

NORDMENDE
THOMSON TECHNOLOGY

SABA

TELEFUNKEN

 **THOMSON**

FERNSEHEN
TELEVISION
TÉLÉVISION

Bestell-Nr. 102.508.30

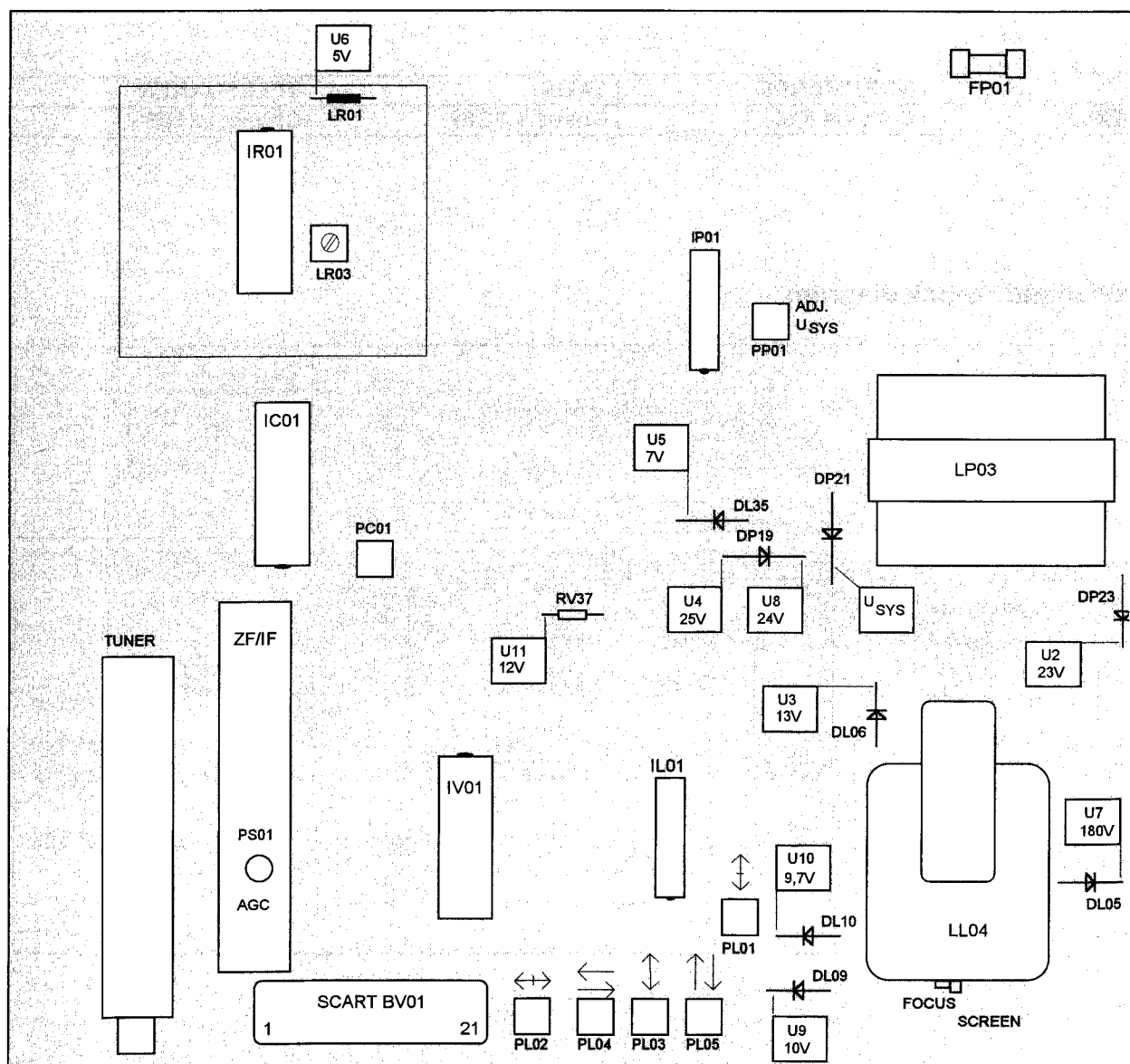
Chassis TX 90

ACHTUNG! Ersatzteilbestellungen
sind schneller und kostengünstiger über

Fax 05 11 / 4 18-12 60

10" / 14" / 15" / 16" / 20"

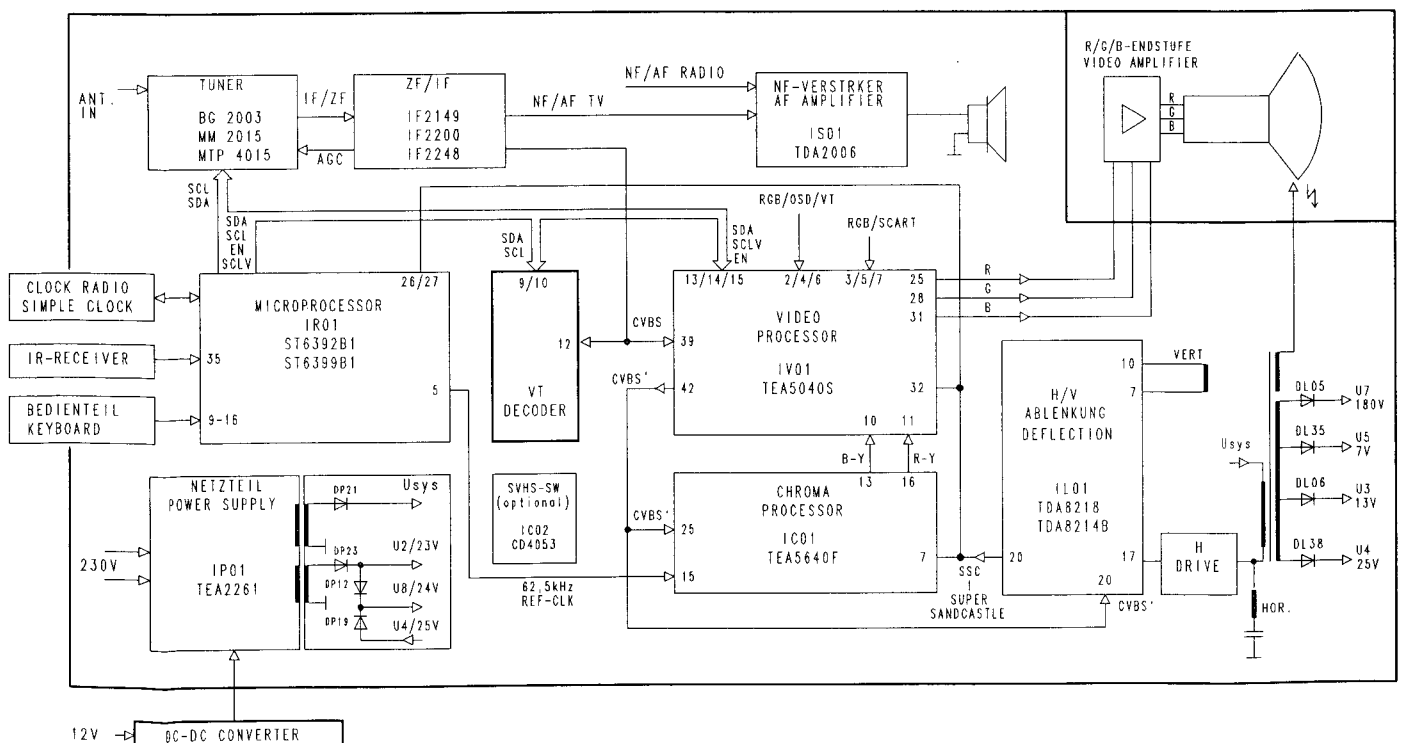
Service-Lageplan · Layout diagram · Disposition des régleurs
Posizione regolatori di servizio · Situation de los ajustes



