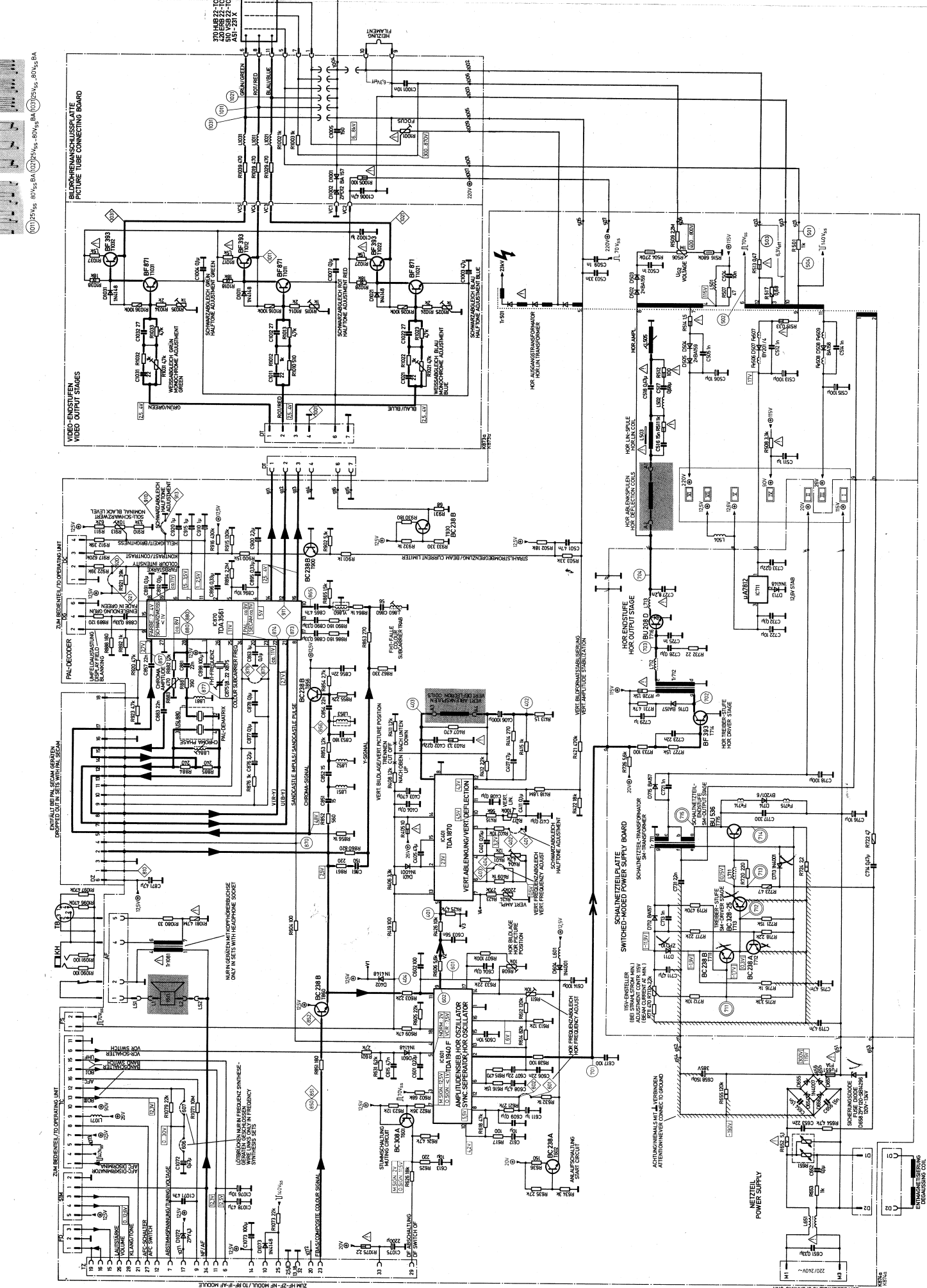
Chassis Pico 1 ST 2
5661 70 19

Ersatzteile
Circle
Verk.

- Baugruppen aus Grupp konstrukt
- Schaltzettel mit Rapport au pose
- Riferire tutti gli o
- Messungen auf Messungen auf Messungen auf
- Riferire tutte le Riferire tutte le Riferire tutte le
- Tous les oscillogr
- Oscillogramm-Me
- Riferire tutti gli o
- Testpunkt im Test
- Punto di control
- Sicherheitshinwei
- Safety componen
- Componente d
- Componente onc



Ersatzteile	Replacement parts list	Pezzi di ricambio
Chassisplatte mit Schaltzettel	Chassis board with switched-n	Placca chasis con piastra div
per Pico 1 A	per Pico 1 A	per Pico 1 A
Chassisplatte mit Schaltzettel	Chassis board with switched-n	Placca chasis con piastra div
per Pico 1 ST 2	per Pico 1 ST 2	per Pico 1 ST 2
IC 401	IC 401	IC 401
IC 801	IC 801	IC 801
IC 870	IC 870	IC 870
TR 501	TR 501	TR 501
TR 711	TR 711	TR 711
TR 712	TR 712	TR 712
R 403	R 403	R 403
R 405	R 405	R 405
R 511	R 511	R 511
R 513	R 513	R 513
R 514, 515	R 514, 515	R 1075
C 651	C 651	C 651

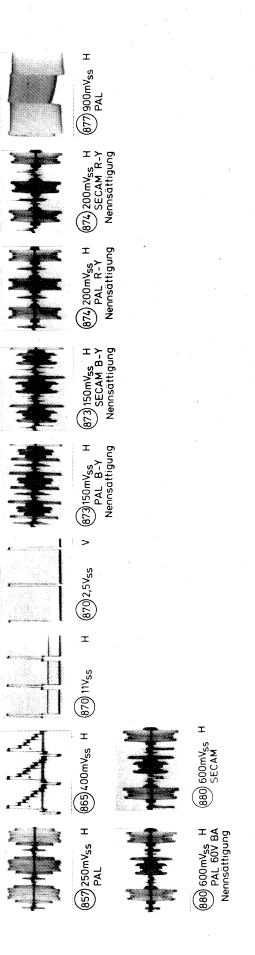
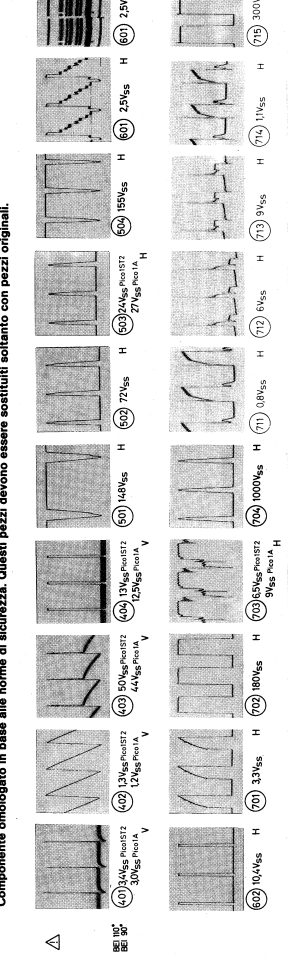


