

TELEFUNKEN

MP-254

MODEL

SERVICE MANUAL

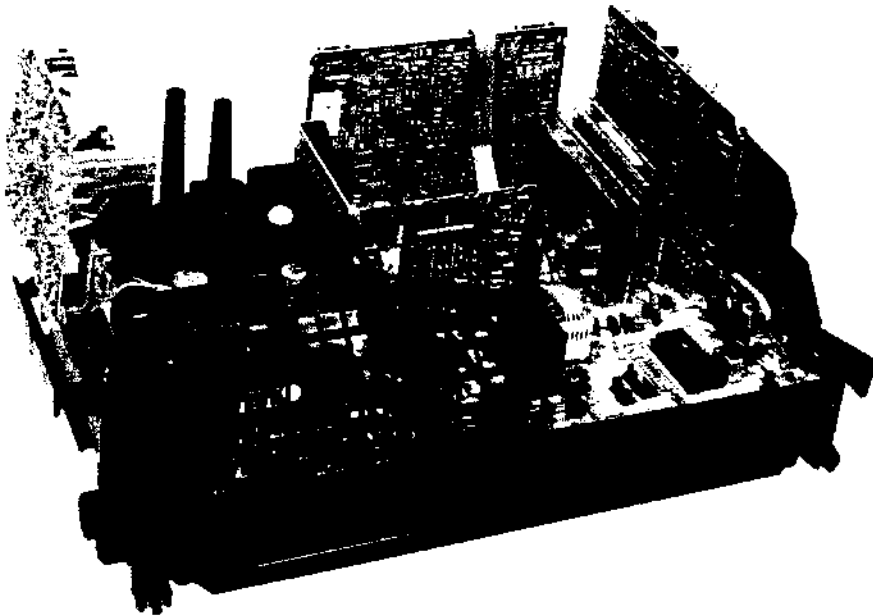


FERGUSON
THOMSON TECHNOLOGY

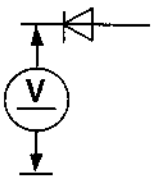
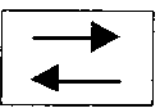
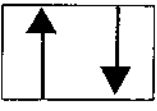
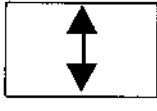
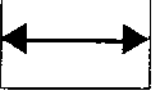
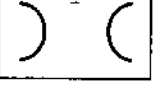
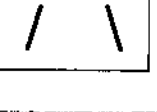
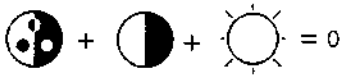
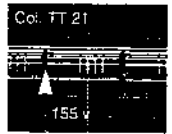
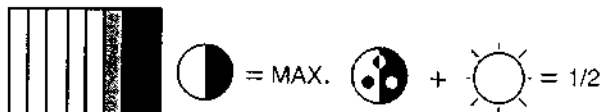
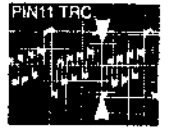
ICC8 SERIES


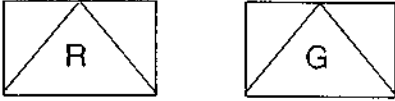


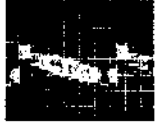
COLOUR TELEVISION

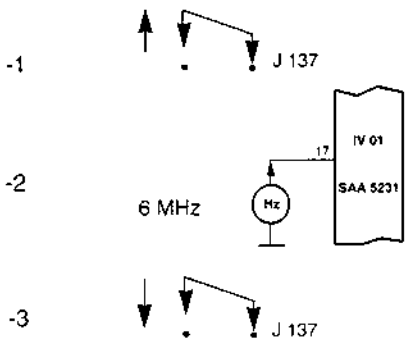
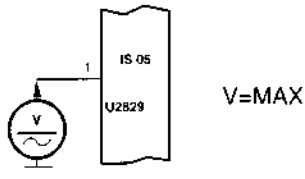
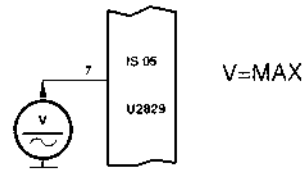
MODEL NUMBERS LISTED ON PAGE 1

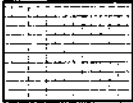



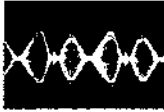

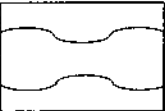
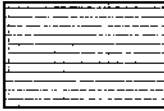
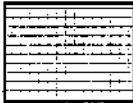






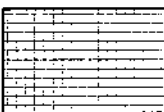
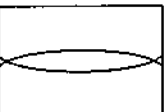
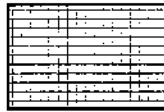


SERVICE MANUAL

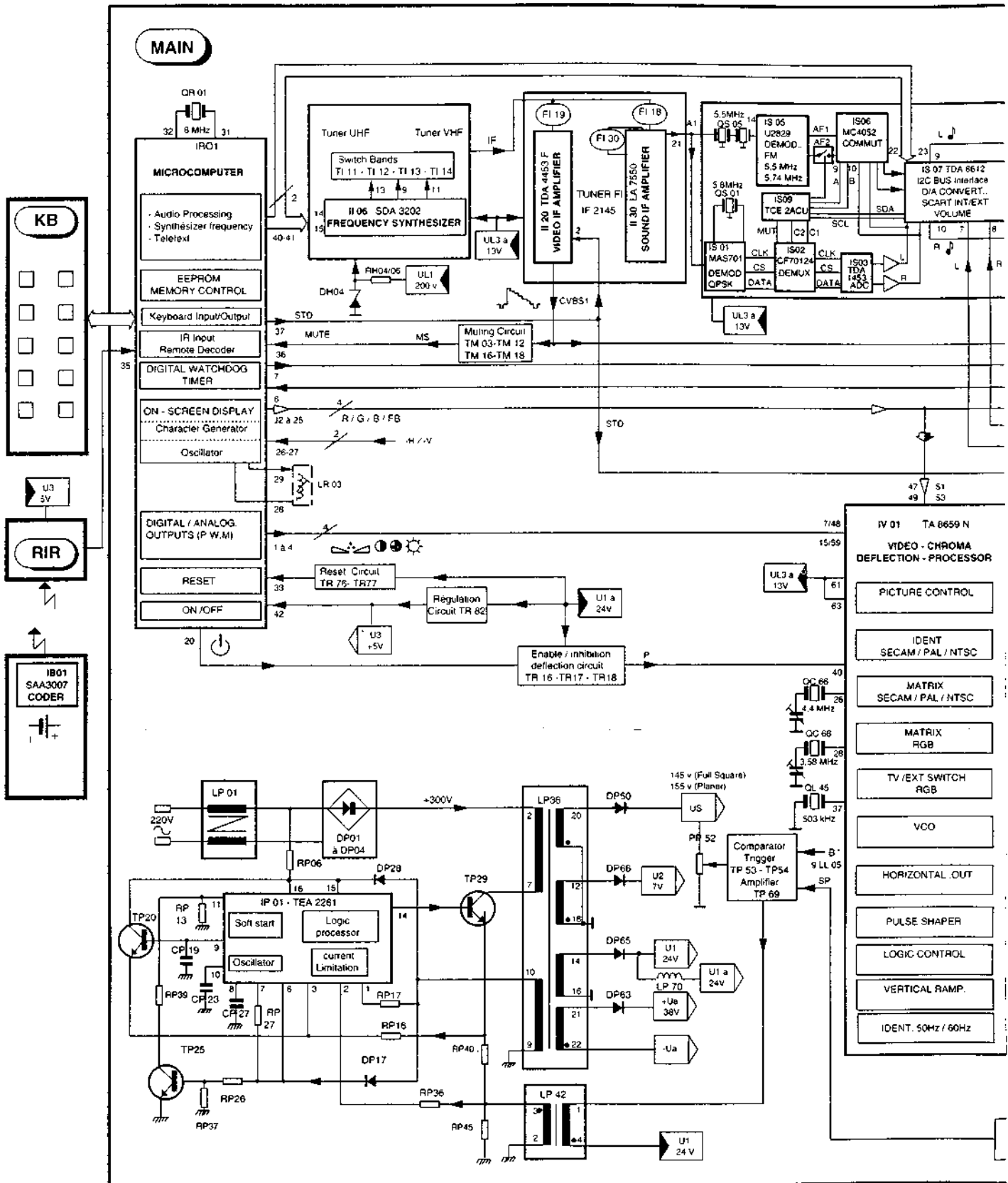
Pos.	Adj. / Rég. / Eins. / Tara	Adjust to / Régler pour / Einstellen auf / Reglar para / Regolare su
MAIN PP 52	Principal voltage Tension principale Versorgungsspannung Tensión principal Tensione principale	$V=U \text{ Syst.}^*$  DP 50 * 145 V Full Square 155 V Planar
PL 39	Horizontal picture shift Cadrage horizontal Bildlage horizontal Cuadrage horizontal Correzione orizzontale	
PF 04	Vertical picture shift Cadrage vertical Bildlage vertikal Cuadrage vertical Correzione verticale	
PF 11	Picture height amplitude verticale Bildhöhe Amplitud vertical Ampiezza verticale	
PG 01	Picture width amplitude horizontale Bildbreite Amplitud horizontal Ampiezza orizzontale	
PG 06	East-West pillow Coussin Est-Ouest Ost-West kissen Cojín Este-Oeste Cuscino Est-Ouest	
PG 04(4/3) PG20(16/9)	East-West pincushion Trapèze Est-Ouest Ost-West trapez Trapecio Este-Oeste Trapezio Est-Ouest	
CRT PT 01	Screen grid voltage Tension G2 Schirmgitterspannung Tensión rejilla Tensione griglia	 
MAIN PV 79	Peak white Ecretage des blancs Spitzenweiss Punta de blanco Bianco punte	 

Pos.	Adj. / Rég. / Eins. / Tara. /	Adjust to / Régler pour / Einstellen auf / Reglar para / Regolare su
MAIN PV 58	CONTOUR	
CRT PT 12 PT 22	Red ; Rouge ; Rot ; Rojo ; Rosso Green ; Vert ; Grün ; Verde ; Verde	
PT 01	FOCUS	
MAIN LI 6I	Sound rejection Réjecteur son Tonunterdrückung Trampa audio Relettore audio	 Incorrect Falsche Incorrecto Scoretto  Correct Korrekt Correcto Coretto
PC 44	PAL amplitude Amplitude PAL PAL pegel (PAL) Amplitud PAL Ampiezza PAL	Pairing min. Effet persienne min. Paarigkeit min. Efecto persiana minimo. Parita min.
LC 43	Delay line Ligne à retard Verzögerungsleitung (PAL) Linea de retardo	

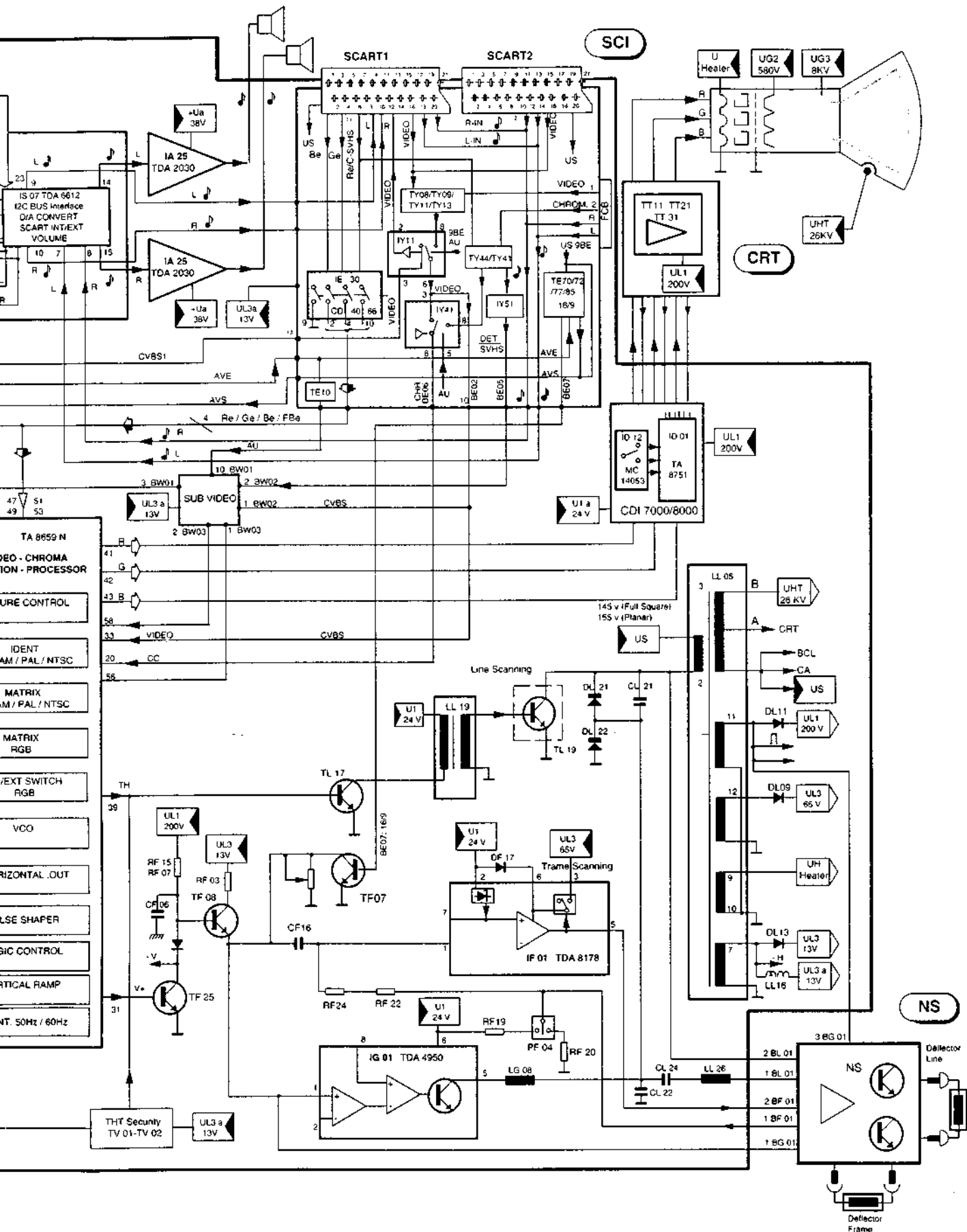
DVT LV 27	Oscillator Oscillateur Oszillator Oscilador Oscillatore	
NI LS 03 5,5MHz	Demodulation flywheel Volant de démodulation Demodulations-Schwungrad Bobina de desmodulación Bobina di demodulazione	
LS 04 5,74 MHz	Demodulation flywheel Volant de démodulation Demodulations-Schwungrad Bobina de desmodulación Bobina di demodulazione	

Pos.	Adj. / Rég. / Ein / Tara	Adjust to / Régler pour / Einstellen auf / Reglar para / Regolare su	
NS			
Mire de convergences 			
PG 32	Gullwing correction control Amplitude de correction aile de mouette Möwenflügel-Korrekturamplitude Amplitud de corrección ala de gaviota Ampiezza correzione ala di gabbiano	-1	PG 32  max
LG 39		-2	LG 39   Incorrect Falsche Incorrecto Scoretto  Correct Korrekt Correcto Coretto
LG 39		-3	PG 32   Incorrect Falsche Incorrecto Scoretto  Correct Korrekt Correcto Coretto
Crosshatch pattern 			
PG 79	Amplitude of North/South pincushion Amplitude Nord/Süd Nord/Süd Kissen Amplitude Amplitud de cojin Norte/Sur Ampiezza cuscino Nord/Sud	-1	PG 79  max
LG 84		-2	LG 84   Incorrect Falsche Incorrecto Scoretto  Correct Korrekt Correcto Coretto
LG 84		-3	PG 79   Incorrect Falsche Incorrecto Scoretto  Correct Korrekt Correcto Coretto
PG 63	Symmetry top and bottom Symétrie haut et bas Symmetrie oben unten Simetria alto bajo Simmetria alto basso		 Incorrect Falsche Incorrecto Scoretto  Correct Korrekt Correcto Coretto

III - BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBILD - ESQUEMA DE BLOQ



DE BLOQUES - SCHEMA A BLOCCHI (STEREO)



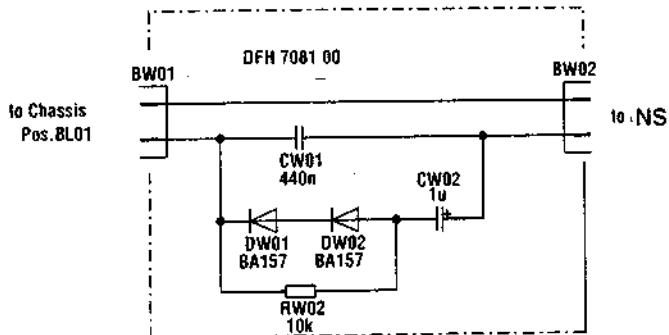
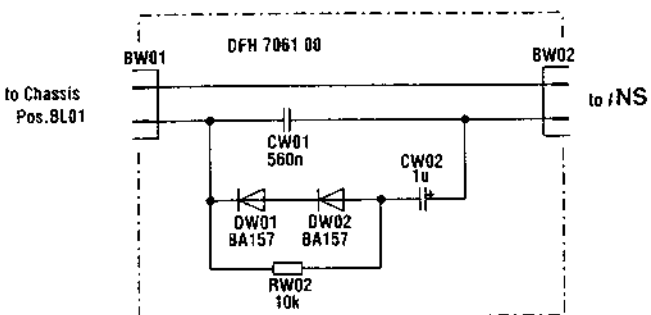
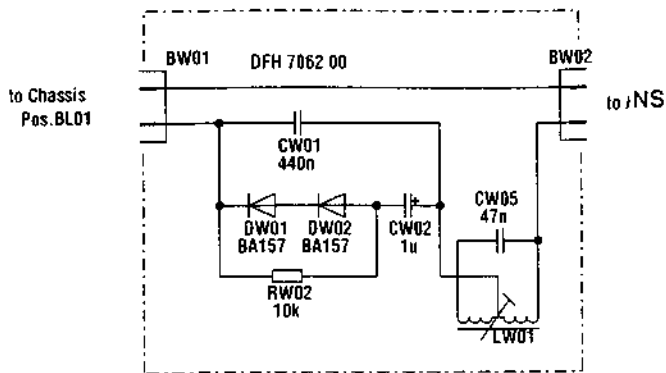
* - CPT PART LIST :SCAN (CIRCUIT)

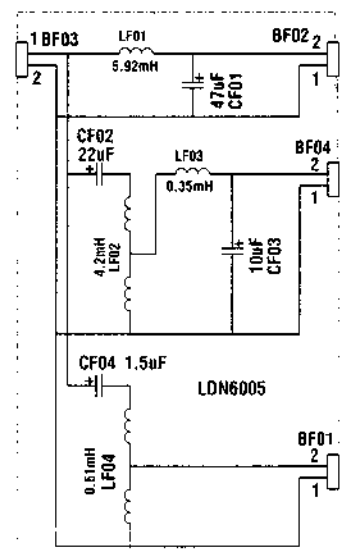
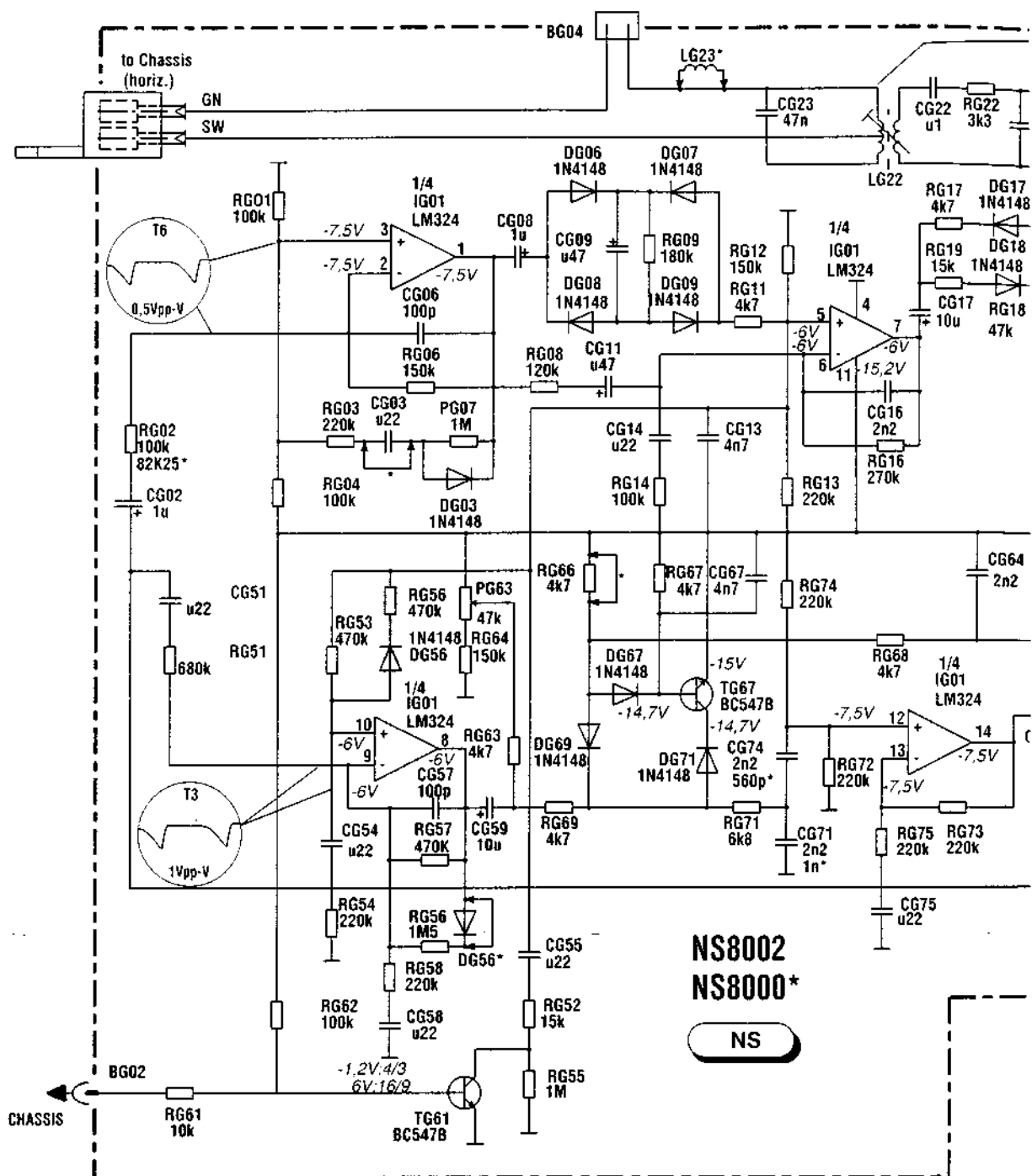
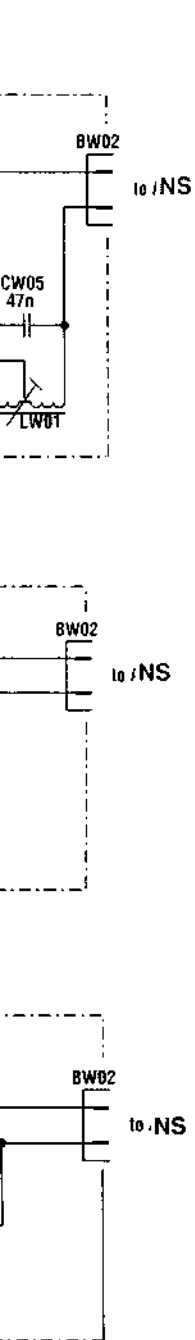
CRT	29" BSP	25" FS	25" MP	22" FST
CF 04	1 μF	1 μF	1 μF	1 μF
CG 05	47 nF	47 nF	47 nF	47 nF
CL 22	12 nF	20 nF	20 nF	20 nF
CL 24	1.5 μF	440 nF	1 μF	1 μF
CL 25	1 μF	1 μF	1 μF	1 μF
CL 27	220 nF	-	-	-
DL 26	BA 157	-	BA 157	BA 157
J 128	-	-	-	-
J 129	Strap	-	-	-
LG 08	oui	0	0	0
LL 05	oui	-	-	-
LL 06	-	30 μH	-	-
LL 23	-	-	-	46 μH
LL 26	30 μH	37.5 μH	37.5 μH	30 μH
RF 11	1 K	1 K	1 K	1 K
RF 16	12.7 K - 1%	17.8 K - 1%	17.8 K - 1%	12.7 K - 1%
RF 22	34.8 K - 1%	43.2 K - 1%	43.2 K - 1%	33.2 K - 1%
RF 24	33.2 K - 1%	48.7 K - 1%	48.7 K - 1%	38.3 K - 1%
RF 27	47 k	68 K	68 K	56 K
RG 07	270 K	270 K	270 K	270 K
RG 20	10 K	10 k	10 K	10 K
RG 21	10 K	-	-	-
RL 05	120 K	120 k	120 K	120 K
RL 21	680 M	680 M	680 M	680 M
RL 25	2.2 K	-	2.2 K	-
RL 27	-	560	560	560
RL 28	-	1 K	-	680
DFH 7081		DFH 7061	DFH 7062	DFH 7052
CW 01	440 nF	560 nF	440 nF	470 nF
CW 02	-	-	-	1 μF
CW 05	-	-	47 nF	-
DW 01	-	-	-	BA 157
DW 02	-	-	-	BA 157
LW 01	-	-	oui	-
RW 02	10 K	10 K	10 K	10 K

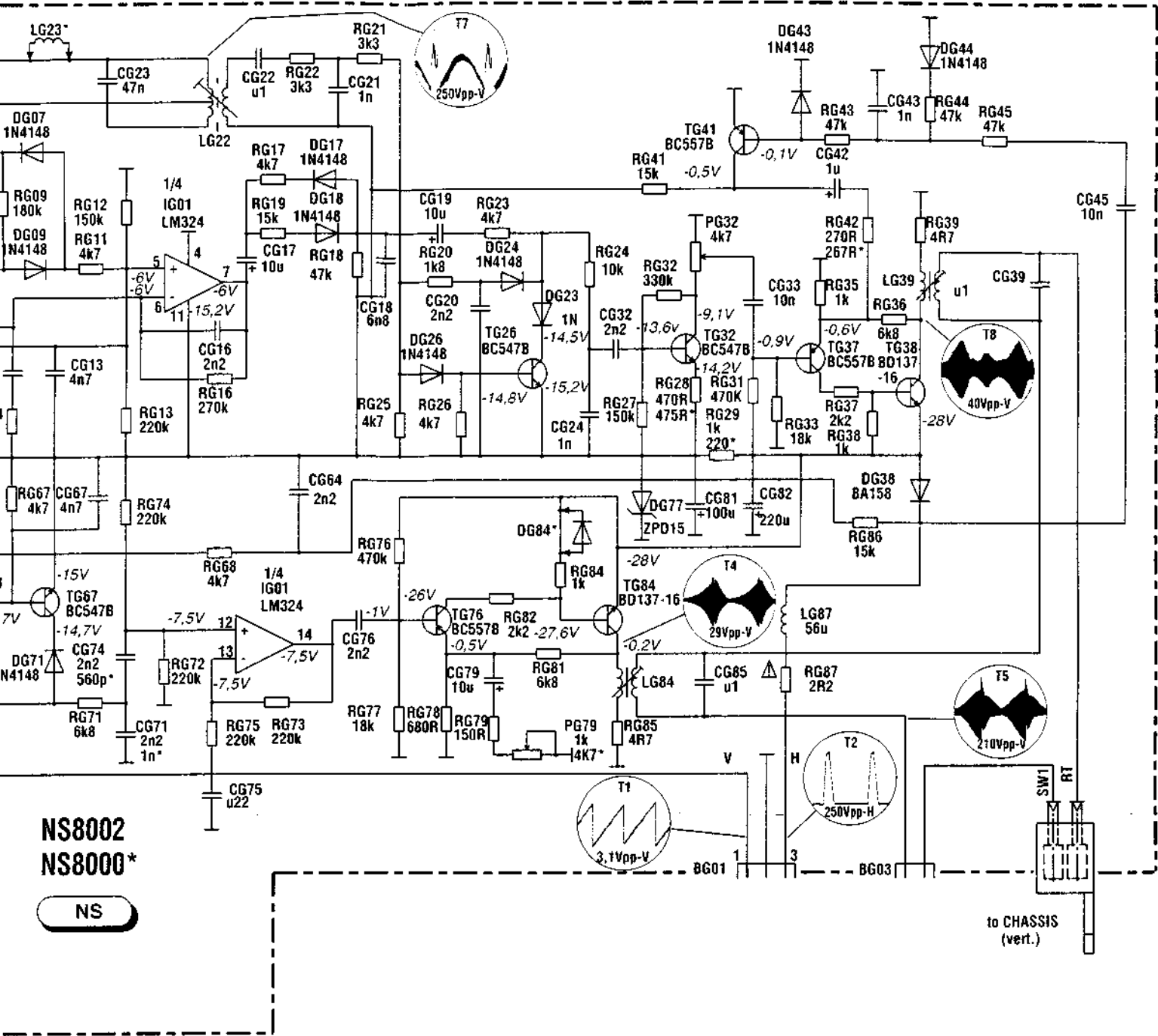
LL05	OREGA	ELDOR
CL 21	11 nF	11 nF
CL 23	6.8 nF	6.8 nF
RL 23	22Ω	22Ω
RL 30	1.2Ω	0.27Ω
LL 23	60 μH	54 μH

** - POWER SUPPLY (CIRCUIT)

	21" 110°	21" 110°	25" /28" /29" 110°	25" /28" /29" 110°
	Version (1)	Version (2)	Version (1)	Version (2)
TP 29	BUH 515	BUH 713	BUH 515	BUH 713
LP 36	401531-00	473100-01	401530-00	473100-02
RP 06	39 K	27 K	39 K	27 K
RP 18	47	22	47	22
RP 19	33	-	33	220
RP 21	4.7	10	4.7	10
RP 27	3.3 K	15 k	3.3 K	15 k
CP 16	220 nF	47 nF	220 nF	47 nF
CP 19	210 nF	330 nF	210 nF	330 nF
CP 22	470	1000 μF	470	1000
CP 28	330 pF	1 μF	330	1 μF
CP 29	3.3 nF	2.2	3.3 nF	2.2
DP 19	BA 157	-	BA 157	BA 157

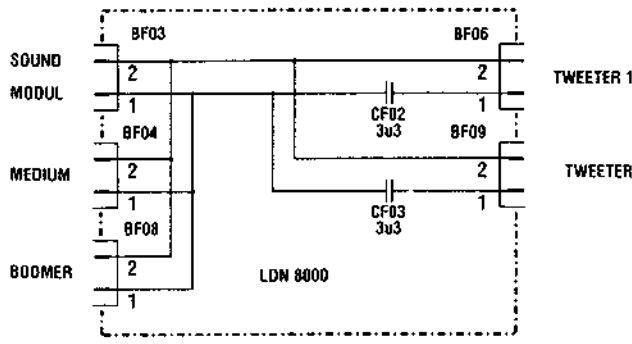
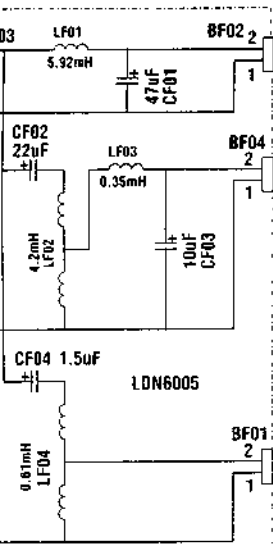




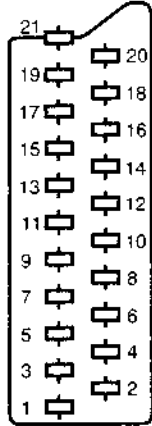


NS8002
NS8000*

NS



- This service manual is designed to be progressively enlarged and updated as and when necessary. The contents for chapter 1 indicate the various sections which it will eventually contain.
The page numbering system ensures that future publications can either be added to or substituted for existing pages.
- Dans le sommaire chapitre I sont énumérés les différents chapitres qui, à terme, constitueront cette documentation technique à caractère évolutif. Par notre système de numération des pages nos parutions à venir s'ajouteront ou se substitueront à celles existantes.
- Im Inhaltsverzeichnis von Kapitel I sind die verschiedenen Kapitel aufgeführt, aus denen die vorliegende technische Dokumentation bestehen wird, welche ständig auf dem letzten Stand gehalten wird.
Unser Seitennumerierungssystem wird dazu dienen, die später erscheinenden Seiten einzugliedern und die ungültig gewordenen herauszunehmen.
- En el sumario del capítulo I, se enumeran los diferentes capítulos que a plazo, constituirán esta documentación técnica que tiene un carácter evolutivo. Mediante nuestro sistema de numeración de las páginas, los próximos documentos se agregarán a, o sustituirán los existentes.
- Nell' indice del capitolo I sono elencati i differenti capitoli che alla fine costituiranno una documentazione tecnica a carattere evolutivo. In base al sistema di numerazione delle pagine, le future pubblicazioni si aggiungeranno o si sostituiranno a quelle esistenti.



NOTE : (MAIN) ... etc. : identifies each pcb modul.

NOTE : (MAIN) ... etc. ... repères des platines constituant l'appareil.

HINWEIS : (MAIN) usw. Kennzeichnungen der Platinen, aus denen das Gerät zusammengesetzt ist.

NOTA : (MAIN) ... etc. marcas de las placas que constituyen el aparato.

NOTA : (MAIN) ... ecc. indicazioni delle piastre che costituiscono l'apparecchio.

	ENGLISH	FRANÇAIS	DEUTSCH	ESPAÑOL	ITALIANO
1	AUDIO "R"	AUDIO "D"	AUDIO "R"	AUDIO "D"	AUDIO "D"
2	AUDIO "R"	AUDIO "D"	AUDIO "R"	AUDIO "D"	AUDIO "D"
3	AUDIO "L"	AUDIO "G"	AUDIO "L"	AUDIO "I"	AUDIO "S"
4	AUDIO	AUDIO	AUDIO	AUDIO	AUDIO
5	"BLUE"	"BLEU"	"BLAU"	"AZUL"	"BLU"
6	AUDIO "L" MONO	AUDIO "G" MONO	AUDIO "L" MONO	AUDIO "I" MONO	AUDIO "S" MONO
7	"BLUE"	"BLEU"	"BLAU"	AZUL	BLU
8	SLOW SWITCH	COMMUT LENTE	LANGSAMUMS CHALTUNG	"COMUTACION LENTA"	"COMMUTAZIONE LENTA"
9	"GREEN"	"VERT"	"GRÜN"	"VERDE"	"VERDE"
10	NC				
11	"GREEN"	"VERT"	"GRÜN"	"VERDE"	"VERDE"
12	NC				
13	"RED"	"ROUGE"	"ROT"	"ROJA"	"ROSSO"
14	NC				
15	"RED"	"ROUGE"	"ROT"	"ROJA"	"ROSSO"
16	FAST SWITCH	COMMUT RAPIDE	SCHNELLUMS CHALTUNG	"COMUTACION RAPIDA"	"COMMUTAZIONE RAPIDA"
17	VIDEO	VIDÉO	VIDÉO	VIDÉO	VIDÉO
18	FAST SWITCH	COMMUT. RAPIDE	SCHNELLUMS CHALTUNG	"COMUTACION RAPIDA"	"COMMUTAZIONE RAPIDA"
19	VIDEO	VIDEO	VIDEO	VIDÉO	VIDÉO
20	VIDEO OR "SYNC"	VIDEO SYNCHRO	VIDEO ODER SYNCHRO	VIDEO O SINCRIO	VIDEO O SINCRIO
21	PLUG SCREEN BOX	BLINDAGE FICHE	ABSCHIRMUNG DES STECKERS	BLINDAJE DEL ENCHUFE	ARMATURA DELLA SPINA

➔ : OUTPUT - SORTIE - AUSGANG - SALIDA - USCITA

⊕ : INPUT - ENTRÉE - EINGANG - ENTRADA - ENTRATA

⊥ : EARTH - MASSE - MASSE - MASA - MASSA

MEASUREMENT CONDITIONS - CONDITIONS DE MESURES - MESSBEDINGUNGEN CONDICIONES DE MEDIDAS - CONDIZIONI DI MISURA

RECEIVER : On UHF input level : 1 mV, bar test pattern
- PAL, I standard, 100% white.

Via the scart socket, input level : 1 VDC, bar test pattern.

Colour, contrast and brightness at mid-position, sound at minimum.
Programme selected : PR 01.

DC voltages measured between the point and earth using a digital voltmeter.

RECEPTEUR : En UHF, niveau d'entrée 1 mV mire de barres
- SECAM, Norm L, Blanc 100%.

Par la prise Péritelvision, niveau d'entrée 1 Vcc, mire de barres

Couleur, contraste, lumière à mi-course, son minimum.
Programme affecté PR 01

Tensions continues relevées par rapport à la masse avec un voltmètre numérique.

EMPFÄNGER : Bei UHF Eingangsspegel 1 mV, Stabprüfbild
- PAL, Norm G, Weiss 100%

Durch die Peritel-Steckdose : Eingangsspegel 1 V GS, Prüfbild :

Farbe, Kontrast, Licht in der Mitte des Bereichs, Ton auf Minimum.
Zugeordnetes Programm PR 01

Gleichspannungen mit einem digitalen Voltmeter zur Masse gemessen.

RECEPTOR : En UHF, nivel de entrada 1 mV, mira de barras :
- PAL, norma G, blanco 100%.

Per la toma Peritelvision, nivel de entrada 1 Vcc mira de barra

Color, Contraste, luz a mitad de carrera, Sonido mínimo.
Programa afectado PR 01.

Tensiones continuas marcadas en relación a la masa con un voltmetro digital.

RICEVITORE : In UHF, livello d'entrata 1 mV, monocoppio per barre :
- PAL, norma G, bianco 100%.

Per la presa SCART, livello d'entrata 1 Vcc, monocoppio per barre :

Color, Contrasto, luce a metà corsa, Suono minimo
Programma designato PR 01

Tensioni continue rilevate par rispetto alla massa con un voltmetro numerico



⚠ Indicates critical safety components, and identical components should be used for replacement.

Le remplacement des éléments de sécurité (repérés avec le symbole ⚠) par des composants non homologués selon la Norme CEI 65 entraîne la non-conformité de l'appareil.
Dans ce cas, la responsabilité du fabricant n'est plus engagée.