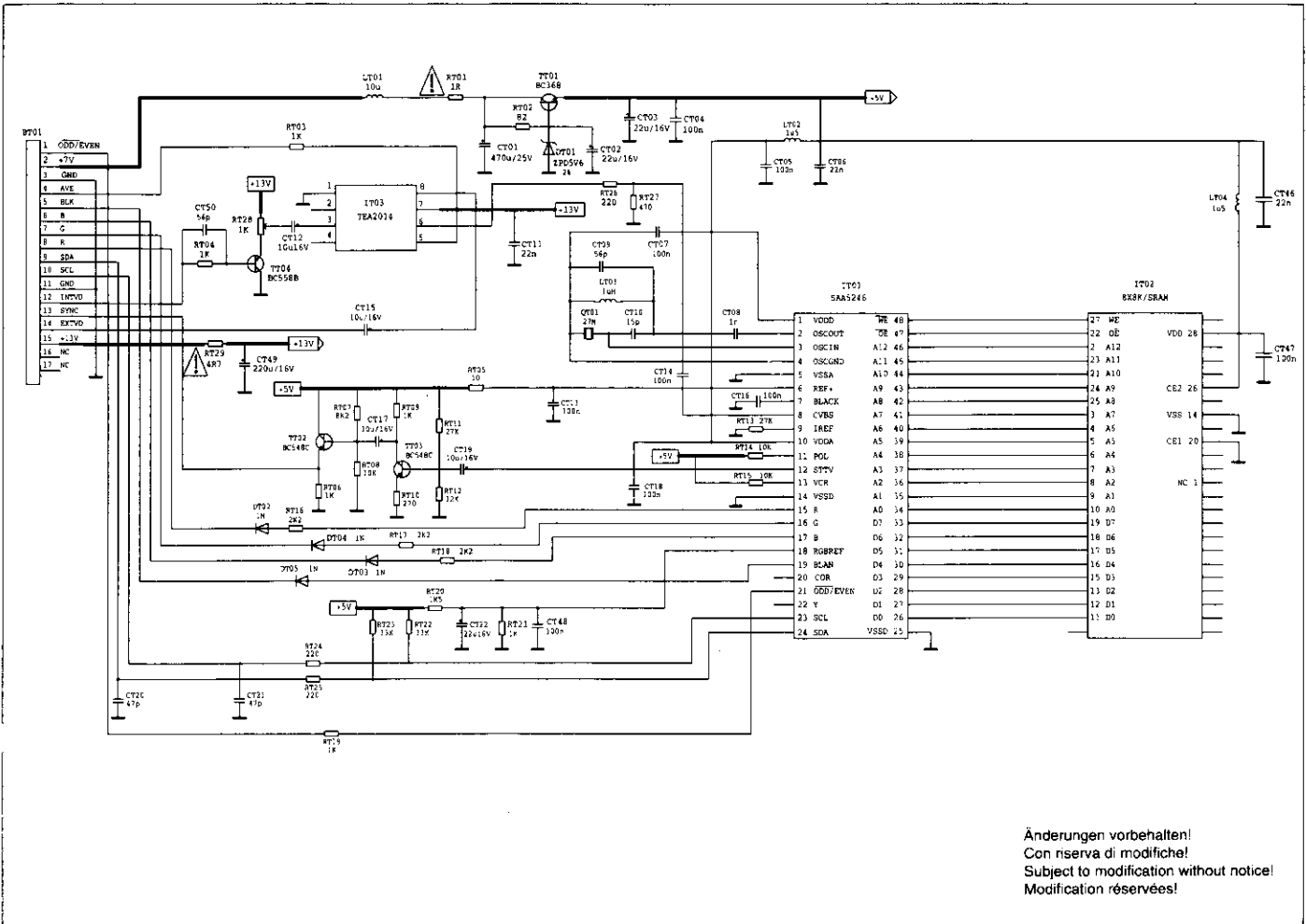
Service Lageplan	1	Layout diagram	1
Blockschaltbild	2	Block diagram	2
Videotext-Decoder	3	Teletext decoder	3
Service Einstellungen	4	Adjustments	4
Chassis Grundplatte (Version 1)	5-6	Chassis base board (version 1)	5-6
Uhrenplatte	7	Clock board	7
DC-DC Konverter	7	DC-DC Converter	7
FM-Radio	8	FM Radio	8
Mikroprozessor-Modul (Radio/Uhr)	8	Microprocessor modul (Radio/Clock)	8
Schaltbild Chassis TX90 (Version 1)	9-14	Circuit diagram chassis TX90 (version 1)	9-14
IC Blockschaltbild TEA5640F/TEA5040S	15	IC block diagram TEA5640F/TEA5040S	15
ZF-Verstärker IF2149 / IF2200	16	IF amplifier IF2149 / IF2200	16
Schaltbild Chassis TX90 (Version 2)	17-22	Circuit diagram chassis TX90 (version 2)	17-22
Chassis Grundplatte (Version 2)	23-26	Chassis base board (version 2)	23-26
Bildrohrplatten	28-29	CRT boards	28-29
Tuner BG2003 / MTP4015	30-31	Tuner BG2003 / MTP4015	30-31
Ersatzteile	32-34	Spare parts	32-34

Referenz	NORDMENDE	SABA	TELEFUNKEN
Chassis TX90	Chassis F26	Chassis SC09	Chassis 318B

Blockschaltbild · Block diagram

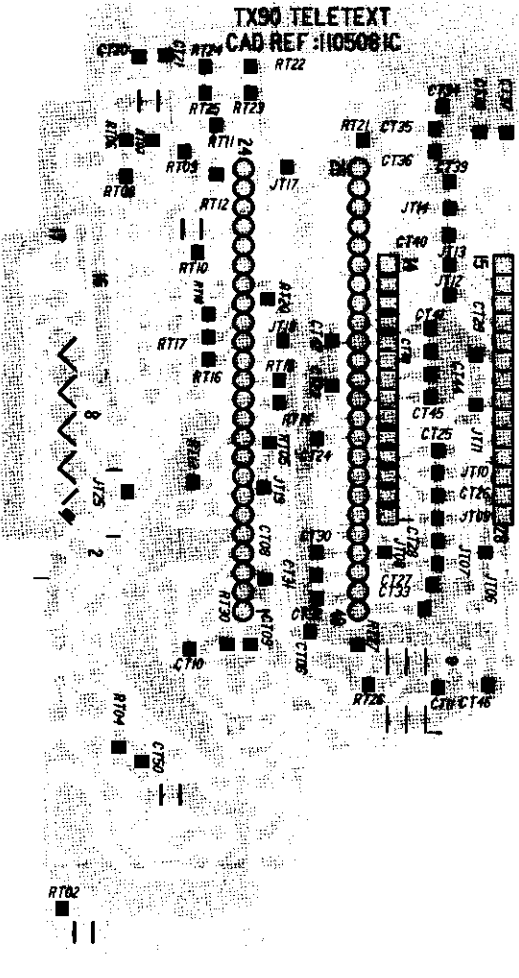
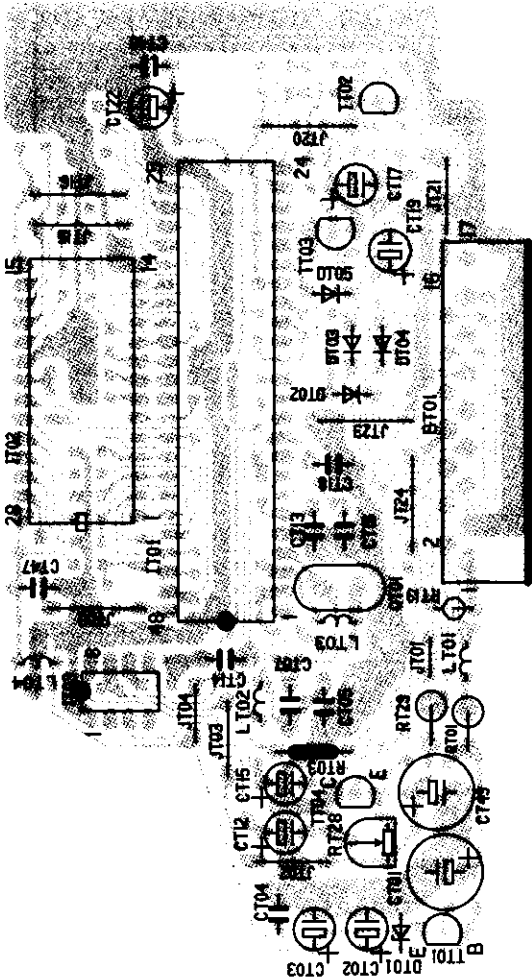


Videotext-Decoder · Teletext decoder · Décodeur Vidéotexte · Decoder Televideo
Descodificador Teletexto – TX 90



Änderungen vorbehalten!
Con riserva di modifiche!
Subject to modification without notice!
Modification réservées!

Lötseite · solder side · côté soudure · lato saldature · lado soldaduras



Service Einstellungen · Adjustments · Réglages · Regolazioni · Ajustes de servicio

U system	PP01	---		10": 101V (103V - 10" PRO) 14": 104V 15": 106V 16" / 20": 108V
H.-Pos.	PL04	---		
H.-Frequ.	PL02	MT01 ↔ MT02		
V.-Pos.	PL05	---		
V.-Ampl.	PL03	---		
V.-Frequ.	PL01	---		
U G2	G2 SCREEN			dunkel ↔ gerade sichtbar dark ↔ just visible
Schärfe Focus	Focus			optimale Auflösung optimal resolution
AGC	PS01 (IF)	3mV Ch 9 BG		1. max. 2. max. - 8dB
PAL Chroma Delay	PC01	 PAL	 CRT-Board	 line 1 + line 2
Weißabgleich white alignment (CRT-Board)	PT50 PT70	 = standard = min.		Weiß, white

Wertetabellen · Tables of values

Tabelle / Table 1 #		RS05					RS06				
#		10"	14"	15"	16"	20"	10"	14"	15"	16"	20"
PAL/SECAM 2108TX		82K	91K	91K	91K	91K	15K	15K	11K	11K	13K
PAL/SECAM 2149		100K	68K	68K	68K	75K	24K	13K	11K	11K	15K
PAL/SECAM 2248		62K	68K	68K	68K	68K	13K	12K	10K	10K	12K
PAL 2200		91K	68K	100K	100K	82K	15K	10K	10K	10K	10K
PAL 2200		91K	68K	100K	100K	82K	15K	10K	10K	10K	10K
PAL 2205		82K	91K	100K	100K	91K	13K	12K	10K	10K	11K
SECAM 2130		-	-	-	-	-	-	-	-	-	-