ZUM BEZUGEN/TO OPERATING UNIT

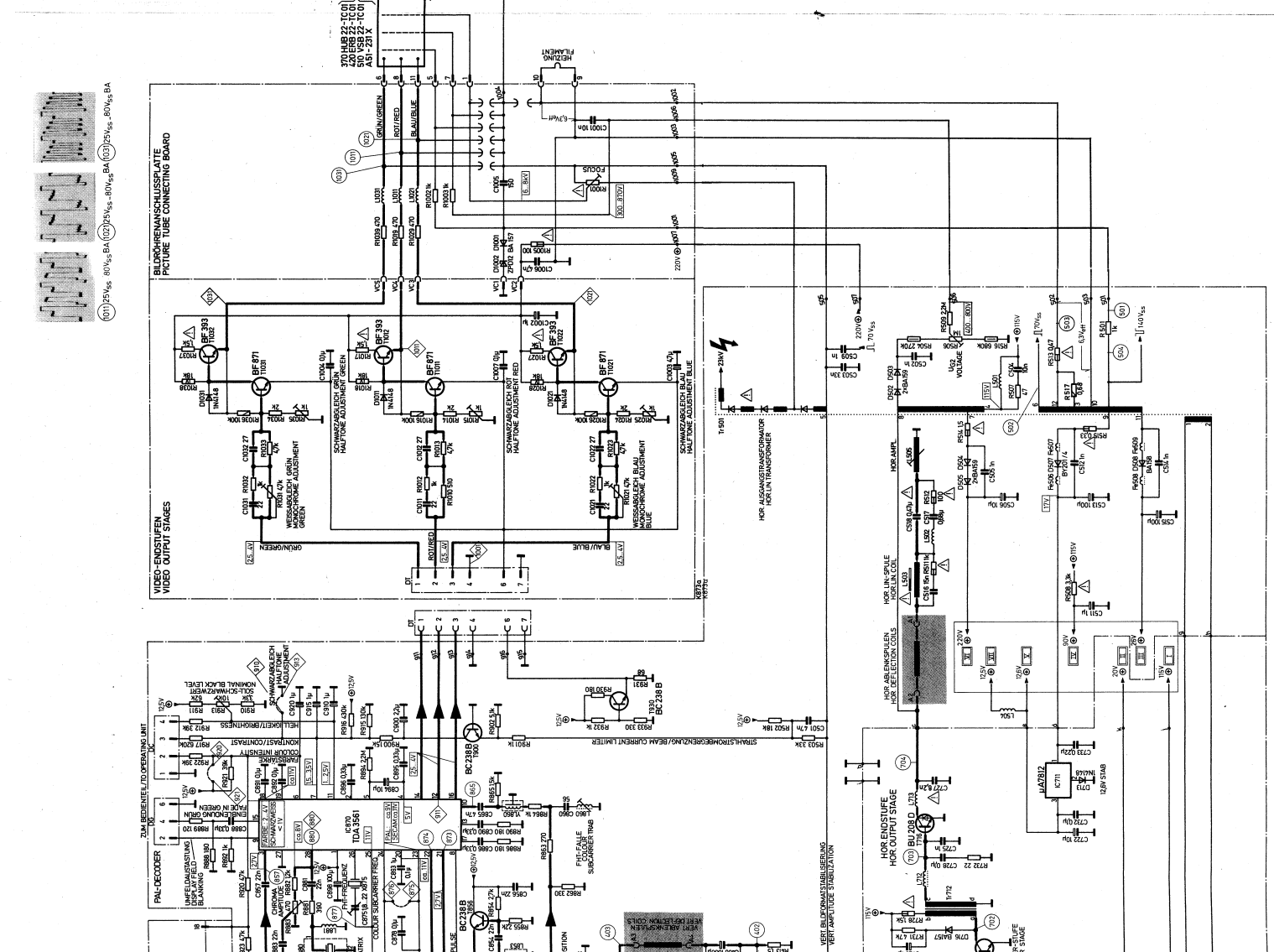
**Légendes des schémas
Spiegolazioni dei simboli usati sullo schema**

- Bagruppen außerhalb des Chassis / Sub-assemblies outside the chassis / Gruppi costruttivi al di fuori dello chassis
- Schaltmittel-Minuspotential / Switch-mode power supply minus potential / Schakel-metodeel-minuspotential / Report on potential négatif du bloc-secteur de commutation / Collegamento della sezione di rete a potenziale negativo
- Messungen auf J. (Masse) bezogen / Measurements referenced to earth (L) / Misure riferite al potenziale negativo del blocco-settore de commutation / Riferire tutte le misurazioni alla massa
- Messungen auf Schaltmittel-Minuspotential bezogen / Measurements referenced to switch-mode power supply minus potential / Misure riferite con riferimento al potenziale negativo del blocco-settore de commutation / Riferire tutte le misurazioni al schakel-metodeel-minuspotential
- Oscillogramm Measpunkt auf J. (Masse) bezogen / Waveforms referenced to earth (L) / Oscillogrammi-Measpunt met betrekking tot J. / Tous les oscillogrammes se rapportent à la masse / Riferire tutti gli oscillogrammi alla massa
- Oscillogramm-Measpunkt auf Schaltmittel-Minuspotential bezogen / Waveforms referenced to switch-mode power supply minus potential / Oscillogrammi-Measpunt referiti al potenziale negativo del blocco-settore de commutation / Riferire tutti gli oscillogrammi al schakel-metodeel-minuspotential
- Testpunkt im Text wird für die Testpunkte die Abkürzung TP... verwendet / Test point. The abbreviation "TP..." is used for the test points in the text / Testpunt in de tekst worden de afkorting TP... gebruikt / Punto di controllo. Nel testo i punti di controllo vengono determinati per mezzo di un "TP..."

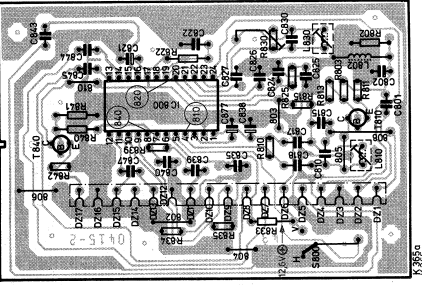
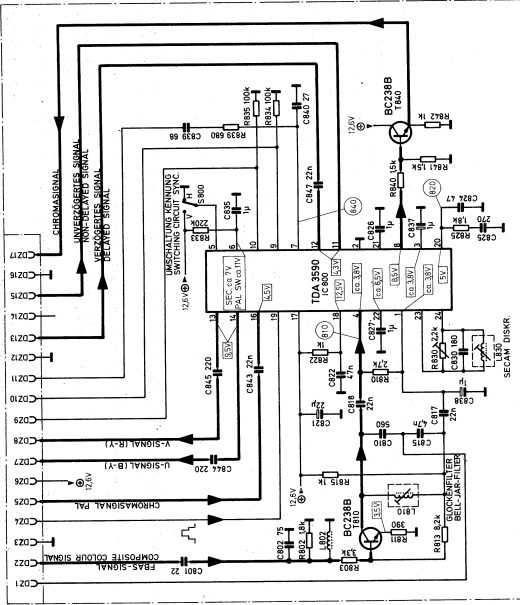
Sicherheitsbauteil im Sinn der Sicherheitsbestimmung. Diese Teile dürfen nur durch Originalteile ersetzt werden.
Safety components in accordance with existing regulations. These components must only be replaced by original component parts.
Componente di sicurezza in base alle norme di sicurezza. Questi pezzi devono essere sostituiti soltanto con pezzi originali.