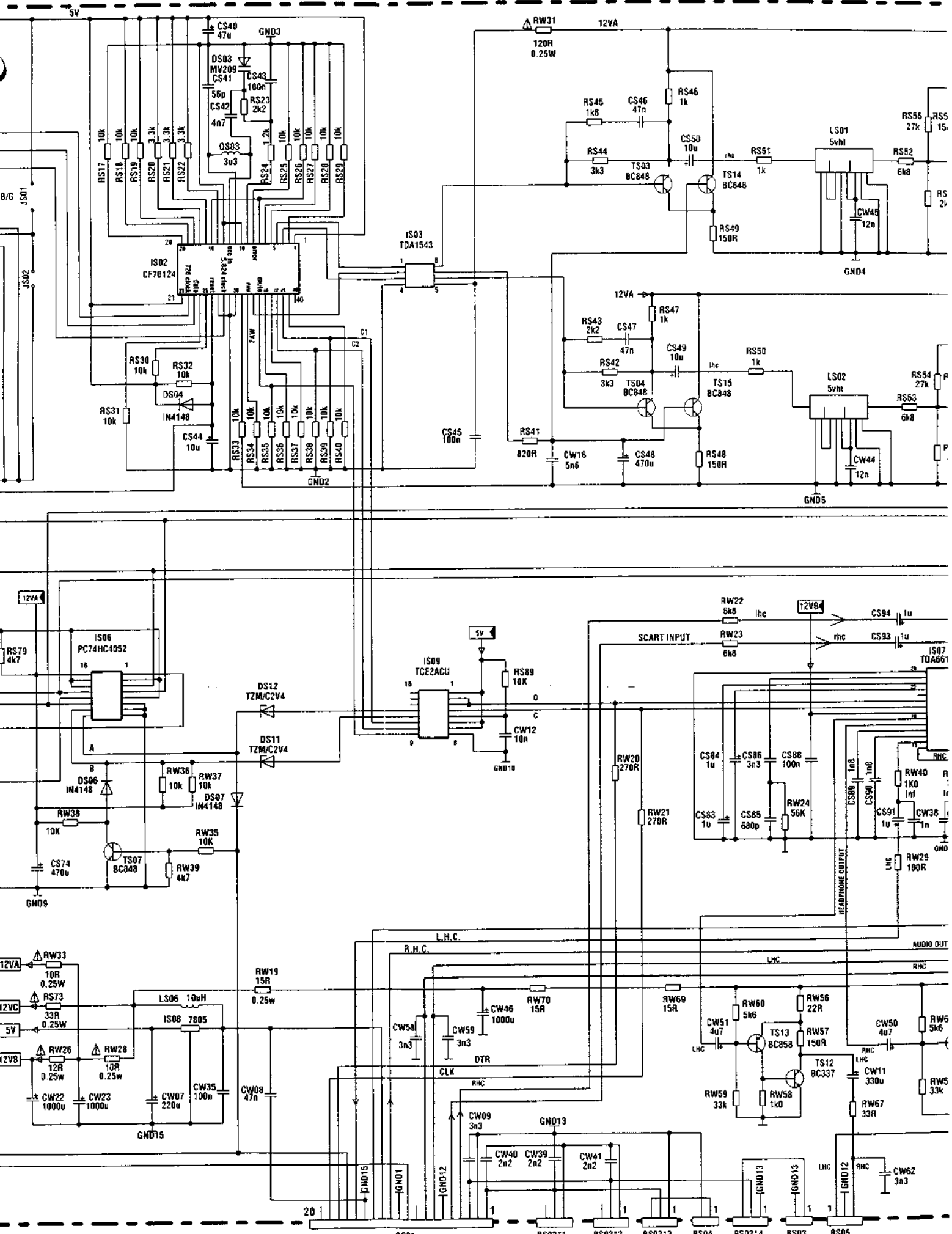
Wenn Sicherheitsteile (mit dem Symbol ⚠ gekennzeichnet) durch nicht normengerechte Teile ersetzt werden, erlischt die Haftung des Herstellers

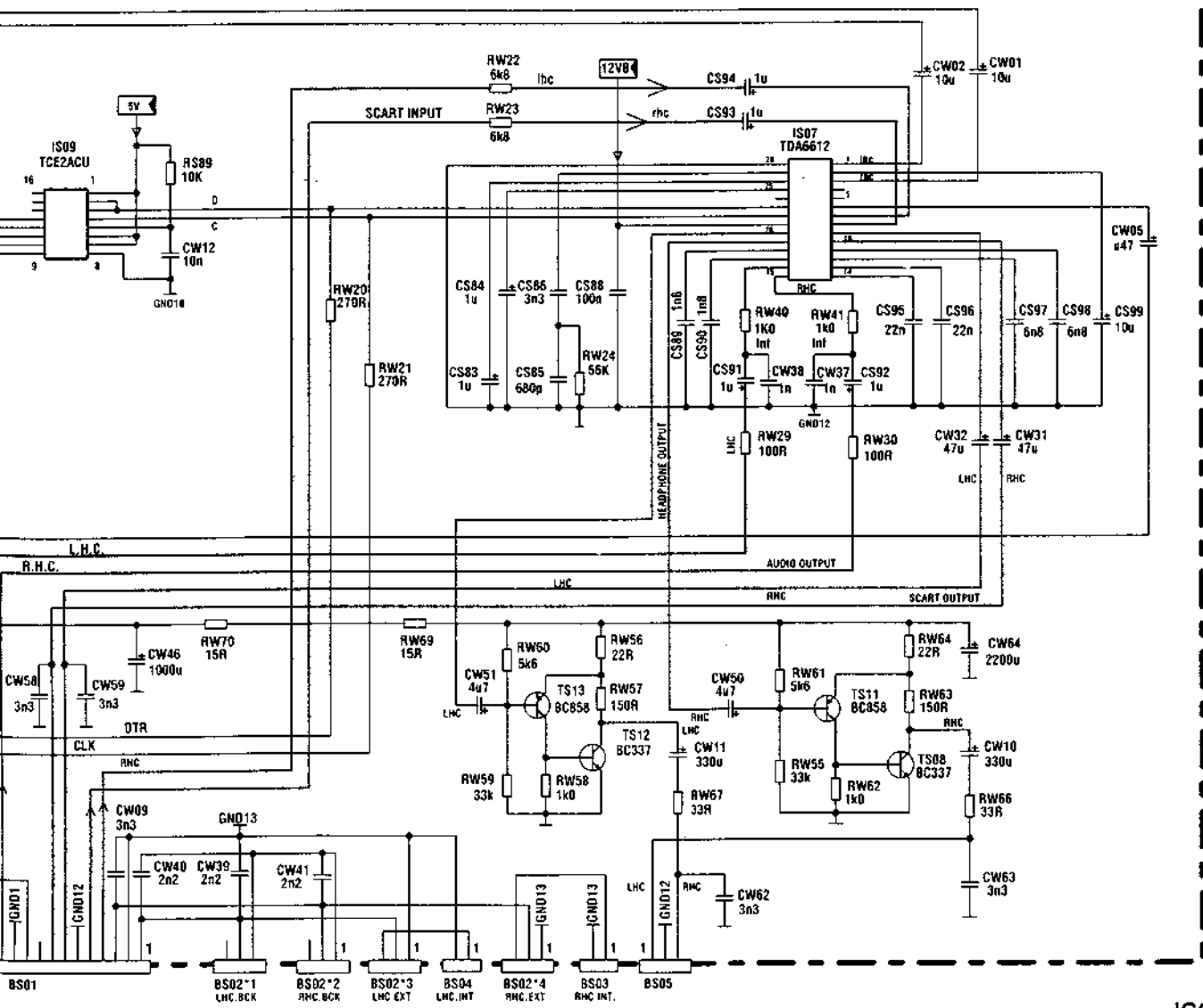
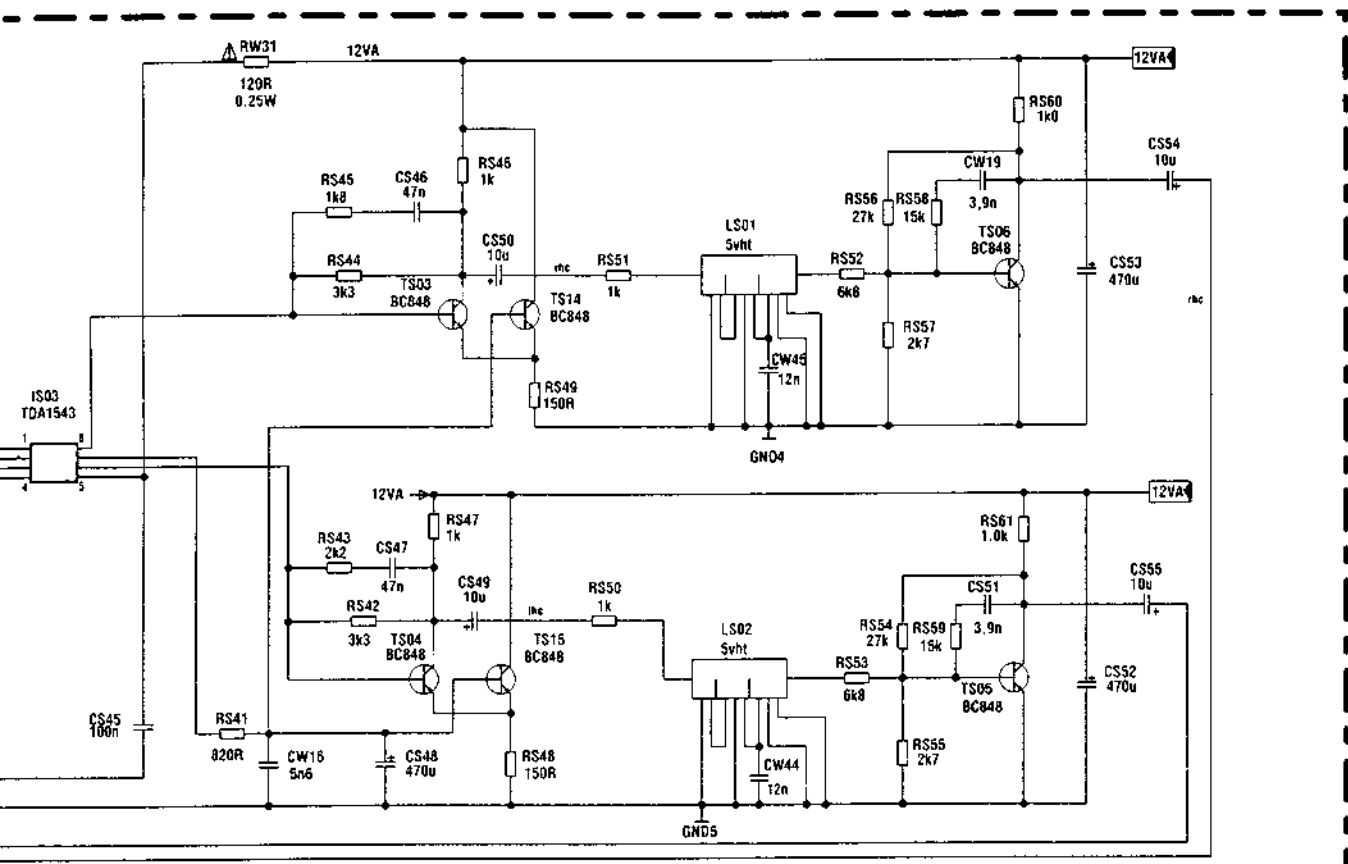
La sostituzione di elementi di sicurezza (marcati con il simbolo ⚠) per componenti non omologati secondo la norma CEI 65, provoca la non conformità del apparecchio.

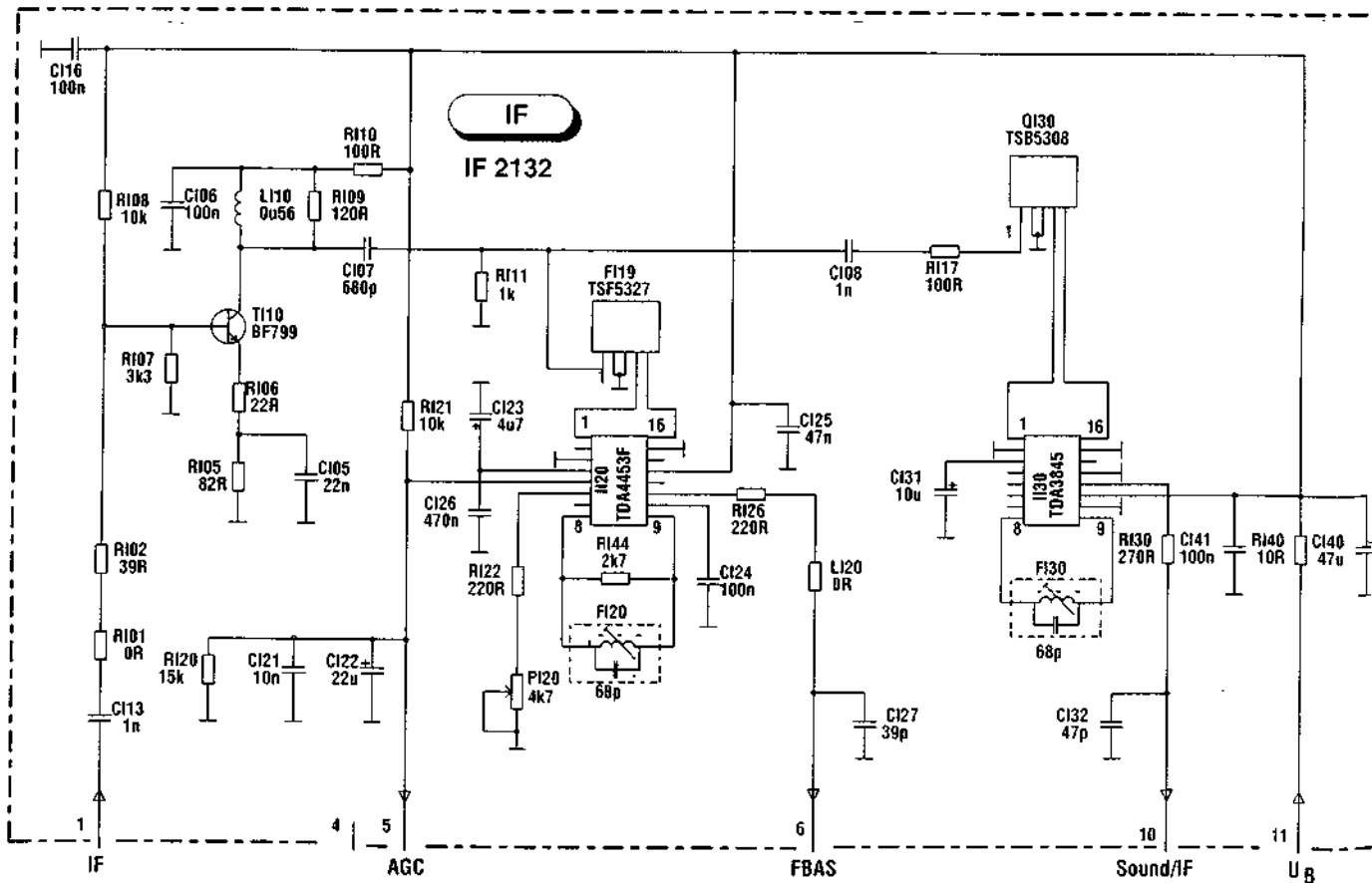
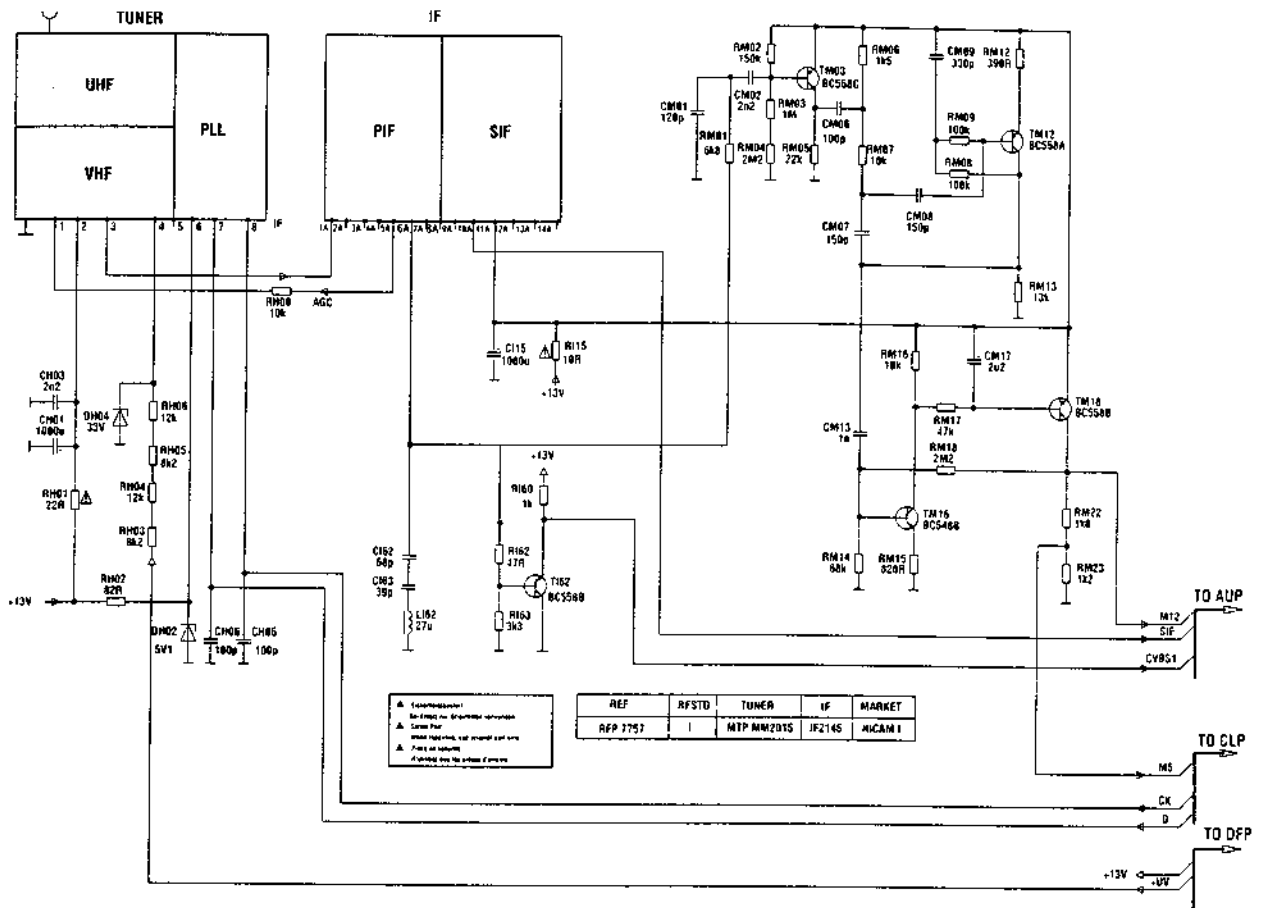
En ese caso, el fabricante cesa de ser responsable

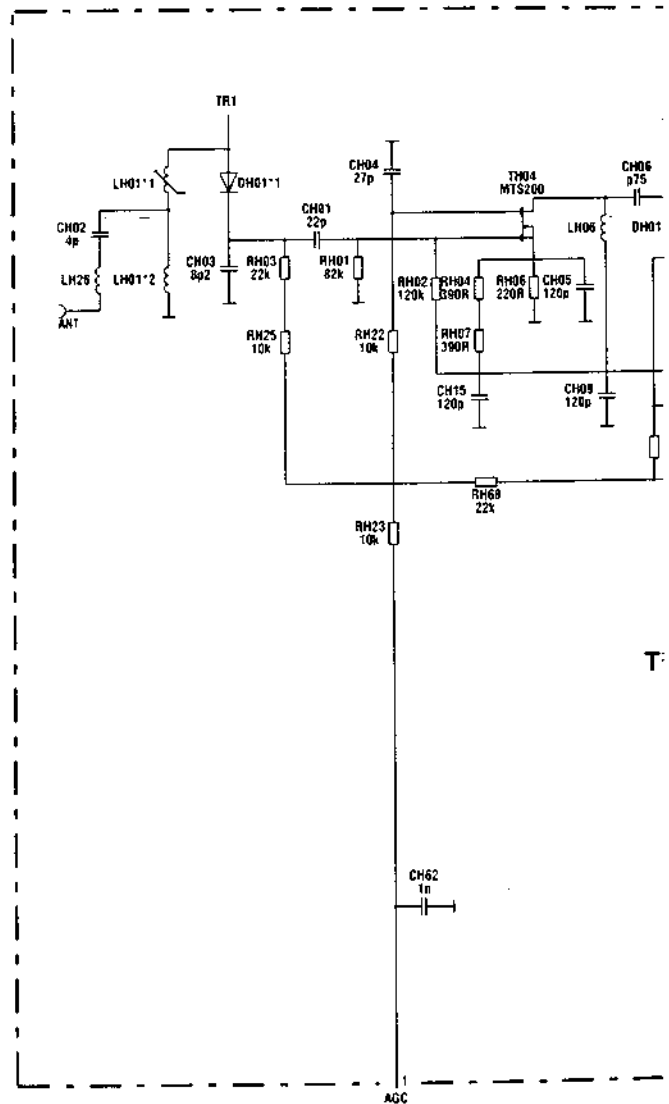
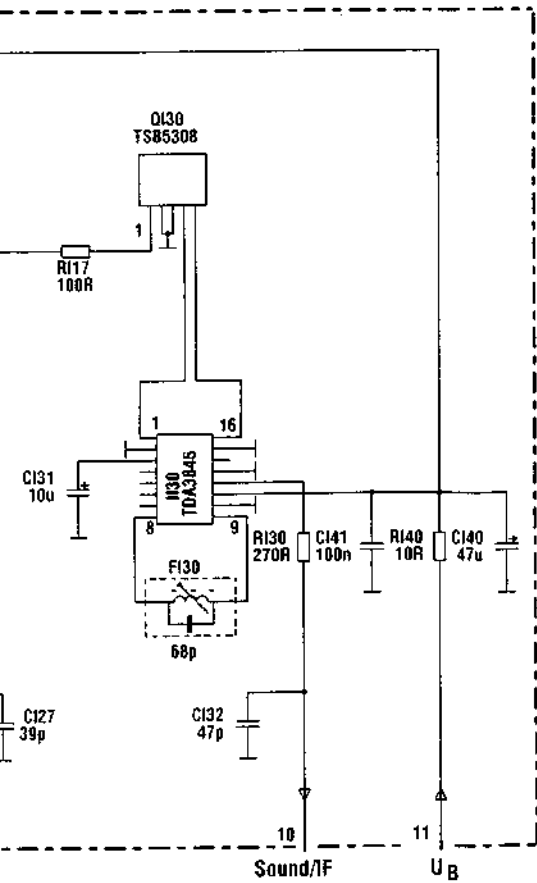
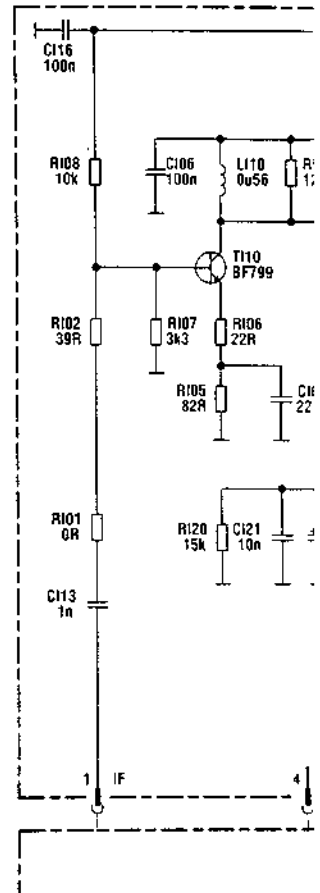
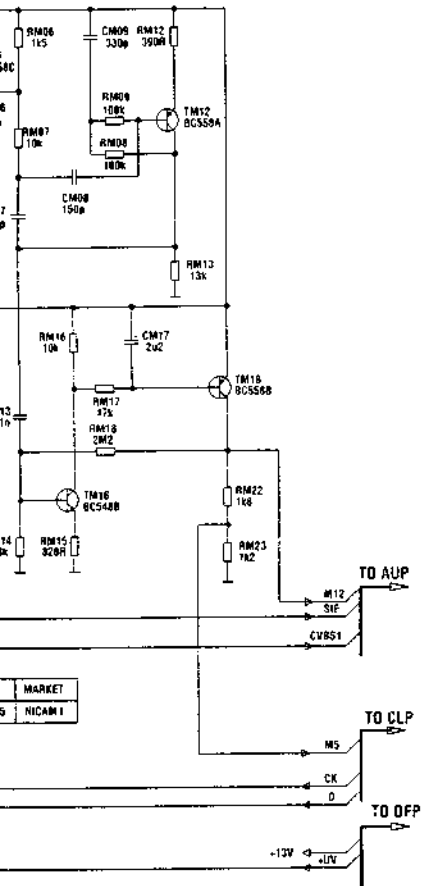
La sostituzione degli elementi di sicurezza (marcati con il segno ⚠) con componenti non omologati secondo la norma CEI 65 comporta la non conformità dell'apparecchio.

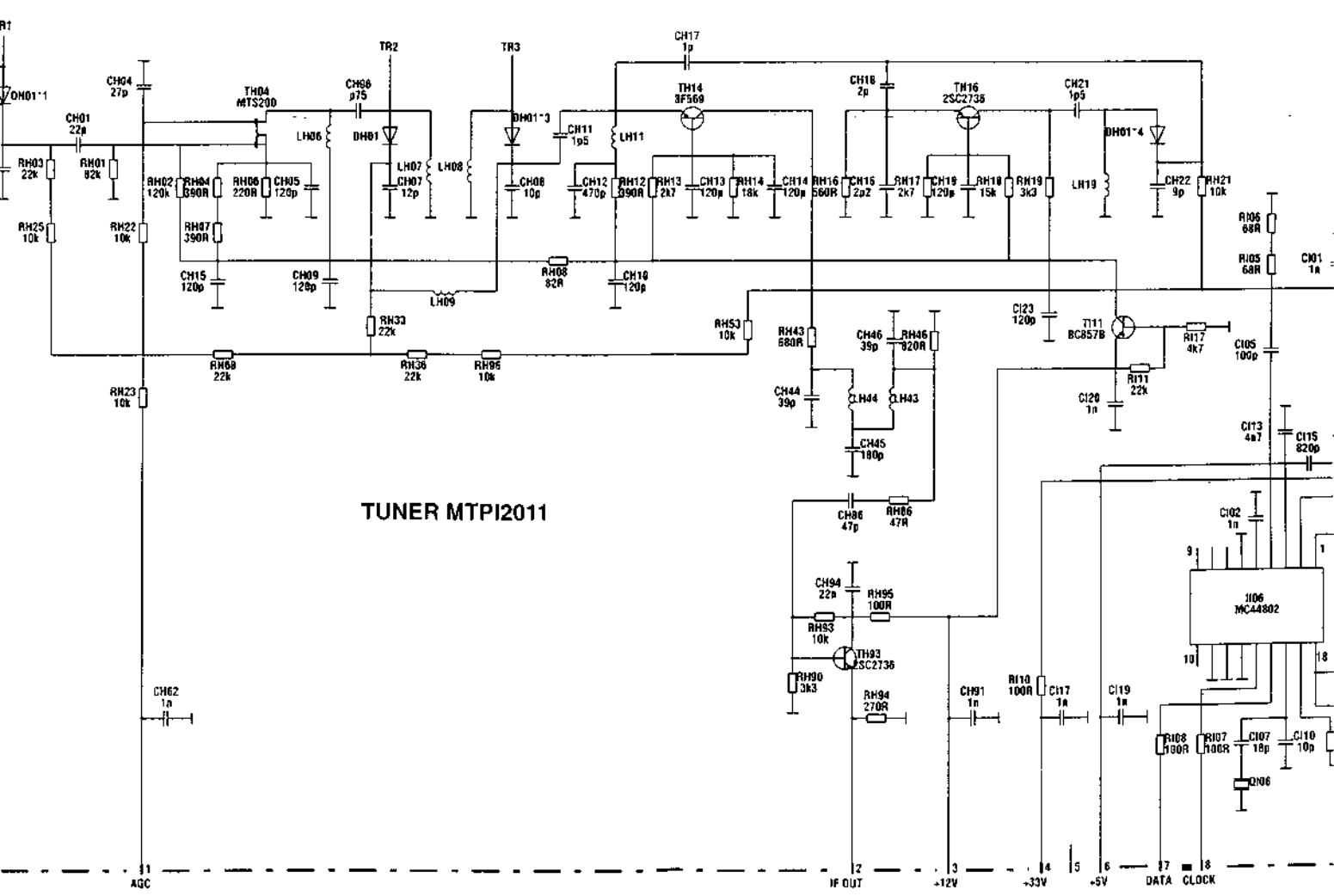
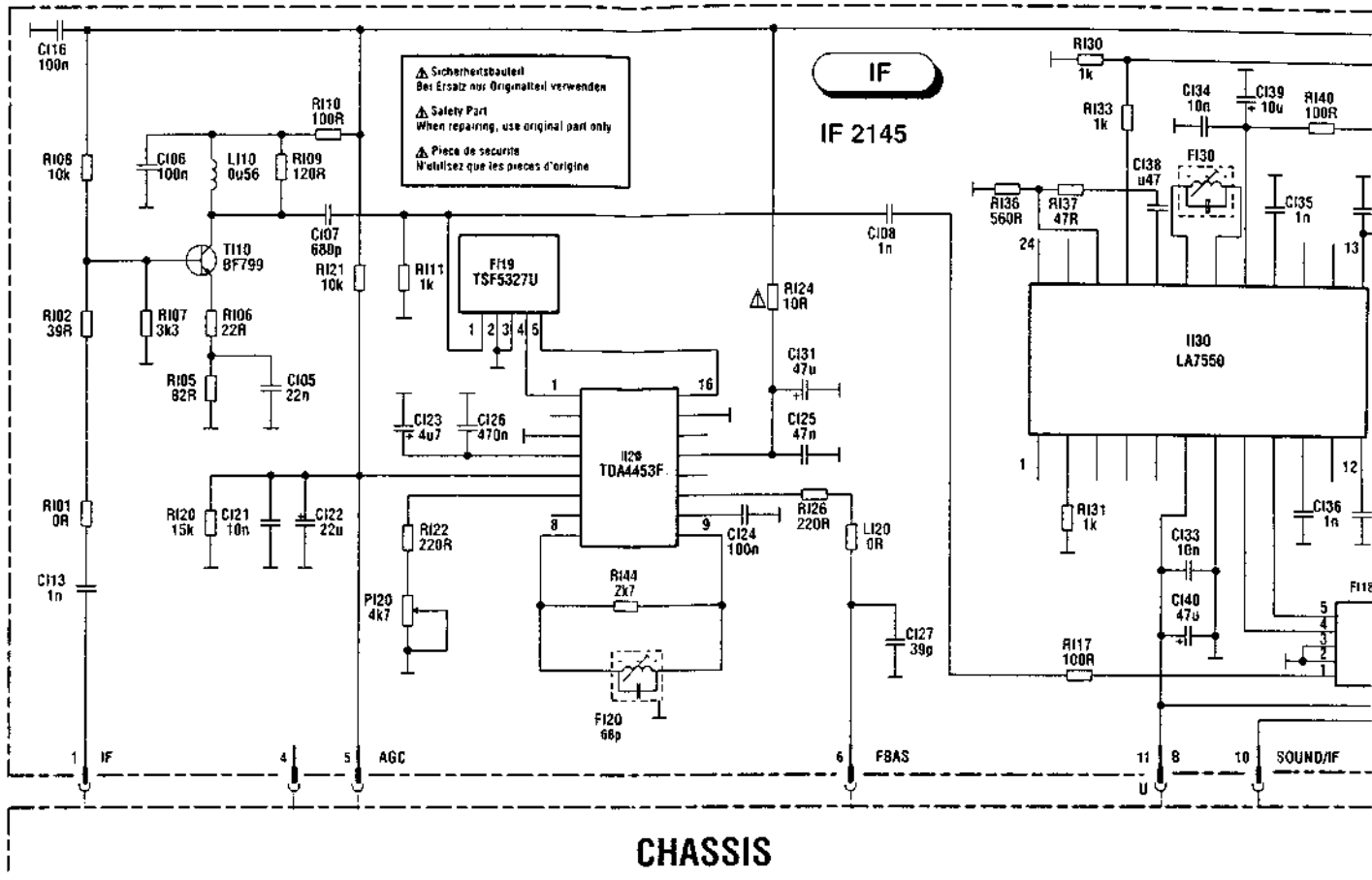
In tal caso e' esclusa la responsabilita' al costruttore.





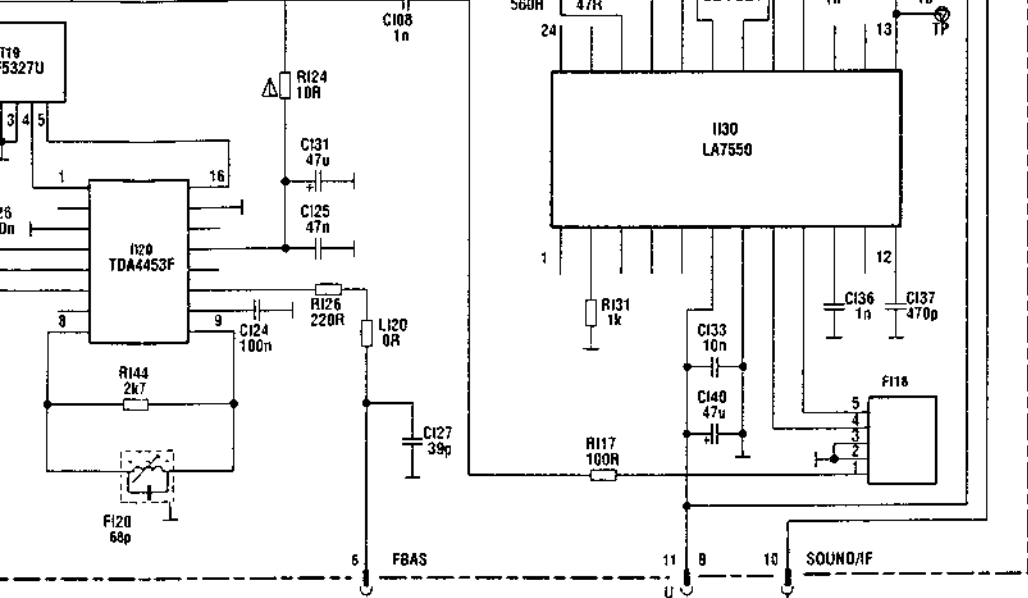




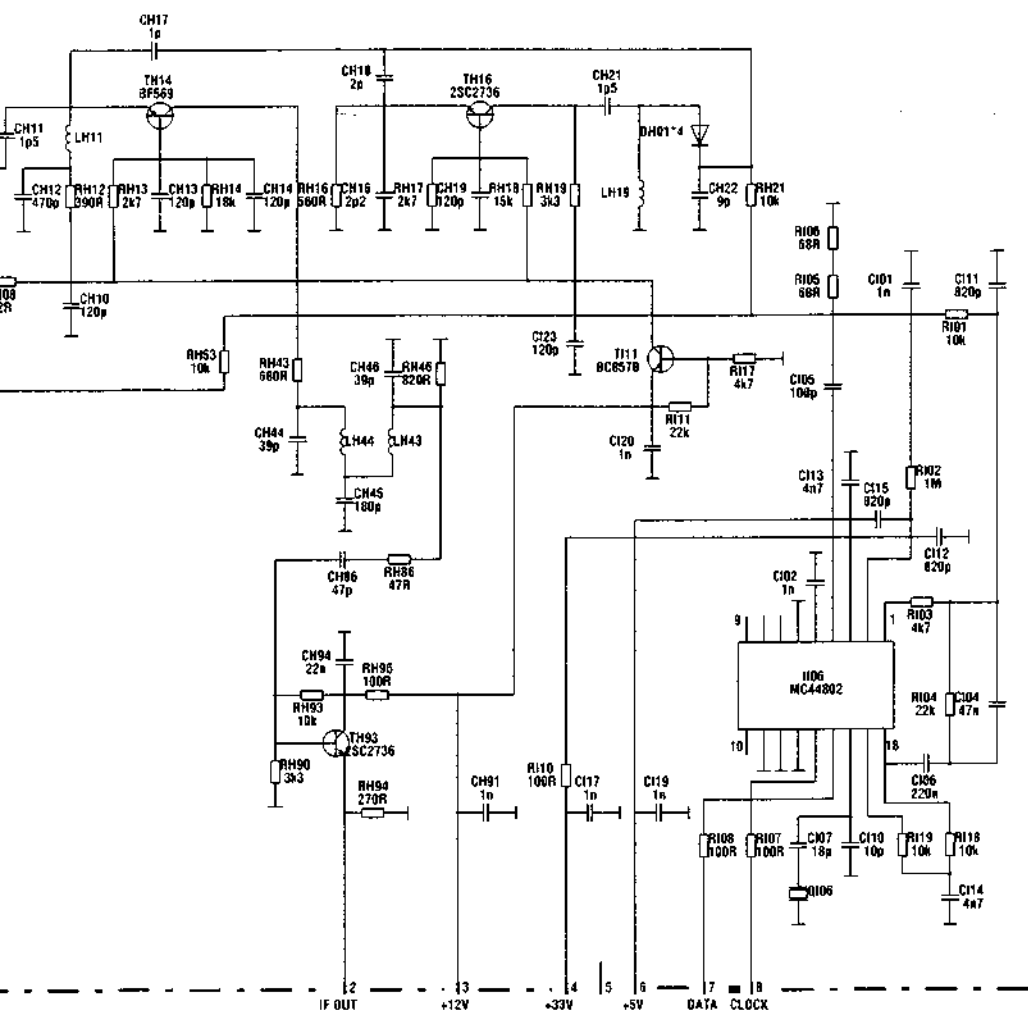


alleil
 Originalteil verwenden
 use original part only
 partie
 as pieces d'origine