Tabelle / Table 2 *		SMPS	
ITEM		176-264VAC	90-264VAC
RP10		27K/5W	10K/5W
RP04		47/1W	27/1W
TP01		BU12A	BUH314TH
LP03		6MV42-20	6MV42-18
LP01		ELF-18DG652N	ELF-18DG651N
FP01		T1.6A	T2.5A

Tabelle / Table 5 @@@		ITEM	DESCRIPTIONS
		BV04	WAFER 17-WAYS
		CL35	CC 330p/50V
		CL36	CE 470u/16V
		CL37	CPM 10n/63V
		DL35	DIODE BA157
		RL18 10"	
		14"	RCF 6K8/0.25W
		15"	RCF 5K6/0.25W
		16"	RCF 5K6/0.25W
		20"	RCF 5K6/0.25W
		RL40	RCFF R22/0.3V
		RR14	RCFCC 10K/0.1W
		RR15	RCFCC 5K6/0.1W
		RR17	RCFCC 22K/0.1W
		RR25	RCFCC 58K/0.1W
		TR15	TR. BC548B
		TR16	TR. BC548B
		FOR FAST-TEXT IC SOCKET IS ADDED TO IR01 MICRO-P IC	
		IC SOCKET 42-P SHRINKED DIP	

Tabelle / Table		ITEM	DESCRIPTIONS
		CL22	HORI. R
		CL26	HORI. LIN
		CL28	HORI. LIN
		CL30	HORI. LIN
		CL32	HORI. LIN
		CL34	HORI. LIN
		CL36	HORI. LIN
		CL38	HORI. LIN
		CL40	HORI. LIN
		CL42	HORI. LIN
		CL44	HORI. LIN
		CL46	HORI. LIN
		CL48	HORI. LIN
		CL50	HORI. LIN
		CL52	HORI. LIN
		CL54	HORI. LIN
		CL56	HORI. LIN
		CL58	HORI. LIN
		CL60	HORI. LIN
		CL62	HORI. LIN
		CL64	HORI. LIN
		CL66	HORI. LIN
		CL68	HORI. LIN
		CL70	HORI. LIN
		CL72	HORI. LIN
		CL74	HORI. LIN
		CL76	HORI. LIN
		CL78	HORI. LIN
		CL80	HORI. LIN
		CL82	HORI. LIN
		CL84	HORI. LIN
		CL86	HORI. LIN
		CL88	HORI. LIN
		CL90	HORI. LIN
		CL92	HORI. LIN
		CL94	HORI. LIN
		CL96	HORI. LIN
		CL98	HORI. LIN
		CL100	HORI. LIN

Tabelle / Table		ITEM	DESCRIPTIONS
		COLOUR	
		TV	
		TUNER	
		TUNER	
		IF-MODULE	
		LV01	
		QV01	
		QV02	
		RV20	
		RV24	
		RV32	
		RV40	
		RV44	
		RV48	
		RV52	
		RV56	
		RV60	
		RV64	
		RV68	
		RV72	
		RV76	
		RV80	
		RV84	
		RV88	
		RV92	
		RV96	
		RV100	
		RV104	
		RV108	
		RV112	
		RV116	
		RV120	
		RV124	
		RV128	
		RV132	
		RV136	
		RV140	
		RV144	
		RV148	
		RV152	
		RV156	
		RV160	
		RV164	
		RV168	
		RV172	
		RV176	
		RV180	
		RV184	
		RV188	
		RV192	
		RV196	
		RV200	

DESCRIPTIONS
FER 17-WAYS
: 330p/50V
: 470u/16V
M 10n/63V
ODE BA157
8K8/0.25W
5K8/0.25W
5K8/0.25W
5K8/0.25W
FF R22/0.3W
CC 10K/0.1W
CC 5K8/0.1W
CC 22K/0.1W
CC 56K/0.1W
R. BC548B
R. BC548B
CKET 42-P
RINKED DIP

Chassis-Grundplatte · Chassis base board · Plaque de base du chassis · Piastra base telaio · Chasis placa base (Version 1)

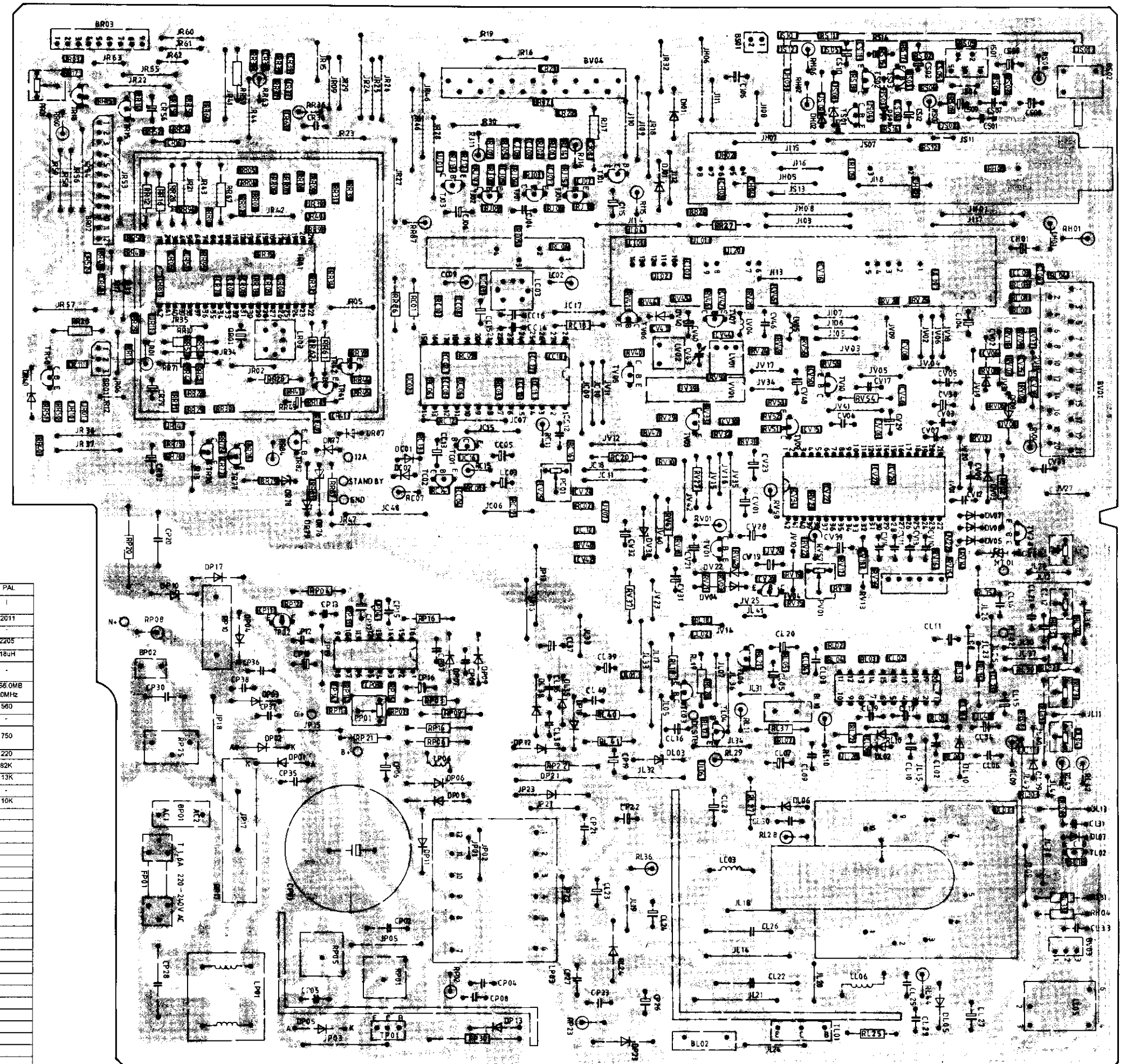
Lötseite · solder side · côté soudure · lato saldature · lado soldaduras