Ersetzteile Replacement parts list Pezzi di ricambio	Bestell-Nr. Order no.	L 503	4516 10 59
Chassisplatte mit Schaltmittelplatte für Pico 1A Chassis board with switched-mode power supply board per Pico 1A Chassisplatte mit Schaltmittelplatte für Pico 1ST2 Chassis board with switched-mode power supply board per Pico 1ST2	5661 70 18 5661 70 19	D 658 USL 880	Δ 3653 24 21 4342 11 15
Chassisplatte mit Schaltmittelplatte für Pico 1A Chassis board with switched-mode power supply board per Pico 1A Chassisplatte mit Schaltmittelplatte für Pico 1ST2 Chassis board with switched-mode power supply board per Pico 1ST2	5661 70 18 5661 70 19	YL 860	4588 01 12
Chassisplatte mit Schaltmittelplatte für Pico 1A Chassis board with switched-mode power supply board per Pico 1A Chassisplatte mit Schaltmittelplatte für Pico 1ST2 Chassis board with switched-mode power supply board per Pico 1ST2	5661 70 18 5661 70 19	IC 401 TDA 1870 TDA 3701 F TDA 3702 IC 970 TR 801	6911 38 86 3722 20 82
Chassisplatte mit Schaltmittelplatte für Pico 1A Chassis board with switched-mode power supply board per Pico 1A Chassisplatte mit Schaltmittelplatte für Pico 1ST2 Chassis board with switched-mode power supply board per Pico 1ST2	5661 70 18 5661 70 19	TR 711 TR 712	6911 39 05
Chassisplatte mit Schaltmittelplatte für Pico 1A Chassis board with switched-mode power supply board per Pico 1A Chassisplatte mit Schaltmittelplatte für Pico 1ST2 Chassis board with switched-mode power supply board per Pico 1ST2	5661 70 18 5661 70 19	R 403 R 405 R 406 R 511 R 513 R 514 R 515 R 1075 C 651	6911 19 85 4765 13 46 6911 38 57
Chassisplatte mit Schaltmittelplatte für Pico 1A Chassis board with switched-mode power supply board per Pico 1A Chassisplatte mit Schaltmittelplatte für Pico 1ST2 Chassis board with switched-mode power supply board per Pico 1ST2	5661 70 18 5661 70 19		

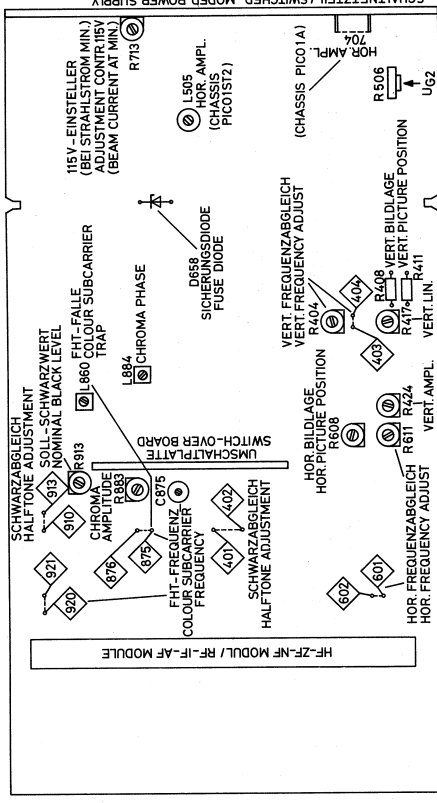


Zum Chassis / To chassis



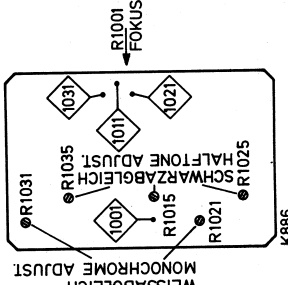
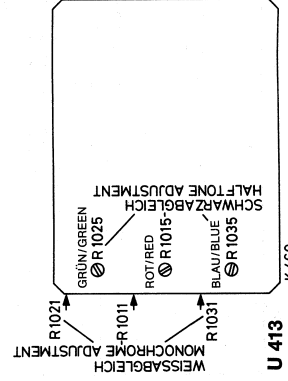
SECAM-Zusatz nur in PAL SECAM-Geräten
 SECAM supplement only in PAL SECAM models
 SECAM-onderdeel in apparaten met PAL SECAM
 Accessoire SECAM dans l'appareil avec PAL SECAM
 Congegno ausiliare SECAM entro apparecchi PAL SECAM

Lageplan · Alignment layouts · Pianta di reglage · Plan de réglage



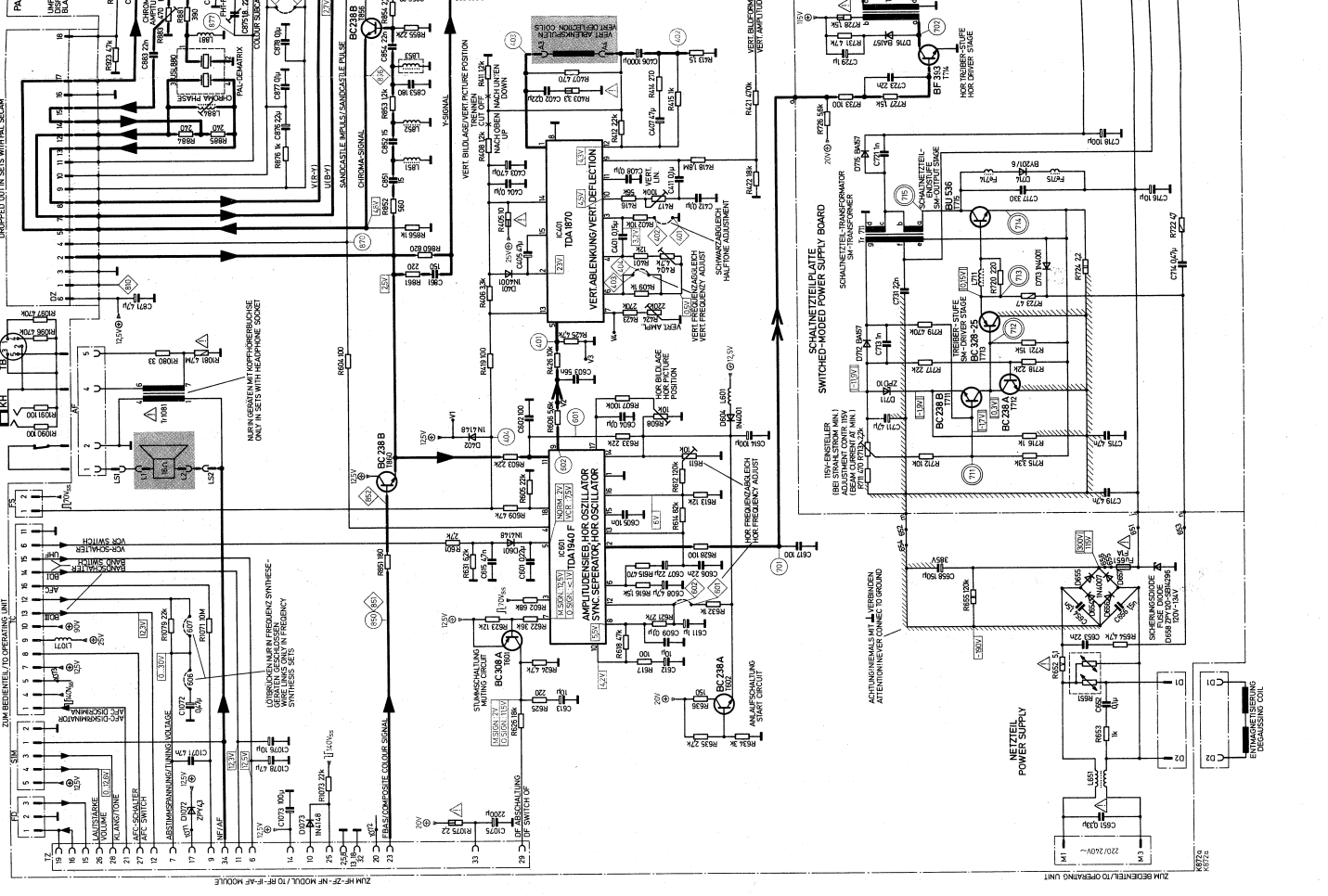
K.459c

Chassis, Bestückungsseite / component side / komponentenzijde / côté composants / lato componenti