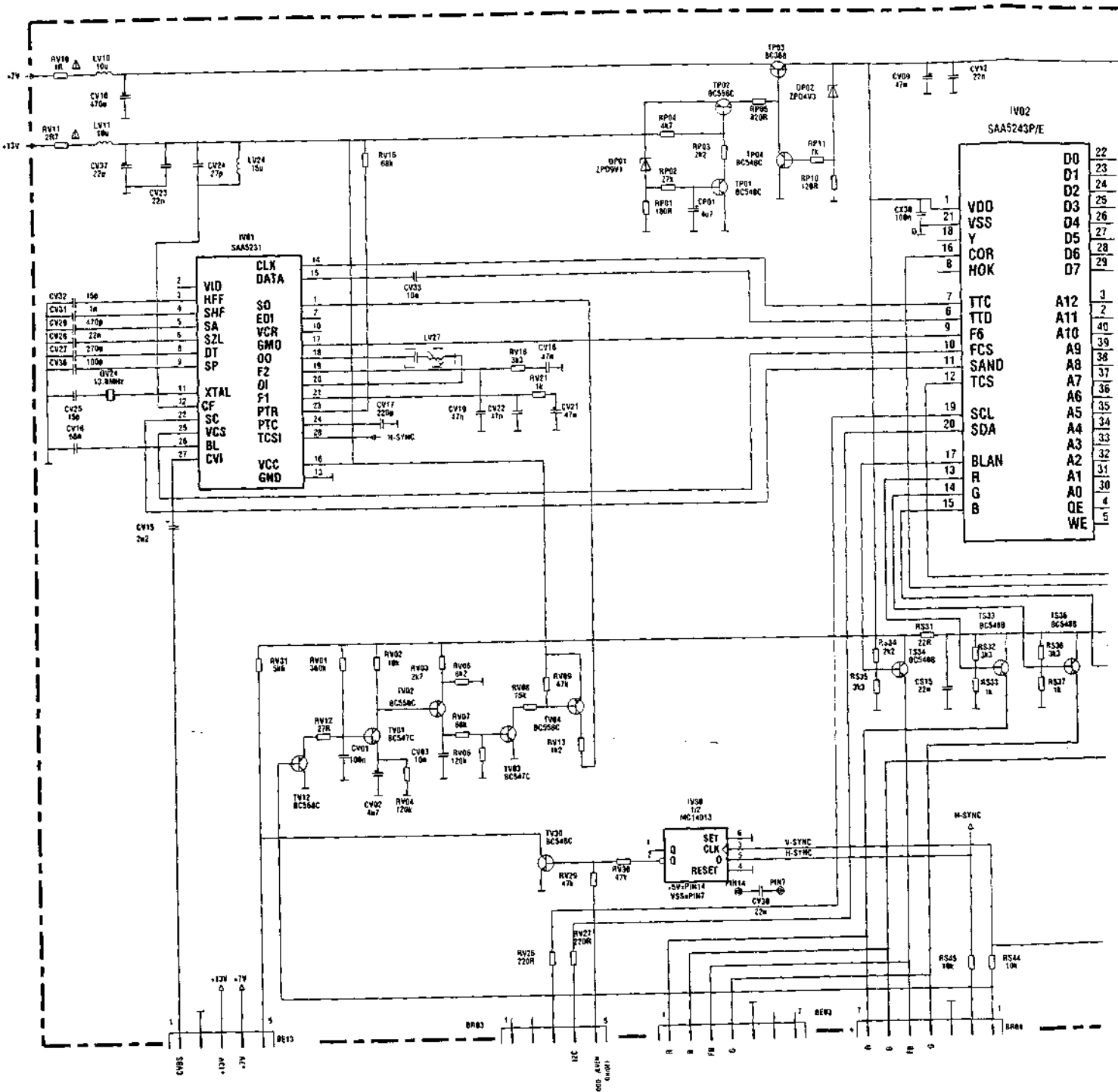
IF
IF 2145

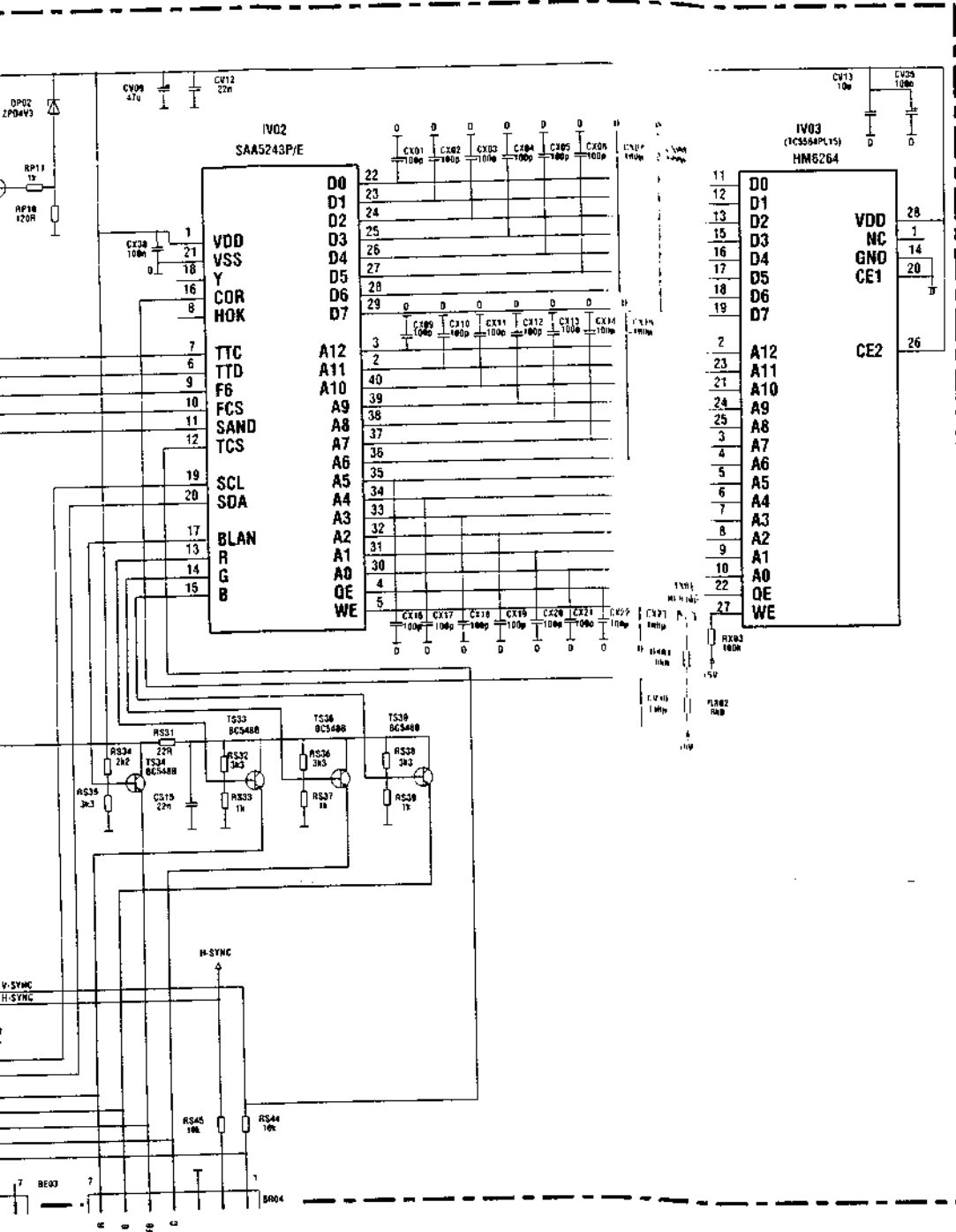


CHASSIS

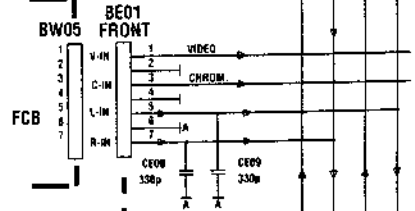
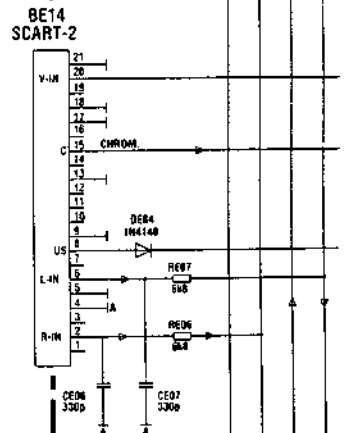
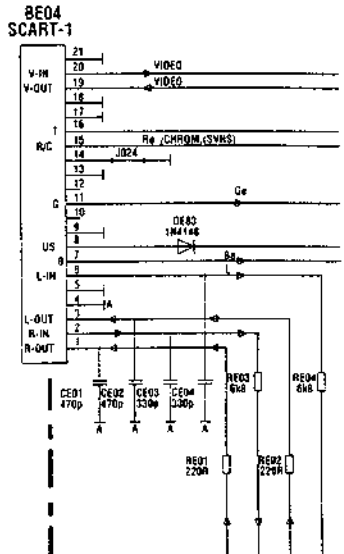


DVT DVT 7000





⚠ Sécurité
 Bei Einsatz nur Original verwenden
 ⚠ Safety Part
 When replacing, use original part only
 ⚠ Pièces de rechange
 Utiliser que les pièces d'origine



LIST OF ABBREVIATIONS USED
LISTE DES ABREVIATIONS
ERKLÄRUNG DER ABKÜRZUNGEN
LISTA DE ABREVIATURAS EMPLEADAS EN LOS ESQUEMAS
ELENCO DELLE ABBREVIAZIONI UTILIZZATE

A1 : Low frequency (audio) internal signal
 Signal démodulé (audio)
 Ton NF-Signal
 Señal de baja frecuencia (sonido) interna
 Segnale a bassa frequenza (audio) interno



AF : Low frequency (audio) exterior signal
 Signal basse fréquence audio externe
 Ton NF-Signal
 Señal de baja frecuencia (sonido) externo
 Segnale a bassa frequenza (audio) esterno

AF1 : Low frequency (audio) internal signal
 Signal démodulé (audio)
 Ton NF-Signal
 Señal de baja frecuencia (sonido) interna
 Segnale a bassa frequenza (audio) interno



AUE : Exterior audio-visual switching
 Commande de commutation audio-visuel
 extérieur
 Audio/Video-Fremdeingangs-Umschaltung
 Mando de conmutacion audiovisual externo
 Comando di commutazione audiovisuale
 esterno

AVS : Scart socket slow switching
 Commande commutation lente prise
 péritelévision
 Langsame Umschaltung Euro-AV-Buschse
 Conmutacion redfred toma peritelevision
 Commutazione lente presa peritelevisione

B' : Regulation and switching power supply command
 signal
 Signal de commande de l'alimentation à
 découpage et régulation
 Steversignal desSchaltnetzeils und Regulierung
 Señal de mando de la alimentacion ondulator y
 regulacion
 Segnale di comando alimentazione a
 sezionamento e regolazione

BCL : Ray current maesurement
 Mesure du courant de faisceaux
 Strahlstrom-Messung
 Medida de corriente de haces
 Misura di corrente di fascio

BD1 : Intermedia B I.L' frequency switching
 Commutation de la fréquence intermediaire B I.L'
 Umschaltung der ZF des B I.L'
 Conmutacion de la frecuencia B I.L'
 Commutazione frequenza intermedia B I.L'

CVBS : Receiver video (internal) - SCI / DVT
 Vidéo du récepteur (interne) - SCI / DVT
 Internes FBAS-Signal - SCI / DVT
 Video del receptor (interna) - SCI / DVT
 Video ricevitore (interno) - SCI / DVT

CVBS1 : Receiver video (internal) - IF...
 Vidéo du récepteur (interne) - IF...
 Internes FBAS-Signal - IF...
 Video del receptor (interna) - IF...
 Video ricevitore (interno) - IF...

IF : Intermedia frequency
 Fréquence intermédiaire
 ZF
 Frecuencia intermedia
 Frequenza intermedia

- H : Line return pulse
 Impulsion de retour ligne
 Zeilerücklauf-Impuls
 Impulso de retorno linea
 Impulso di ritorno linea

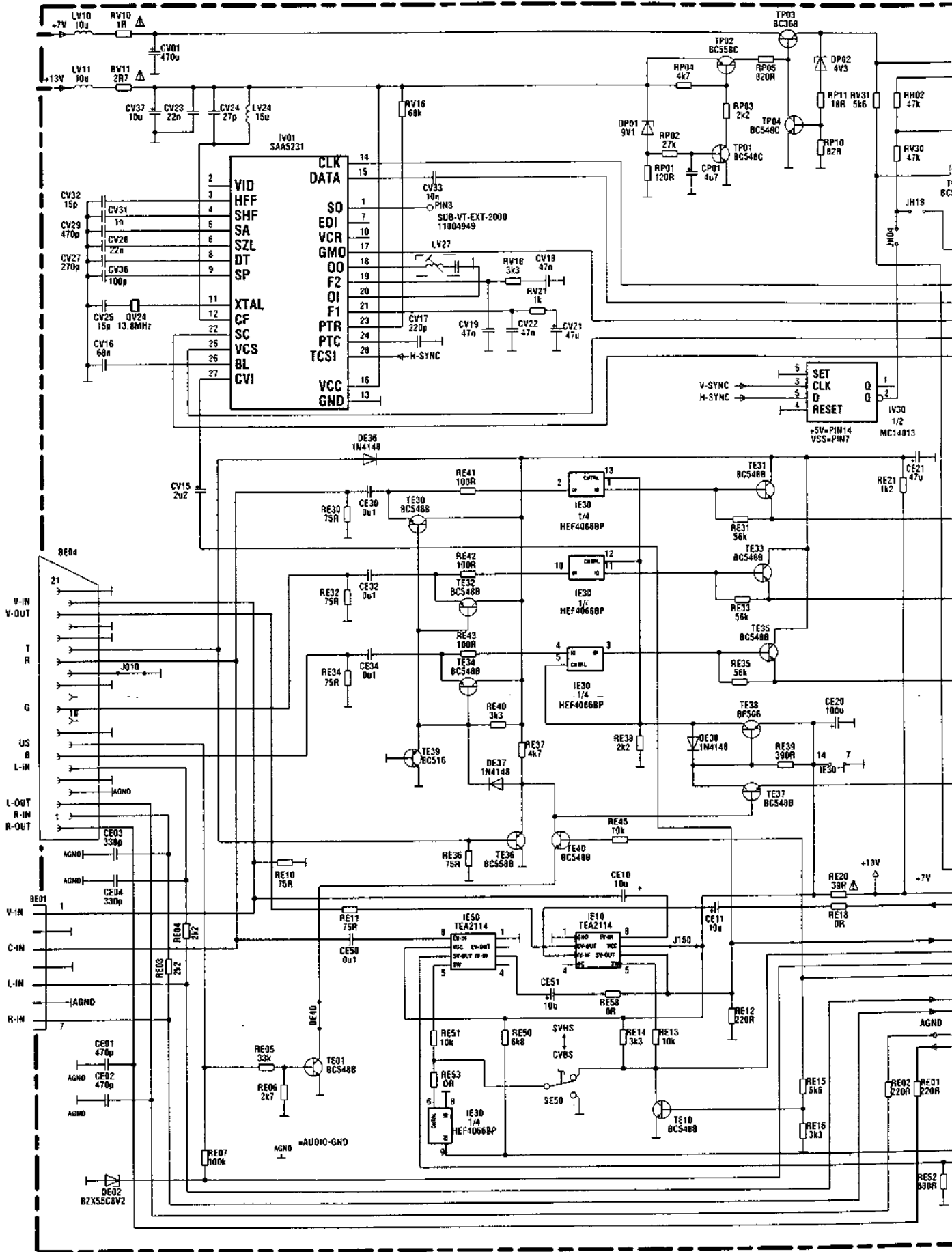
MUTE : Mute control and probe stop
 Commande silencieux son et arrêt de la
 recherche
 Signal der Tonunterdrückung und Suchlauf-Stop
 Mando silenciamiento sonido y parada de
 busqueda
 Comando esclusione audio e interruzione
 ricerca

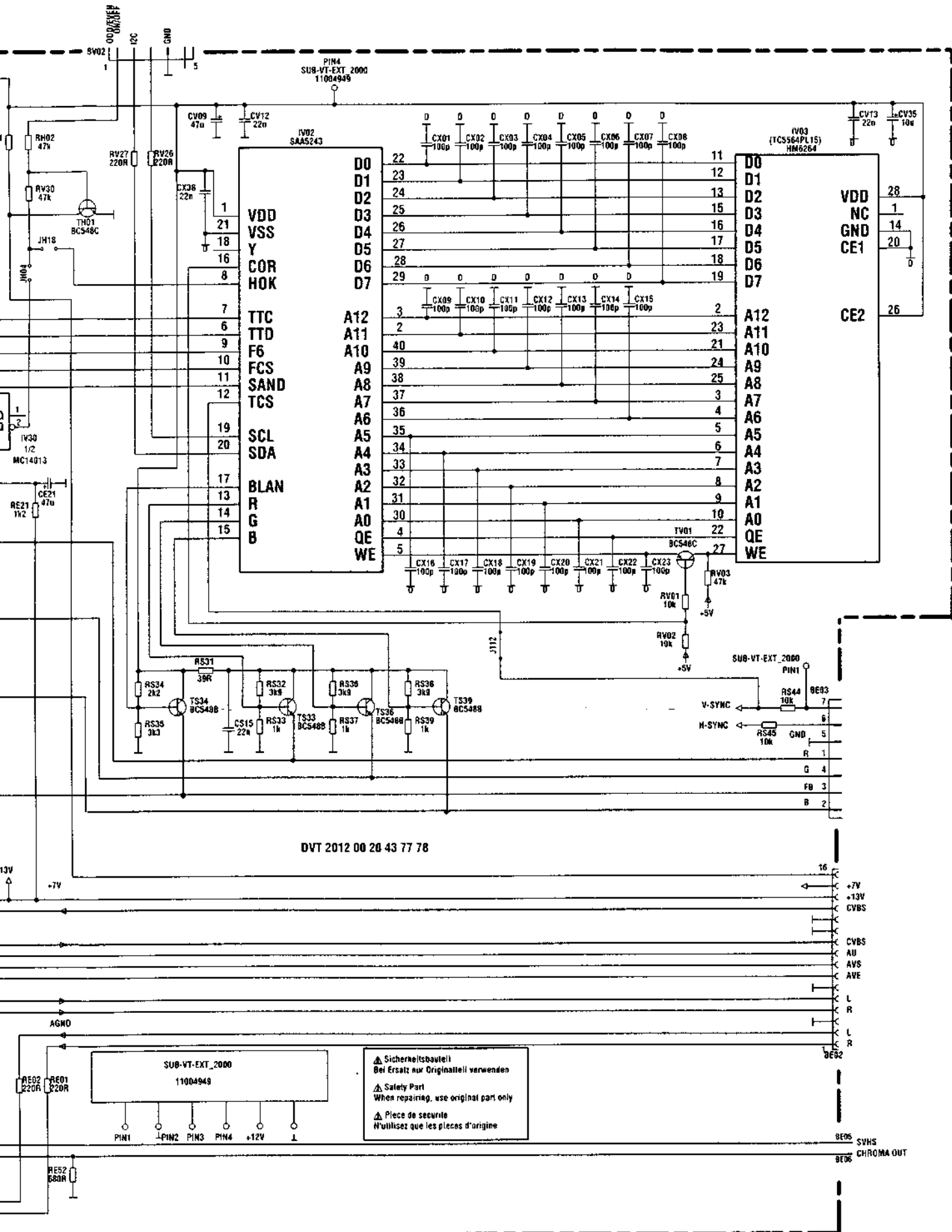
P : IV01 (TA 8659 N) intergrated circuit supply
 Alimentation du circuit intégré IV01 (TA 8659 N)
 Speisspannung des IC- IV01 (TA 8659 N)
 Alimentacio circuito intergrado IV01 (TA 8659 N)
 Alimentazione circuito integrato IV01 (TA 8659 N)

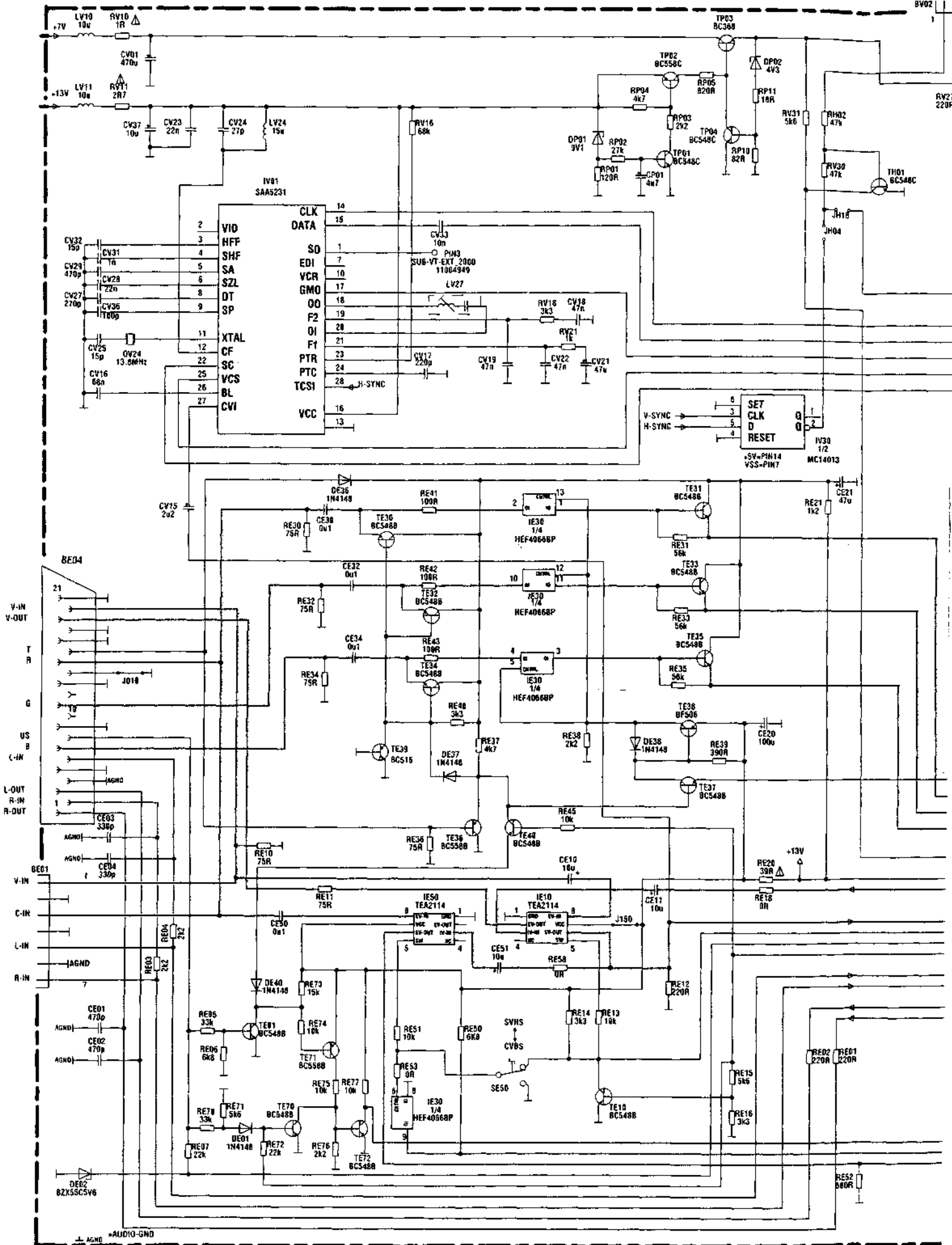
STD : Norm switching
 Commutation de normes
 Empfangsnorm-Umschaltung
 Conmutacion de norma
 Commutazione di norma

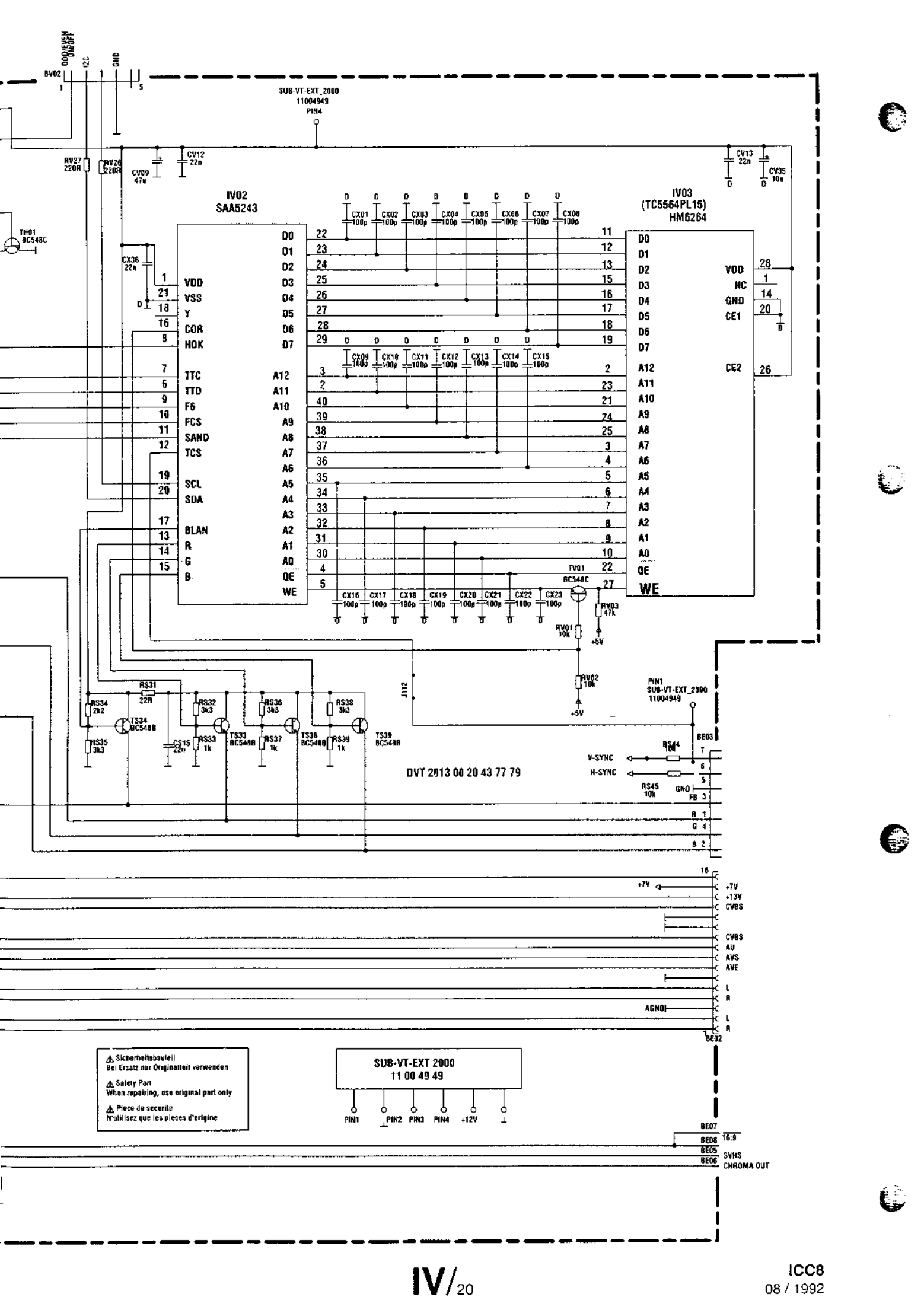
- V : Vertical pulse
 Impulsion verticale
 Vertikal-Impuls
 Impulso verical
 Impulso verticale

TH : Line pulse
 Impulsion ligne
 Horizontal-Impuls
 Impulso linea
 Impulso linea

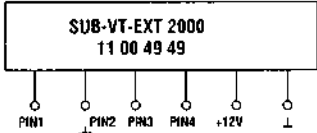








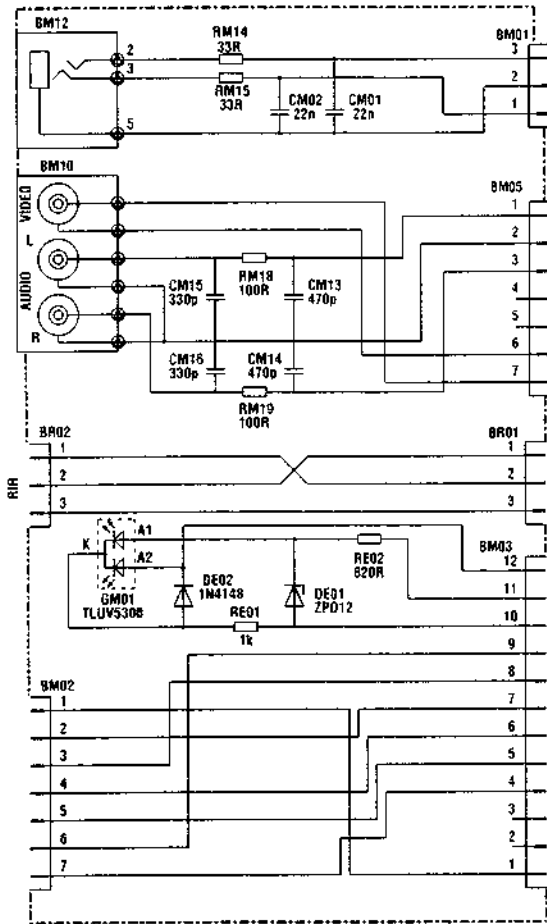
⚠ Sicherheitsbauteil
 Bei Ersatz nur Originalteil verwenden
 ⚠ Safety Part
 When repairing, use original part only
 ⚠ Piece de securite
 N'utilisez que les pieces d'origine



DVT 2013 00 20 43 77 79

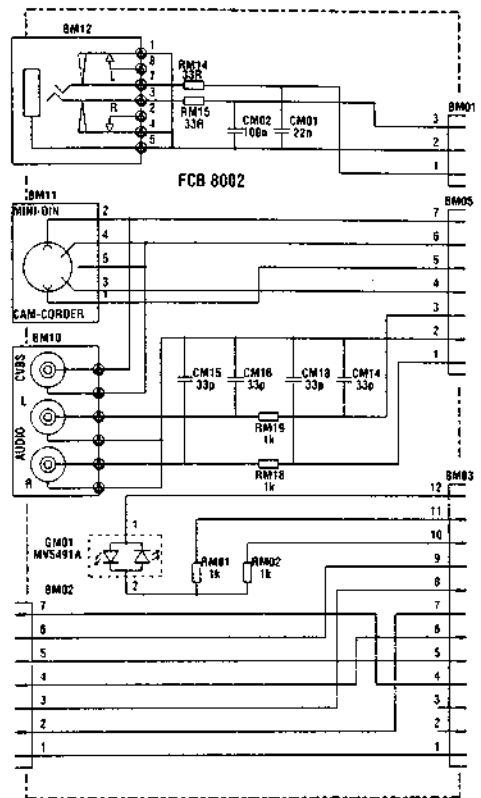
FCB

FCB 8010



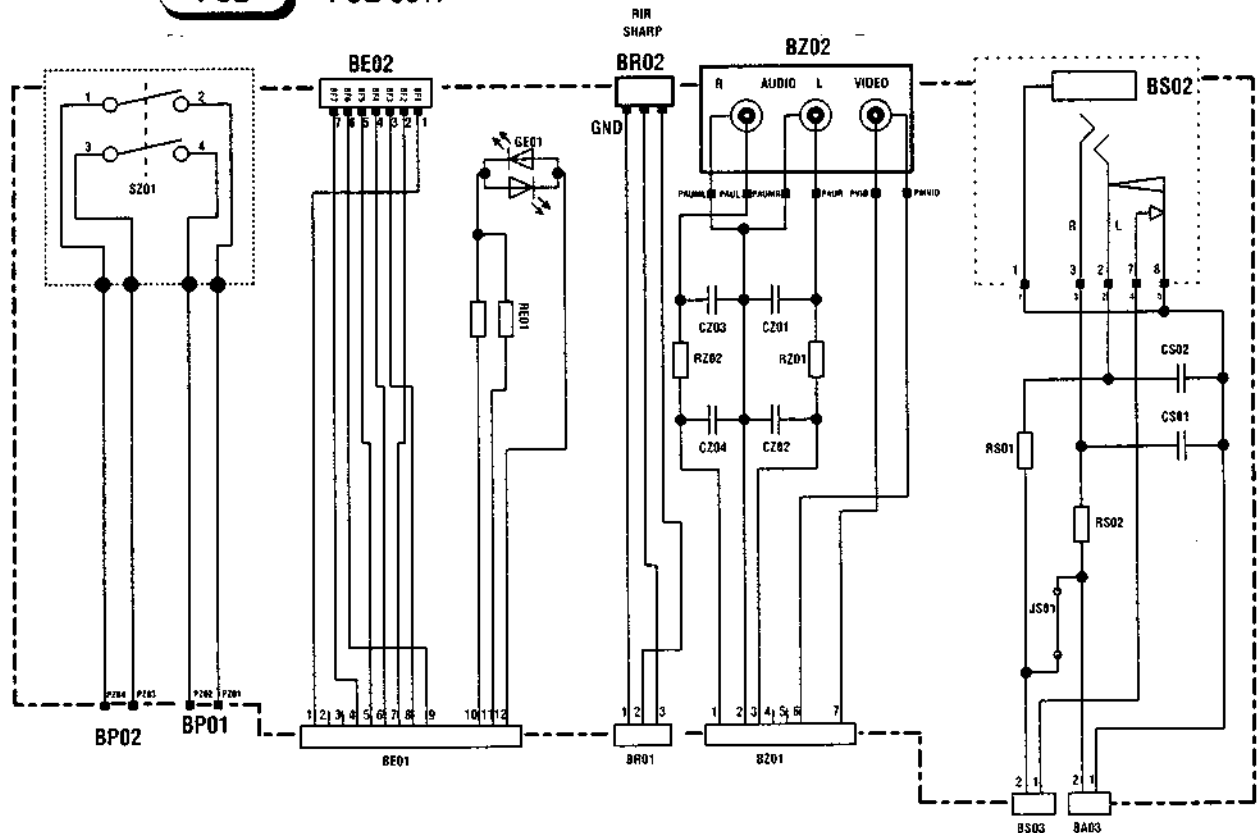
FCB

FCB 8002



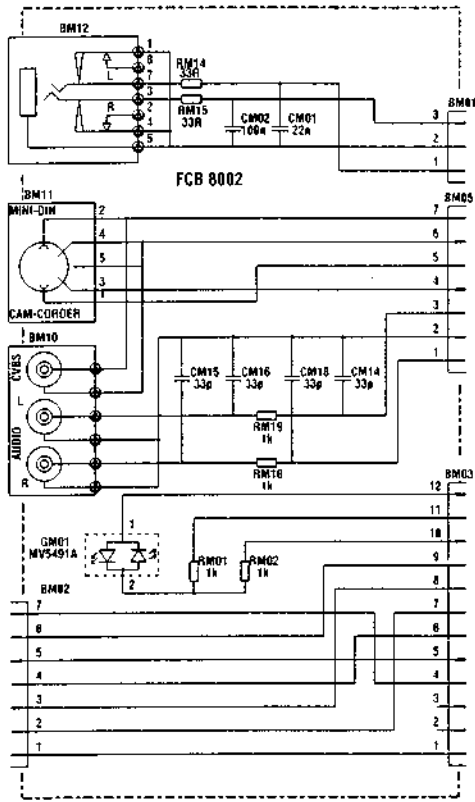
FCB

FCB 8017



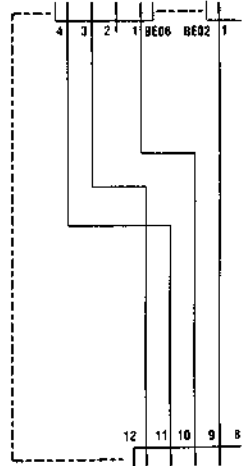
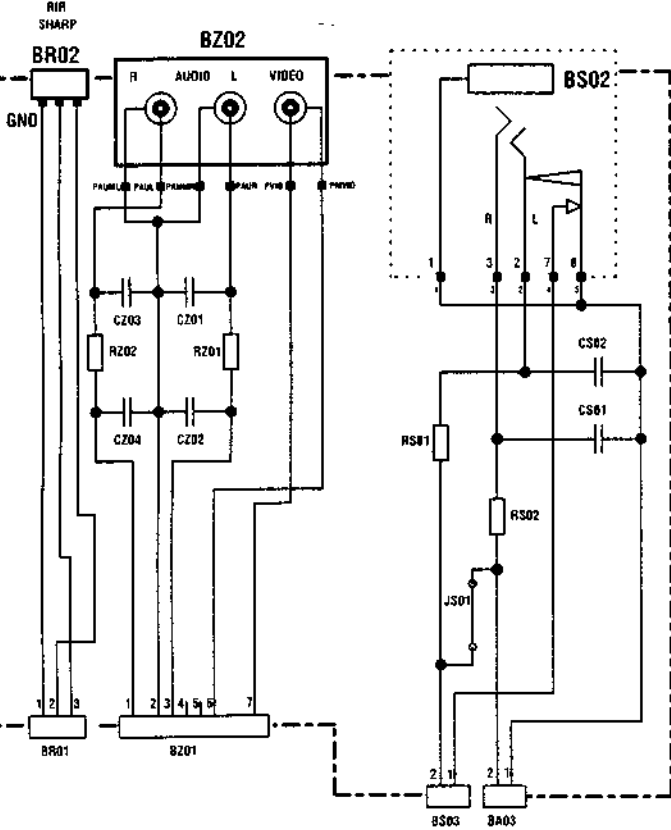
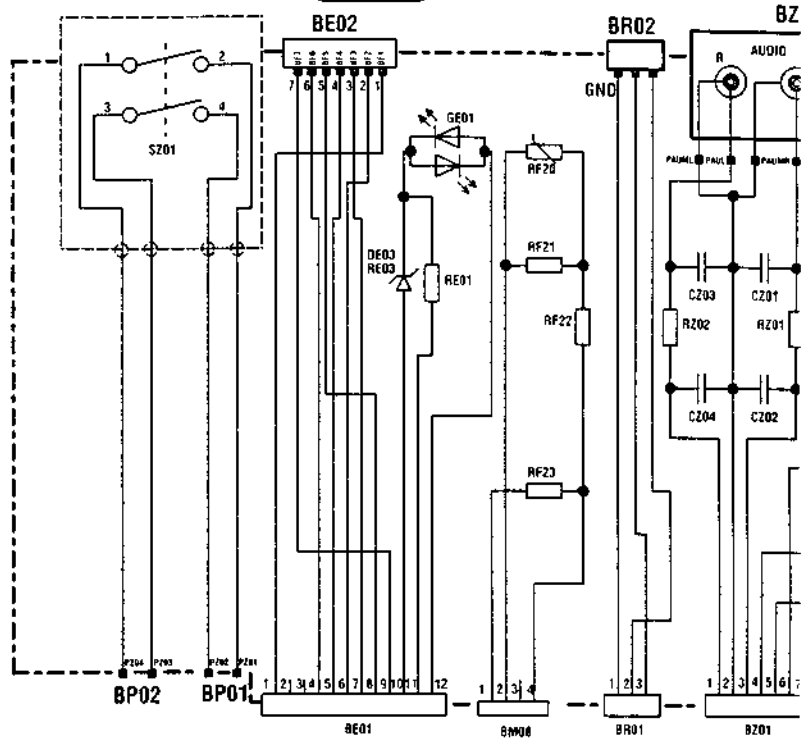
FCB