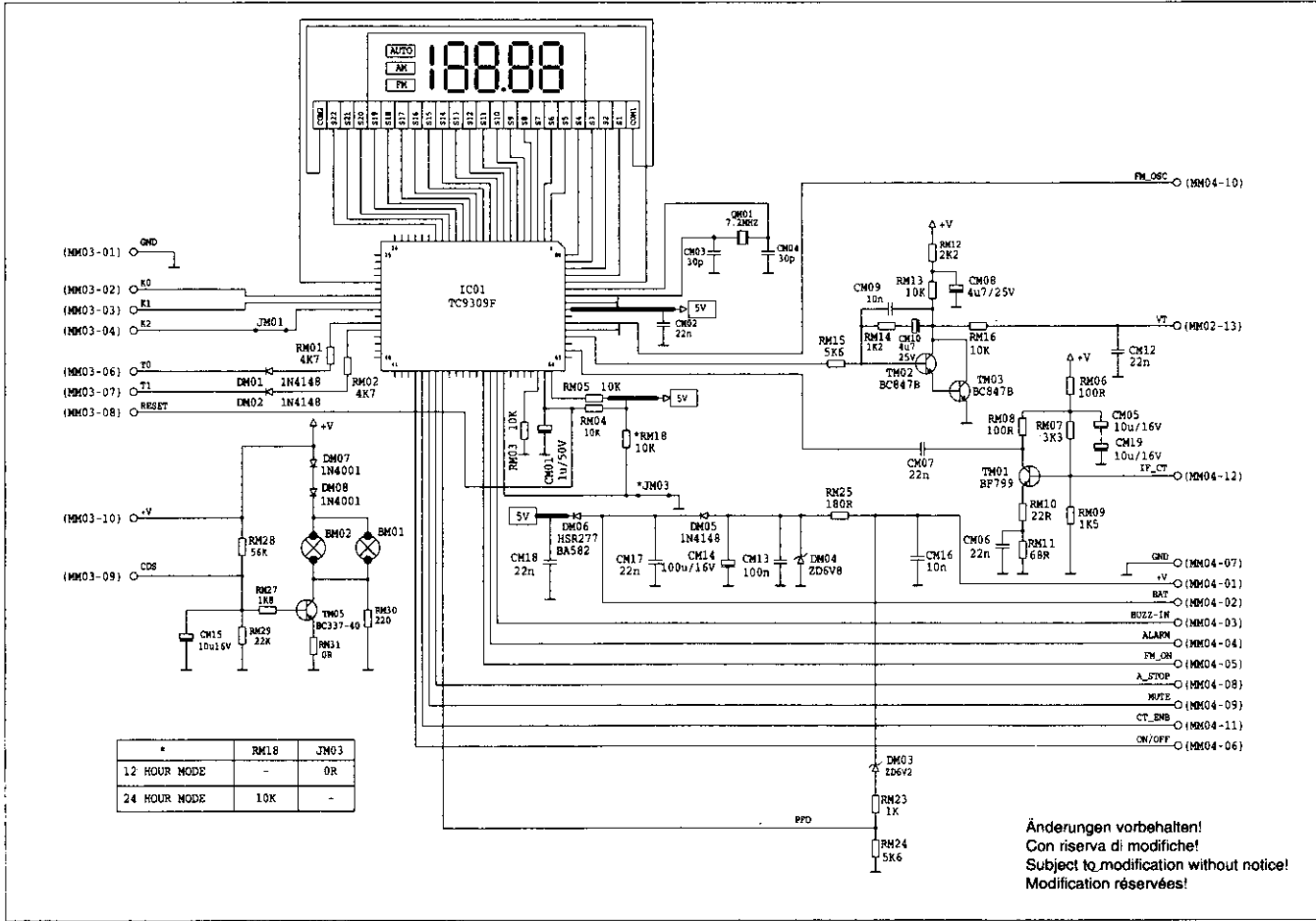
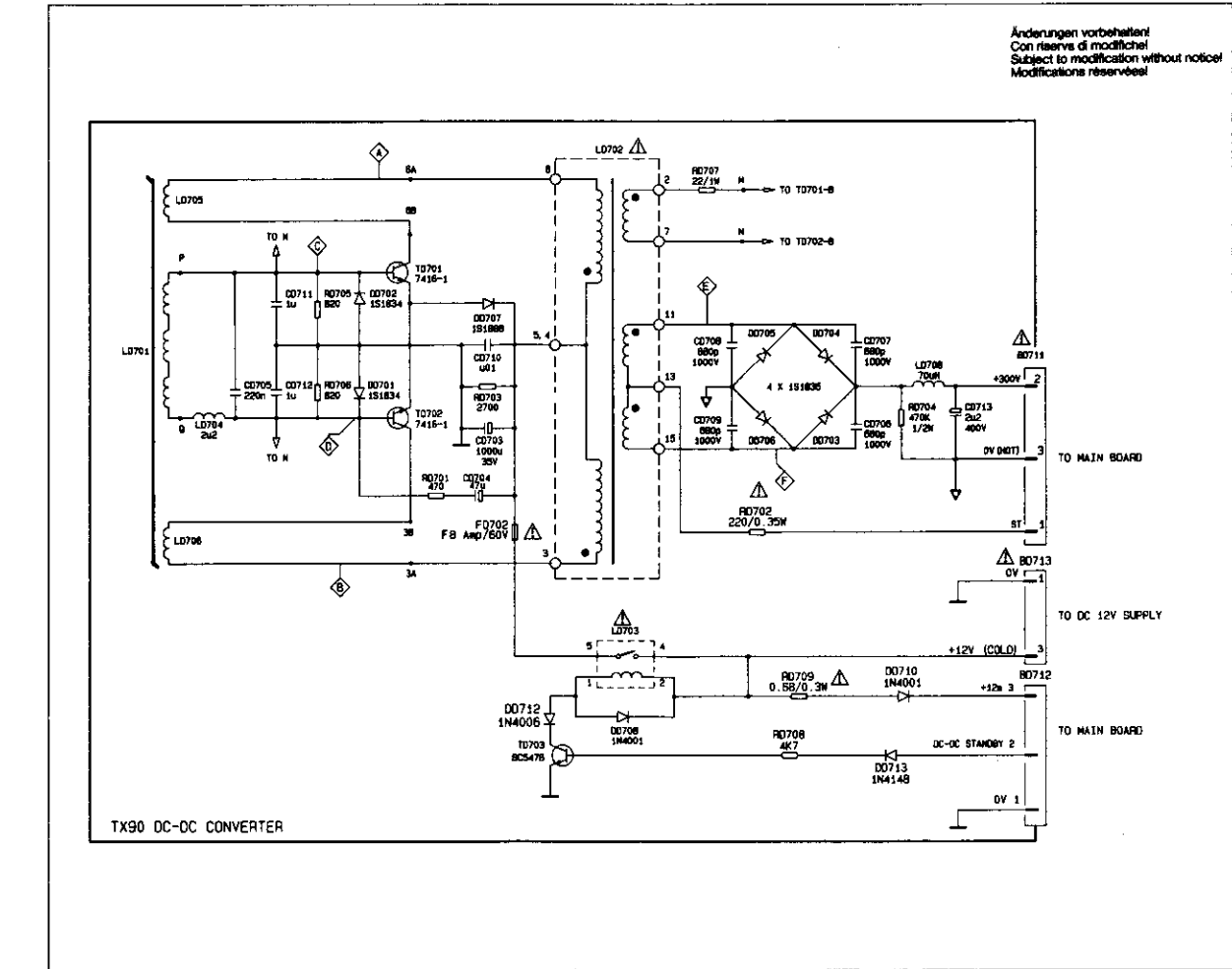
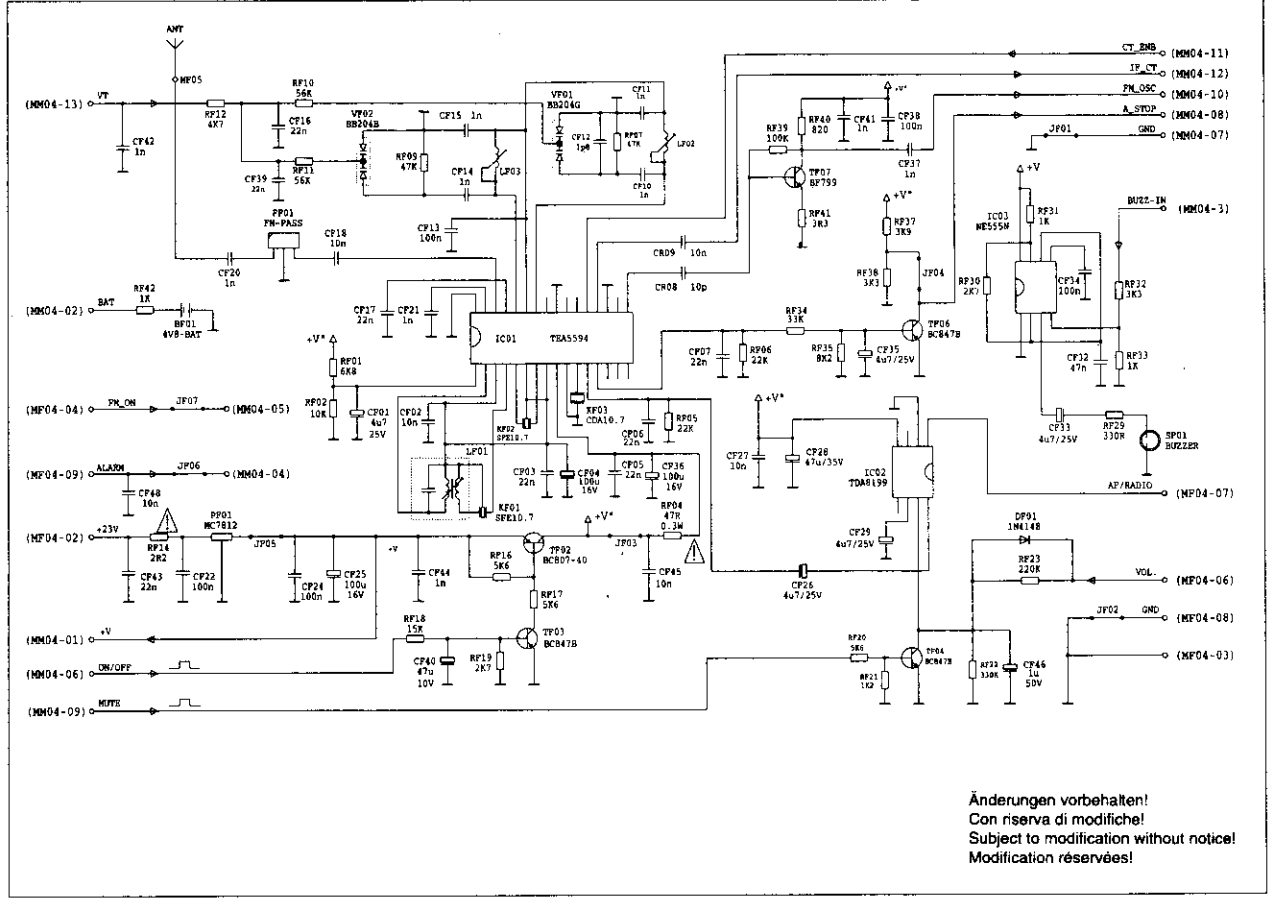
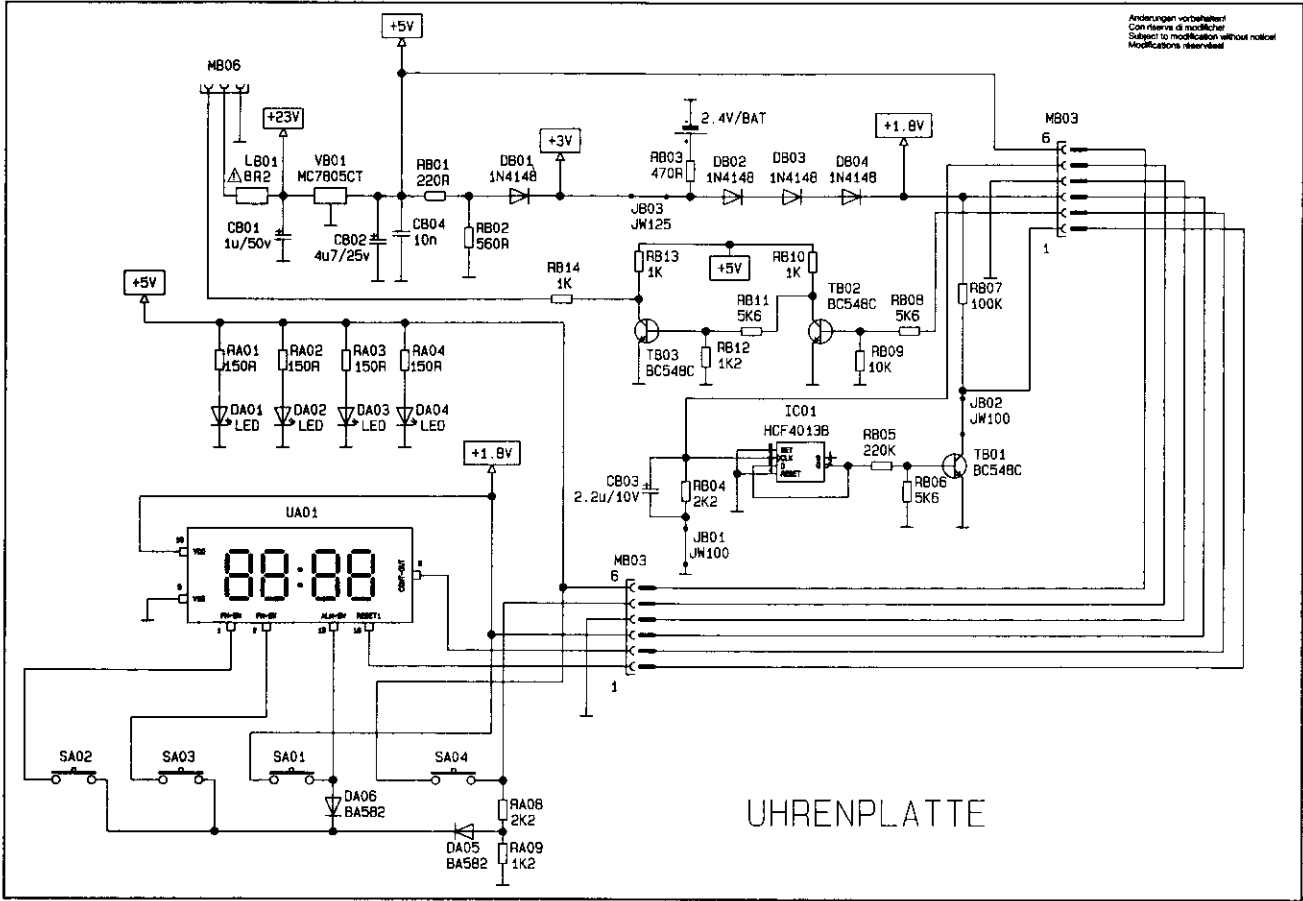
Tabelle / Table 3 **