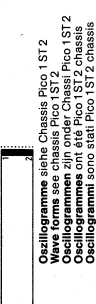
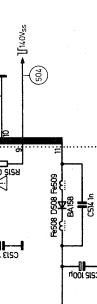
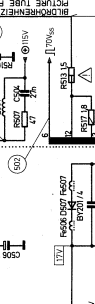
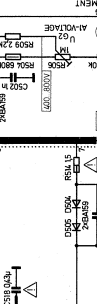
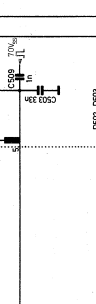
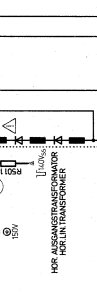
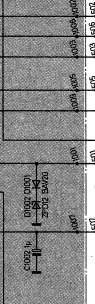
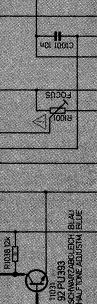
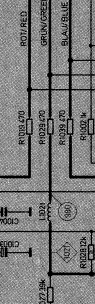
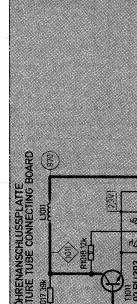
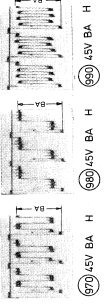
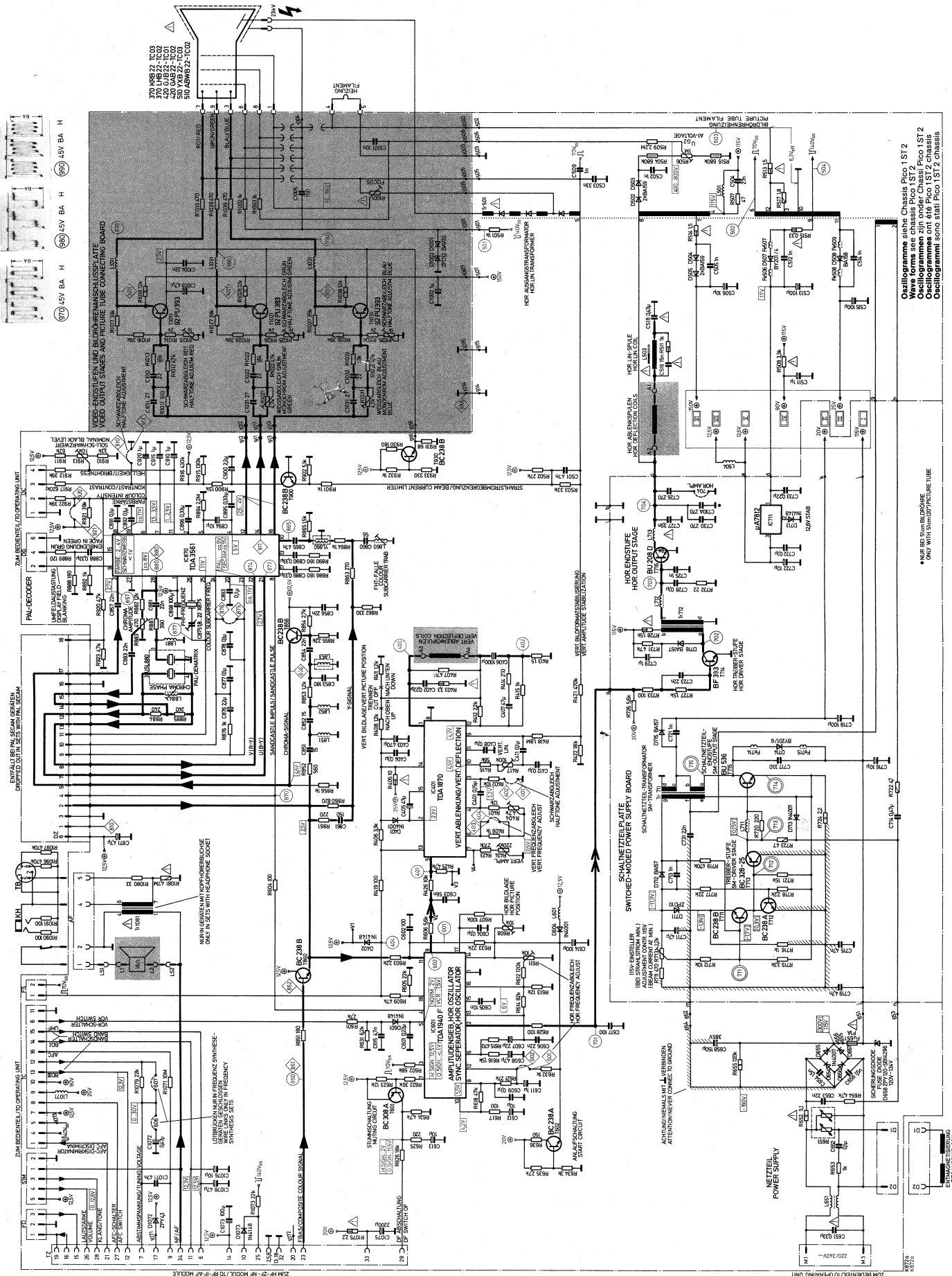


U 413

Pico 1A
 Pico 1ST2



ZUM BEREICH / TO OPERATING UNIT



WIES FUNKSTREIFEN MIT BRÜCKENVERBUNDEN WERDEN LÄSST
VIDEO OUTPUT STAGES AND PICTURE TUBE CONNECTING BOARD
HALTUNG ADJUSTMENT

WIES FUNKSTREIFEN MIT BRÜCKENVERBUNDEN WERDEN LÄSST
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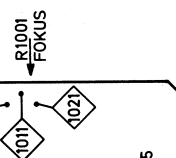
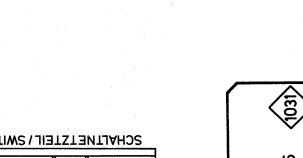
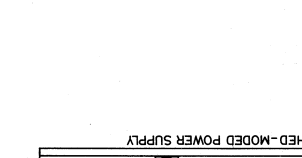
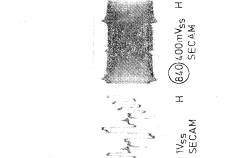
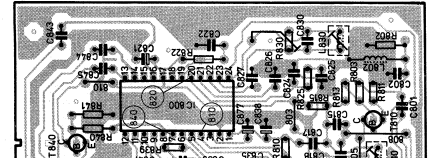
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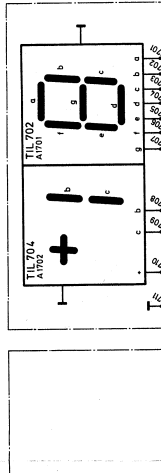
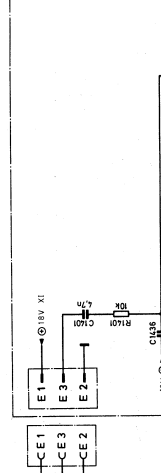
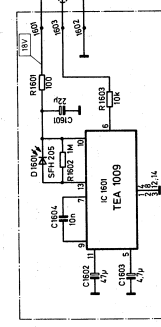
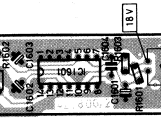
IR-Empfänger IFB 150/IFB 150 NC
IR receiver IFB 150/IFB 150 NC
IR ontvanger IFB 150/IFB 150 NC
Récepteur IR TC1 150/TC1 150 NC
Ricevitore comando IR IFB 150/IFB 150 NC