FCB 8002

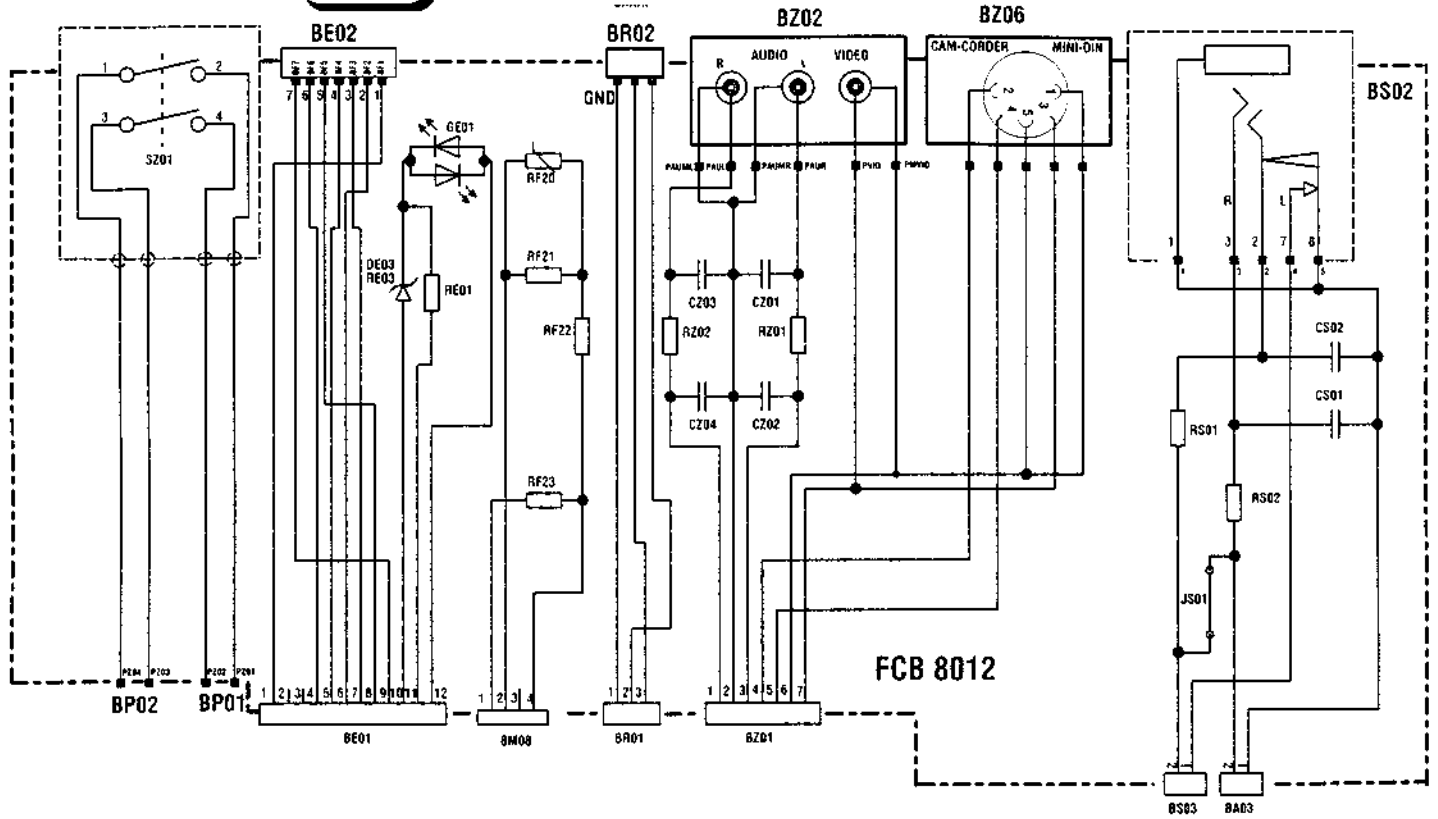


FCB

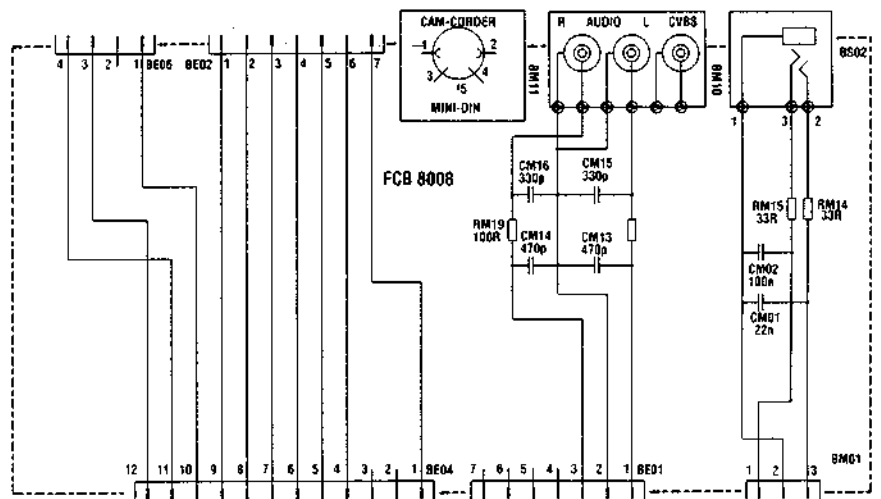
FCB 8012

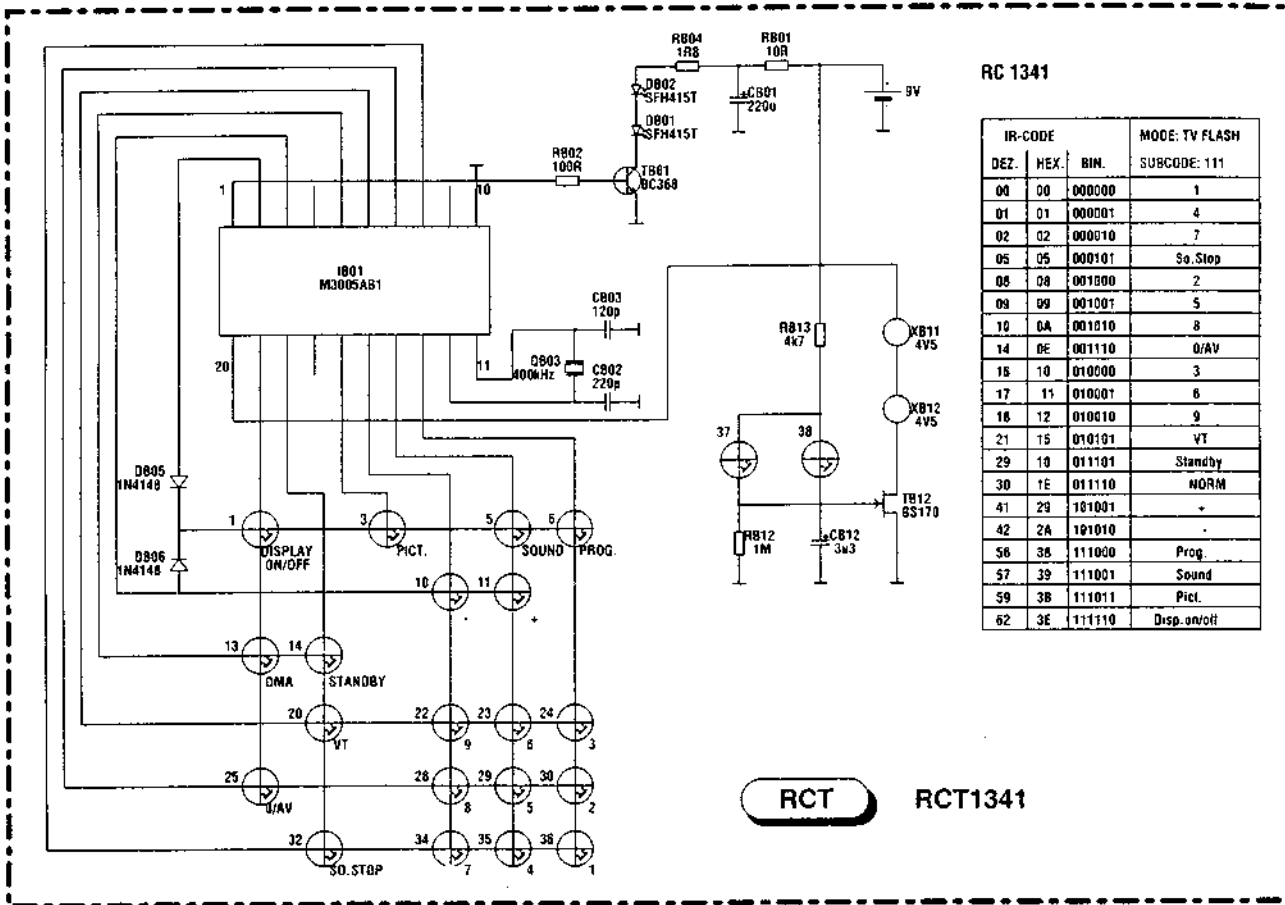


FCB FCB 8012

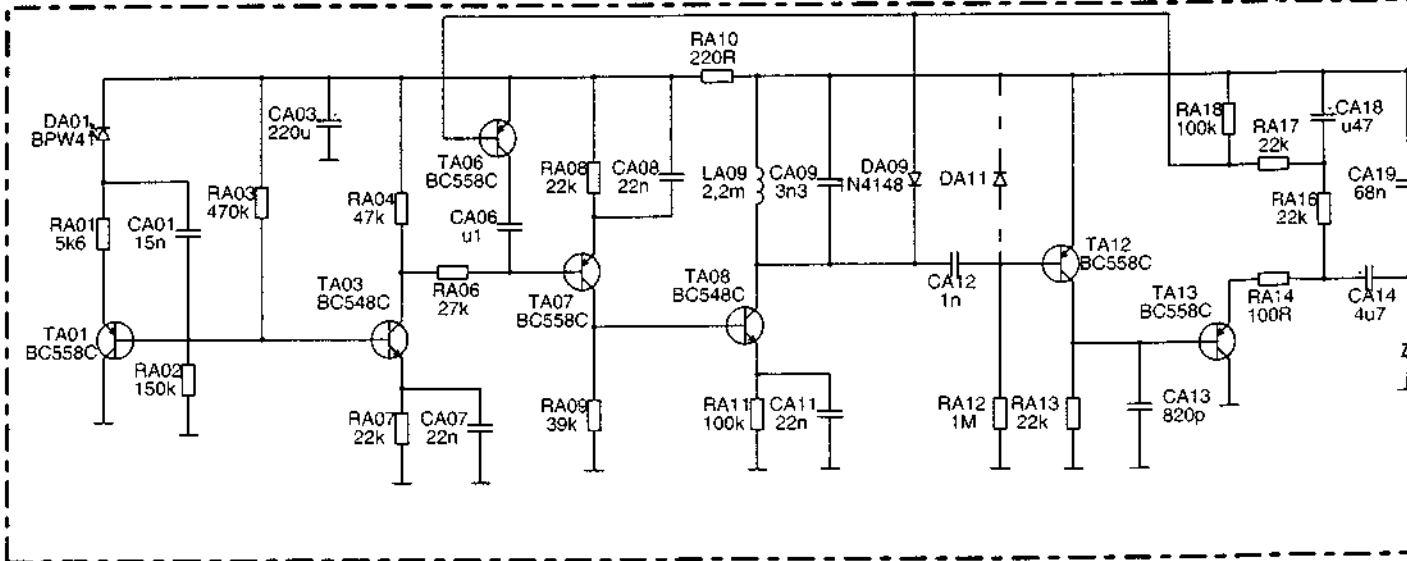


FCB FCB 8008





RIR RIR4000/4008



Legend

Légende

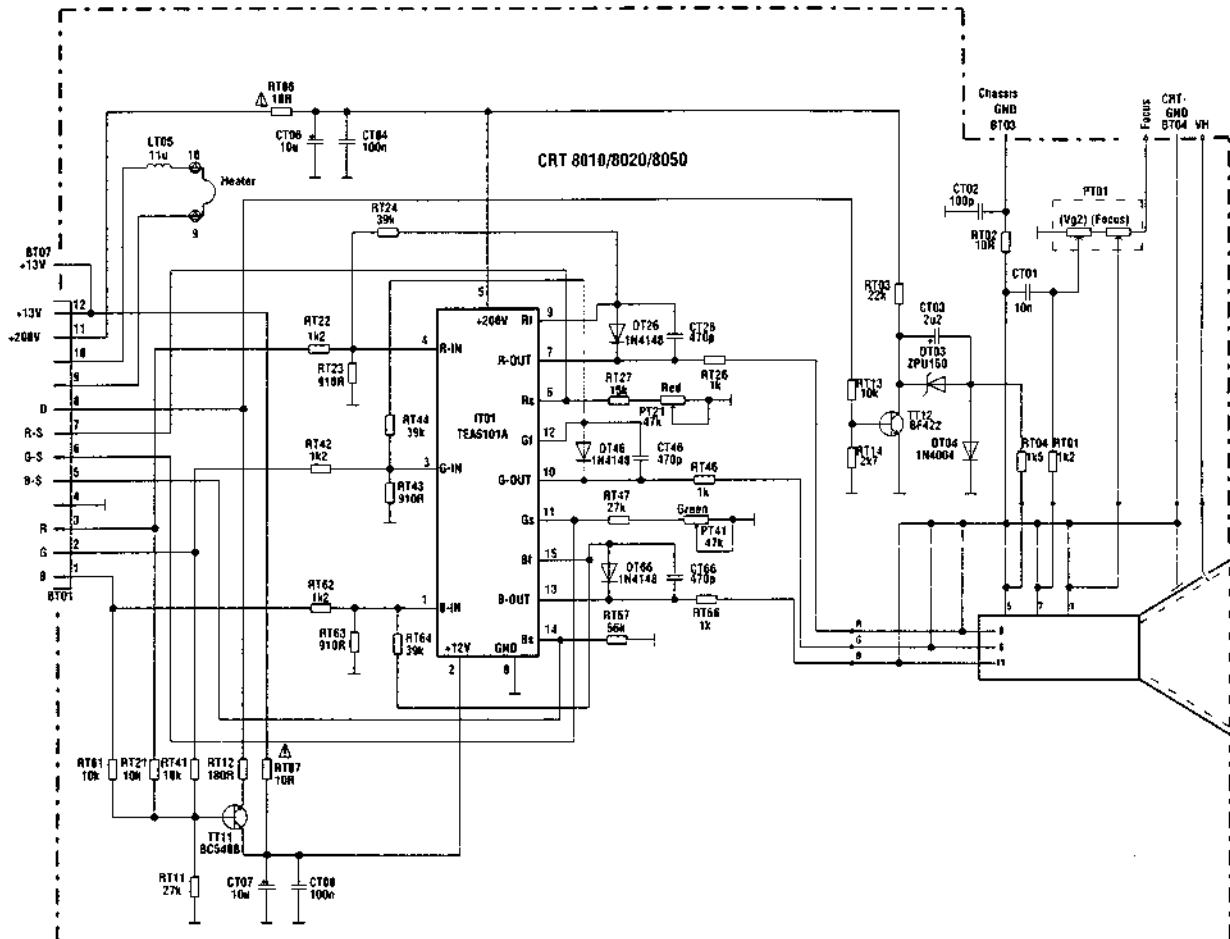
Zeichenerklärung

Leyenda

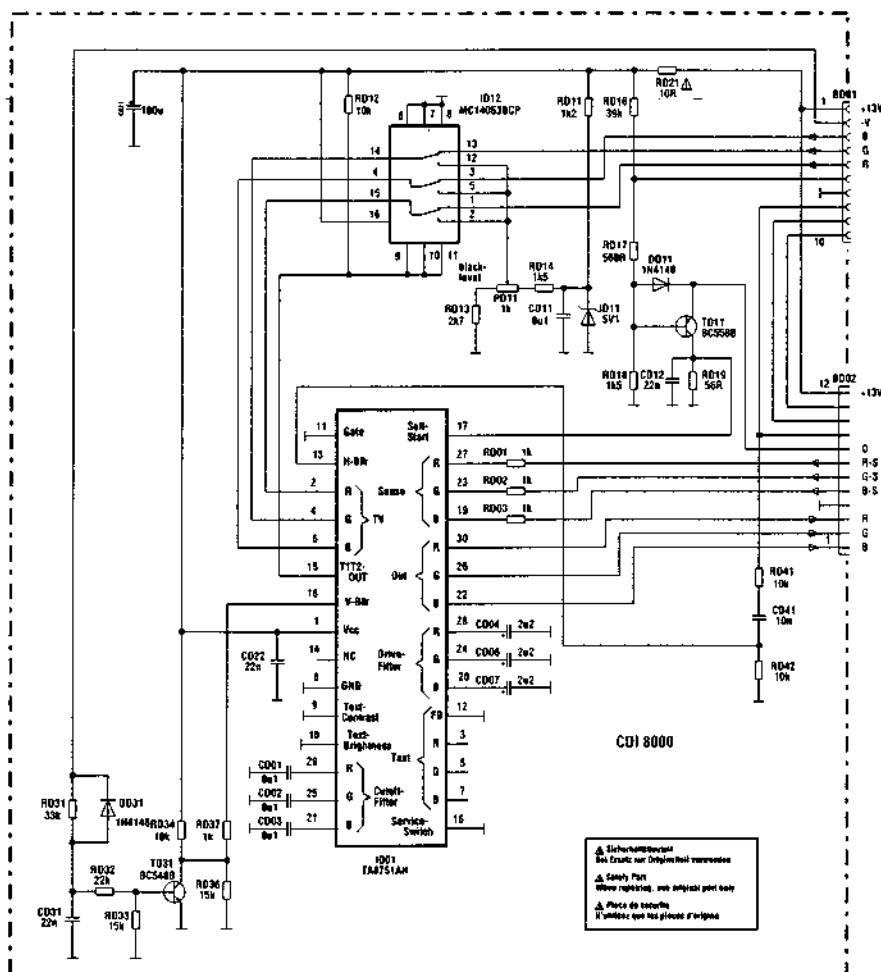
Leggenda

	On-Off	Marche-Arrêt	Ein-Aus	Encendido-Apagado	Acceso-Spento
	Stand-by	Attente (veille)	Bereitschaft	Espera	Disponibile
	Brightness	Luminosité	Helligkeit	Luminosidad	Luminosita
	Contrast	Contraste	Kontrast	Contrasto	Contrasto
	Hue	Teinte	Farbton	Tinta	Tinta
	Colour saturation	Saturation couleur	Farbsättigung	Saturación de color	Saturazione di colore
	Medium	Niveau moyen	Mittelwert	Nivel medio	Livello medio
	Automatic tuning	Recherche automatique	Automatischer Suchlaut	Búsqueda automática	Ricerca automatica
CH	Channel call	Appel canal	Kanalabruf	Llamada canal	Chiamata canale
	Stereo / Mono	Stéréo / Mono	Stereo / Mono	Estereo / Mono	Stereo / Mono
	Fine tuning	Accord fin	Feinabstimmung	Sintonización fina	Sintonizzazione fine
	Output	Sortie d'un signal	Ausgang	Salida de señal	Uscita di segnale
	Input	Entrée d'un signal	Eingang	Entrada de señal	Ingresso di segnale
	Scart socket	Prise peritélevision	Peri-TV Scart Buchse	Eurotoma	Presa pantelevisione
	Horizontal synchronization	Synchronisation horizontale	Horizontal synchronisation	Sincronización horizontal	Sincronizzazione orizzontale
	Vertical synchronization	Synchronisation verticale	Vertikal synchronisation	Sincronización vertical	Sincronizzazione verticale
	Horizontal picture shift	Cadrage horizontal	Bildlage horizontal	Cuadrage horizontal	Correzione orizzontale
	Vertical picture shift	Cadrage vertical	Bildlage vertikal	Cuadrage vertical	Correzione verticale
	Horizontal linearity	Linéarité horizontale	Horizontal Linearität	Linealidad horizontal	Linearita orizzontale
	Vertical linearity	Linéarité verticale	Vertikal Linearität	Linealidad vertical	Lineanta verticale
	Picture width	Amplitude horizontale	Bildbreite	Amplitud horizontal	Ampiezza orizzontale
	Picture height	Amplitude verticale	Bildhöhe	Amplitud vertical	Ampiezza verticale
	Focus	Concentration	Fokus	Focus	Focus
	East West Pincushion	Coussin Est-Ouest	Ost-West Kissen	Cojín Este-Oeste	Cuscino Est-Ovest
	East West Pincushion Distortion amplitude	Amplitude coussin Est-Ouest	Bild breite Ost-West Kissen	Amplitud cojín Este-Oeste	Ampiezza cuscino Est-Ovest
	East West trapezium	Trapeze Est-Ouest	Ost-West Trapez	Trapezio Este-Oeste	Trapezio Est-Ovest
	Colour bars	Mire de barres	Farbbalken	Carta de barras	Mira di barre
	Video	Vidéo	Fernsehen	Video	Video
	Sound	Son	Ton	Sonido	Suono
	Connection bus	Bus de liaison	Anschluß Bus	Bus de enlace	Via di collegamento
	Signal departure	Départ d'un signal	Signal Quelle	Salida de señal	Partenza di un segnale
	Signal arrival	Arrivée d'un signal	Signal Eingang	Llegada de señal	Arrivo di un segnale
	Oscilloscope	Oscilloscope	Oszilloskop	Osciloscopio	scilloscopio
	Discriminator demodulator	Discriminateur démodulateur	Diskriminator demodulator	Discriminador demodulador	Discriminatore demodulatore
	Converter	Convertisseur	Umformer	Convertidor	Convertitore
	Phase changer	Changeur de phase (déphaseur)	Phasenweiche	Cambiador de fase	Sfasatore
	Limit threshold device	Dispositif à seuil limiteur	Begrenzer	Dispositivo de umbral limitador	Dispositivo a soglia limitatore
	Oscillator	Oscillateur	Oszillator	Oscilador	Oscillatore
	Phase comparator	Comparateur de phase	Phasen Vergleicher	Comparador de fase	Comparatore di fase
	Signal producer	Générateur	Generator	Generador	Generatore
	Coincidence detector	Détecteur à coincidence	Koinzidenzdetektor	Detector de coincidencia	Rivelatore di coincidenza
CC	Cable channel	Réseau câblé	Kabelkanäle	Canal por cable	Rete via cavo

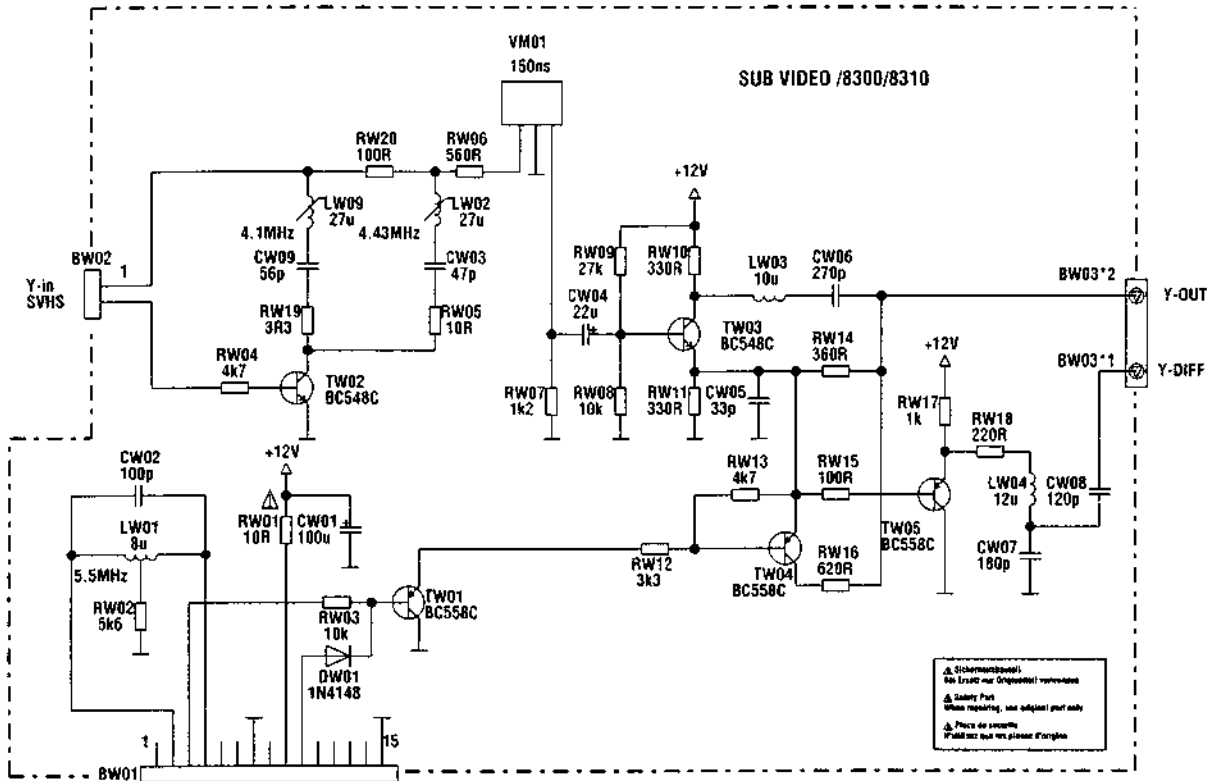
CRT8010/8020/8050



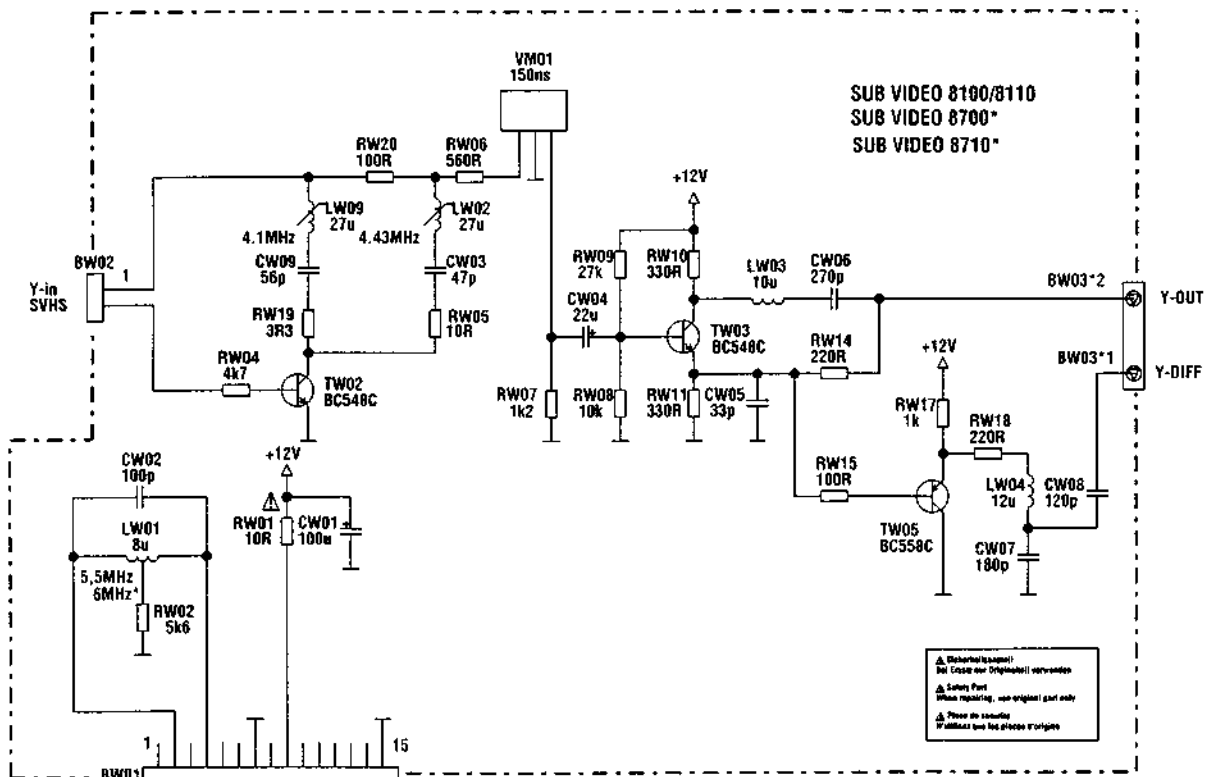
CD18000



SUB VIDEO 8300/8310

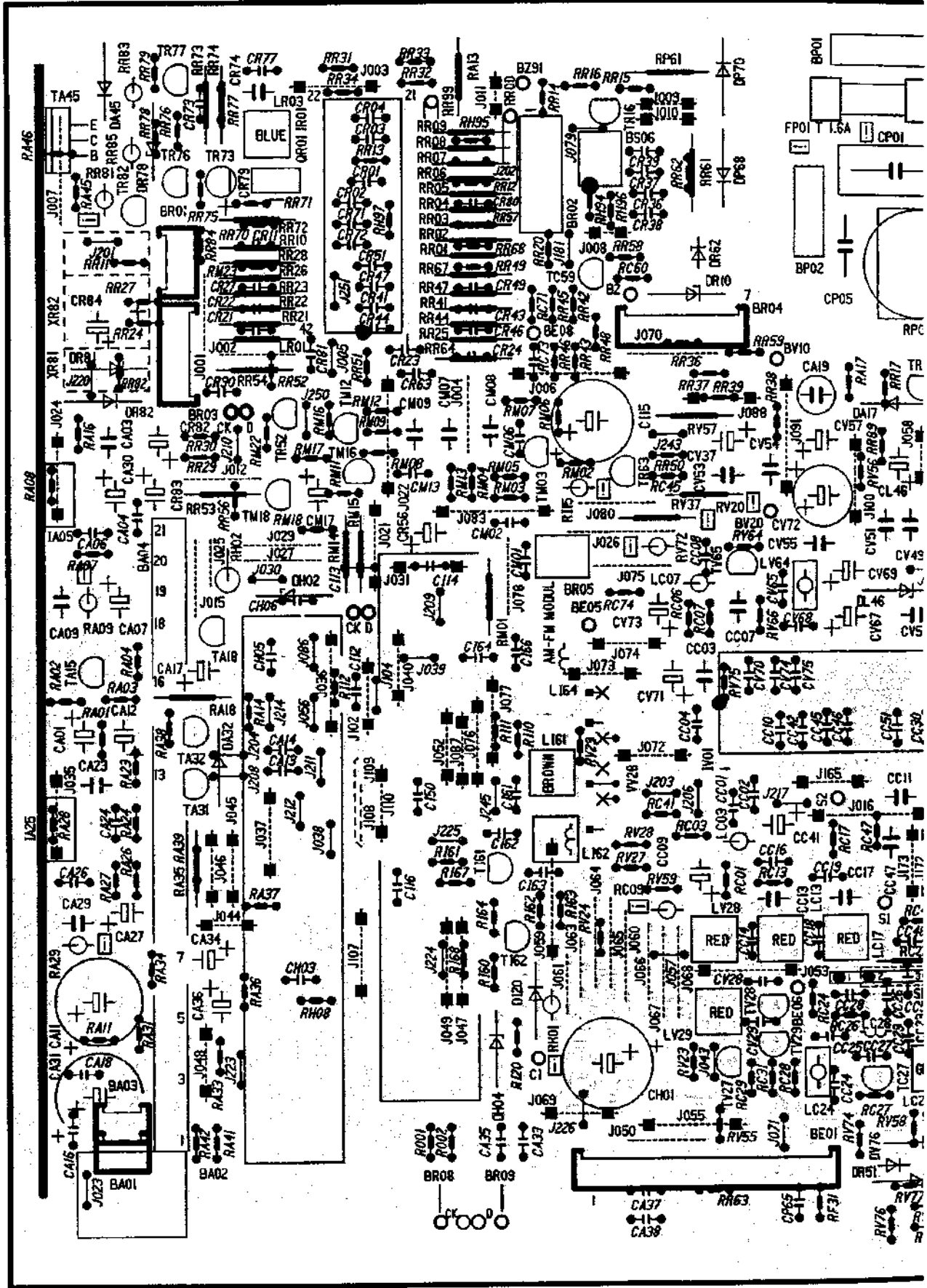


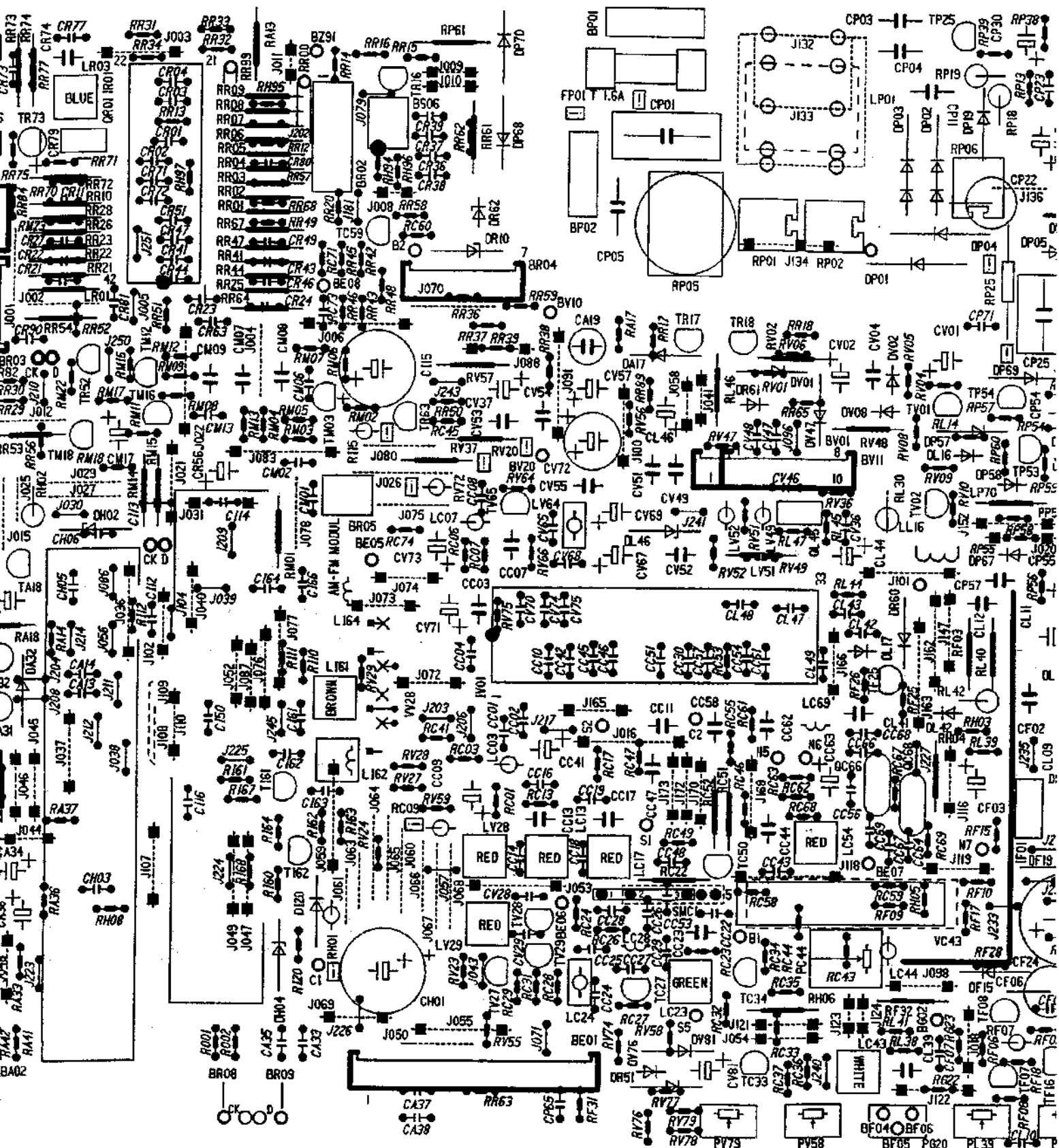
SUB VIDEO 8100/8110/8700*/8710*



V - CIRCUIT BOARDS - CIRCUITS IMPRIMES - GEDRUCKTE SCHALTUNG - CIRCUIT

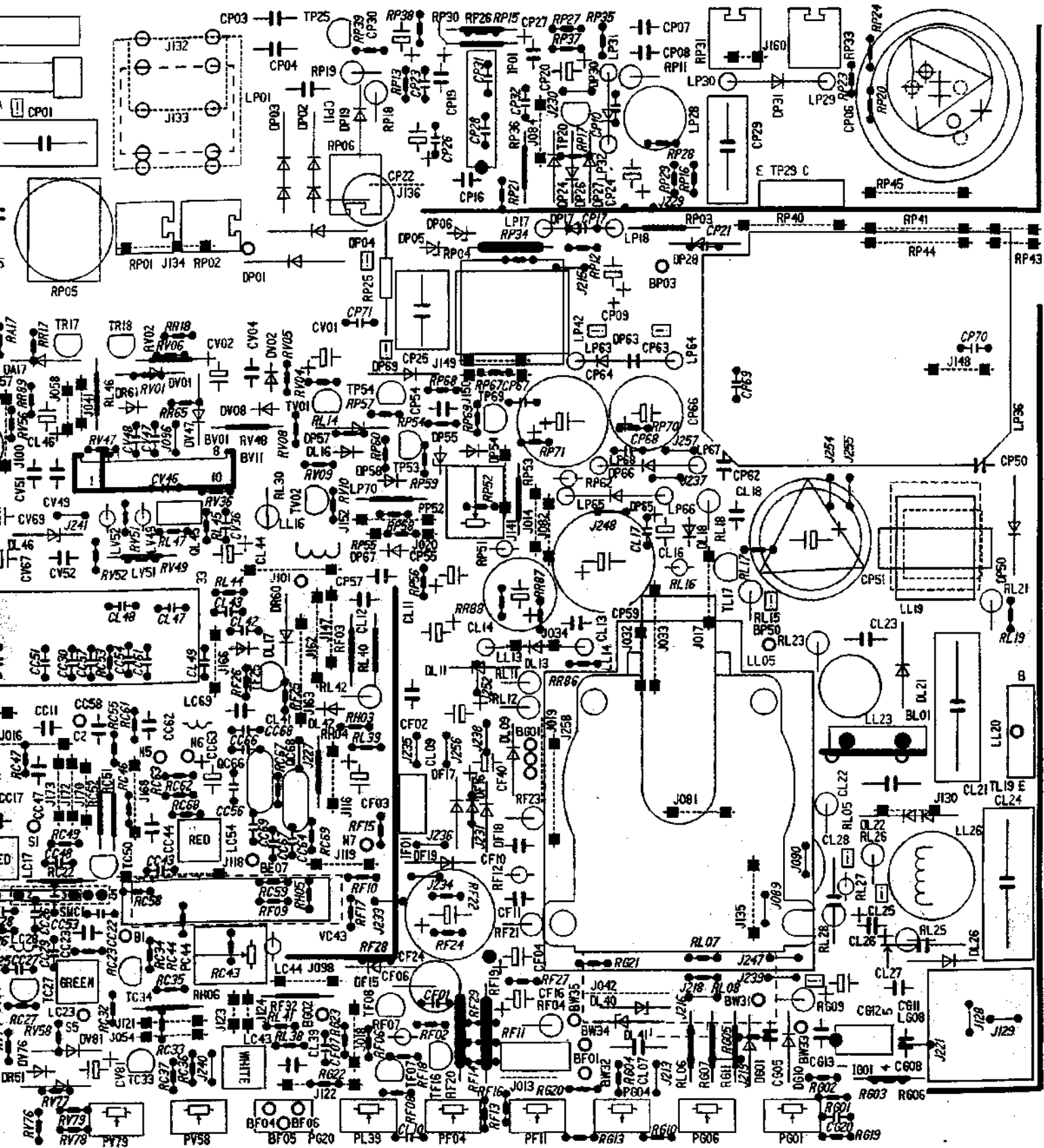
COMPONENT SIDE - COTE ELEMENTS - BESTÜCKUNGSEITE - LADO COMPONENTES - LATO COMP

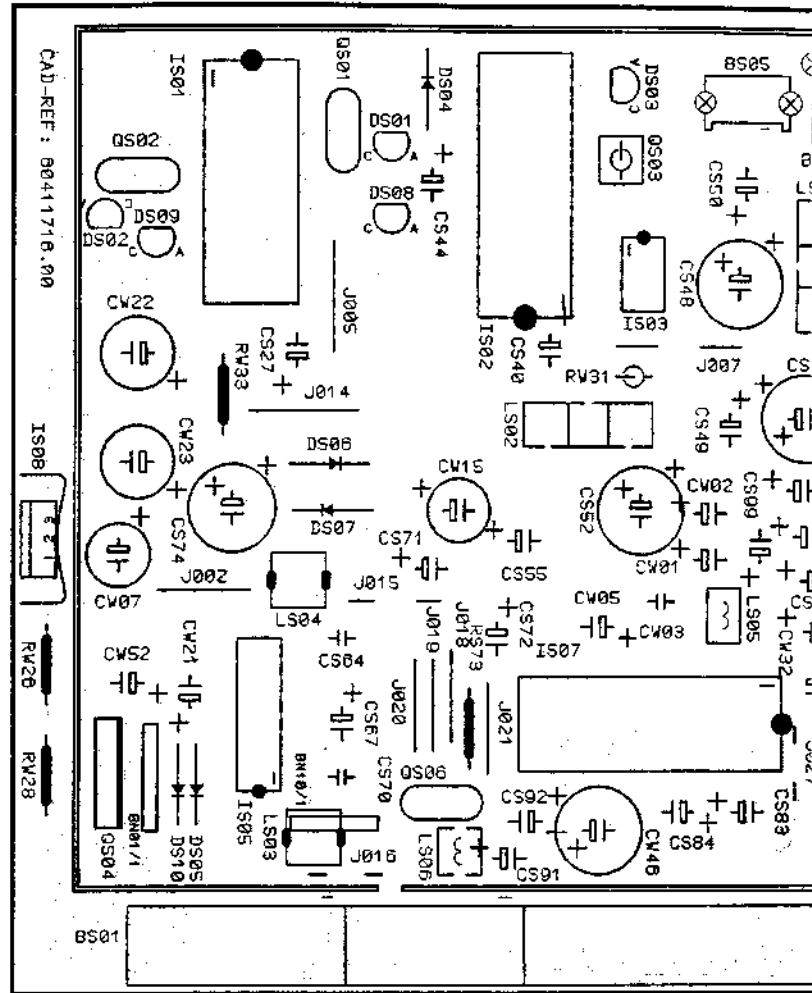
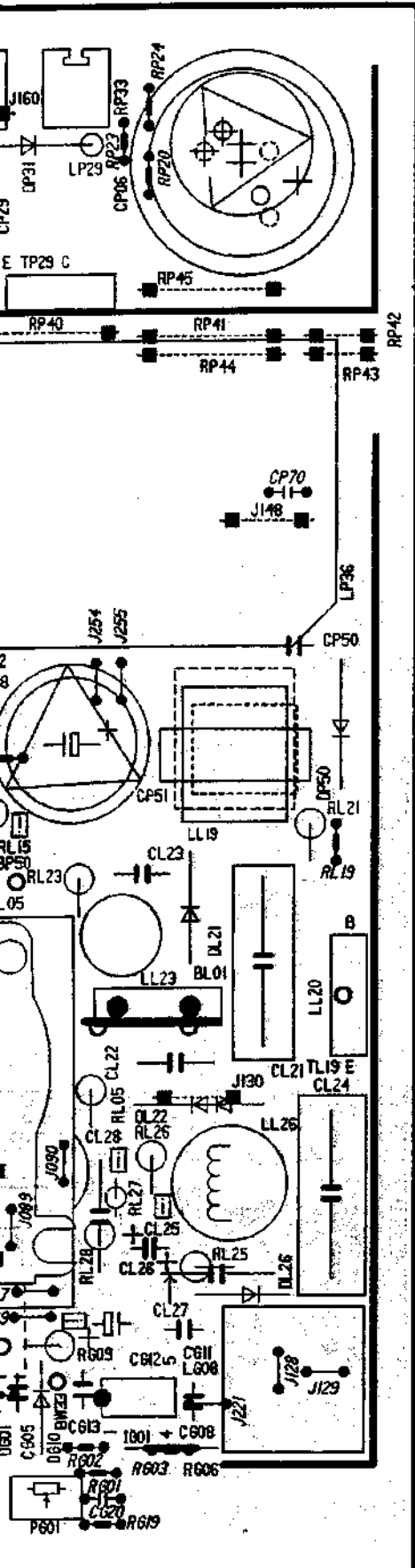