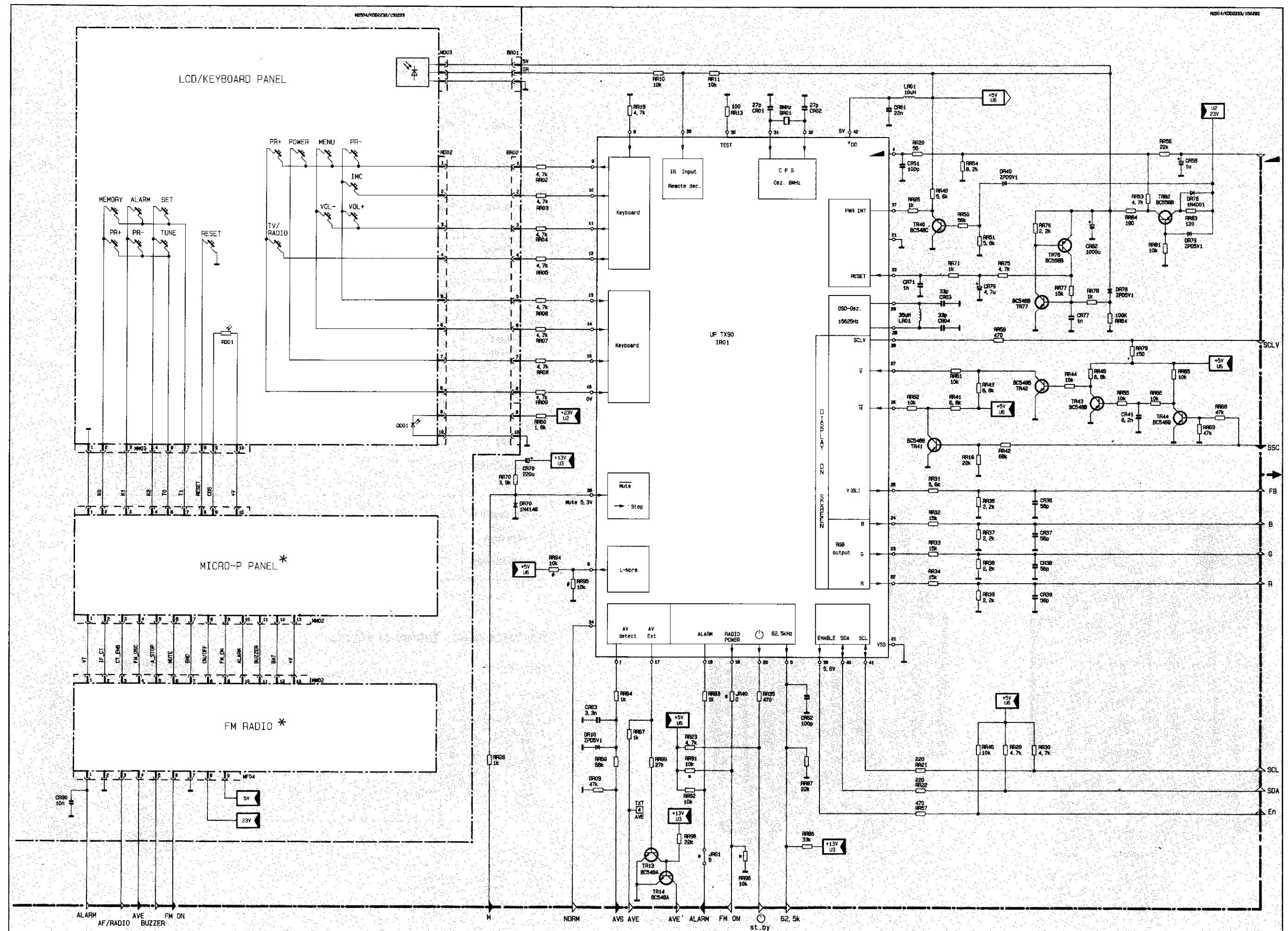
ITEM	DESCRIPTIONS	10"	14"	15"	16"	20"
CL22	HORI. RETRACE CAPACITOR	7n/1K6V (T) 6n8/1K6V (S)	6n5/1.6KV	7n/1.5KV	8n4/1.6KV	8n2/1.6KV
CL26	HORI. LINEARITY CAPACITOR	360n/250V	360n/250V	380n/250V	470n/250V	470n/250V
DV24	VIDEO REF ZENER	ZPD5V6	ZPD6V2	ZPD6V2	ZPD6V2	ZPD6V2
LL03	HORI. LINEARITY COIL	112uH	90uH	112uH	58uH	58uH
LL04	FLYBACK TRANSFORMER	2436914	2436218	2436913	2436893	2436892
LP104	DEGAUSSING COIL	DC-1003A	DC-993	DC-875	DC-9010-16	DC-931
RL08	DC BIAS OF VERT OP RES.	+1% 13K/0.1W	+1% 13K/0.1W	+1% 13K/0.1W	+1% 13K/0.1W	+1% 12.1K/0.1W
RL18	TELETEXT NON-INTERLACED RESISTOR	-	6K8/0.25W	5K8/0.25W	5K8/0.25W	5K8/0.25W
RL11	VERTICAL DAMPER RESISTOR	390/0.7W	680/0.7W	390/0.7W	390/0.7W	390/0.7W
RL37	DC BIAS OF VERT OUTPUT RESISTOR	2M2	2M2	2M2	4M7	2M2
RP01	SMPS SENSING RESISTOR	R27/3W	R27/3W	R27/3W	R27/3W	R22/3W
RP04	SMPS IC BASE CURRENT LIMITER	47/1W	47/1W	47/1W	33/1W	33/1W
RL27	HEATER RESISTOR	0.56/0.5W	1.5/0.5W	1R/0.5W	0.56/0.5W	0.56/0.5W
RL28	*13V FUSIBLE RESISTOR	0.22/0.5W	0.22/0.3W	0.22/0.3W	0.22/0.3W	0.22/0.3W
RV17	CATHODE CURRENT RESISTOR	820	820	750	680	620
RV23	AVERAGE I-BEAM RESISTOR	560	390	430	390	470
RV35	AV BEAM RESISTOR	0	0	0	0	18K
RV80	ABL DIVIDER RESISTOR	3K0	1K	1K	1K	1K
RV62	AV BEAM RESISTOR	-	-	-	-	1K8
RT66	WHITE-BALANCE RESISTOR	120K	82K	120K	82K	82K
0010	SPEAKER	16/2W	18/2W	16/3W	16/3W	8/4W
RT50	WHITE-BALANCE RESISTOR	47K	47K	33K	47K	33K
RT70	CRT PANEL WHITE-BALANCE	68K	88K	56K	68K/0.25W	47K/0.25W