5883 13 20

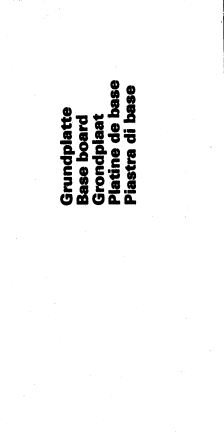
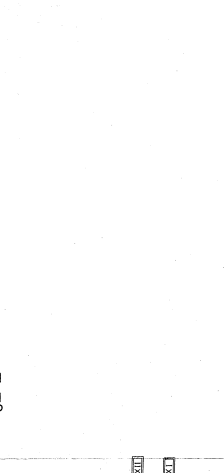
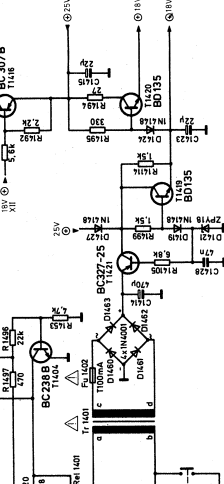
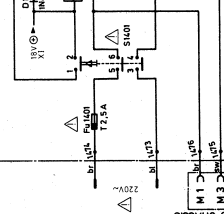
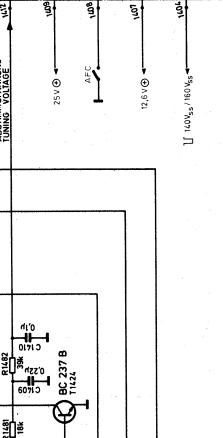
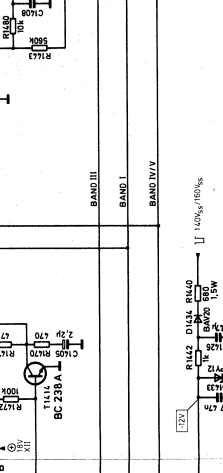
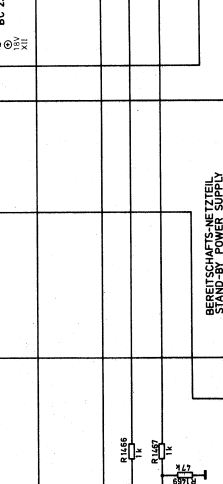
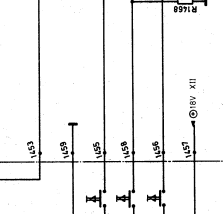
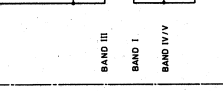
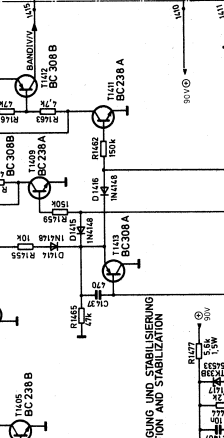
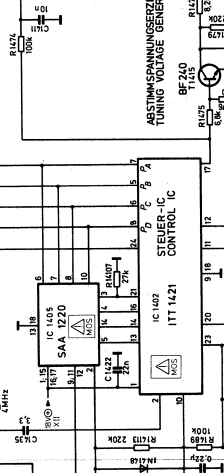
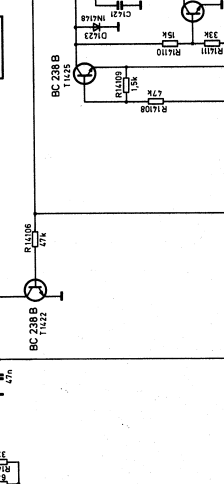
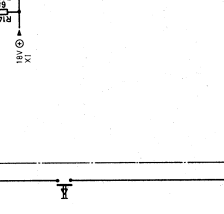
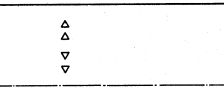
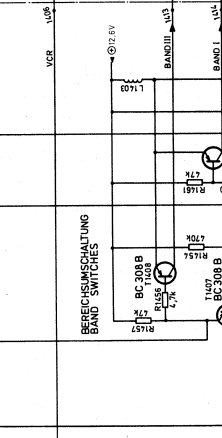
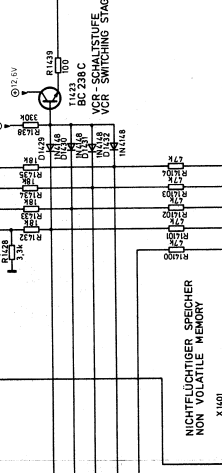
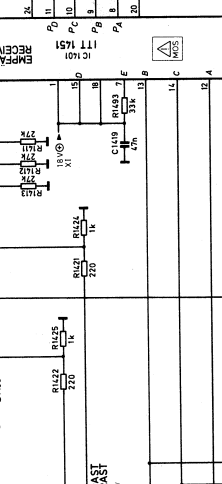
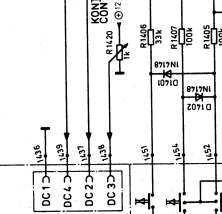
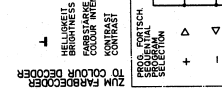
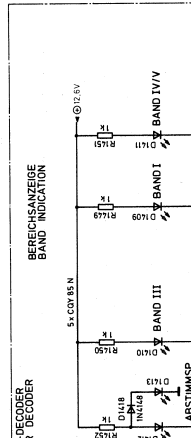
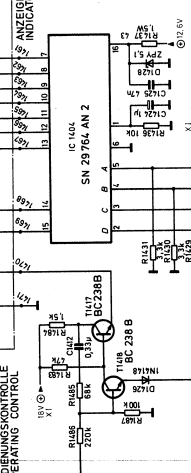
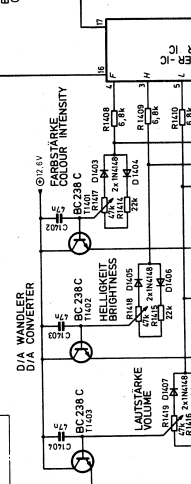
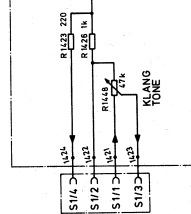
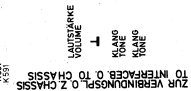
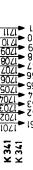
5883 13 40

IR-Verstärker
IR amplifier board
IR versterker
Amplificatore IR

5883 13 20



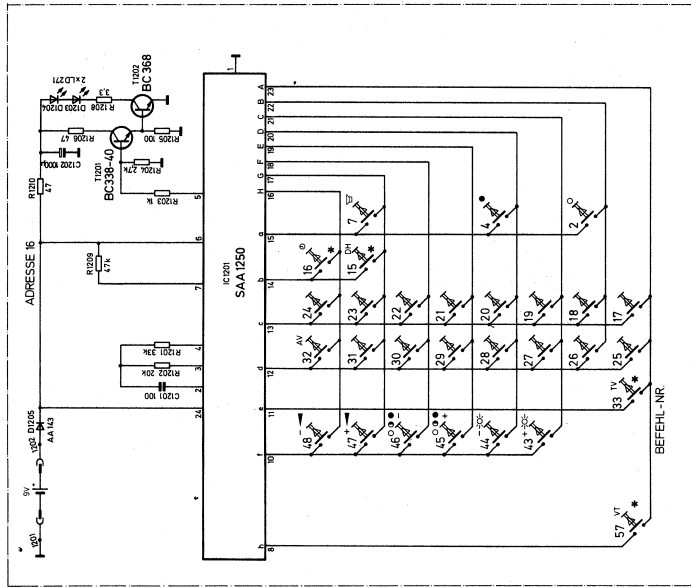
Anzeigeplatte
Indicator board
Aanwijzingsplaat
Plate indication
Piastra annunzio



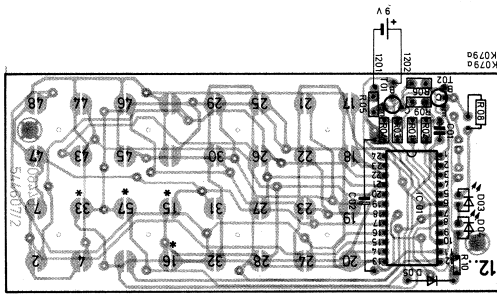
Grundplatte
Base board
Grondplaat
Platine de base
Piastra di base

K 4574

IR-Sender IFB 13 N
IR transmitter IFB 13 N
IR zender IFB 13 N
Émetteur IR TCJ 13 N
Trasmettitore IR IFB 13 N
 5652 08 31