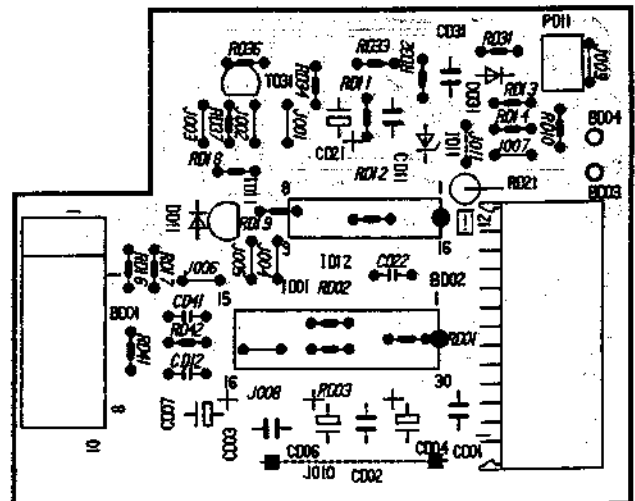
CIRCUITOS IMPRESOS - CIRCUITI STAMPATI

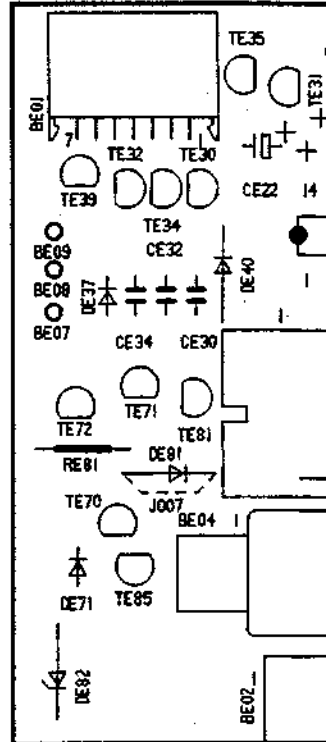
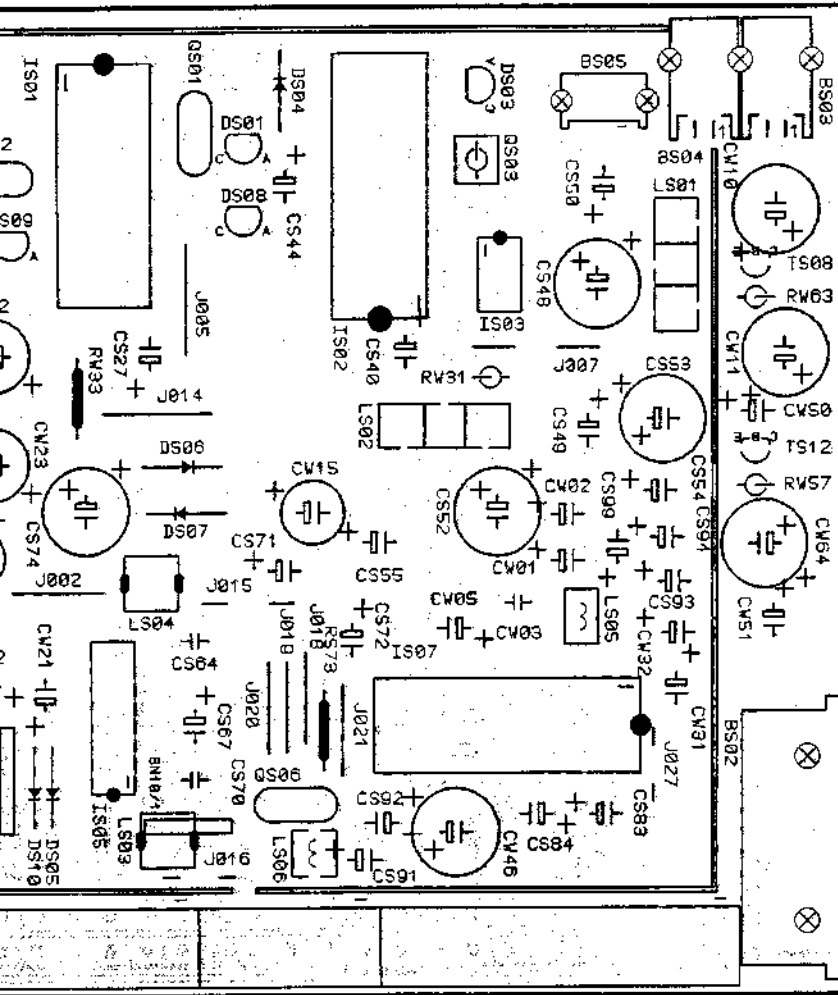
COMPONENTI



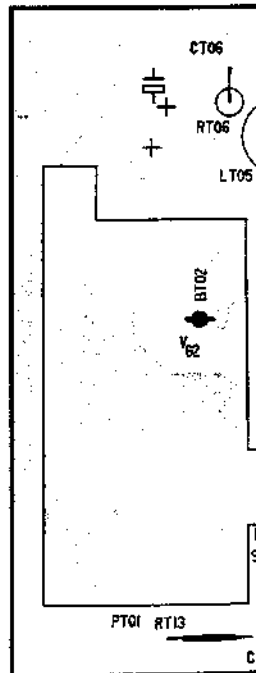
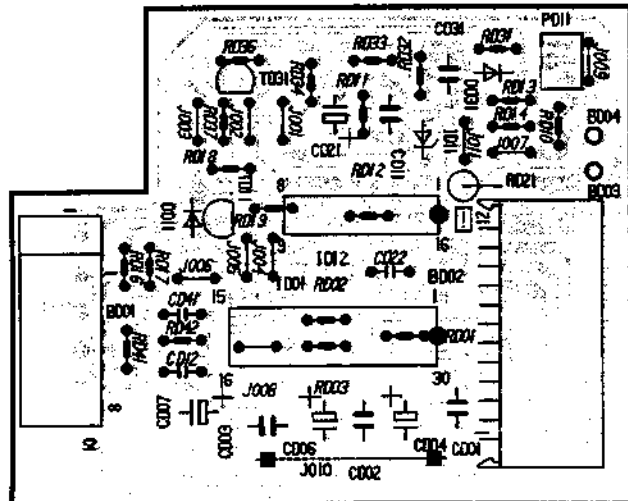


CDI 8000

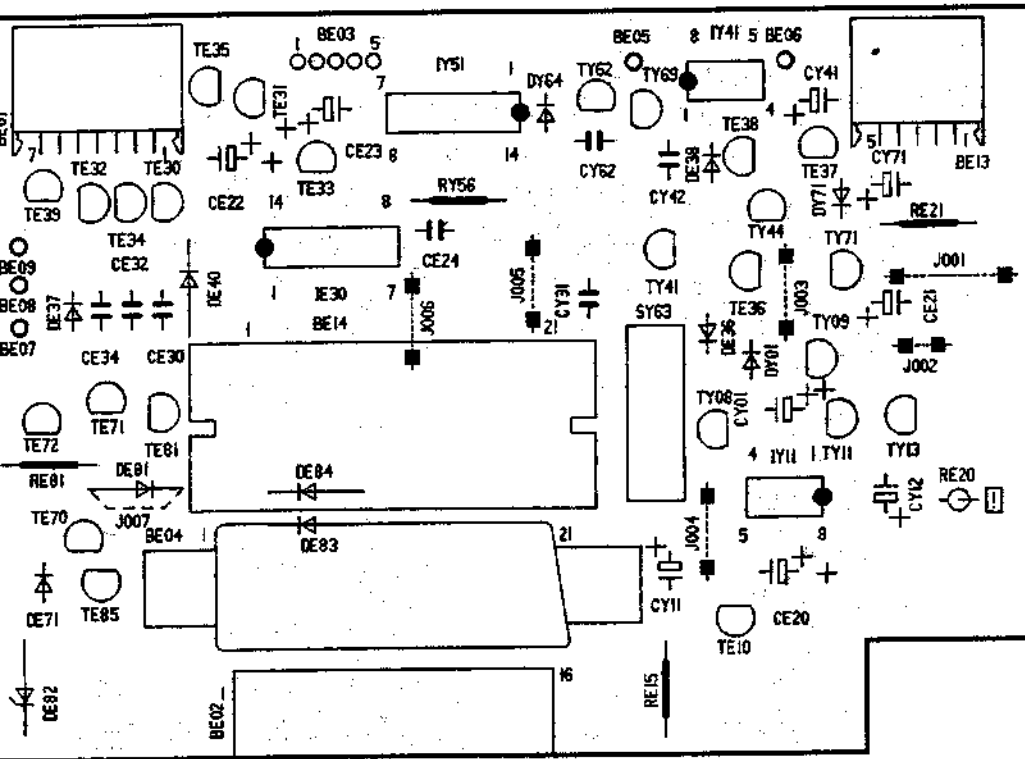




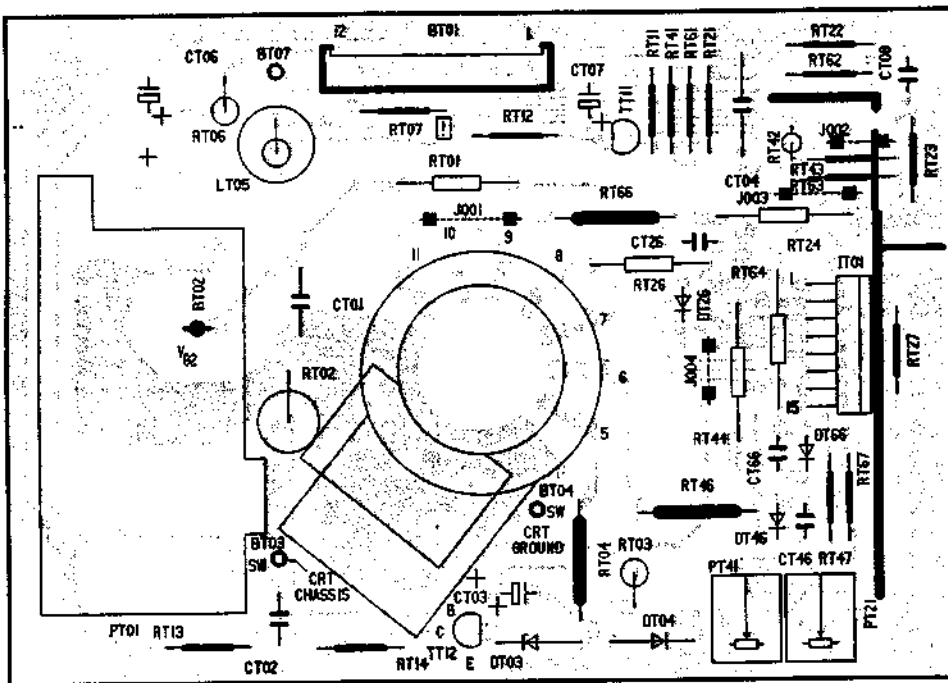
CDI 8000



SCI7040



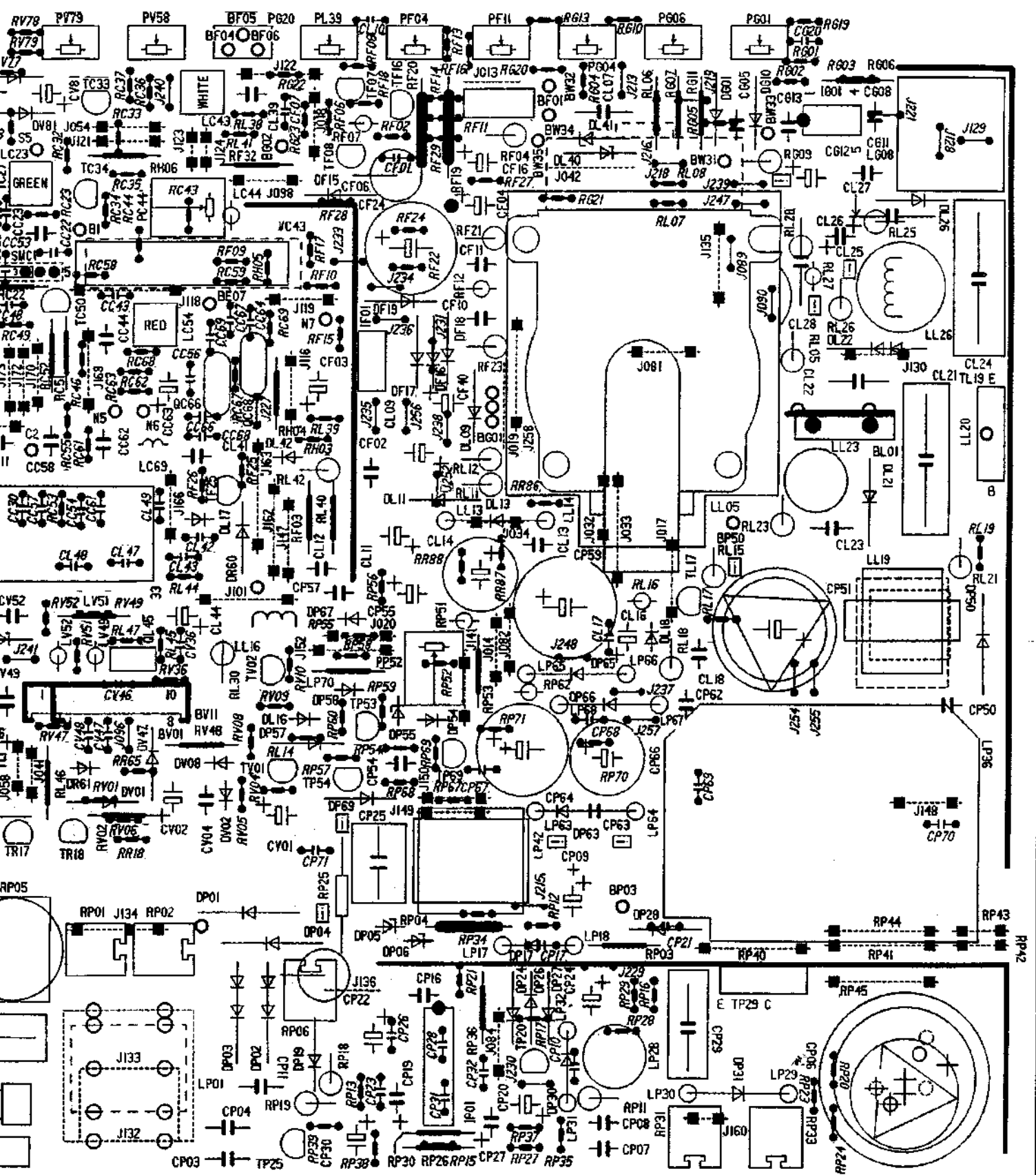
CRT 8010/8020/8050



I - TECHNICAL DATA AND COMPOSITION OF RECEIVERS

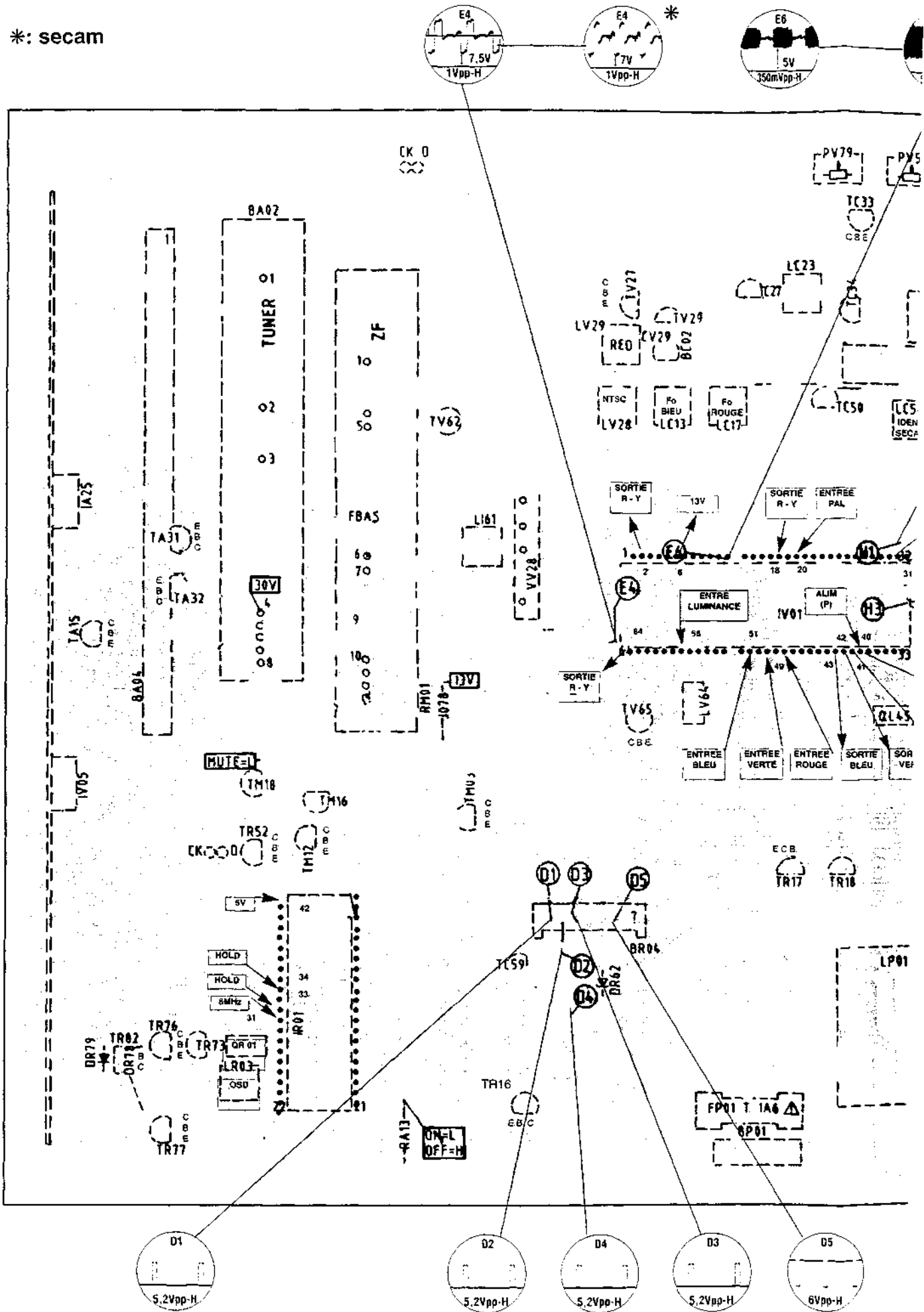
COMMON TECHNICAL DATA : Selection of 60 programs HF and 1 audiovisual by IR remote control
 O.S.D. : for channel programming and identification for levels of Customer control settings

COMMERCIAL REFERENCES	L x H x D (mm) Weight (kg)	Cons. (W/h) Sound Power (W)	TRC cm ²	Norm Decoding	CHAPTER			SUBASSEMBLY										
					I	II	III	CHASSIS	AUDIO	CRT	NS	CDI	DVT	SCI	HF/EL	KB/FCB	RIR/RC	OTHER
COMMERCIAL REFERENCES	L x H x D (mm) Weight (kg)	Cons. (W/h) Sound Power (W)	TRC cm ²	Norm Decoding	CHAPTER			SUBASSEMBLY										
					I	II	III	CHASSIS	AUDIO	CRT	NS	CDI	DVT	SCI	HF/EL	KB/FCB	RIR/RC	OTHER
59SL2	674x490x430 29	105 2x20W	25° 110°	I PAL	OPERATING INSTRUCTIONS	Adjustments 1 to 6	III & V Description ==> Block Diagram Schema PCB	ICC8707 1 to 2 1 to 4 1 to 2/6 to 9	NI2003 - 9 to 10 3	CRT8010 - 25 4	NS9000 - 7 to 8 5	CDI8000 - 25 3	DVT - - -	SCI7040 - 16 4	HF/EL IF2132 11 to 12	KB/FCB FCB8008 22	RIR/RC RIR4000 23	OTHER LDN6005 S.VID 8710 26 11
60SL2	745x521x475 36	105 2x20W	29° 110°	I PAL	OPERATING INSTRUCTIONS	Adjustments 1 to 6	III & V Description ==> Block Diagram Schema PCB	ICC8707 1 to 2 1 to 4 1 to 2/6 to 9	NI2003 - 9 to 10 3	CRT8010 - 25 4	NS9002 - 7 to 8 5	CDI6000 - 25 3	DVT - - -	SCI7040 - 16 4	HF/EL IF2132 11 to 12	KB/FCB FCB8008 22	RIR/RC RIR4000 23	OTHER LDN6005 S.VID 8710 26 11
B51NX	510x444x398 21	95 2x20W	21° 90°	I PAL	OPERATING INSTRUCTIONS	Adjustments 1 to 6	III Description ==> Block Diagram Schema PCB	ICC8706 1 to 2 1 to 4 1 to 2/6 to 9	NI2003 - 9 to 10 3	CRT2007 - 5 5	- - -	CDI7000 - 4 to 5 10	DVT2013 - 19 to 20 12	- -	IF2132 11 to 12	FCB8017 21	RIR4000 23	S.VID 8710 26 11
B59N	626x490x448 26	95 2x20W	25° 110°	I PAL	OPERATING INSTRUCTIONS	Adjustments 1 to 6	III & V Description ==> Block Diagram Schema PCB	ICC8705 1 to 2 1 to 4 1 to 2/6 to 9	NI2003 - 9 to 10 3	CRT7000 - 5 5	- - -	CDI7000 - 4 to 5 10	DVT2013 - 19 to 20 12	- -	IF2132 11 to 12	FCB8010 21	RIR4000 23	S.VID 8710 26 11
B59NX	662x468x433 29,5	95 2x20W	25° 110°	I PAL	OPERATING INSTRUCTIONS	Adjustments 1 to 6	III & V Description ==> Block Diagram Schema PCB	ICC8704 1 to 2 1 to 4 1 to 2/6 to 9	NI2003 - 9 to 10 3	CRT8050 - 25 4	- - -	CDI7000 - 4 to 5 10	DVT7000 - 14 11	SCI7040 - 16 4	IF2145 12 to 13	FCB8002 21	RIR4000 23	S.DFHT062 S.VID 8710 26 11
B68NX	719x534x462 33	95 2x20W	29° 110°	I PAL	OPERATING INSTRUCTIONS	Adjustments 1 to 6	III & V Description ==> Block Diagram Schema PCB	ICC8704 1 to 2 1 to 4 1 to 2/6 to 9	NI2003 - 9 to 10 3	CRT8050 - 25 4	- - -	CDI7000 - 4 to 5 10	DVT7000 - 14 11	SCI7040 - 16 4	IF2145 12 to 13	FCB8002 21	RIR4000 23	S.VID 8710 26 11
E51N	510x444x398 21	95 2x20W	21° 90°	I PAL	OPERATING INSTRUCTIONS	Adjustments 1 to 6	III & V Description ==> Block Diagram Schema PCB	ICC8706 1 to 2 1 to 4 1 to 2/6 to 9	NI2003 - 9 to 10 3	CRT2007 - 5 5	- - -	CDI7000 - 4 to 5 10	DVT2013 - 19 to 20 12	- -	IF2132 11 to 12	FCB8017 21	RIR4000 23	S.VID 8710 26 11
C51N	518x444x475 21	95 2x20W	21° 90°	I PAL	OPERATING INSTRUCTIONS	Adjustments 1 to 6	III & V Description ==> Block Diagram Schema PCB	ICC8706 1 to 2 1 to 4 1 to 2/6 to 9	NI2003 - 9 to 10 3	CRT2007 - 5 5	- - -	CDI7000 - 4 to 5 10	DVT2013 - 19 to 20 12	- -	IF2132 11	FCB8012 22	RIR4000 23	S.VID 8710 26 11
E51 R8 NIC	510x444x398 21	95 2x30W	21° 90°	I PAL	OPERATING INSTRUCTIONS	Adjustments 1 to 6	III & V Description ==> Block Diagram Schema PCB	ICC8706 1 to 2 1 to 4 1 to 2/6 to 9	NI2003 - 9 to 10 3	CRT2007 - 5 5	- - -	CDI7000 - 4 to 5 10	DVT2012 - 17 to 18 12	- -	IF2132 11	FCB8015 -	RIR4000 23	S.VID 8710 26 11

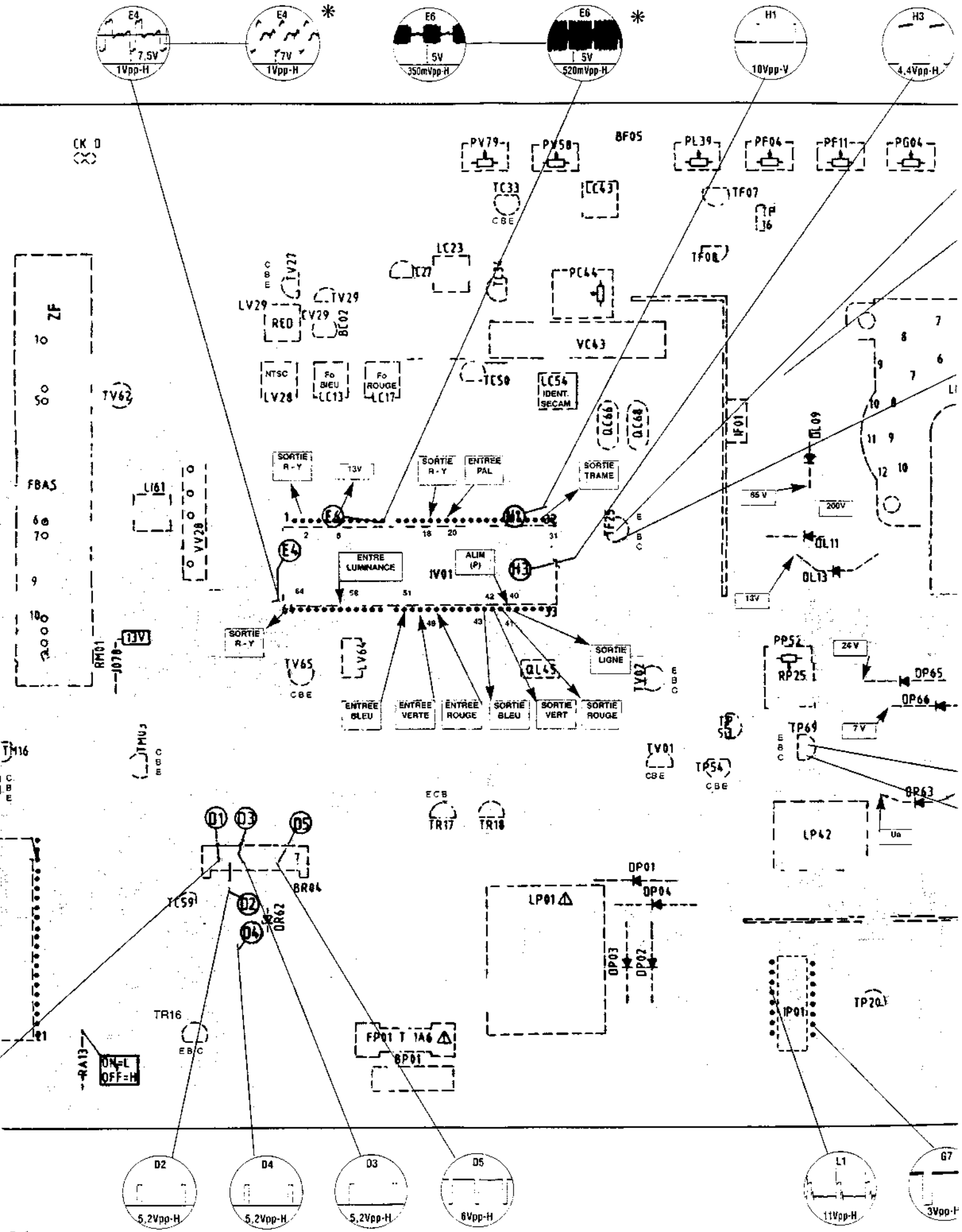


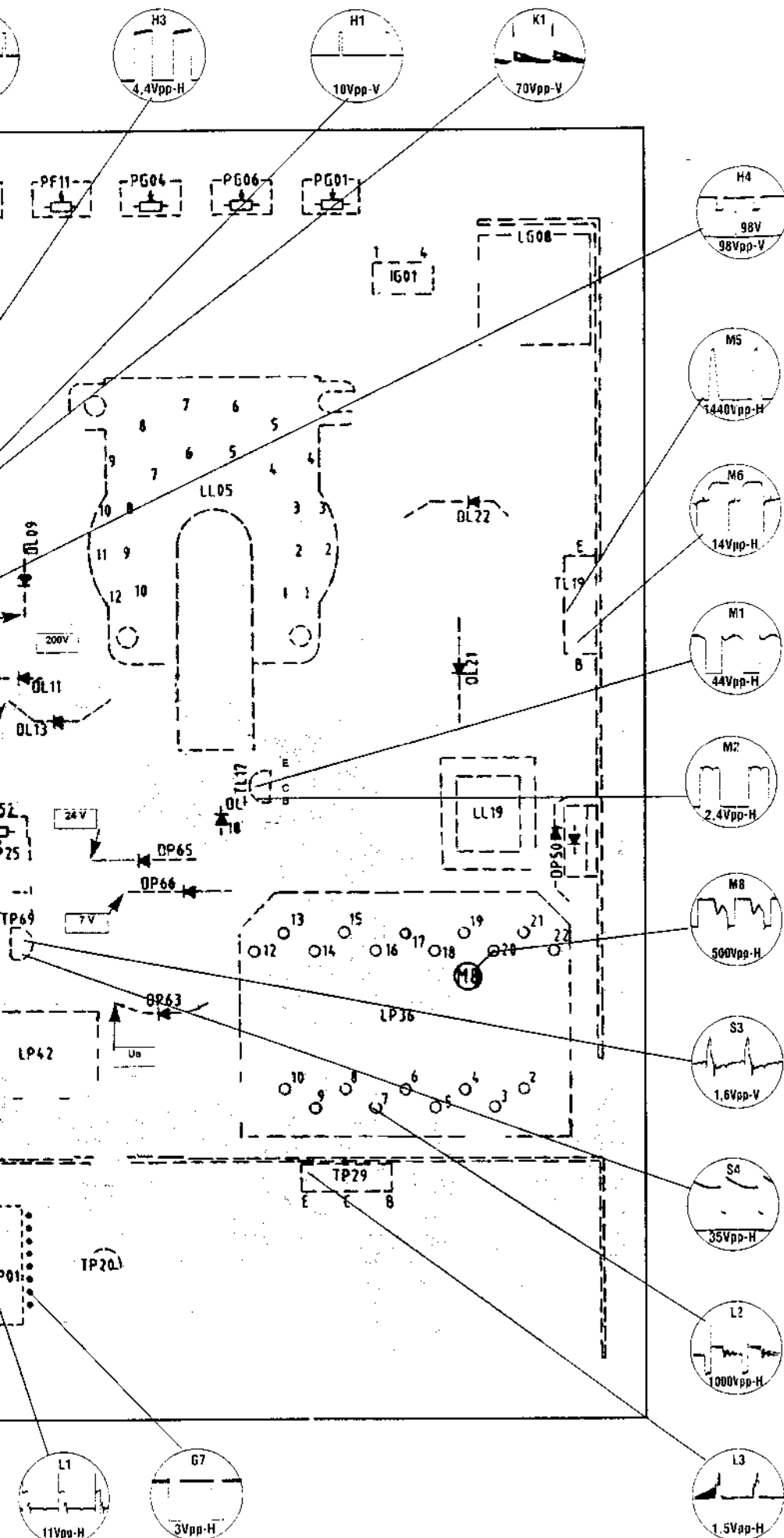
(SOLDER SIDE COTE CUIVRE - LOTSEITE - LADO DEL COBRE - LATO SALDATURE)

*: secam

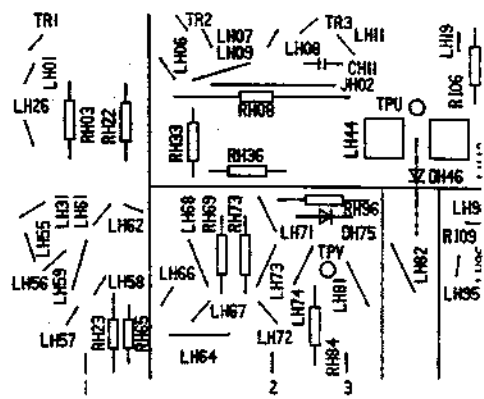


ADO DEL COBRE - LATO SALDATURE)

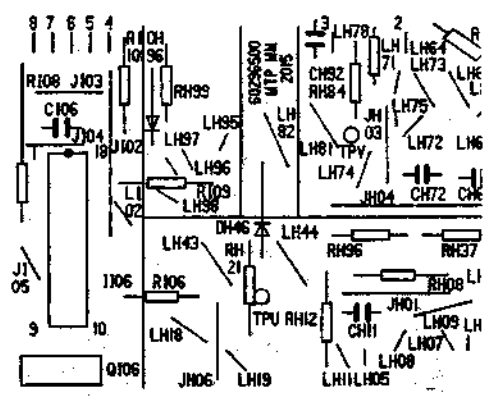




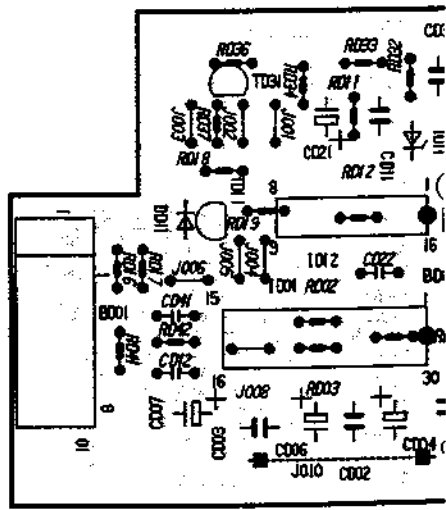
BG2003



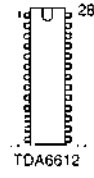
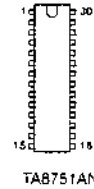
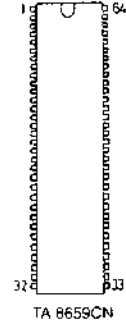
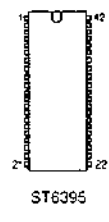
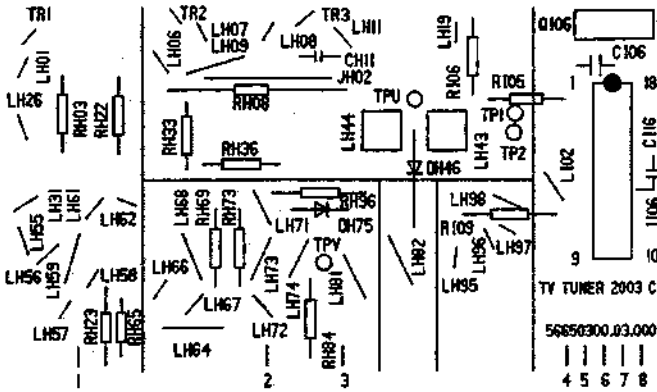
MMTP2015



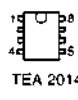
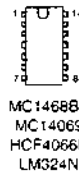
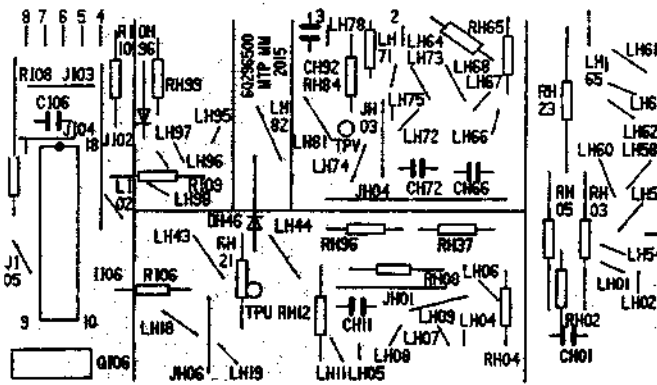
CDI 7000



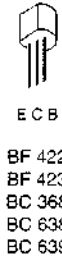
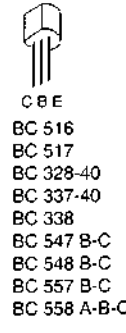
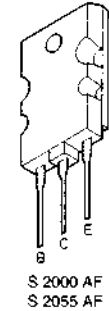
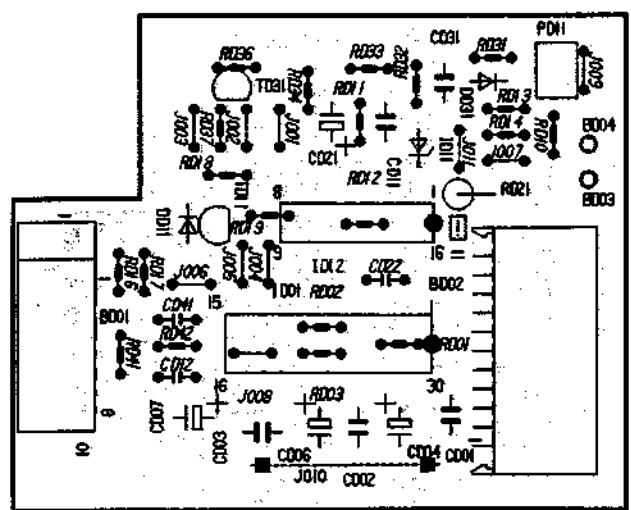
BG2003