Tabelle / Table 4 ***

COLOUR	PAL/SECAM	PAL/SECAM	PAL/SECAM	SECAM	PAL	PAL	PAL
TV	BG/HILL BGILL	BGLDKK	BGDKK	LL	BG	BG	I
TUNER	2015	2015	2015	2007	2015	2003	2011
TUNER	HYPERBAND	HYPERBAND	HYPERBAND	-	HYPERBAND	-	-
IF-MODULE	2108TX	2149	2248	2130TX	2200	2200	2205
LV01	8.2uH	8.2uH	8.2uH	10uH	10uH	10uH	18uH
QV01	TPW04B 5.5/5.74MHz	TPW04B 5.5/5.74MHz	TPW04B 5.5/5.74MHz	TPS8.5MB 6.5MHz	TPW04B 5.5/5.74MHz	TPW04B 5.5/5.74MHz	-
QV02	TPS8.5MB 6.0MHz	TPS8.5MB 6.5MHz	TPS8.5MB 6.5MHz	-	-	-	TPS8.5MB 6.0MHz
RV20	220	220	220	560	270	180	560
RV24	1K5	1K2	1K8	2K2	1K5	1K5	-
RV32	1K	1K	1K	1K	750	750	750
RR20	56	56	56	-	220	220	220
RS05	82K	100K	62K	-	91K	91K	82K
RS06	15K	24K	13K	-	15K	15K	13K
RR04	-	-	-	10K	-	-	-
RR05	10K	10K	10K	-	10K	10K	10K
CV40	CE 10u/16V +50/-20%	-	-	-	-	-	-
CV41	CCCC 56p J 50V SL	-	-	-	-	-	-
CV47	CCCC 10n M 16V Y55	-	-	-	-	-	-
DV40	DIODE 1N4148	-	-	-	-	-	-
LV02	LA 7X7 4ME43Hz	-	-	-	-	-	-
RC18	RCF 10K 0.25W	-	-	-	-	-	-
RC19	RCFCC 7K5 0.1W	-	-	-	-	-	-
RC20	RCF 100K 0.25W	-	-	-	-	-	-
RV40	RCFCC 10K 0.1W	-	-	-	-	-	-
RV41	RCFCC 1K8 0.1W	-	-	-	-	-	-
RV43	RCF 4K7 0.25W	-	-	-	-	-	-
RV44	RCF 4K7 0.25W	-	-	-	-	-	-
RV45	RDFCC 47K 0.1W	-	-	-	-	-	-
RV48	RCFCC 10K 0.1W	-	-	-	-	-	-
TC02	TR BC560B	-	-	-	-	-	-
TV05	TR BC558C	-	-	-	-	-	-
TV06	TR BC548C	-	-	-	-	-	-
TV07	TR BC548C	-	-	-	-	-	-
RV29	RCFCC 1K3 0.1W	-	-	-	RCFCC 1K6 0.1W	-	-
RV47	RCFCC 220 0.1W	-	-	-	RCFCC DR % 0.1W	-	-
JV39	-	-	-	-	JUMPER 10mm	-	-
RC14	RCFCC 82R 0.1W	-	-	-	RCFCC DR 0.1W	-	-