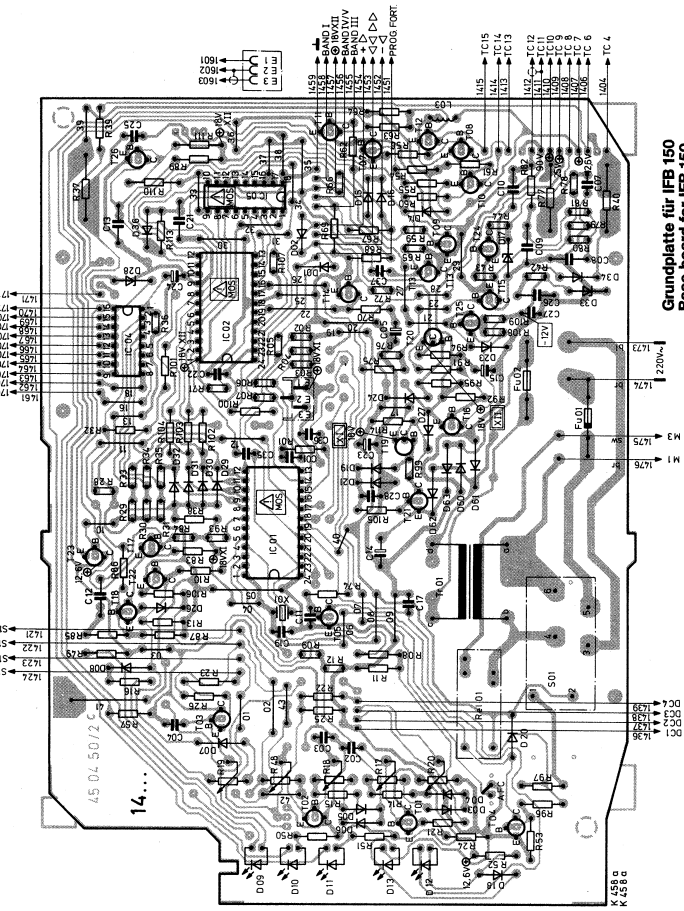
IR-Sender IFB 13 T
IR transmitter IFB 13 T
IR zender IFB 13 T
Émetteur IR TCJ 13 T
Trasmettitore IR IFB 13 T
 5652 08 34



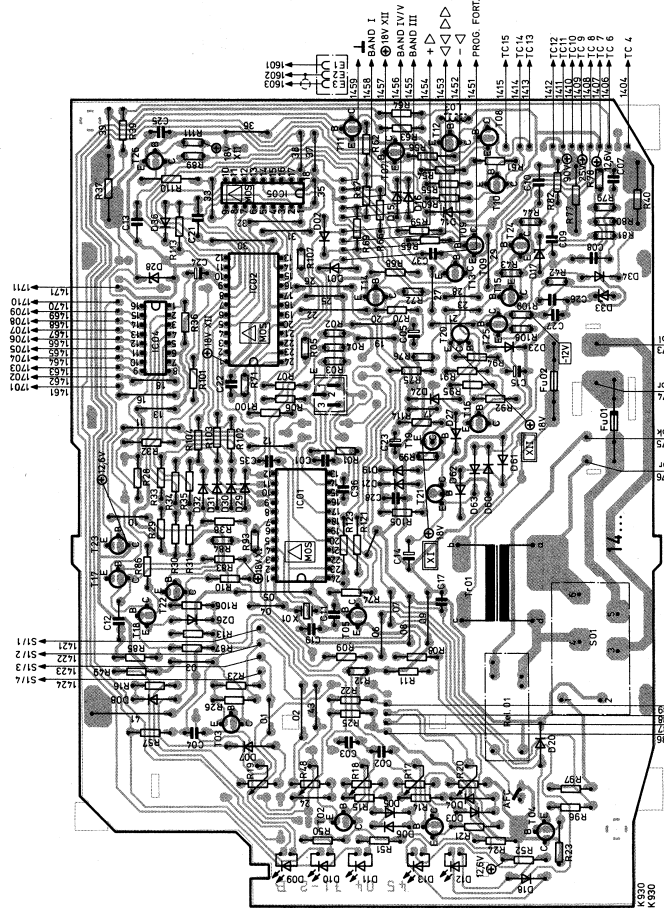
* Nur bei IFB 13 T
 Only with IFB 13 T
 Alleen bij IFB 13 T
 Seulement pour IFB 13 T
 Solo per IFB 13 T

Erstattelle Replacement parts list Pezzi di ricambio	Bestell-Nr. Order no. Nr. ordine
Bedienteil IFB 150 Operating control units for IFB 150 Dispositivo di comando IFB 150	5883 13 20 5883 13 40
IC 1401 ITT 1451 MOS IC 1402 SN 2376A AN 2 IC 1405 SAA 1220 X 1401 Quartz Quarzo	3779 25 51 3779 25 51 3779 13 31 3779 11 30 4421 31 54
Infrarot-Versarker, kpl. Infrared amplifier board, comp. Amplificateur infrarosse, comp.	5888 09 56
D 1601 Fotodiode SHF 205 Foto diode Diodo a topo cellula	3683 10 33
Anzeigetafel Indicator board Piastra annunzio	6811 22 89

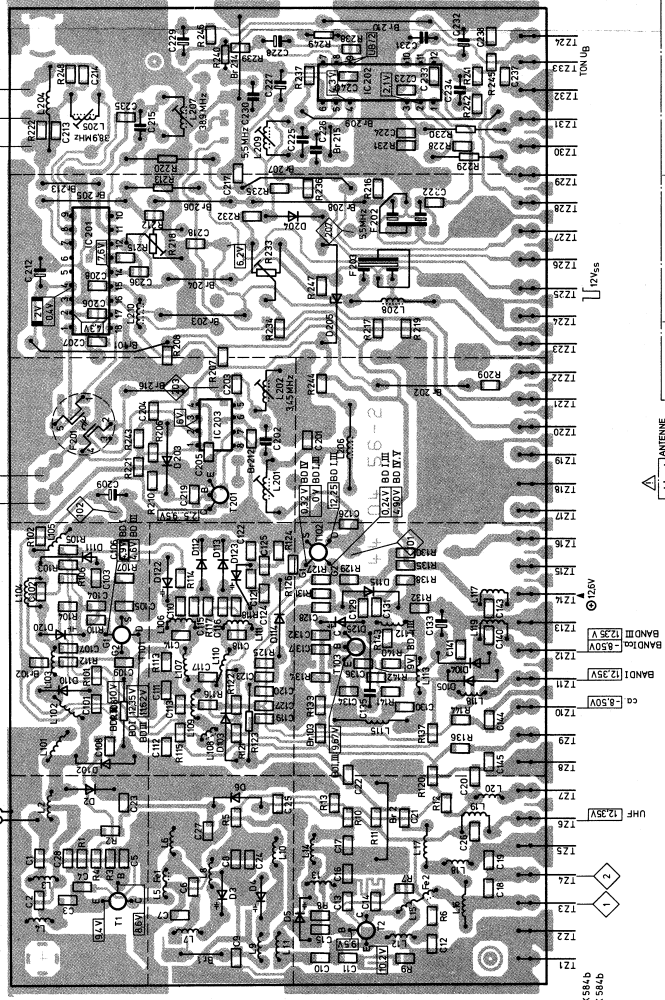
Erstattelle Replacement parts list Pezzi di ricambio	Bestell-Nr. Order no. Nr. ordine
Infrarot-Sender IFB 13 N, kpl. Infrared transmitter IFB 13 N, compl. Trasmettitore infrarosse IFB 13 N comp.	5652 08 31
Infrarot-Sender IFB 13 T Infrared transmitter IFB 13 T Trasmettitore infrarosse IFB 13 T	5652 08 34
Senderplatte, bestickt Transmitter board, comp. Piastra trasmettitore, comp.	6811 18 19
Gehauseoberteil Casing, top section Parte superiore alloggiamento	6138 25 85
Gehauseunterteil Casing, bottom section Parte inferiore alloggiamento	6138 26 12
Batteriedeckel Battery cover Copertura batteria	6138 27 08
Batterie Battery Batteria	4424 05 01
IC 1201	3779 25 02
	SAA 1250