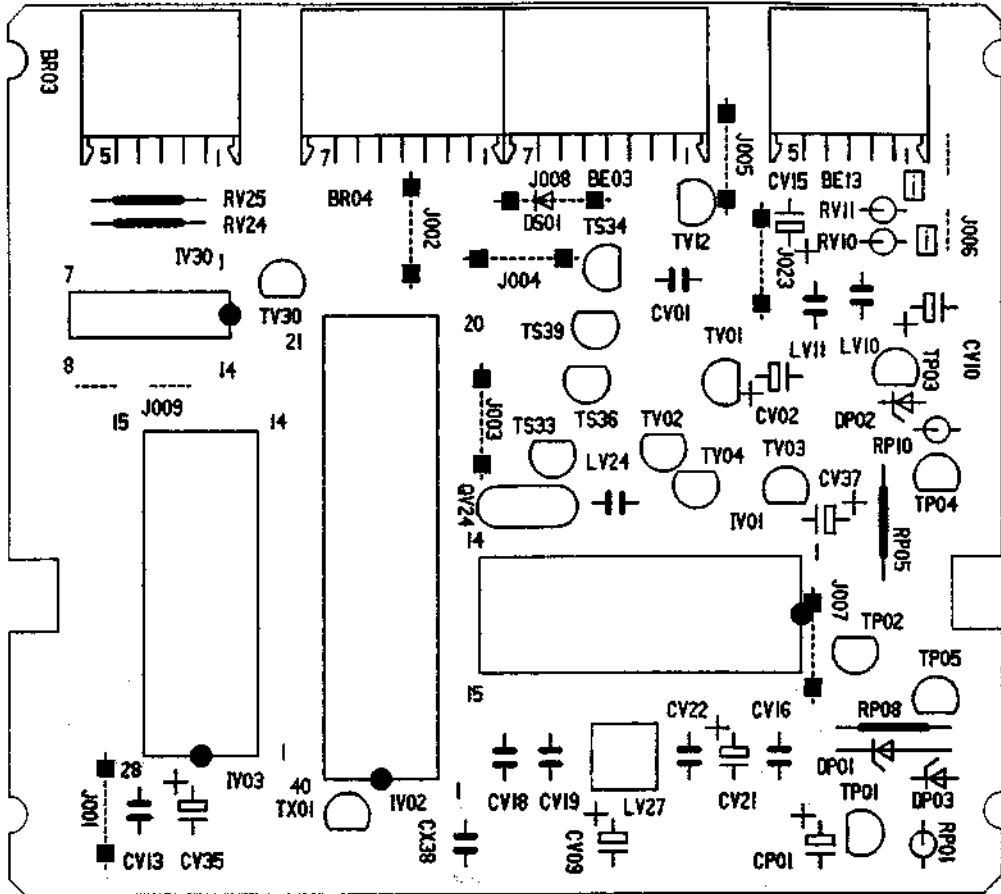
MMTP2015



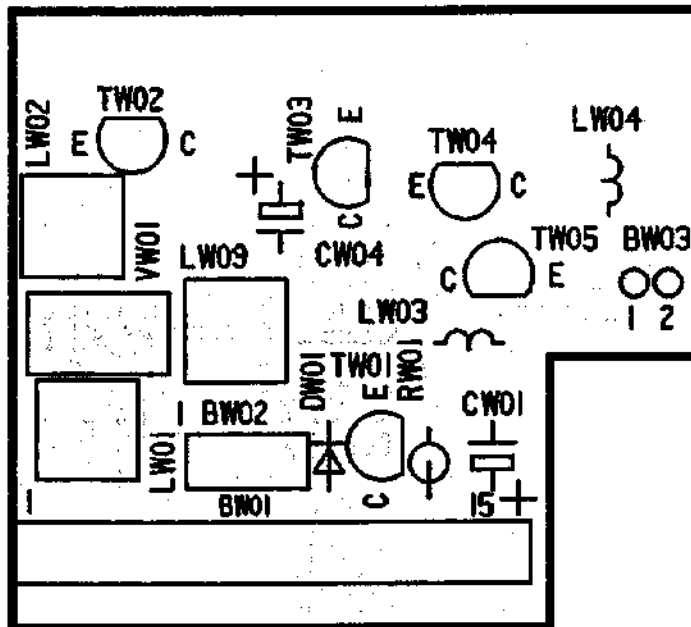
CDI 7000

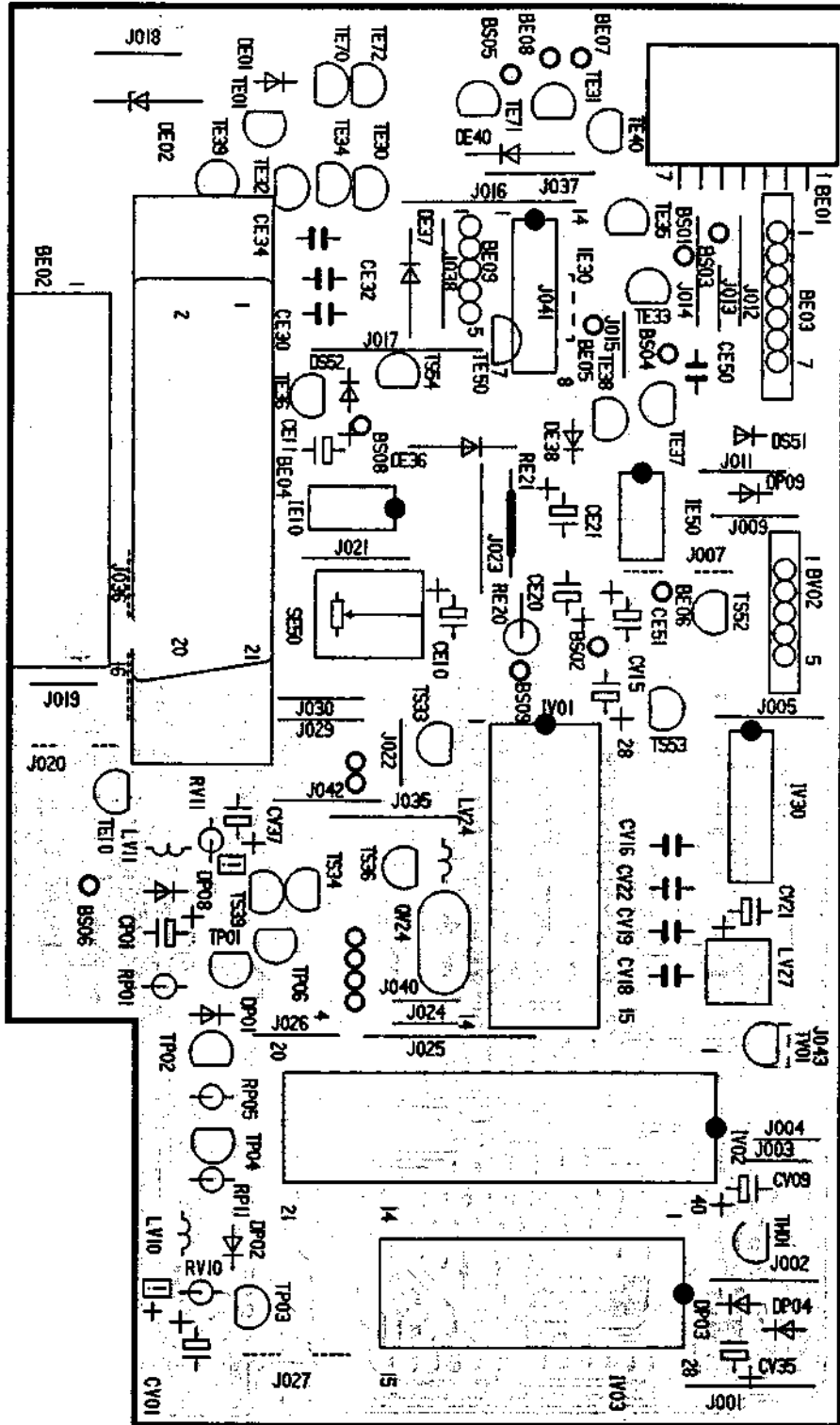


DVT 7000

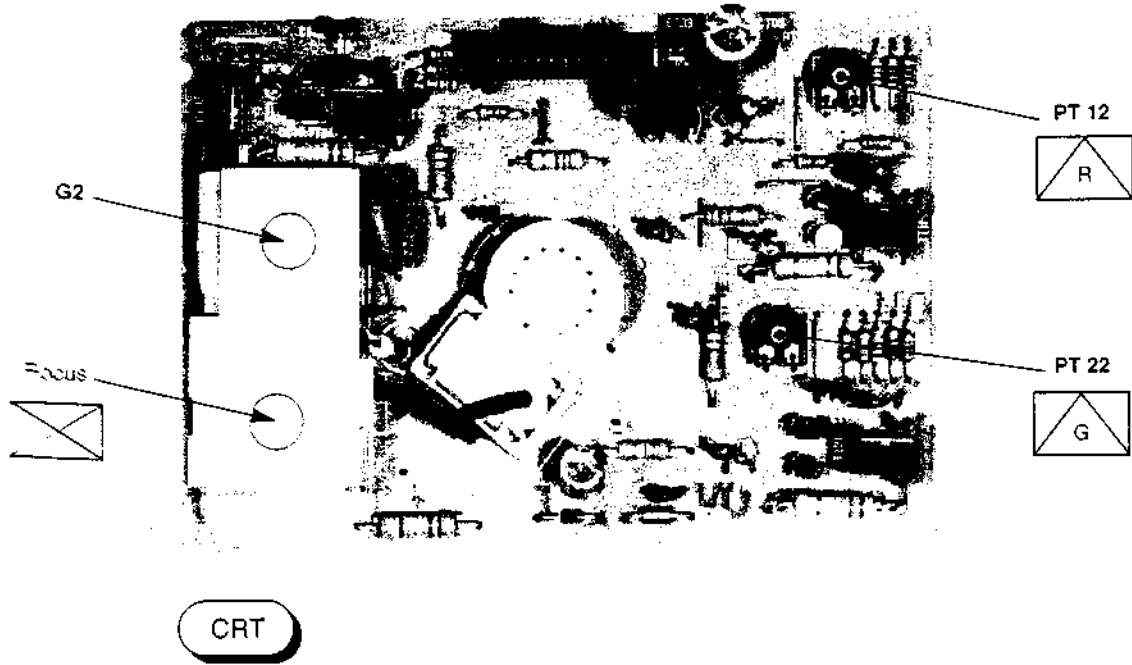


SUB VIDEO 8100 / 8110 / 8300 / 8310 / 8700





II - LOCATION OF CONTROLS - EMBLEMENTS DES REGLAGES - LAGE D

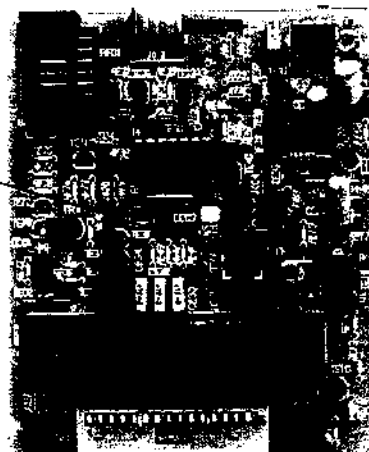


PI 40 HF AGC

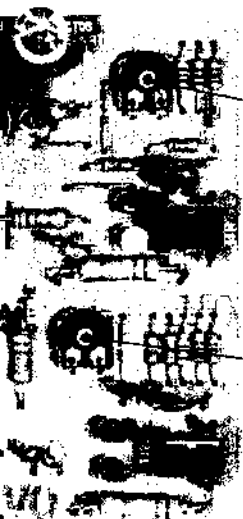
LC 13 Blue disci fo
Fo disci - bleu
Fo diskri - blau
Fo disci - azul
Fo disci - azzuro

* LV 29 Subcarrier reject
Réjecteur sous-porteuse
Zwischenfallen - Unterdrückung
Rechazador de subportadora
Rigettatore sottoportante
SECAM 4,3 MHz

Commut.
SVS / Norm.



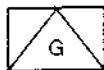
* LC 23 Bell filter
Filtre cloche
Glocken filter
Filtro campana



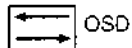
PT 12



PT 22



LR 03



LI 61 Sound rejection
Réjecteur son
Tonunterdrückung
Trampa audio
Reiettore audio

* LC 17 Red discri -
Fo discri -
Fo diskri -
Fo discri -
Fo discri -

PI 40 HF AGC

LC 13 Blue discri fo
Fo discri - bleu
Fo diskri - blau
Fo discri - azul
Fo discri - azzuro

* LV 29 Subcarrier reject
Réjecteur sous-porteuse
Zwischenfallen - Unterdrückung
Rechazador de subportadora
Rigettatore sottoportante
SECAM 4,3 MHz

* LC 23 Bell filter
Filtre cloche
Glocken filter
Filtro campana

LC 43 Delay line
Ligne à retard
Verzögerungsleitung
Linea de retardo
Linea di ritardo

MAIN



PV 79



PV 58



PG 20
16/9

* : SECAM

OSD

LI 61 Sound rejection
Réjecteur son
Tonunterdrückung
Trampa audio
Reiettore audio

* LC 17 Red discri fo
Fo discri - rouge
Fo diskri - rot
Fo discri - rojo
Fo discri - rosso

PP 52 V = U Syst.*
* See schema.

* LC 54 Identification
Identification
Kennung
identificación
Identificazione



LC 43 Delay line
Ligne à retard
Verzögerungsleitung
Linea de retardo
Linea di ritardo



PV 79



PV 58



PG 20
16/9



PL 39



PF 04



PF 11



PG 04



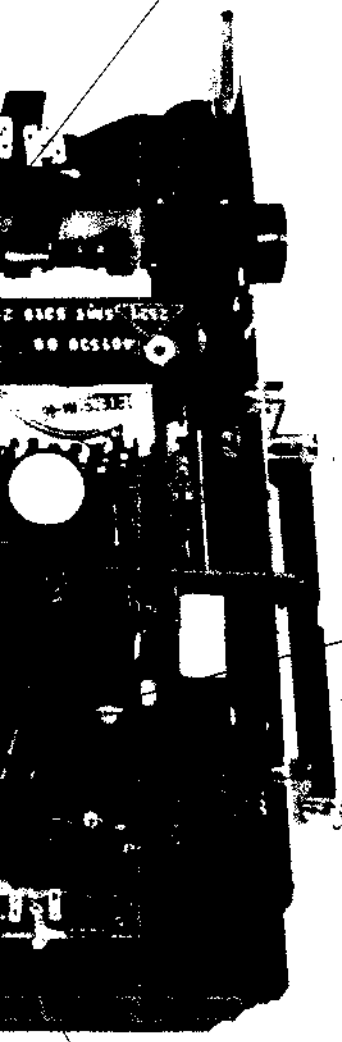
PG 06



PG 01

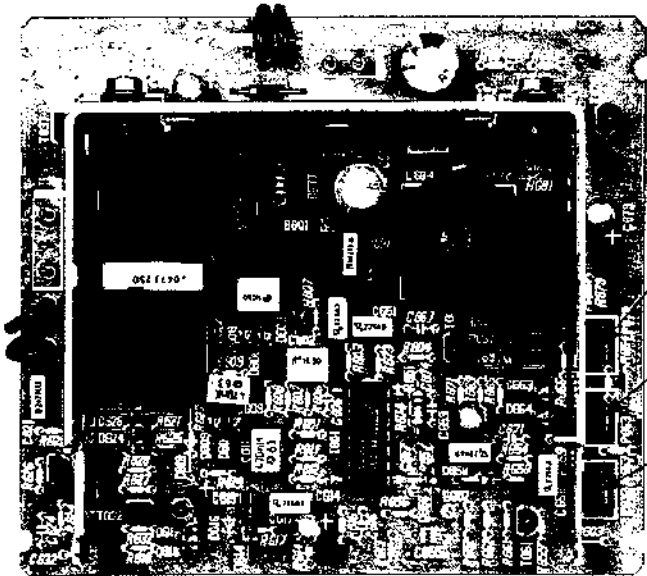
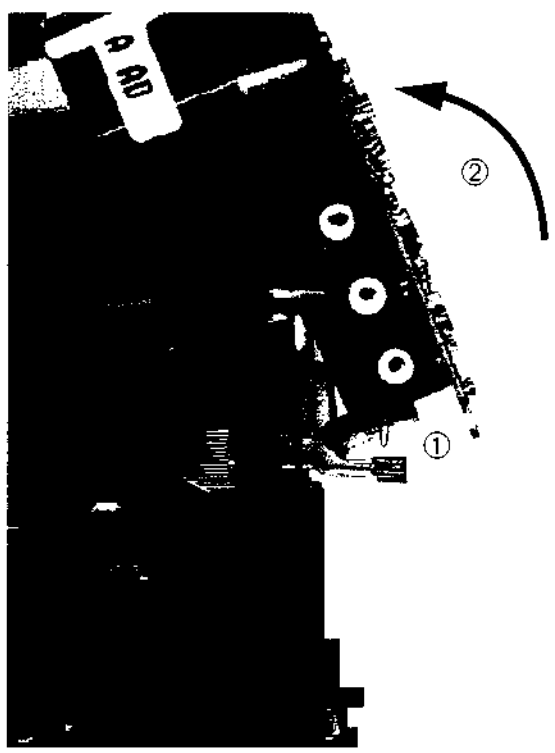
REGOLAZIONI



* LC 54 Identification
 Identification
 Kennung
 identificación
 Identificazione

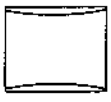
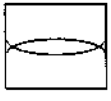
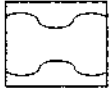


PC 44 PAL amplitude
 Amplitude PAL
 PALpegel
 Amplitud PAL
 Ampiezza PAL

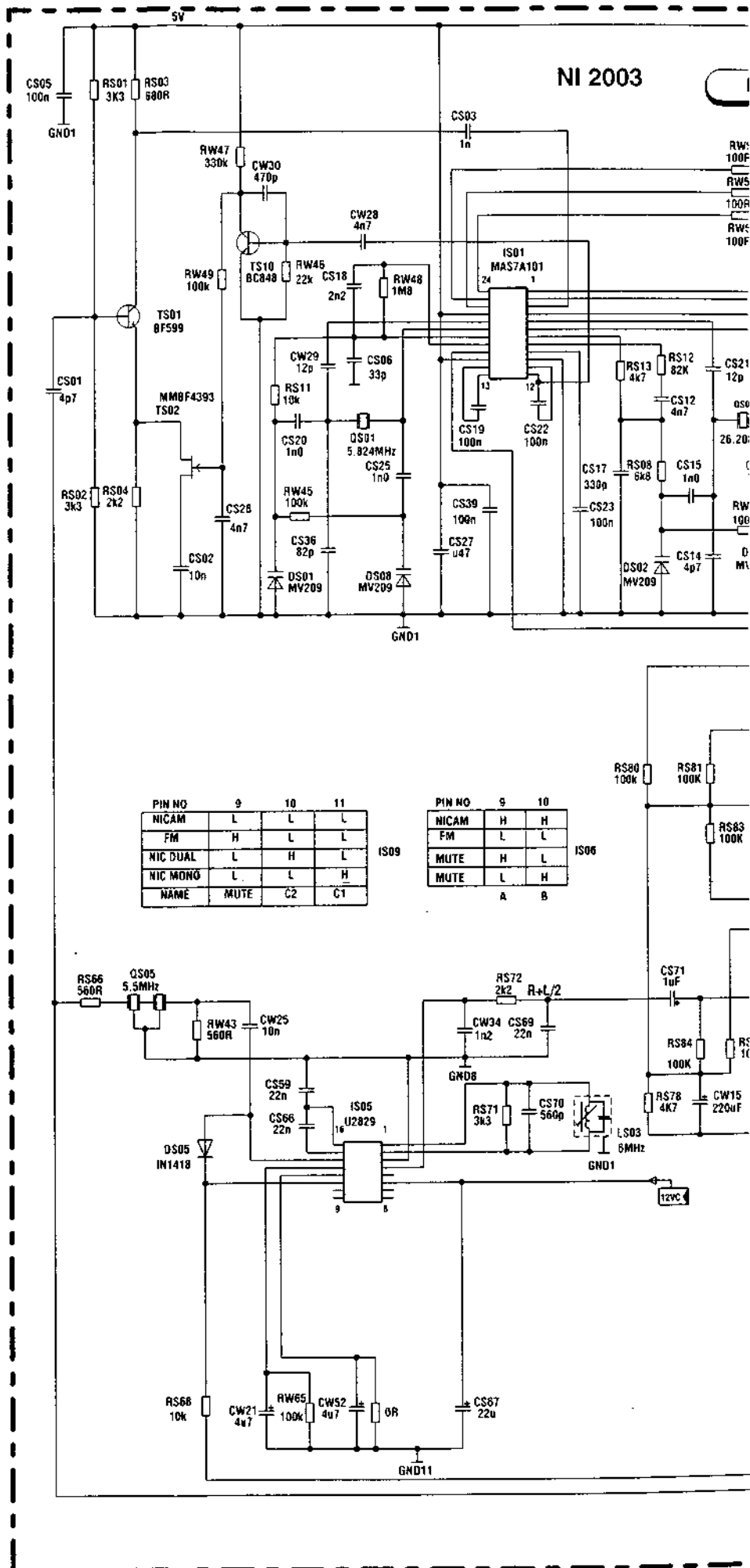
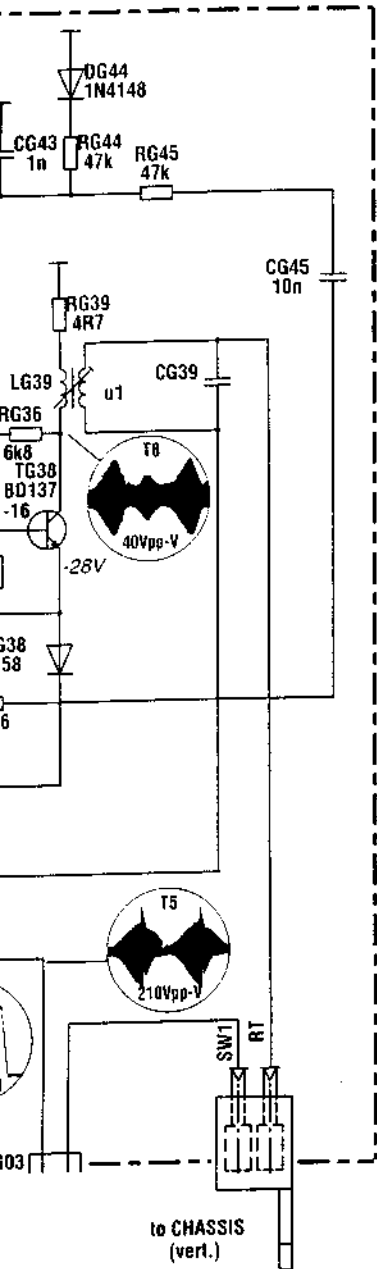
REMOVING N/S PCB
 DEMONTAGE DE LA PLATINE N / S
 ABNAHME N/S PLATTE
 RETIRADA PLATINA N/S
 SMONTAGGIO PIASTRA N/S



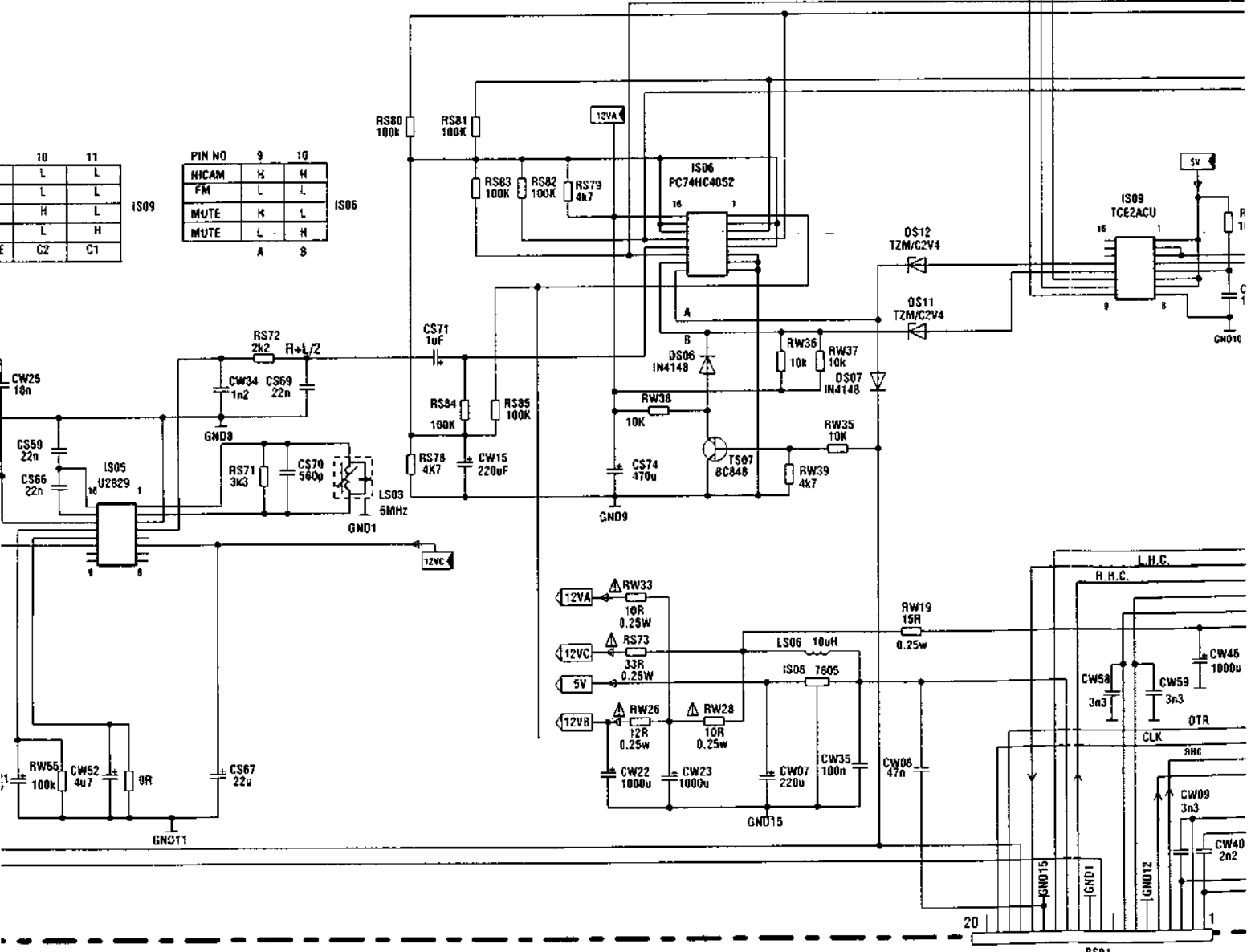
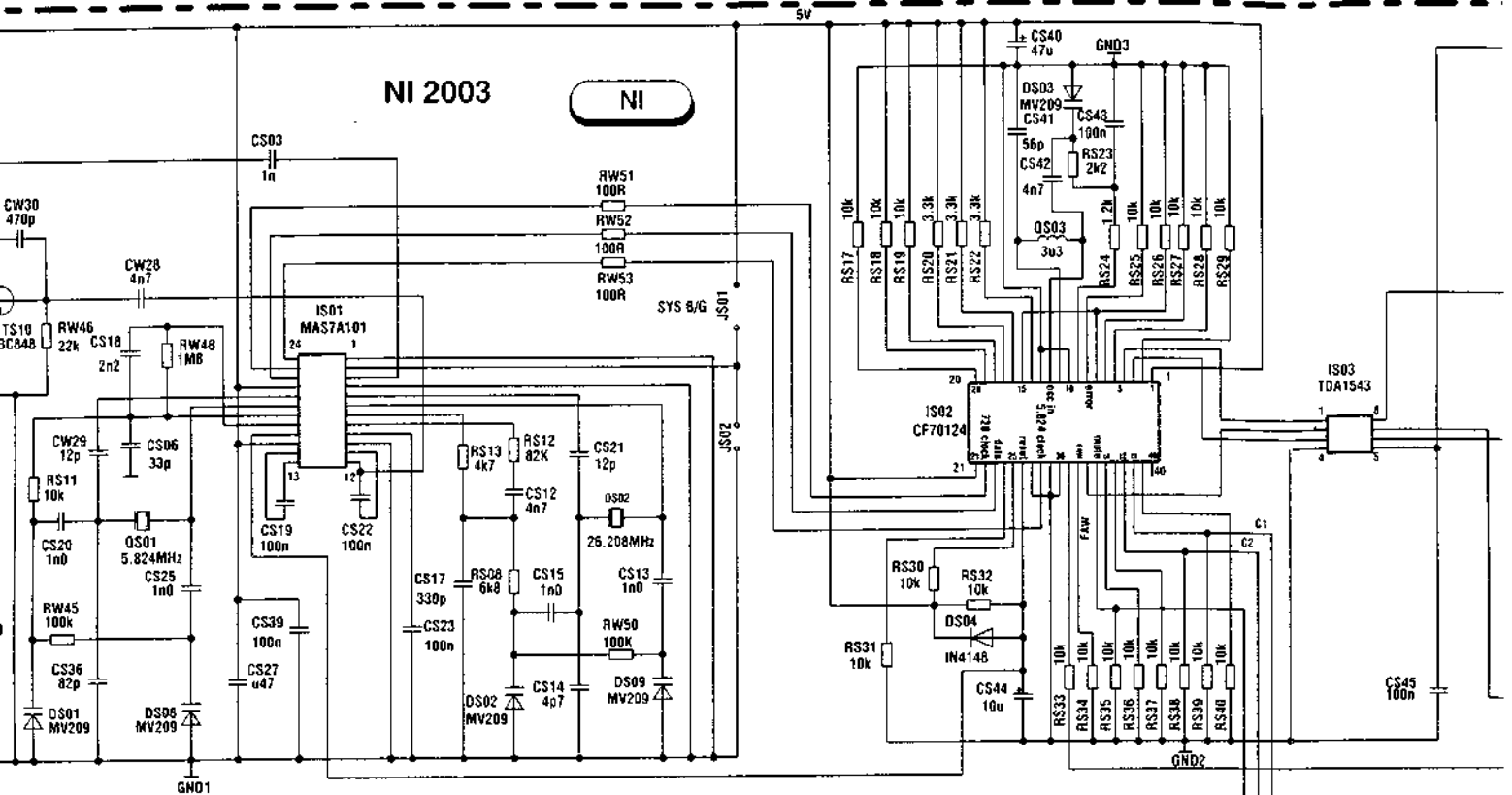
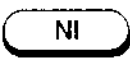
PG 06 
 PG 01 

PG 79 
 PG 63 
 PG 32 

NS



NI 2003



PIN NO	9	10
NICAM	H	H
FM	L	L
MUTE	H	L
MUTE	L	H

A B

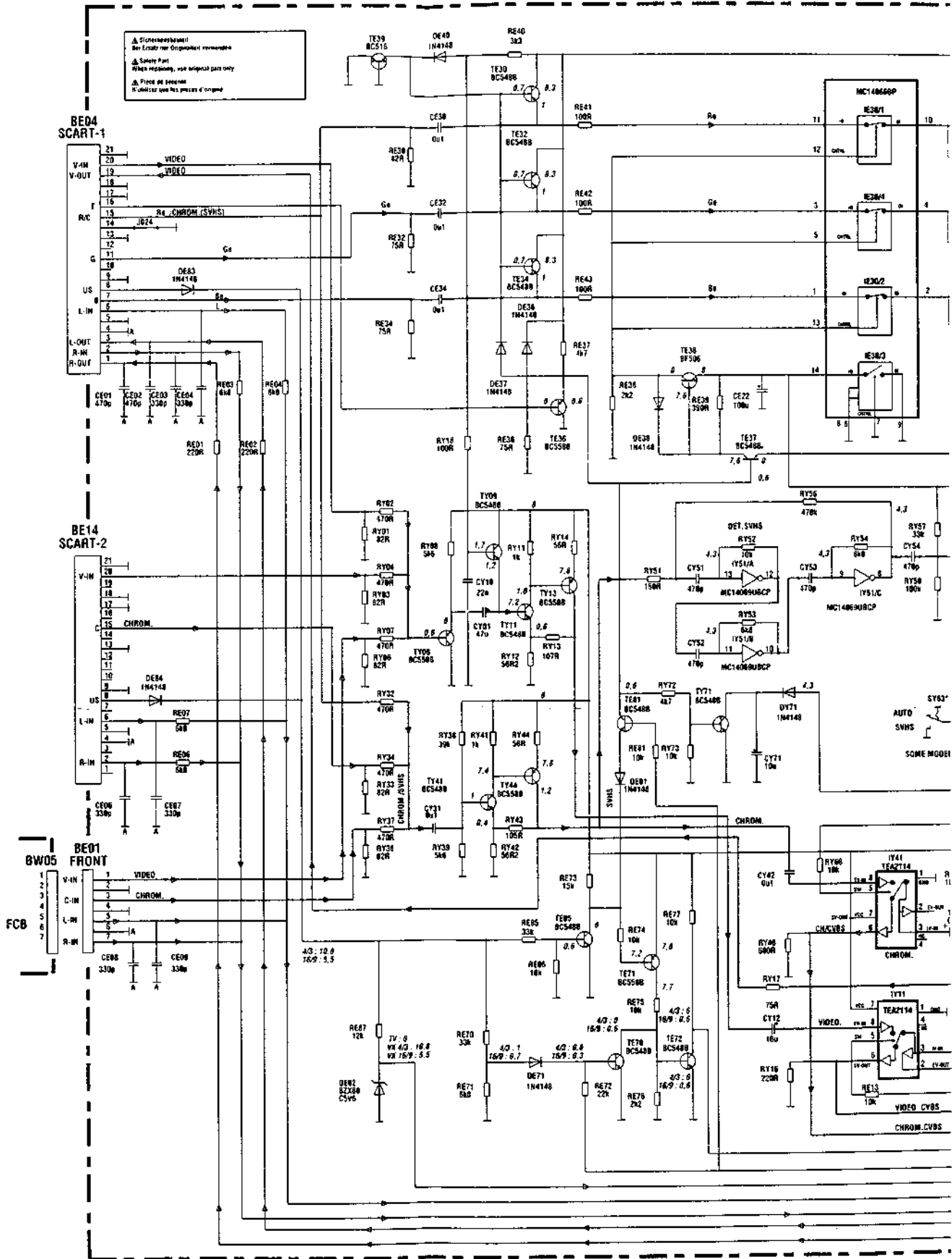
10	11
L	L
H	L
L	H

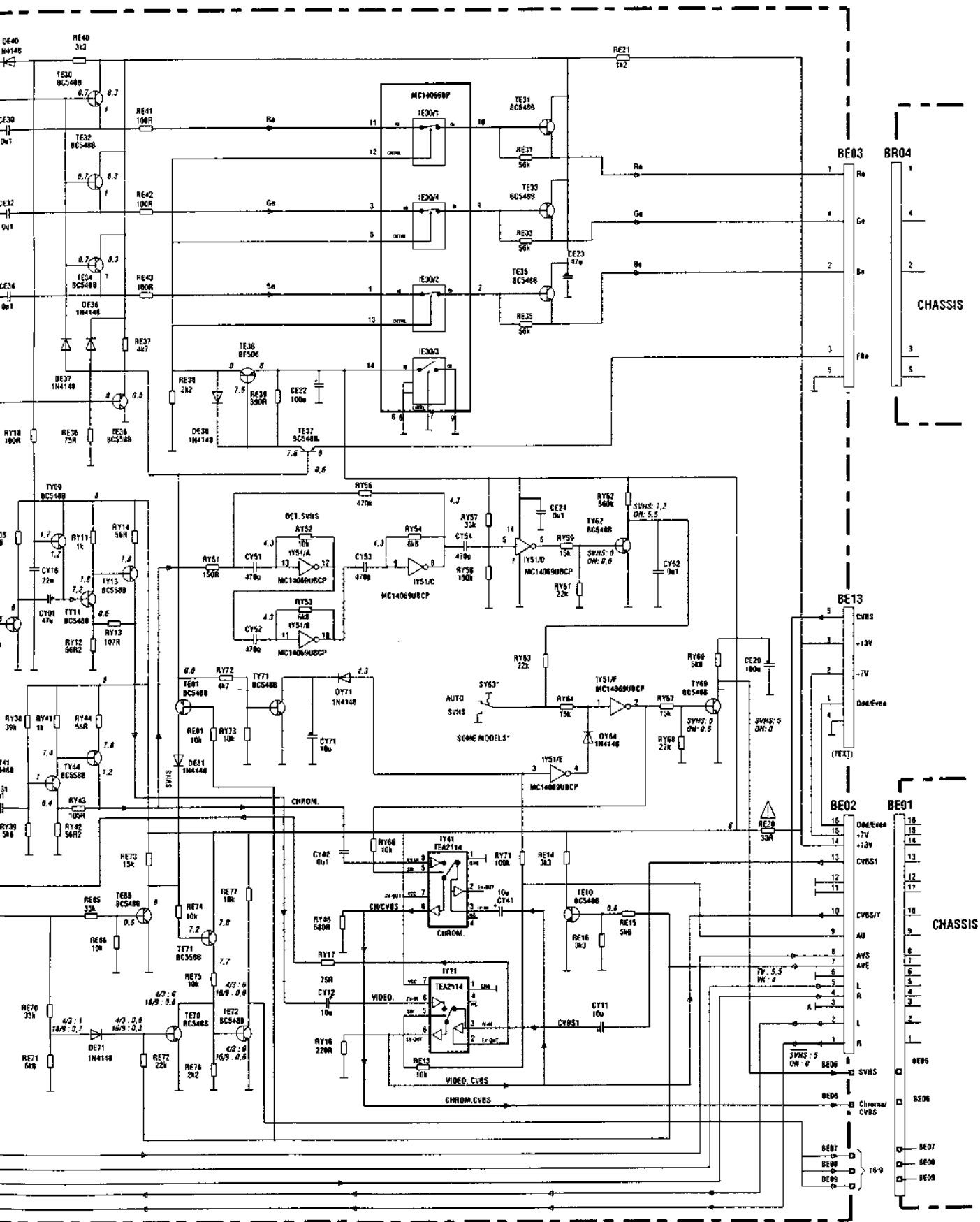
C2 C1

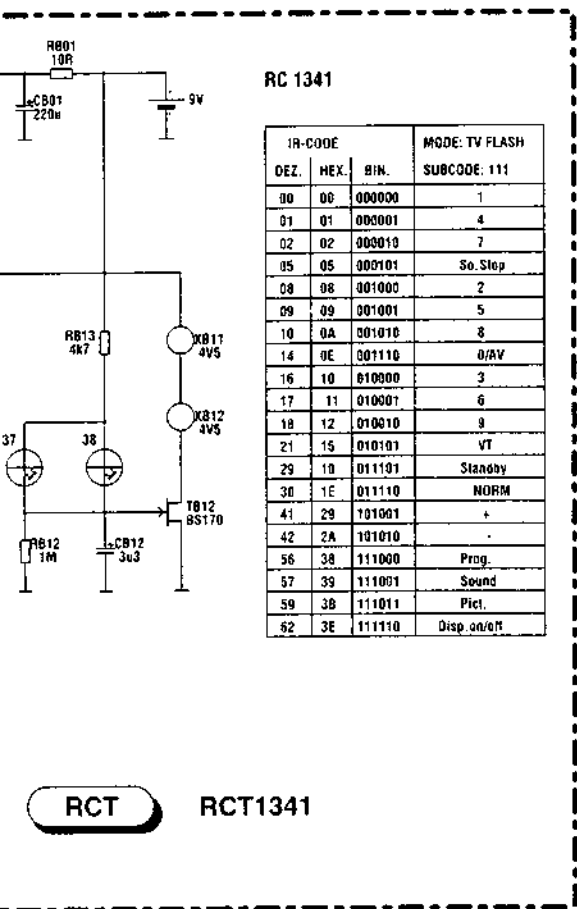
SCI SCI7040



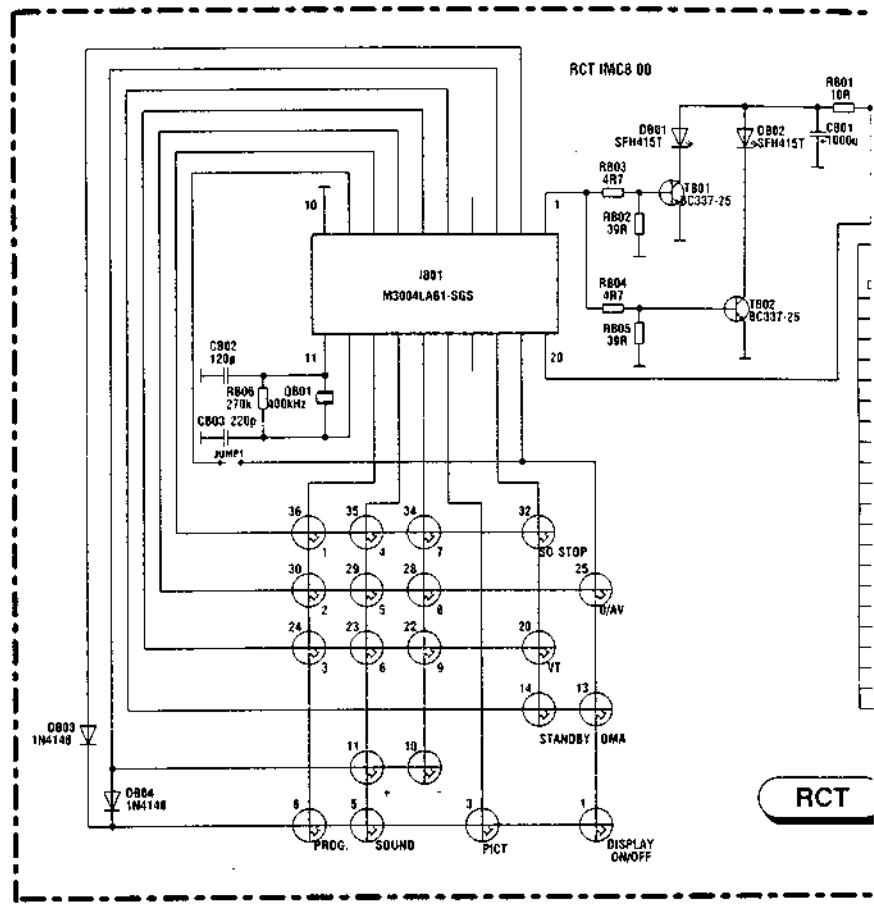
⚠ **Classement de sécurité**
 ⚠ **Safety Part**
 ⚠ **When replacing, use original part only**
 ⚠ **Place de sécurité**
 ⚠ **Utiliser uniquement les pièces d'origine**