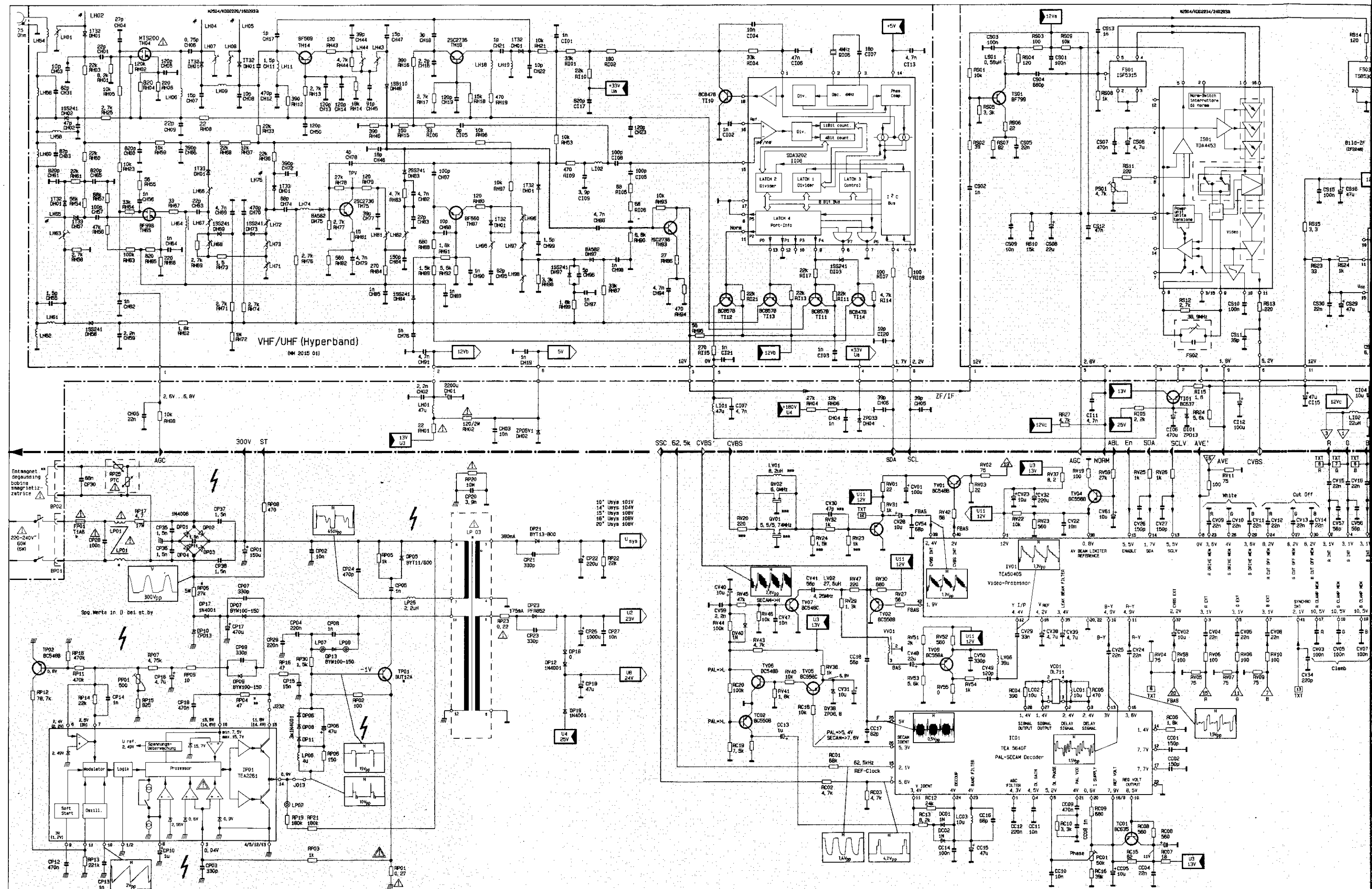


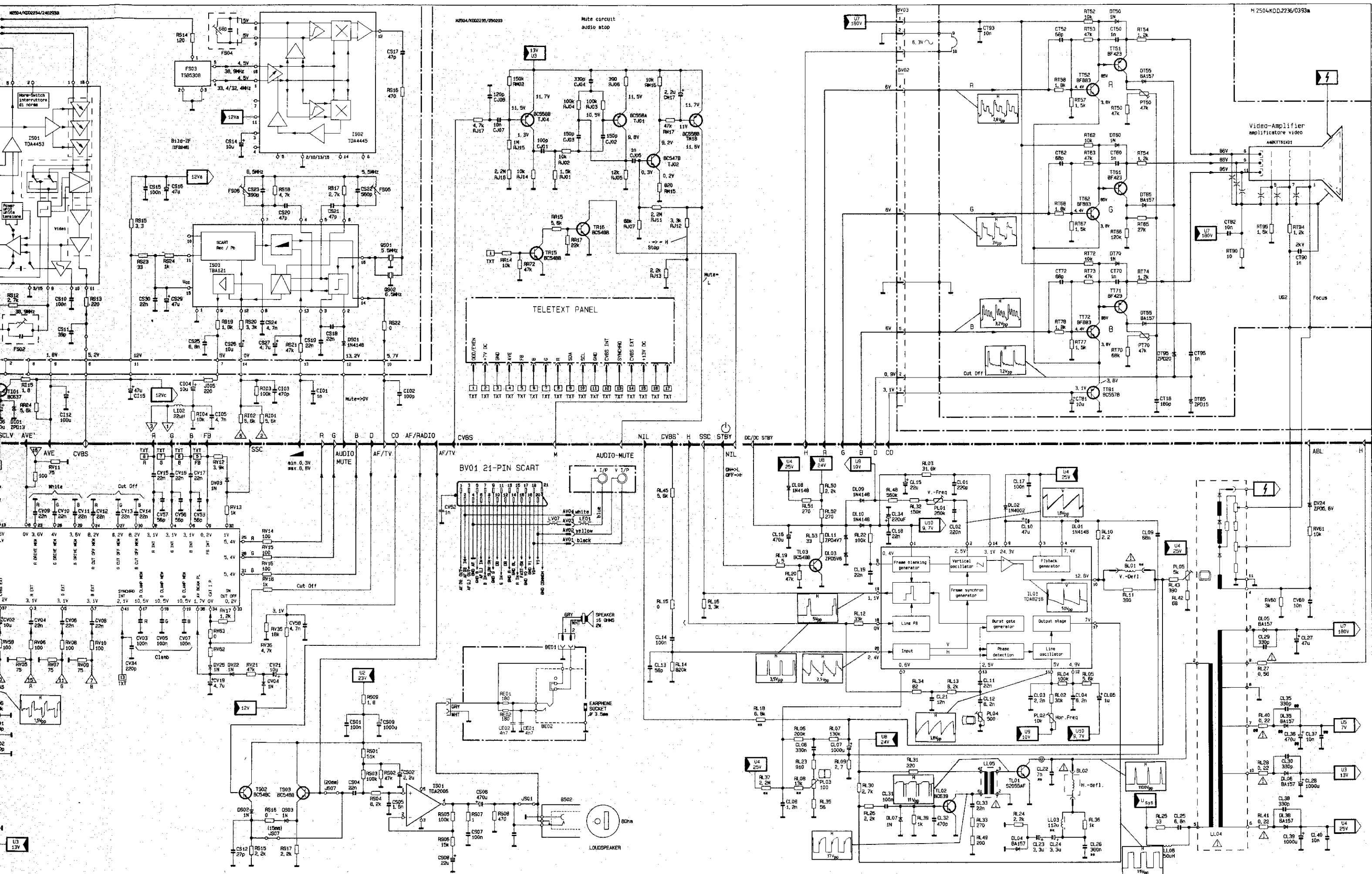




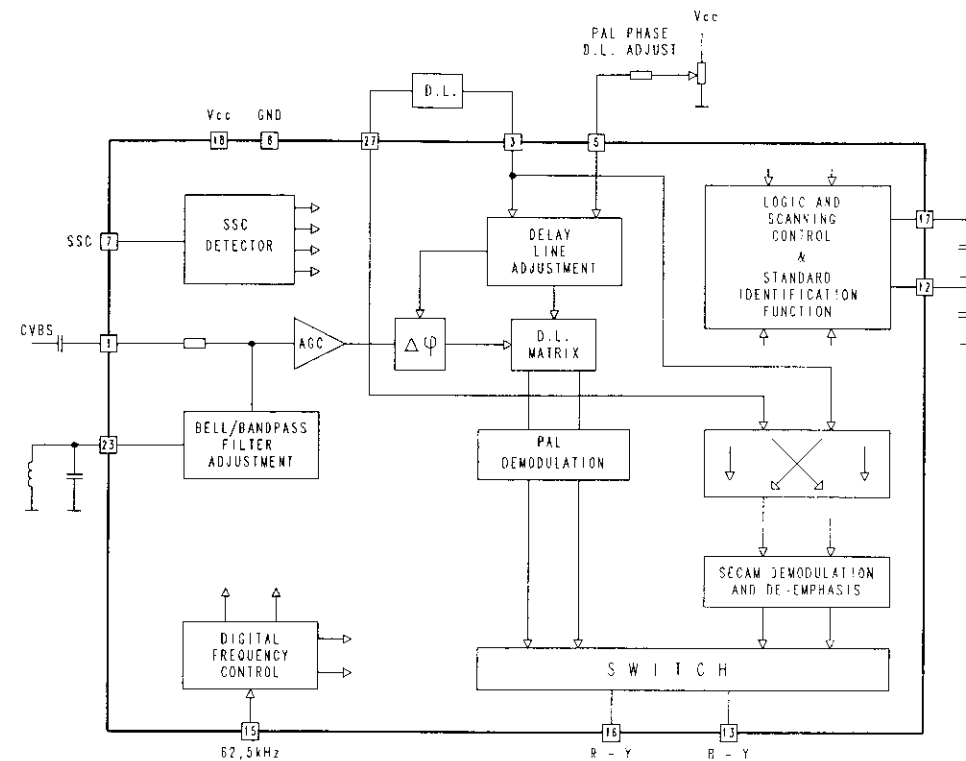
* not used in all models

Chassis TX 90 (Version 1)