Grundplatte fur IFB 150
Base board for IFB 150
Grandplaat in IFB 150
Piastra di base per IFB 150



Grundplatte fur IFB 150 NC
Base board for IFB 150 NC
Grandplaat in IFB 150 NC
Piastra di base per IFB 150 NC



HF-ZF-NF Modul
RF-IF-AF module
HF-MF-LF module
Modulo HF-MF-LF
Modulo MF-BF-AF

5828 02 01

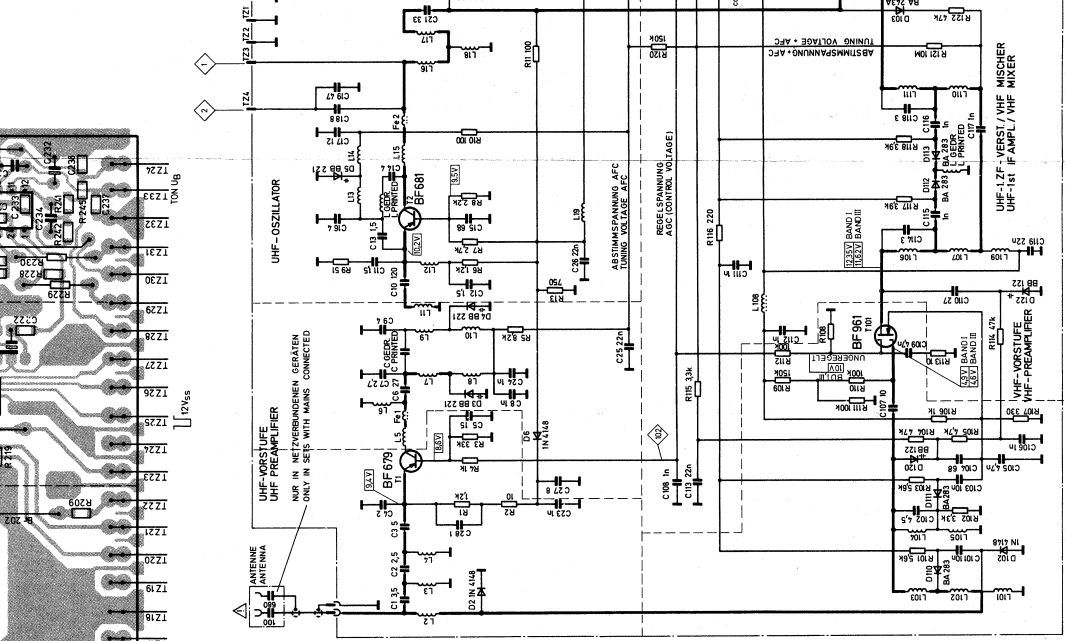
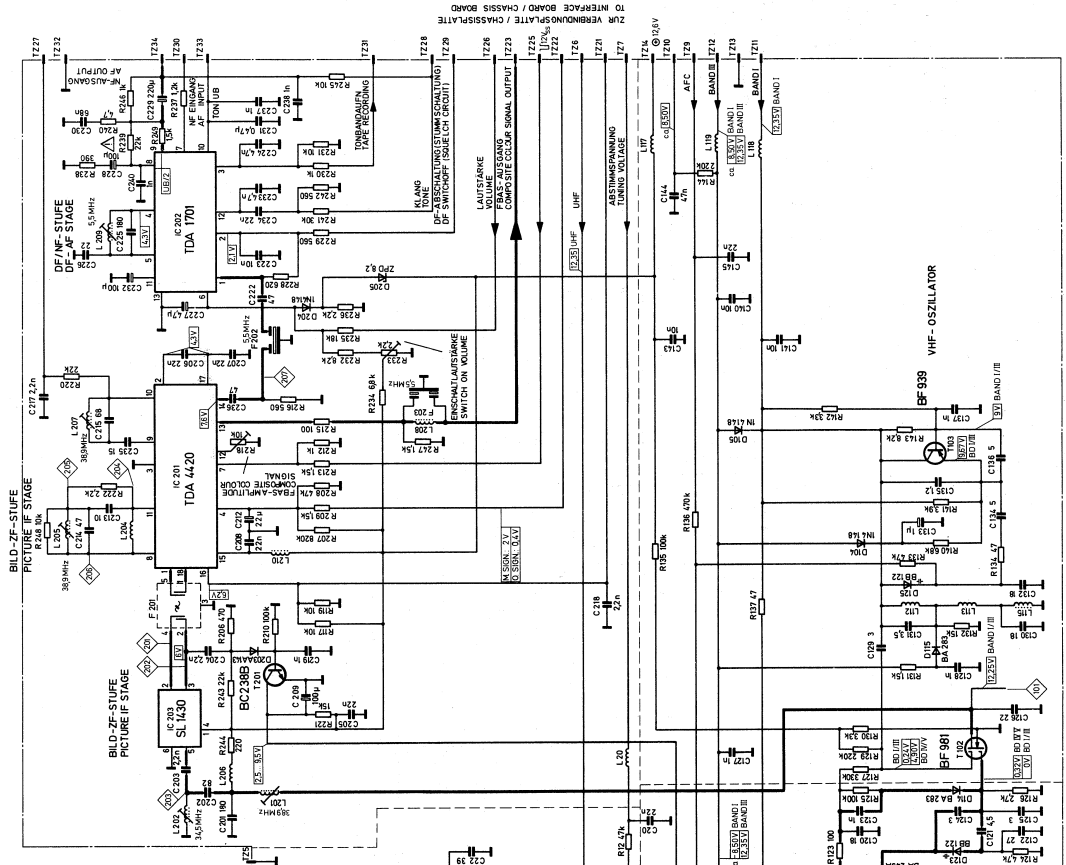
HF-ZF-NF Modul Kabeituner / Frequenzteiler
RF-IF-AF module Cable tuner / Frequency divider
HF-MF-LF module Kabeituner / Frekwentieteller
Modulo HF-MF-LF Tuner par câble / Diviseur de fréquence
Modulo MF-BF-AF Tuner a larga banda / Ripartitore di frequenza