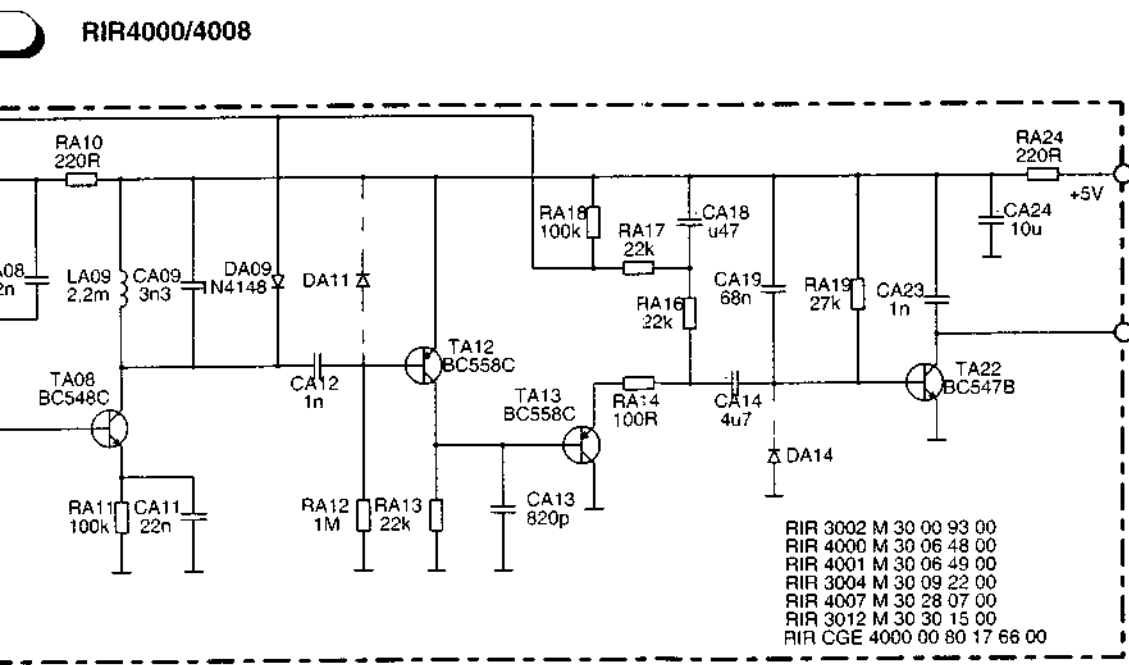




RCT RCT1341

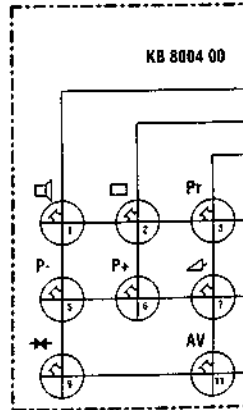


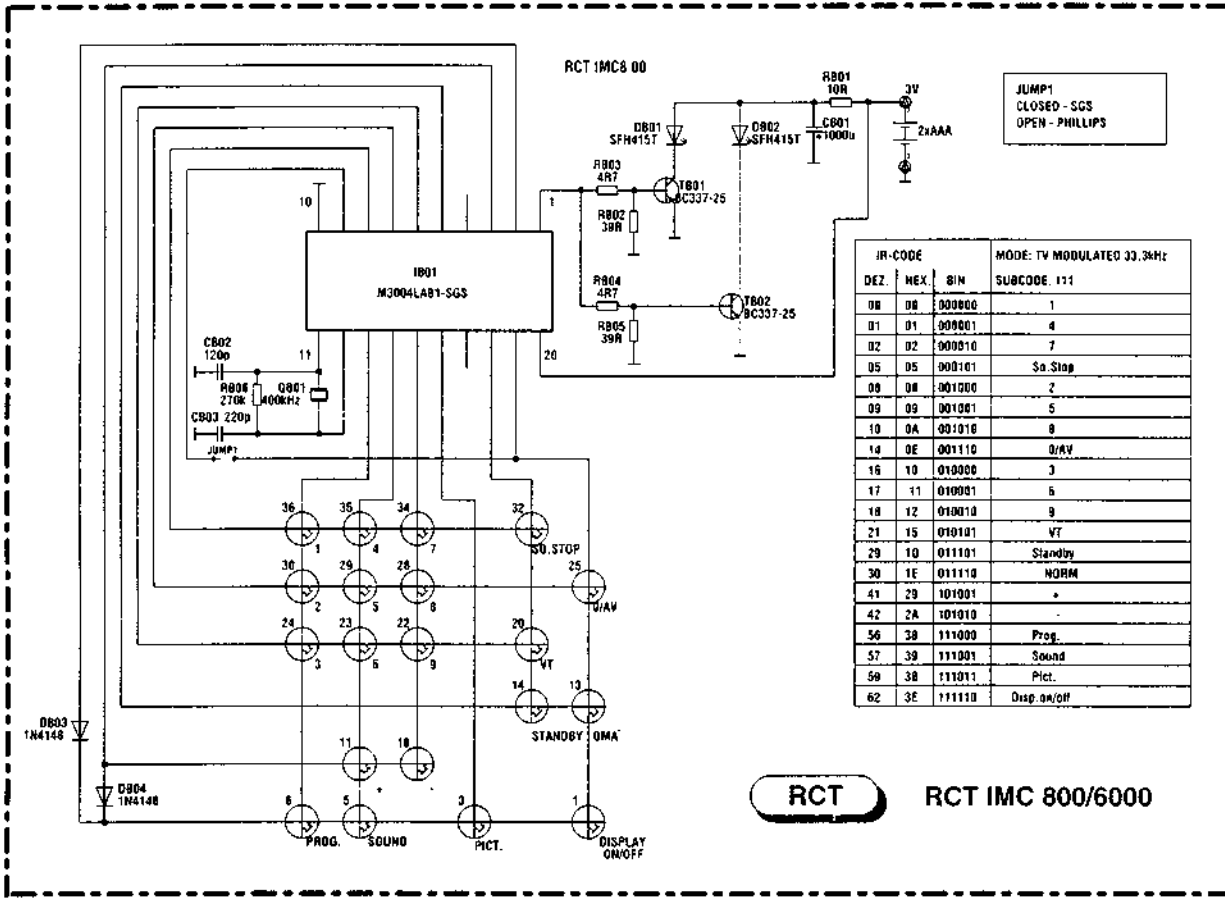
RCT



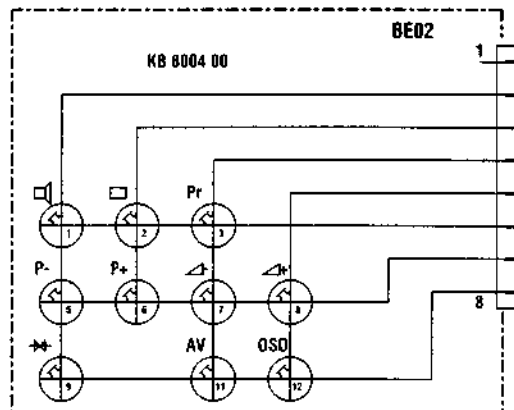
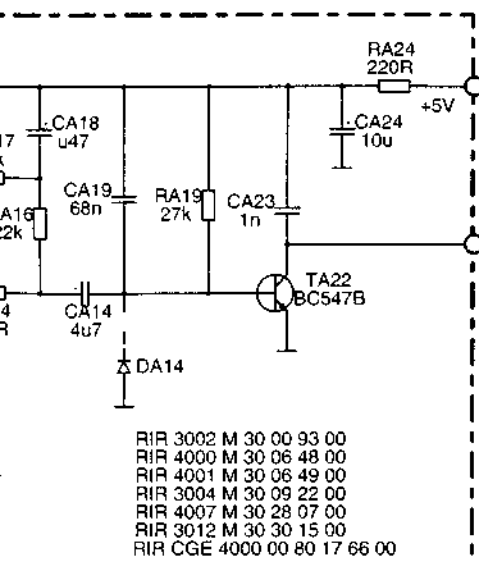
- RIR 3002 M 30 00 93 00
- RIR 4000 M 30 06 48 00
- RIR 4001 M 30 06 49 00
- RIR 3004 M 30 09 22 00
- RIR 4007 M 30 28 07 00
- RIR 3012 M 30 30 15 00
- RIR CGE 4000 00 80 17 66 00

KB

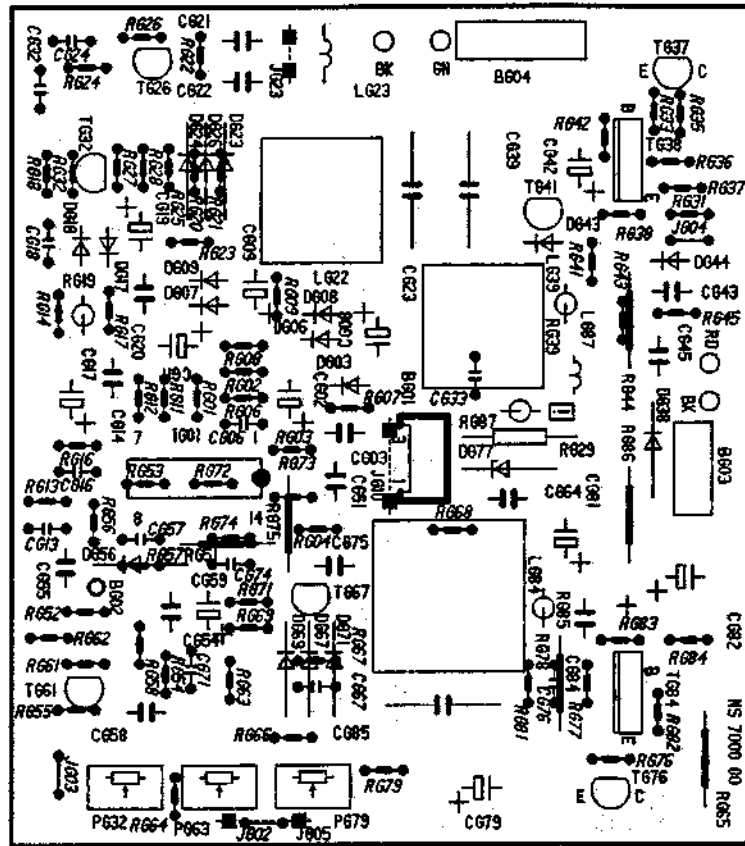




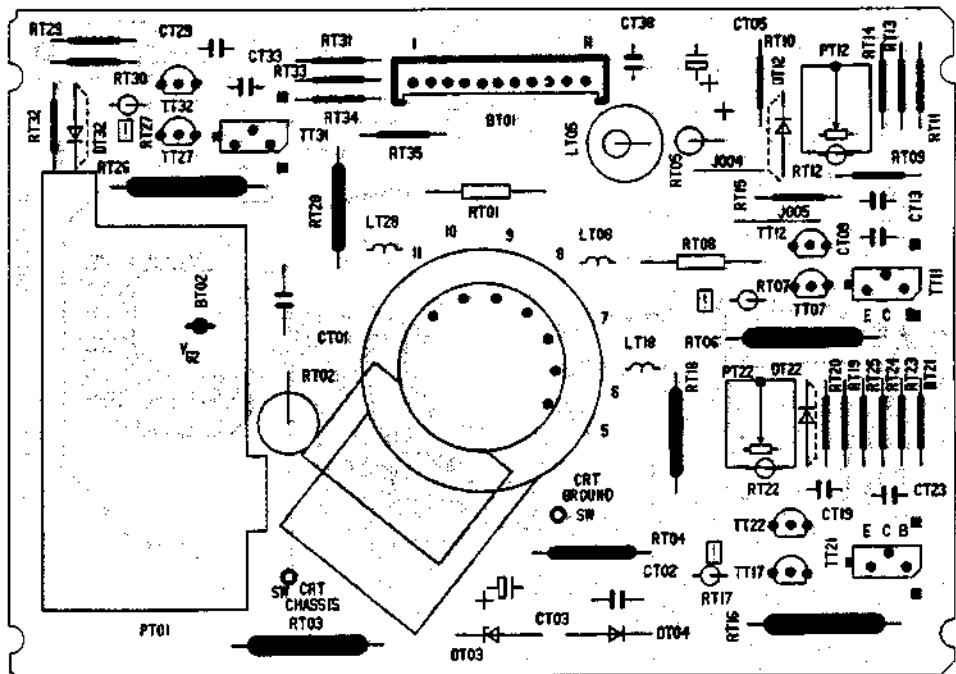
KB KB 8004



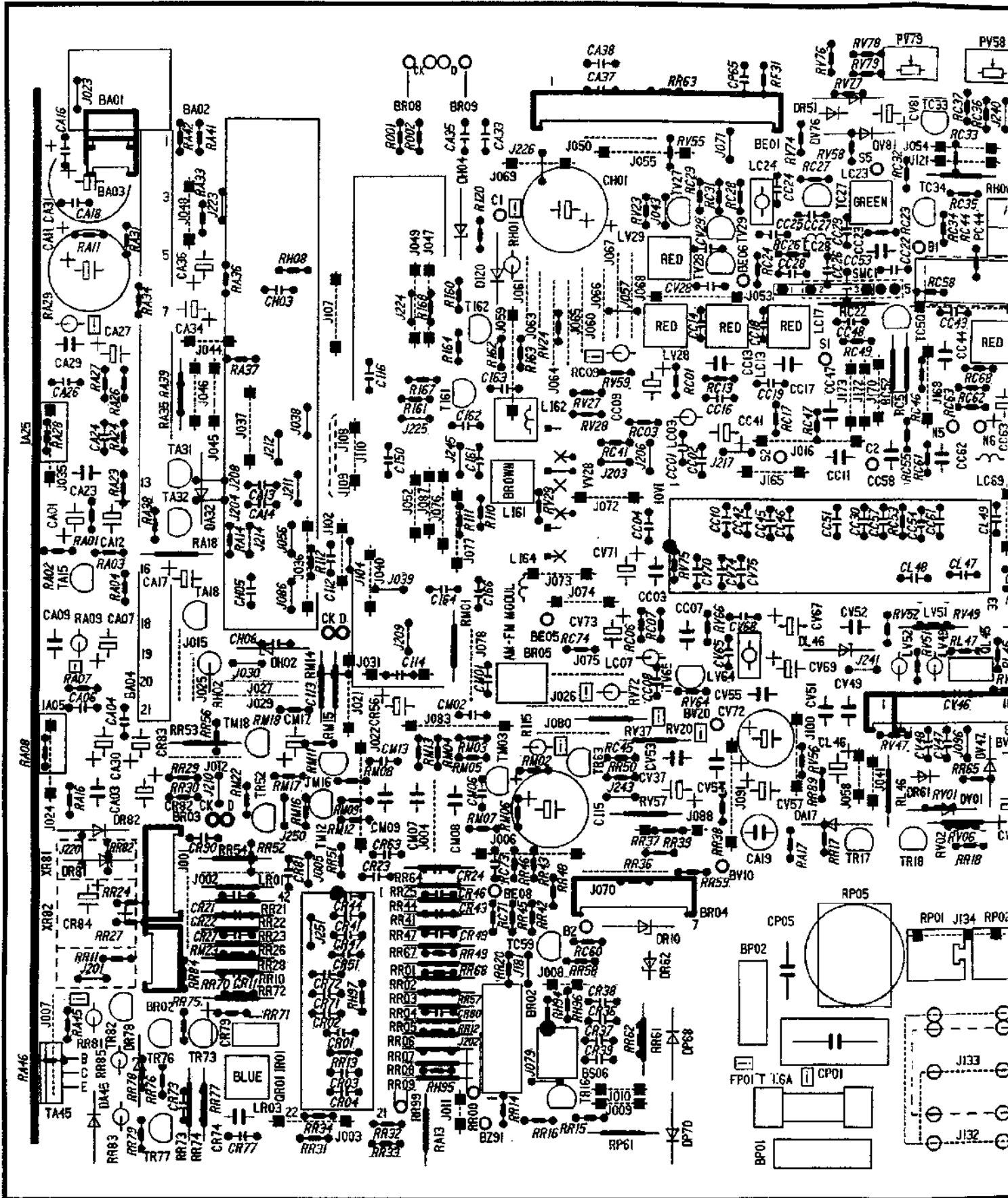
NS 7000/8000/8002



CRT 2007/7000

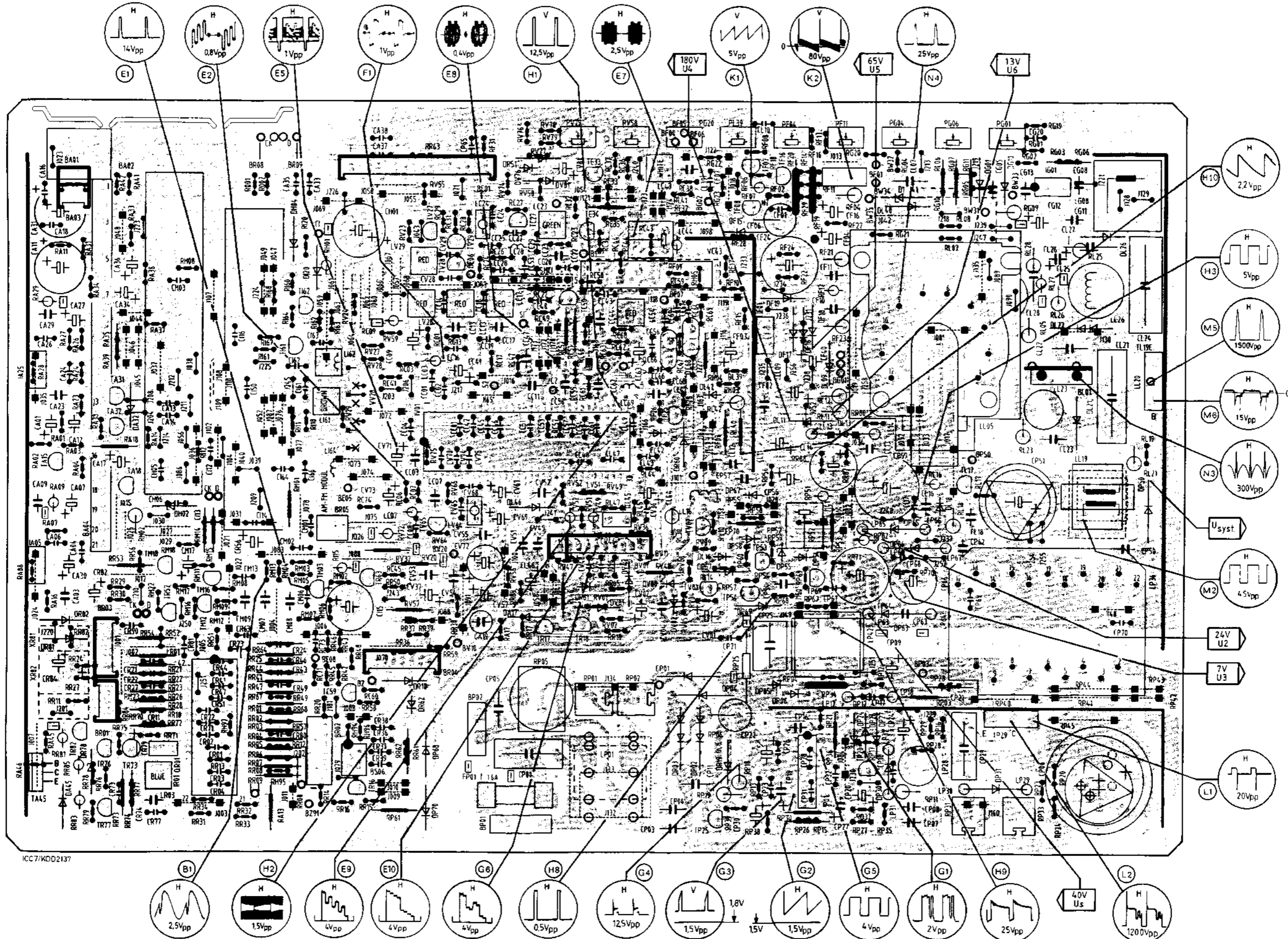


(SOLDER SIDE - COTE CUIVRE - LOTSEITE - LADO DEL COBRE - LATO SALDATURE)



Chassis-Grundplatte · Chassis base board · Plaque de base du chassis · Piastra base telaio · Chasis placa base

Lötseite · Solder side · Côté soudure · Lato saldatura · Lado soldaduras



ICC7/K002137

Vide
Telet
Dec
Dec
Desc

1V03
BK RAN

10
11
12

1V10
1V11
1V12

1V13
1V14
1V15

1V16
1V17
1V18

1V19
1V20
1V21

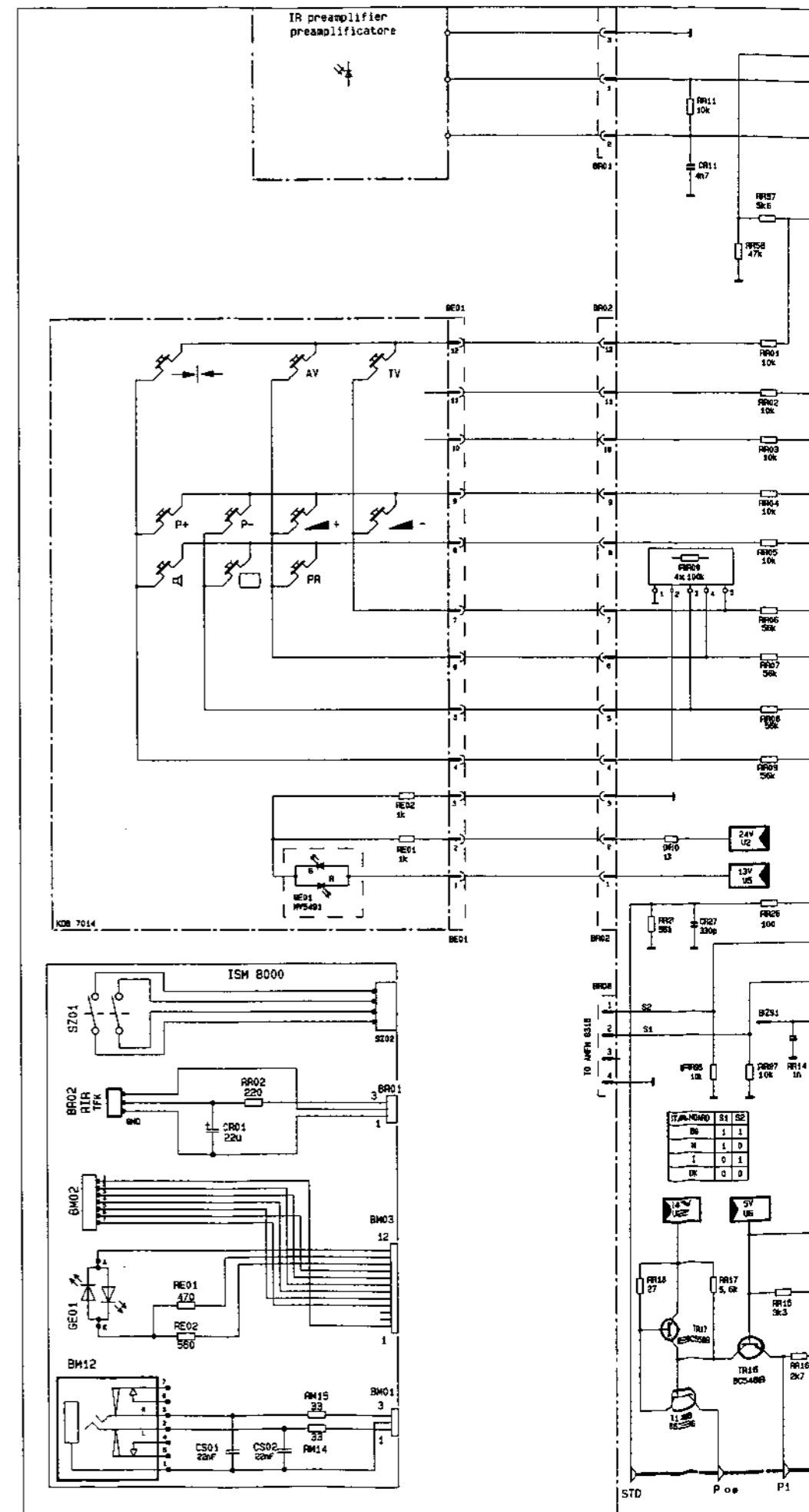
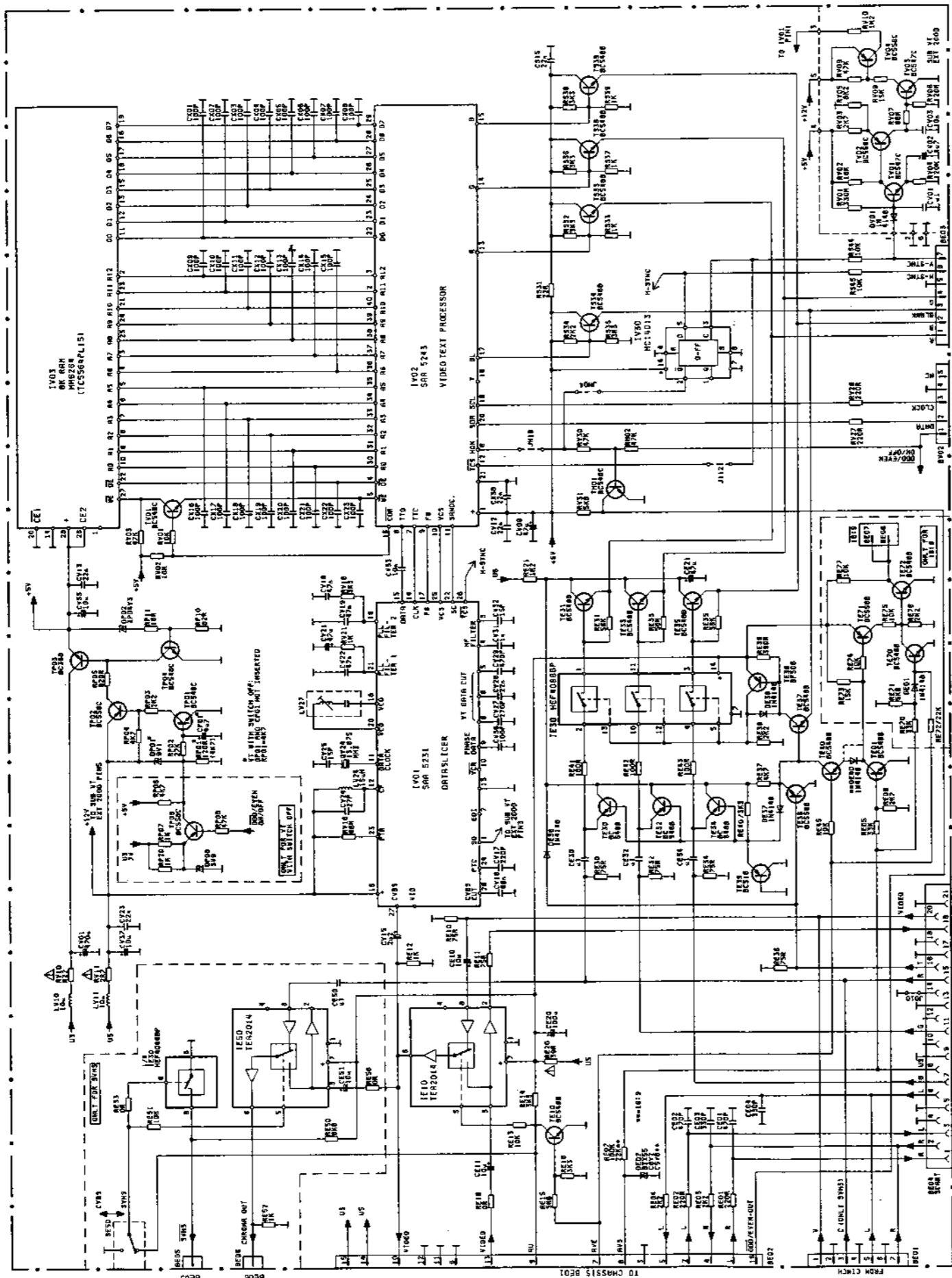
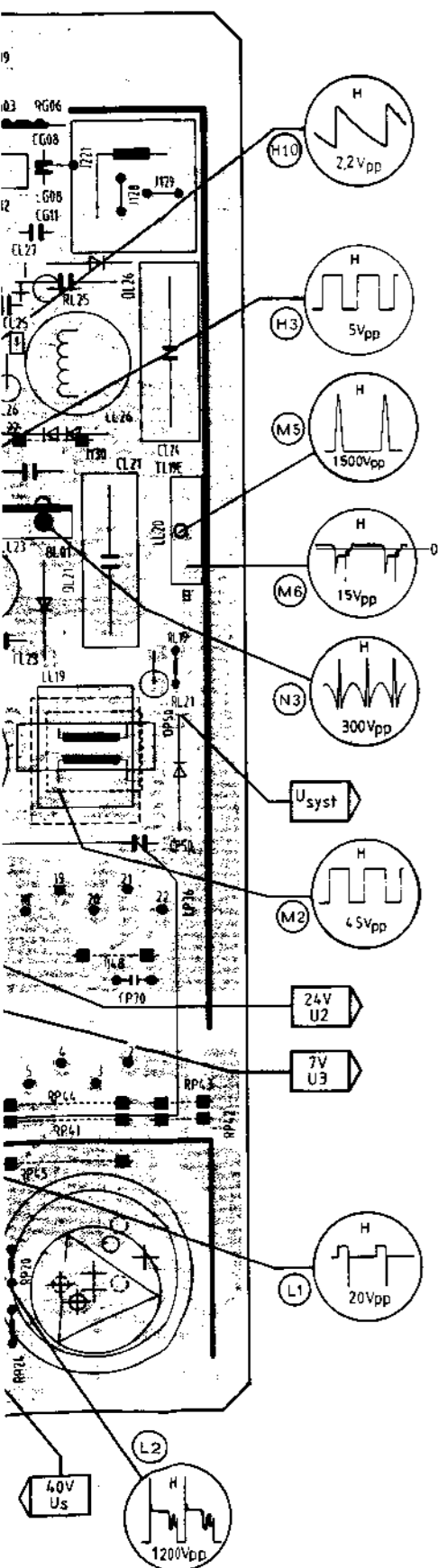
1V22
1V23
1V24

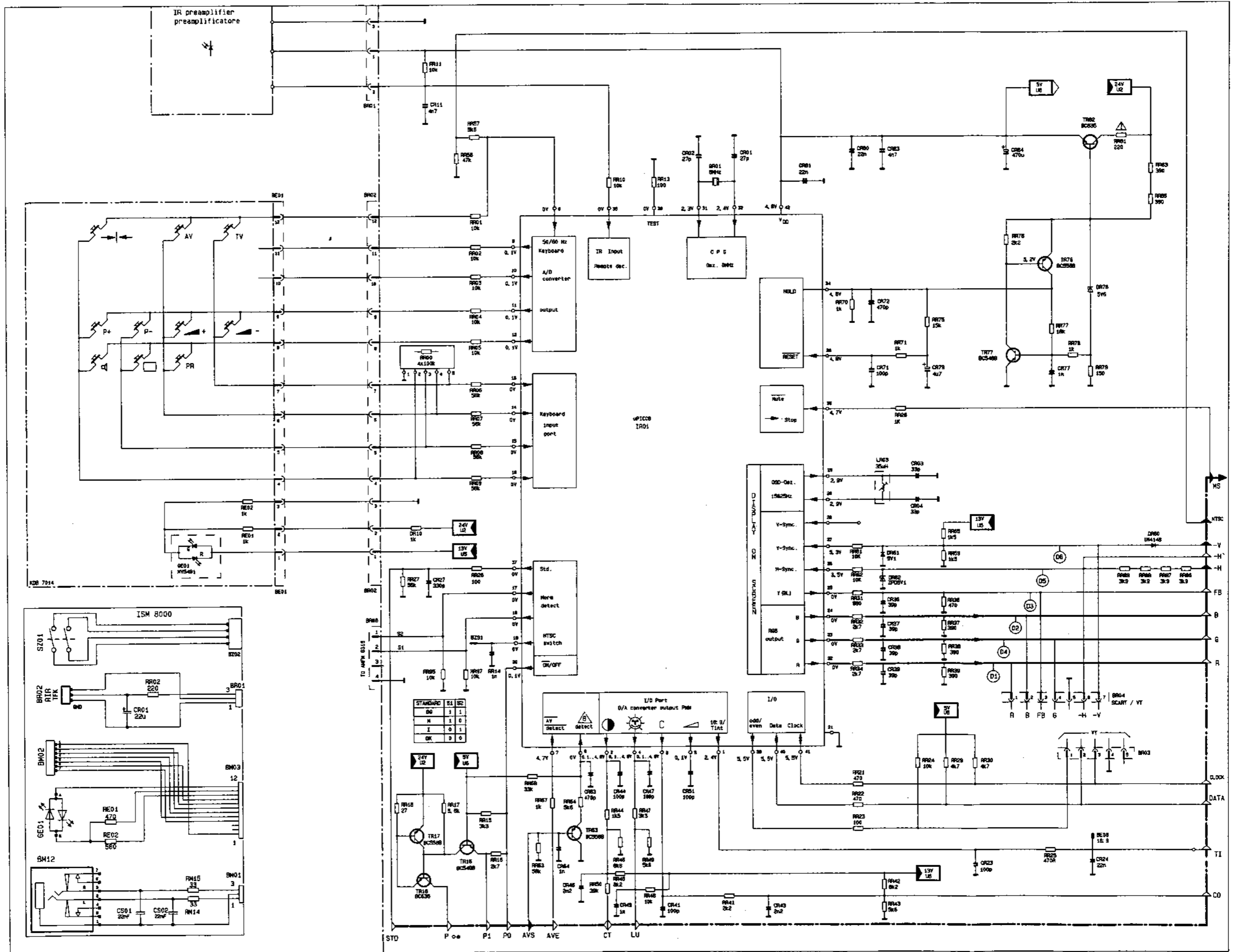
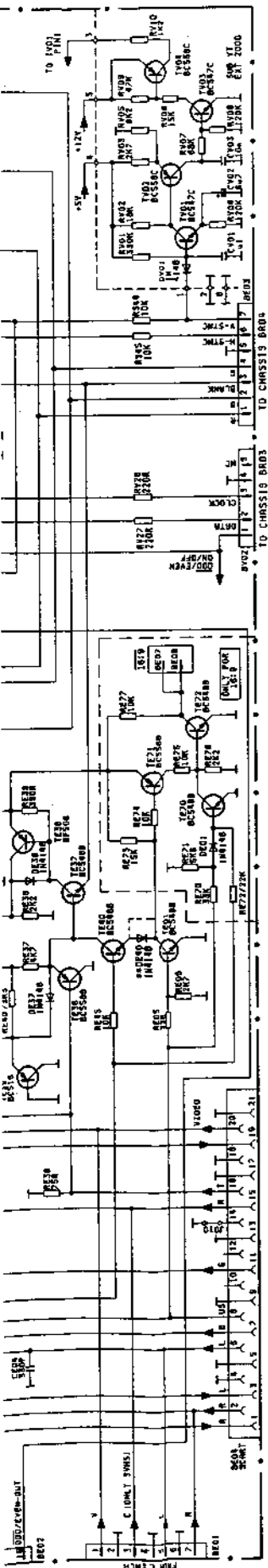
1V25
1V26
1V27

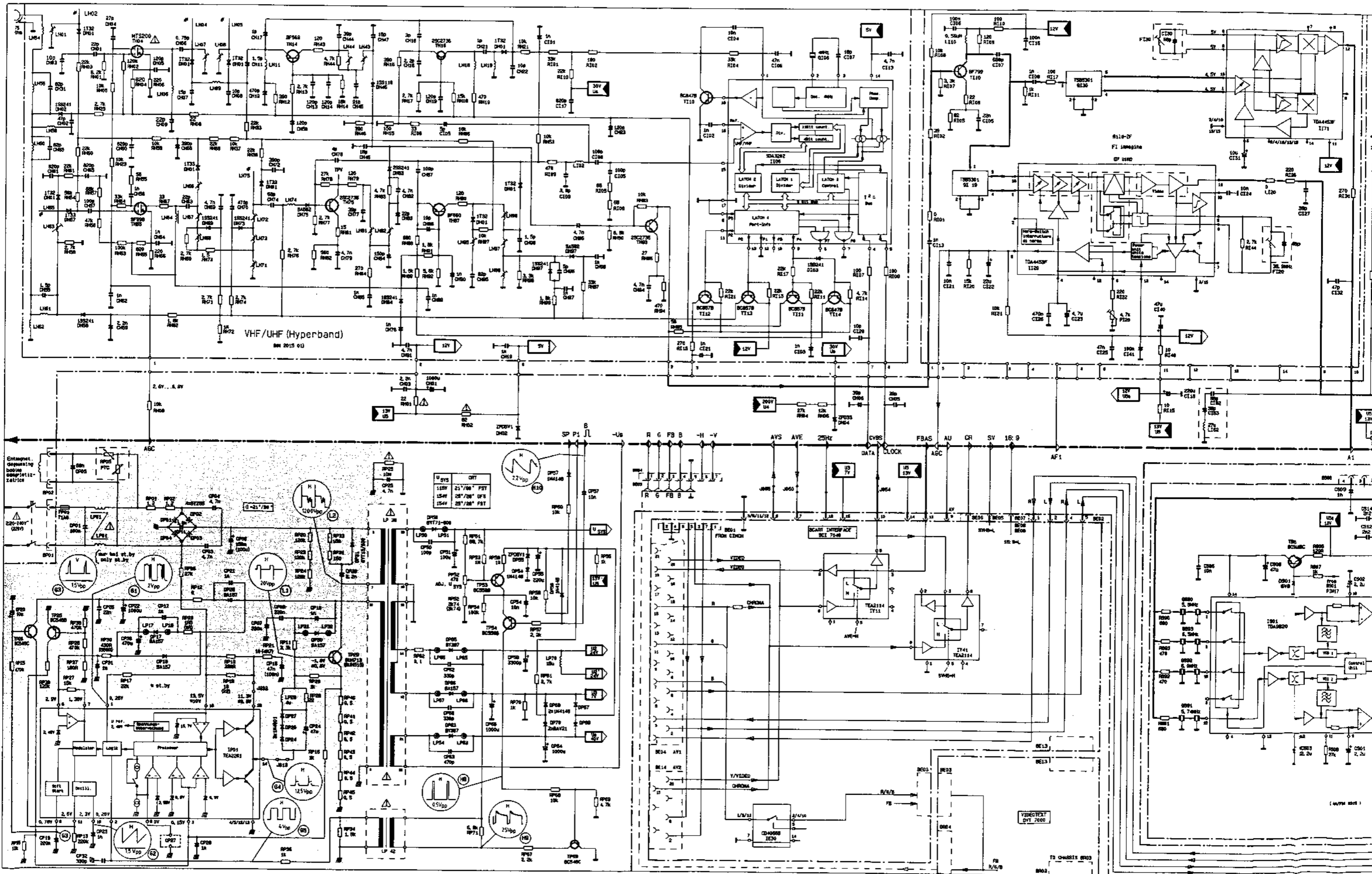
Videotext-Decoder
Teletext Decoder
Décodeur Vidéotexte
Decoder Televideo
Descodificador Teletexto

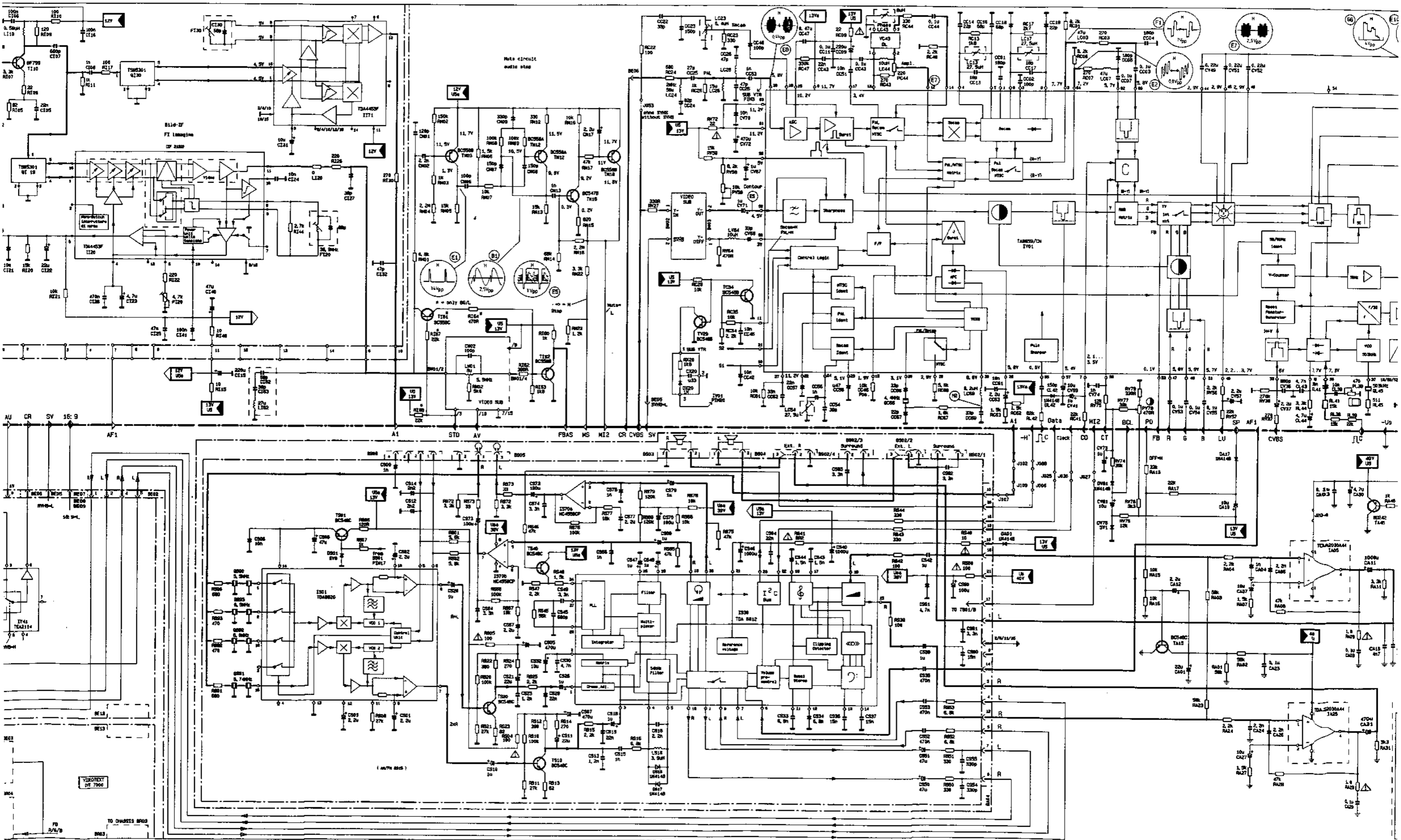
DVT 2012 SVHS
DVT 2013 SVHS/16:9
DVT 2014

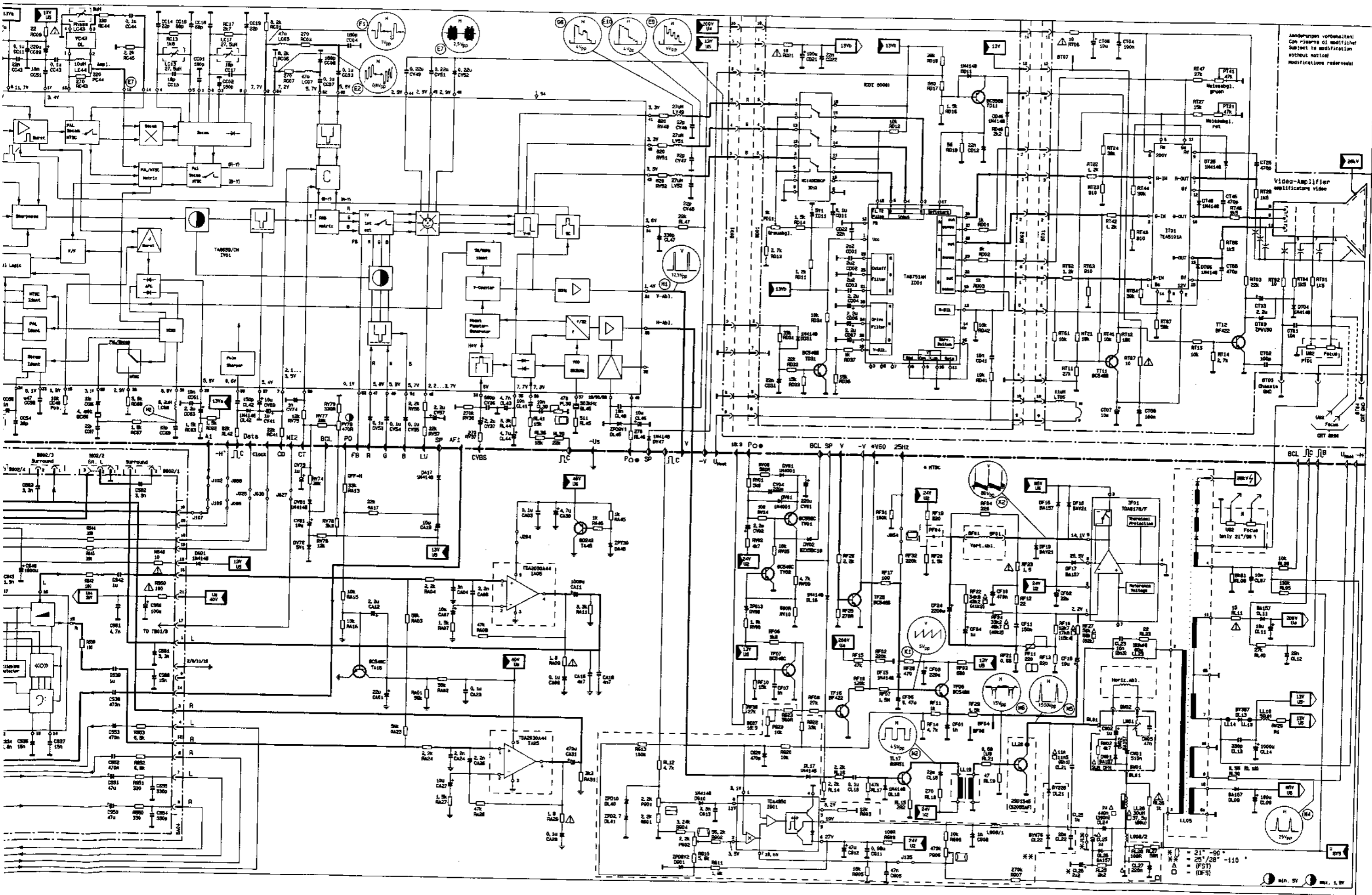
Chassis ICC 8





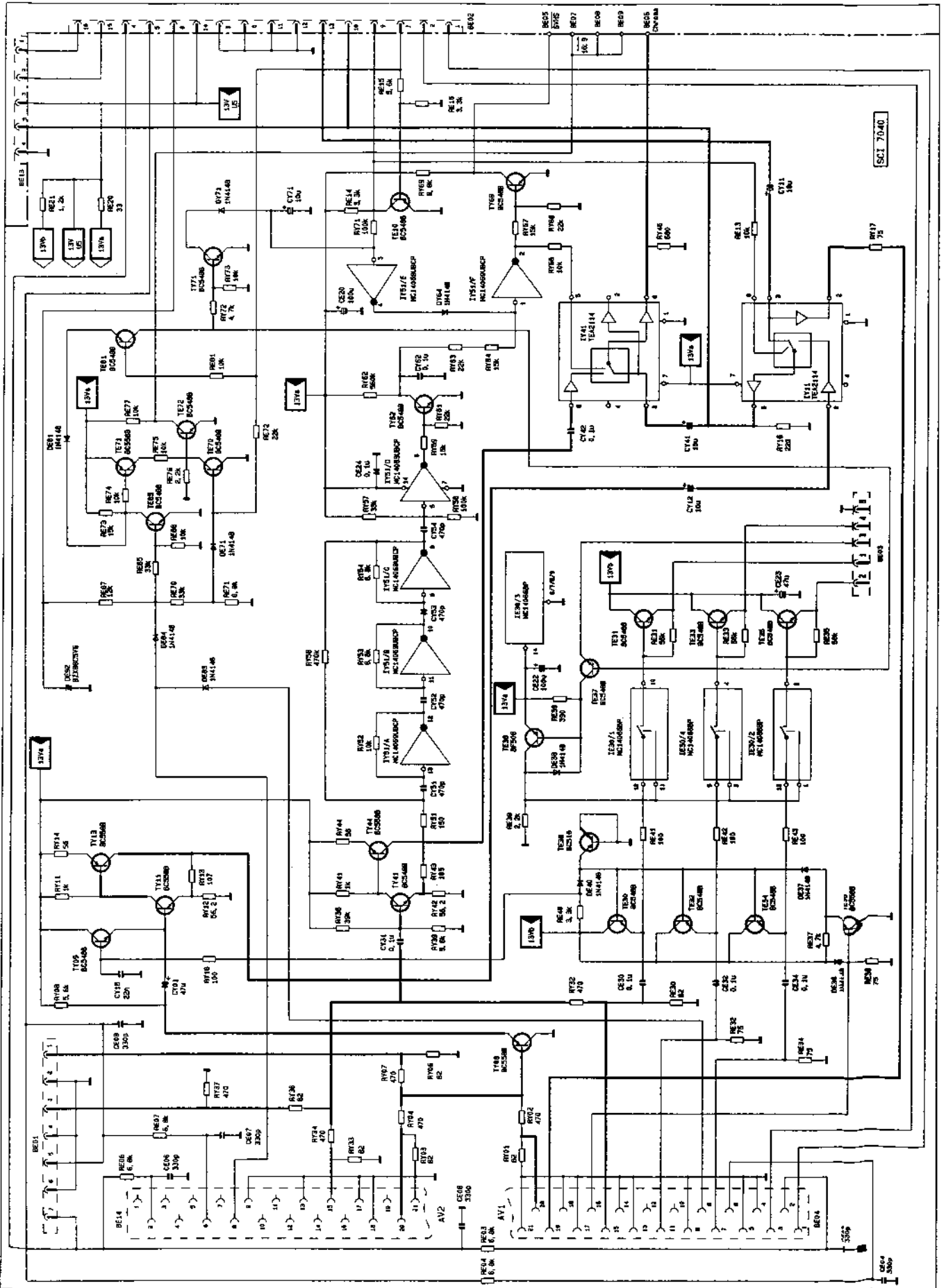




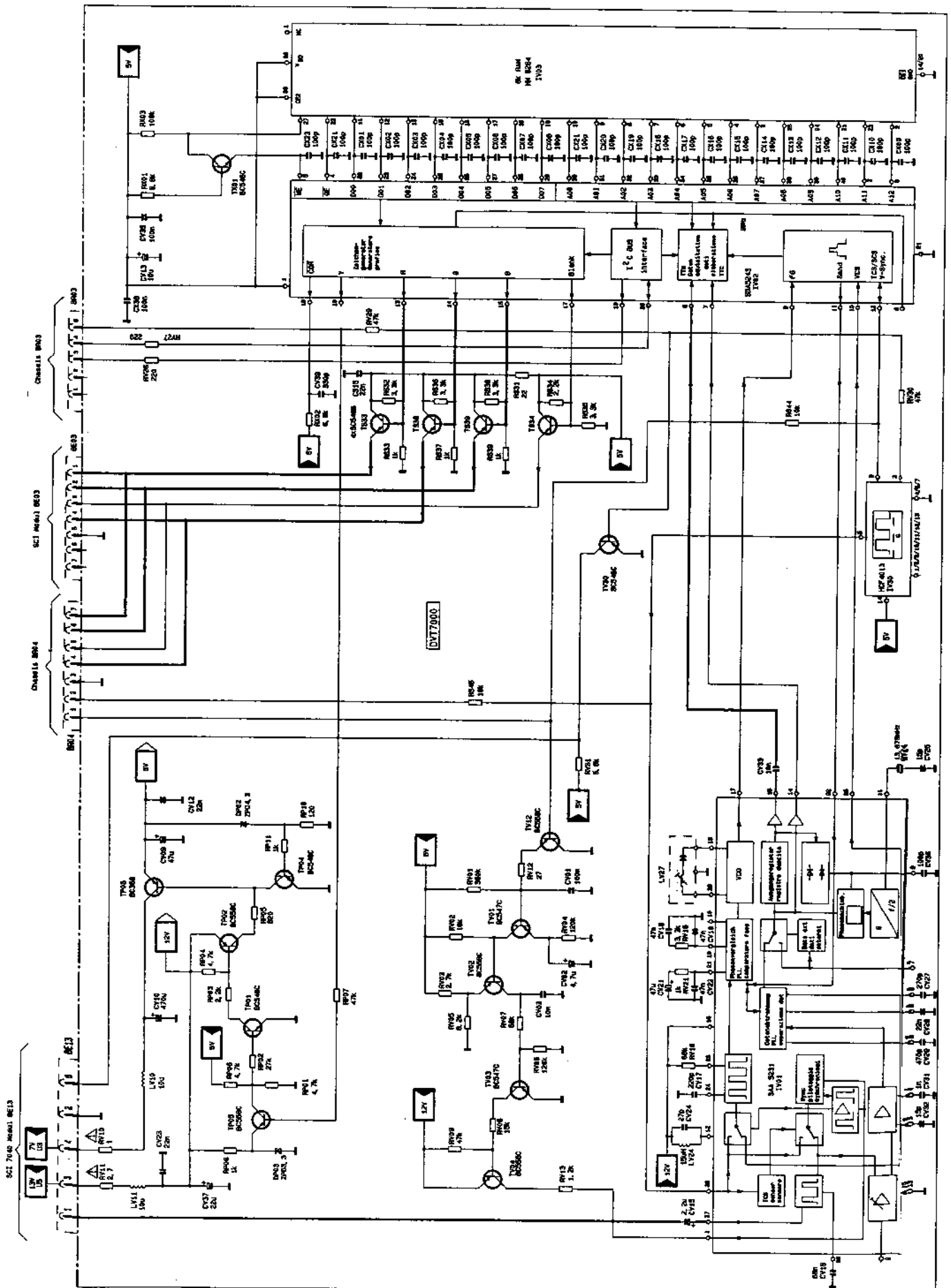


Änderungen vorbehalten
 Con riserva di modifiche
 Subject to modification
 Modifications reserved

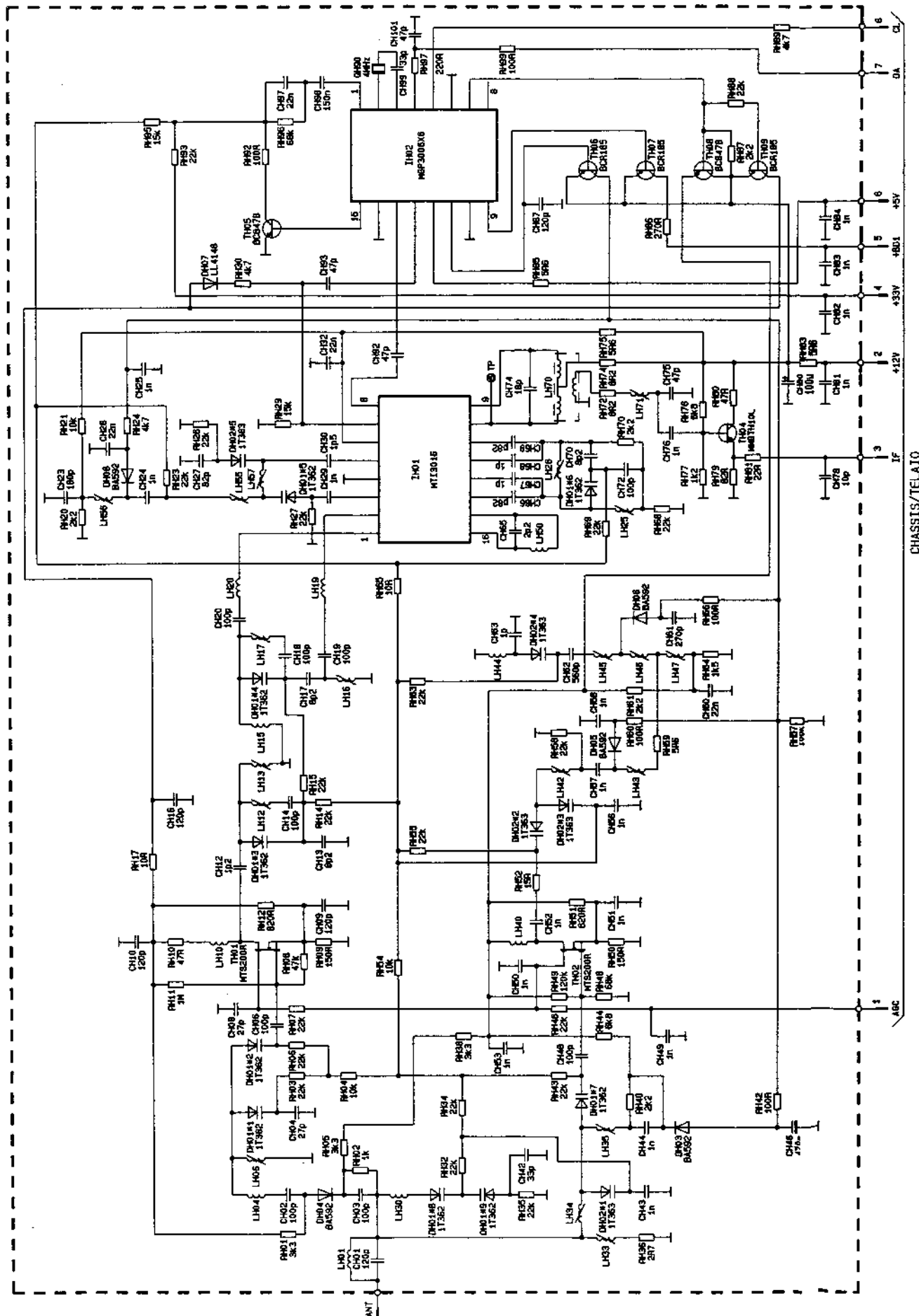
Scart-Anschluß SCI 7040 · Scart Interface · Module Péri-télévision · Modulo Scart



Videotext-Decoder DVT 7000 · Teletext Decoder · Décodeur Vidéotexte · Decoder Televideo · Descodificador Teletexto

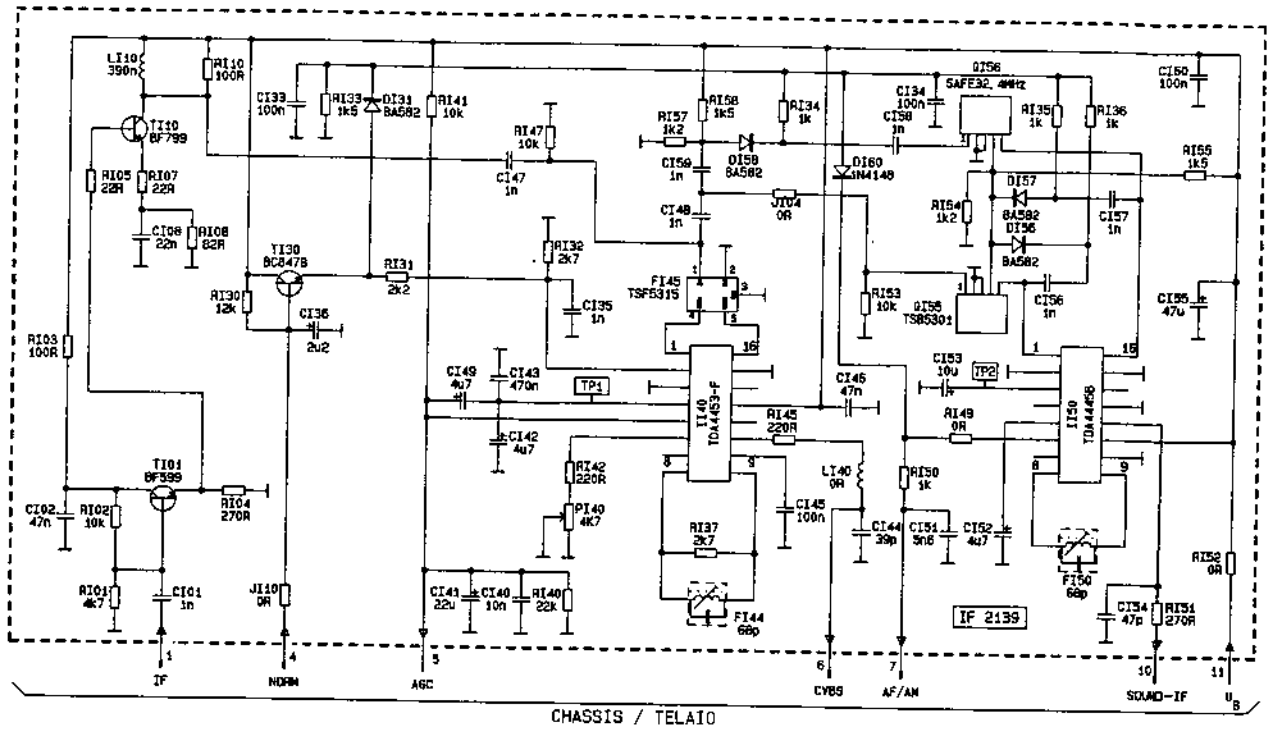


Tuner MTP 4015

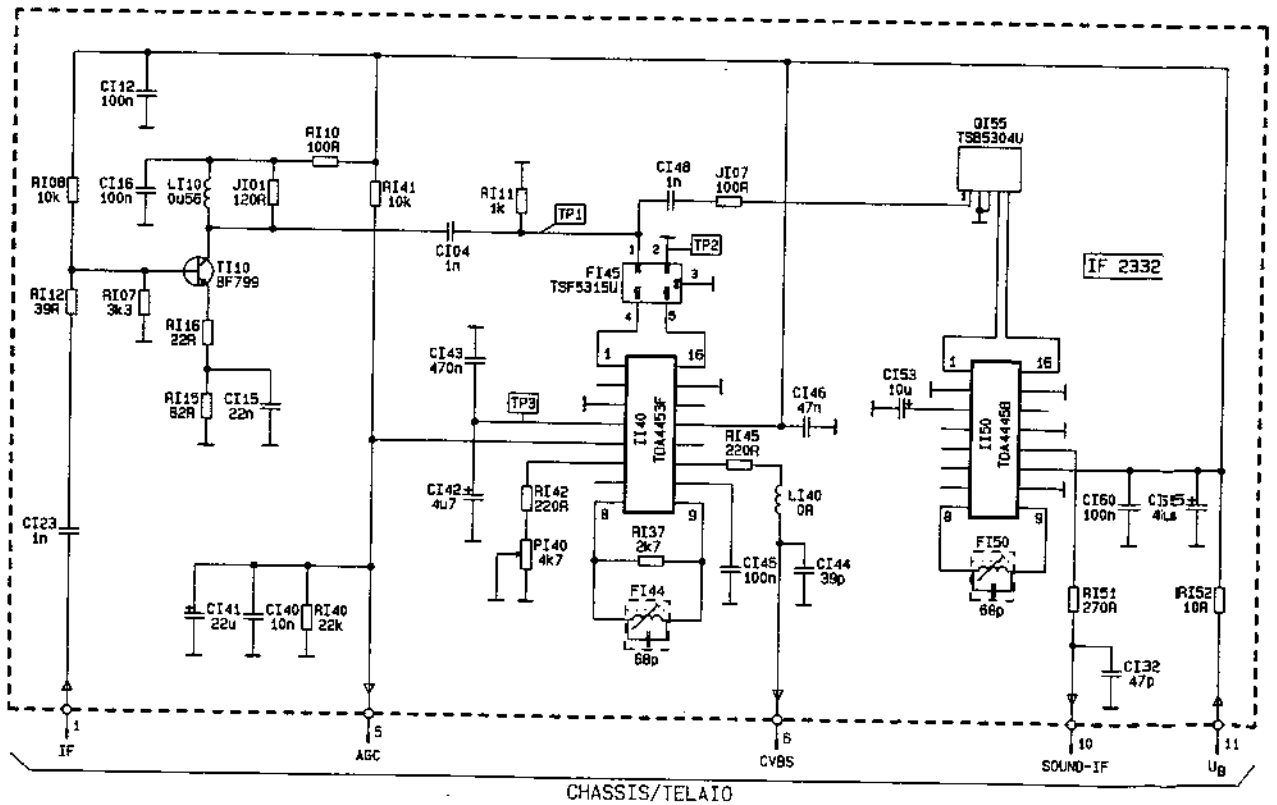


CHASSIS/TELAIO

ZF-Verstärker IF 2139 · IF Amplifier · Amplificateur FI · Amplificatore FI · Amplificador I



ZF-Verstärker IF 2332 · IF Amplifier · Amplificateur FI · Amplificatore FI · Amplificador F



Pos.	Art.-Nr. Part No.	Bezeichnung	Part
LL019	309.309.987	Treibertransformator	Driver transformer
LL023	101.069.70	70UH 4% Crossover	70UH 4% Choke coil
LL023	266.635	83UH 5% Crossover	83UH 5% Choke coil
LL026	309.249.327	30UH Spule, H-Linearität	30UH H-Linearity coil
LL026	387.723.0000	80UH 15% Spule, H-Linearität	80UH 15% H-Linearity coil
LP001	309.259.011	Siebrossel	Filter choke
LP028	387.721.8000	4UH 10% Spule	4UH 10% Coil
LP036	101.117.90	Trafo, Schaltnetzteil (25*28-110")	Switched mode power transformer
LP036	490.007.9844	Trafo, Schaltnetzteil (21*90")	Switched mode power transformer
LP042	261.824	Impulsübertrager	Pulse transformer
LP070	266.189	6UH 10% Drossel	6UH 10% Choke
LP070	276.155	15R 0,3W 5% Sicherheitswiderstand	15R 0,3W 5% Fusible resistor
LR003	309.249.375	35UH Spule	35UH Coil
LVO49	339.349.763	27UH 5% Drossel	27UH 5% Choke coil
LVO51	339.349.718	27UH Spule	27UH Coil
LVO52	339.349.763	27UH 5% Drossel	27UH 5% Choke coil
LVO64	256.493	22UH 10% Drossel	22UH 10% Choke
LW001	100.889.70	5M5HZ 7X7 Filter	5M5HZ 7X7 Filter
LW002	309.249.328	27UH 4M43HZ 7X7 Filter	27UH 4M43HZ 7X7 Filter
LW003	246.756	10UH 10% Drossel	10UH 10% Choke coil
LW004	243.713	12UH 5% Drossel	12UH 5% Choke coil
LW009	309.249.328	27UH 4M43HZ 7X7 Filter	27UH 4M43HZ 7X7 Filter
PC044	276.793	220R Trimmwiderstand	220R Trimmer resistor
PF004	309.639.036	Drehschalter	Rotary switch
PF011	309.509.167	220R Trimmwiderstand	220R Trimmer resistor
PG001	309.509.133	2K2R 20% Trimmwiderstand, V	2K2R 20% Trimmer resistor
PG004	309.509.133	2K2R 20% Trimmwiderstand, V	2K2R 20% Trimmer resistor
PL038	309.509.159	470R 20% Trimmwiderstand, H	470R 20% Trimmer resistor
PPO52	407.750	470R Trimmwiderstand	470R Trimmer resistor
PV058	309.509.126	10KR 20% Trimmwiderstand, legend	10KR 20% Trimmer resistor
PV079	339.509.530	1KR 20% Trimmwiderstand, H	1KR 20% Trimmer resistor
QC066	466.031	4,433619MHz Quarz	4,433619MHz Crystal
QL045	309.160.840	CSB503B Keramikfilter	CSB503B Ceramic filter
QR001	309.335.715	8MHz Quarz	8MHz Crystal
RA009	256.732	1R8 0,3W 5% Sicherheitswiderstand	1R8 0,3W 5% Fusible resistor
RA029	256.732	1R8 0,3W 5% Sicherheitswiderstand	1R8 0,3W 5% Fusible resistor
RC009	309.580.955	22R 0,3W 5% Sicherheitswiderstand	22R 0,3W 5% Fusible resistor
RF004	309.534.689	220R 0,7W 2% Metallfilmwiderstand	220R 0,7W 2% Metal film resistor
RF007	309.532.685	1M6R 0,25W 2% Metallfilmwiderstand	1M6R 0,25W 2% Metal film resistor
RF012	309.580.955	22R 0,3W 5% Sicherheitswiderstand	22R 0,3W 5% Fusible resistor
RF019	243.536	820R 0,4W 2% Metallfilmwiderstand	820R 0,4W 2% Metal film resistor
RF020	246.457	1K5R 0,4W 1% Metallfilmwiderstand	1K5R 0,4W 1% Metal film resistor
RF021	239.067	0R68 0,7W 10% Metalloxyd-widerstand	0R68 0,7W 10% Metal oxide resistor
RF023	243.743	1R5 0,5W 5% Sicherheitswiderstand	1R5 0,5W 5% Fusible resistor
RH001	253.747	5R6 0,3W 5% Sicherheitswiderstand	5R6 0,3W 5% Fusible resistor
RH001	309.580.955	22R 0,3W 5% Sicherheitswiderstand	22R 0,3W 5% Fusible resistor
RH002	256.722	82R 2,24W 5% Drahtwiderstand	82R 2,24W 5% Wire resistor
RI015	339.537.716	10R 0,3W 5% Sicherheitswiderstand	10R 0,3W 5% Fusible resistor
RL005	413.087.09	113KR 0,4W 1% Metallfilmwiderstand	113KR 0,4W 1% Metal film resistor
RL011	243.950	15R 0,5W 5% Sicherheitswiderstand	15R 0,5W 5% Fusible resistor
RL012	309.556.277	4K7R 3W 5% Drahtwiderstand	4K7R 3W 5% Wire resistor
RL018	309.556.278	270R 3W 5% Drahtwiderstand	270R 3W 5% Wire resistor
RL021	309.556.275	0R68 3W 5% Drahtwiderstand	0R68 3W 5% Wire resistor
RL021	490.007.9545	1R 3W 5% Drahtwiderstand	1R 3W 5% Wire resistor
RL023	309.556.260	22R 3W 5% Drahtwiderstand	22R 3W 5% Wire resistor
RL023	703.740.00	39R 3W 5% Drahtwiderstand	39R 3W 5% Wire resistor
RL025	309.580.971	2K2R 0,5W 5% Sicherheitswiderstand	2K2R 0,5W 5% Fusible resistor
RL026	236.091	1KR 0,5W 5% Sicherheitswiderstand	1KR 0,5W 5% Fusible resistor
RL027	309.580.970	56R 0,3W 5% Sicherheitswiderstand	56R 0,3W 5% Fusible resistor
RL028	309.556.262	100R 3W 5% Drahtwiderstand	100R 3W 5% Wire resistor
RL030	246.355	0R56 0,5W 5% Metalloxyd-widerstand	0R56 0,5W 5% Metal oxide resistor
RL030	490.007.9647	0R18 0,7W 10% Metalloxyd-widerstand	0R18 0,7W 10% Metal oxide resistor
RL042	339.529.957	ZPD24 ZENER Diode	ZPD24 ZENER Diode
RP001	246.454	1R2 7W 10% Drahtwiderstand	1R2 7W 10% Wire resistor
RP002	246.454	1R2 7W 10% Drahtwiderstand	1R2 7W 10% Wire resistor
RP005	309.560.952	25R PTC-Widerstand	25R PTC resistor
RP006	490.007.9648	27KR 4W 5% Metalloxyd-widerstand	27KR 4W 5% Metal oxide resistor
RP018	256.930	22R 2W 5% Metalloxyd-widerstand	22R 2W 5% Metal oxide resistor
RP018	309.556.312	18R 2W 5% Metalloxyd-widerstand	18R 2W 5% Metal oxide resistor
RP025	406.517	10MR 0,7W 5% Schichtwiderstand	10MR 0,7W 5% Film resistor
RP031	246.455	150R 9W 5% Drahtwiderstand	150R 9W 5% Wire resistor
RP033	246.455	150R 9W 5% Drahtwiderstand	150R 9W 5% Wire resistor

Pos.	Art.-Nr. Part No.	Bezeichnung	Part
RP051	309.541.641	88K7R 0,4W 1% Metallfilmwiderstand	88K7R 0,4W 1% Metal film resistor
RP062	239.350	0R1 2W 10% Drahtwiderstand	0R1 2W 10% Wire resistor
RP062	242.019	0R1 0,4W 10% Sicherheitswiderstand	0R1 0,4W 10% Fusible resistor
RR000	309.561.933	100KRx4 125MW 5% Widerstandsnetzwerk	100KRx4 125MW 5% Resistor netw.
RR081	309.580.963	220R 0,3W 5% Sicherheitswiderstand	220R 0,3W 5% Fusible resistor
RV020	309.580.974	0R1 0,4W 10% Sicherheitswiderstand	0R1 0,4W 10% Fusible resistor
RV072	309.580.955	22R 0,3W 5% Sicherheitswiderstand	22R 0,3W 5% Fusible resistor
RW001	339.537.716	10R 0,3W 5% Sicherheitswiderstand	10R 0,3W 5% Fusible resistor
RW002	101.202.40	4K7R 0,7W 5% Sicherheitswiderstand, NB	4K7R 0,7W 5% Fusible resistor
SV001	490.007.9938	VIDEO/8110 BG-SVHS	VIDEO/8110 PCB SUB
TA015	463.223	BC548C Transistor	BC548C Transistor
TA045	243.712	ON4771/BD242B Transistor	ON4771/BD242B Transistor
TA045	261.827	Montageclip	Clip
TC034	309.001.293	BC548B Transistor	BC548B Transistor
TF007	463.223	BC548C Transistor	BC548C Transistor
TF008	309.001.293	BC548B Transistor	BC548B Transistor
TF016	465.913	BF422 Transistor	BF422 Transistor
TF025	309.001.293	BC548B Transistor	BC548B Transistor
TI081	309.001.292	BC558C Transistor	BC558C Transistor
TI082	309.001.226	BC558B Transistor	BC558B Transistor
TL017	309.001.350	BSR51 Transistor	BSR51 Transistor
TL019	261.825	Montageclip 1	Clip 1
TL019	309.005.021	ZSD1548 Transistor	ZSD1548 Transistor
TL019	309.005.026	S2055AF Transistor	S2055AF Transistor
TM003	309.001.292	BC558C Transistor	BC558C Transistor
TM012	266.430	BC558A' Transistor selektiert	BC558A' Transistor
TM016	309.001.293	BC548B Transistor	BC548B Transistor
TM018	309.001.292	BC558C Transistor	BC558C Transistor
TP020	463.223	BC548C Transistor	BC548C Transistor
TP025	309.001.293	BC548B Transistor	BC548B Transistor
TP029	309.001.390	6UH713 Transistor	6UH713 Transistor
TP029	309.005.029	6UH515 Transistor	6UH515 Transistor
TP029	309.903.834	Montageclip	Clip metal
TP053	309.001.226	BC558B Transistor	BC558B Transistor
TP054	309.001.226	BC558B Transistor	BC558B Transistor
TP069	309.001.325	BC547C Transistor	BC547C Transistor
TR016	309.001.293	BC548B Transistor	BC548B Transistor
TR017	309.001.226	BC558B Transistor	BC558B Transistor
TR016	352.113.3000	BC636 Transistor	BC636 Transistor
TR063	309.001.226	BC558B Transistor	BC558B Transistor
TR076	309.001.226	BC558B Transistor	BC558B Transistor
TR077	309.001.293	BC548B Transistor	BC548B Transistor
TR082	339.556.900	BC635 Transistor	BC635 Transistor
TV001	309.001.292	BC558C Transistor	BC558C Transistor
TV002	463.223	BC548C Transistor	BC548C Transistor
TV029	309.001.293	BC548B Transistor	BC548B Transistor
TW001	309.001.292	BC558C Transistor	BC558C Transistor
TW002	463.223	BC548C Transistor	BC548C Transistor
TW003	463.223	BC548C Transistor	BC548C Transistor
TW004	309.001.292	BC558C Transistor	BC558C Transistor
TW005	309.001.292	BC558C Transistor	BC558C Transistor
VC043	309.899.270	SDL145S / DL711 Verzögerungsleitung	Delay line
VW001	490.007.9939	SDL102151A-4102-01 Verzögerungsleitung	SDL102151A-4102-01 Delay line
	243.540	Strebe für Chassis	Chassis support
	243.541	Schutzkappe, Netzteil	Protection cap
		Weitere gerätespezifische Ersatzteile lieferbar.	Further spare parts are available.

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