5828 02 05

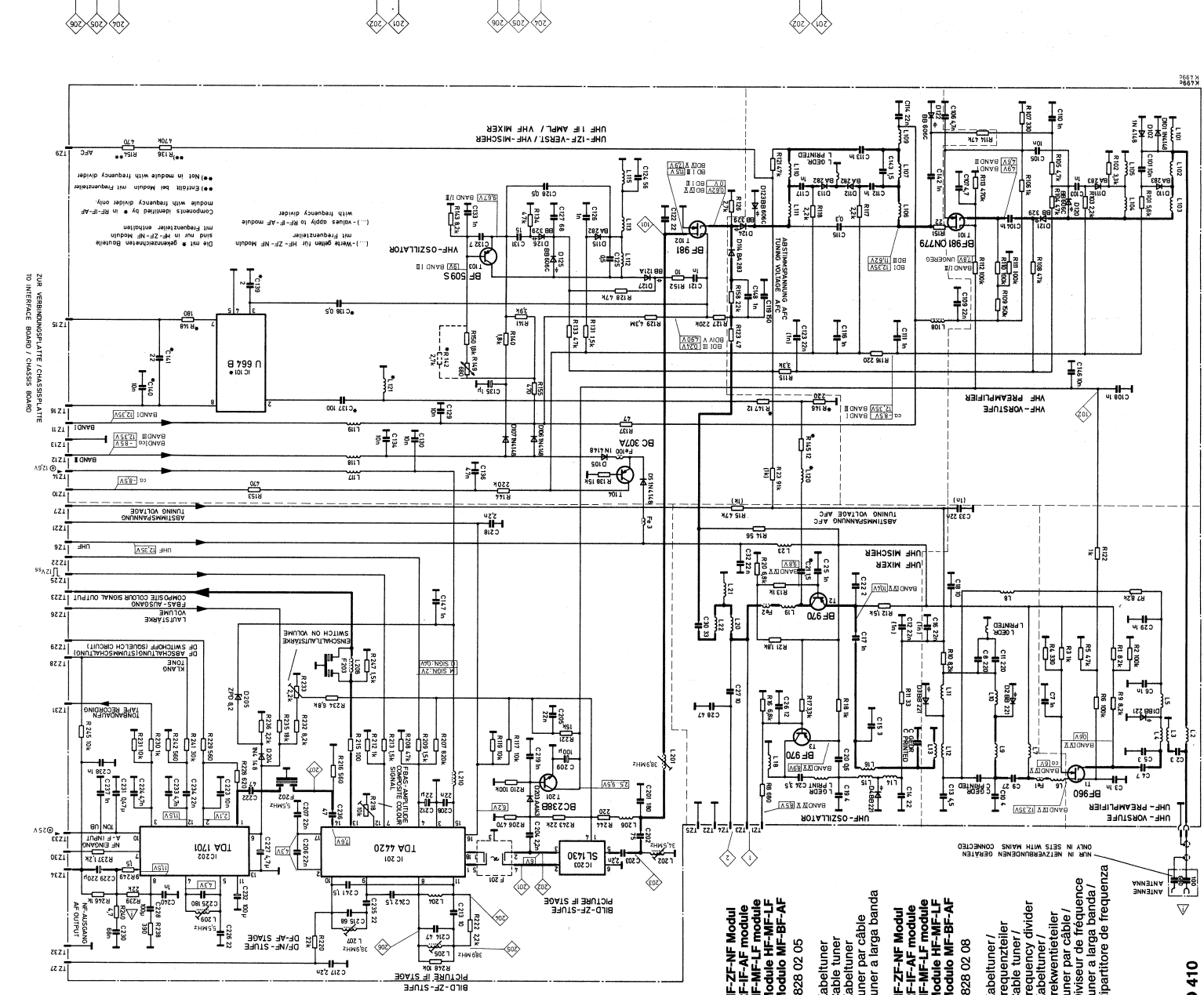
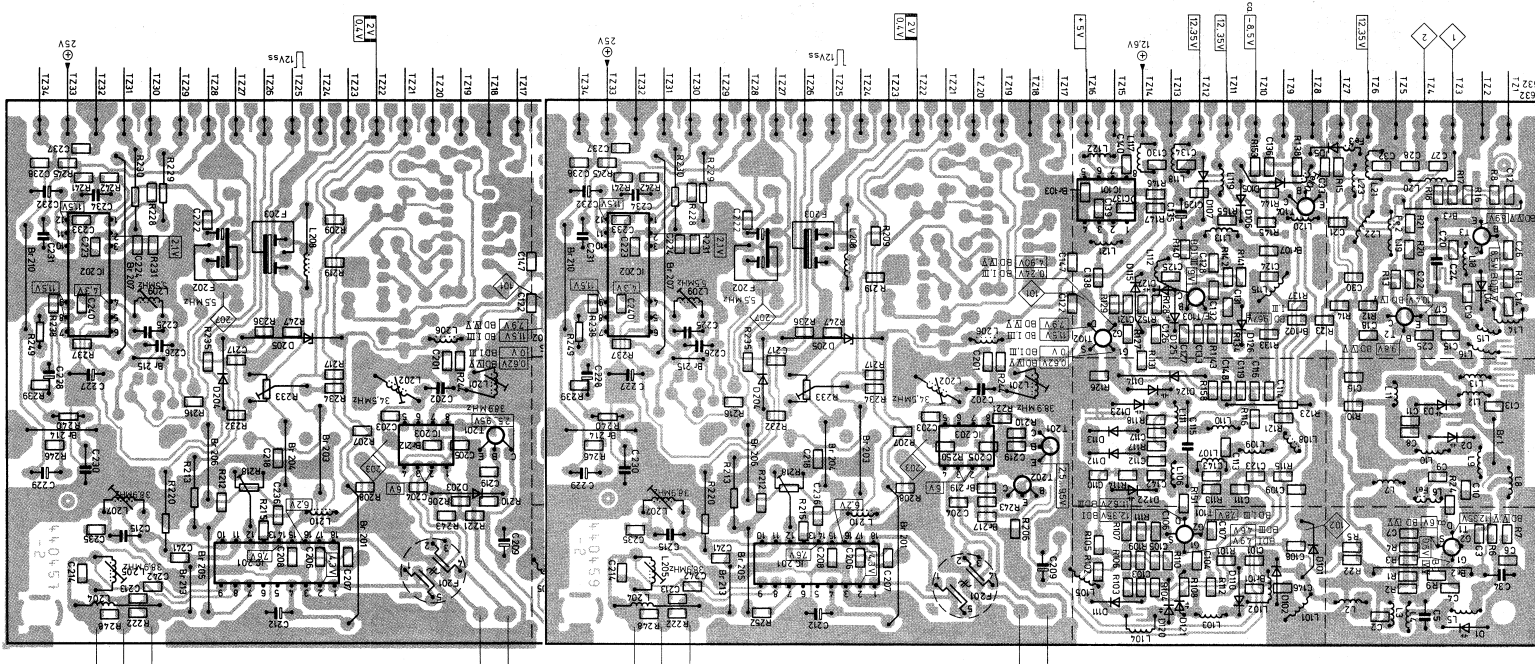
5828 02 08

Bei Austausch des Modults sind keine Abgleicharbeiten erforderlich.
Replacing a defective module does not necessitate readjustment.
Bij uitwisseling van de module-eenheid zijn geen afstemmingen noodzakelijk.
Aucun ajustage n'est necessaire en cas remplacement du module.
Nel caso di sostituzione dei moduli non è necessaria nessuna taratura.

Bestell-Nr. Order no. Nr. ordine	Ersatzteile Replacement parts list Pezzi di ricambio
5828 02 01	HF-ZF-NF-Modul RF-IF-AF module Modulo MF-BF-AF
5828 02 05	HF-ZF-NF-Modul RF-IF-AF module Modulo MF-BF-AF
5828 02 08	HF-ZF-NF-Modul RF-IF-AF module Modulo MF-BF-AF
3775 05 73	IC 101
3761 16 09	IC 201
3761 16 01	IC 202
3761 16 05	IC 203
4555 85 08	F 201
4555 84 25	F 202
4555 84 10	F 203



ZUR ANSCHLUSSE AN DER KABELLEITER- / CHASSISPLATE
 TO INTERFACE BOARD / CHASSIS BOARD



Die mit einem gekennzeichneten Bauteile sind nur in ZF-NF-Modulen mit Frequenzteilern.
 Components identified by a in RF-F-Modul mit Frequenzteiler.
 (*) Eintrag bei Modul mit Frequenzteilern.
 * Not in module with frequency divider.

(...) -wirds apply to RF-F-Modul mit Frequenzteilern.
 (...) -wirds apply to RF-F-Modul mit Frequenzteilern.
 (...) -wirds apply to RF-F-Modul mit Frequenzteilern.

ZUR VERBUNDUNG MIT DER ZUSATZPLATINE
 TO INTERFERENCE BOARD / CHASSIS BOARD

- HF-ZF-NF Modul**
- RF-IF-AF module**
- HF-MF-LF module**
- Module HF-MF-LF**
- Modulo MF-BF-AF**
- Modulo MF-BF-AF**
- 5828 02 05**
- Kabeltuner
- Cable tuner
- Kabeltuner
- Tuner par câble
- Tuner a large banda
- HF-ZF-NF Modul**
- RF-IF-AF module**
- HF-MF-LF module**
- Module HF-MF-LF**
- Modulo MF-BF-AF**
- Modulo MF-BF-AF**
- 5828 02 08**
- Kabeltuner /
- Frequenzteiler
- Cable tuner /
- Frequenz divider
- Kabeltuner /
- Frekventiteiler
- Tuner par câble /
- Diviseur de fréquence
- Tuner a large banda /
- Ripartitore de frequenza