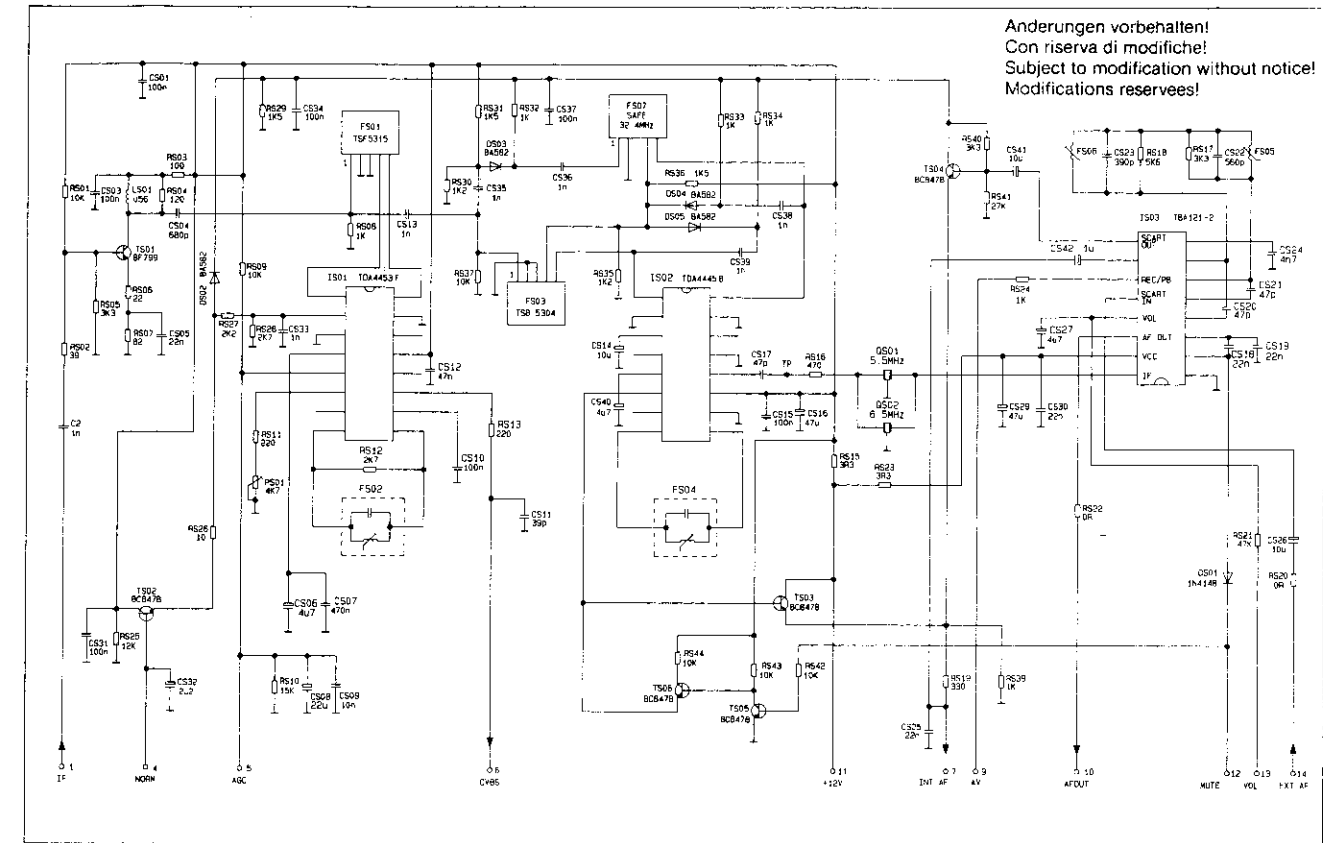




PAL/SECAM CHROMA IC TEA5640F

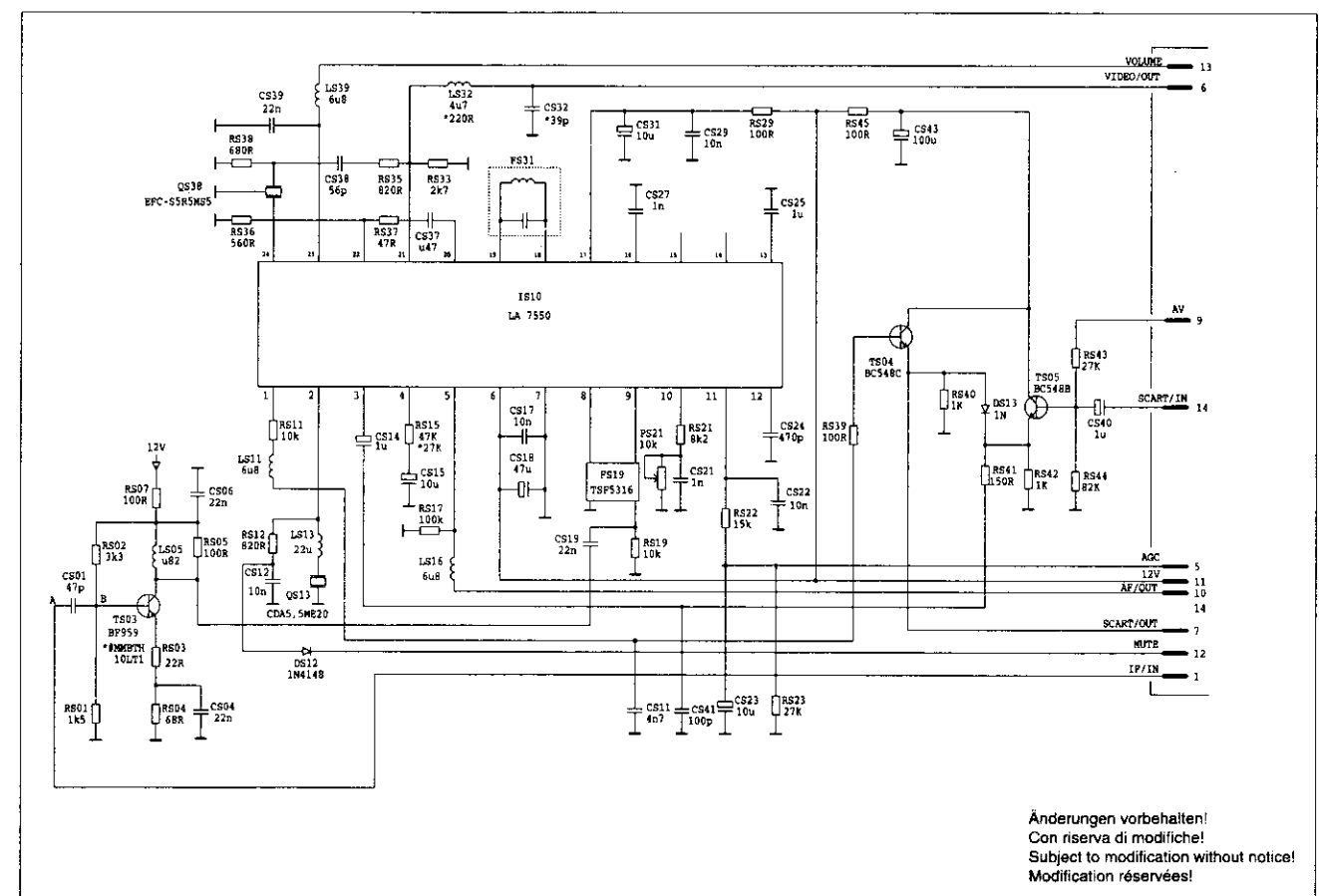
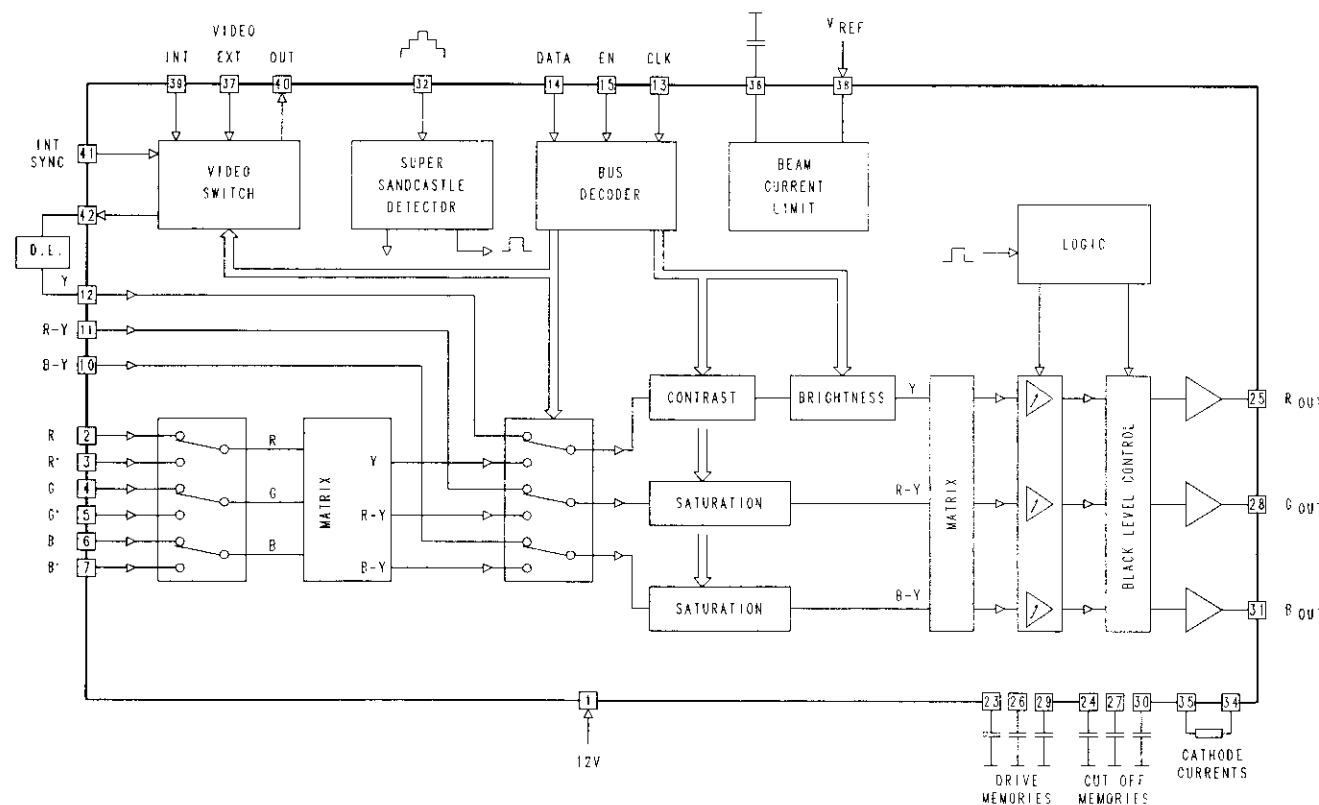


ZF-Verstärker IF 2149 · IF Amplifier · Amplificateur FI · Amplificatore FI · Amplificador FI

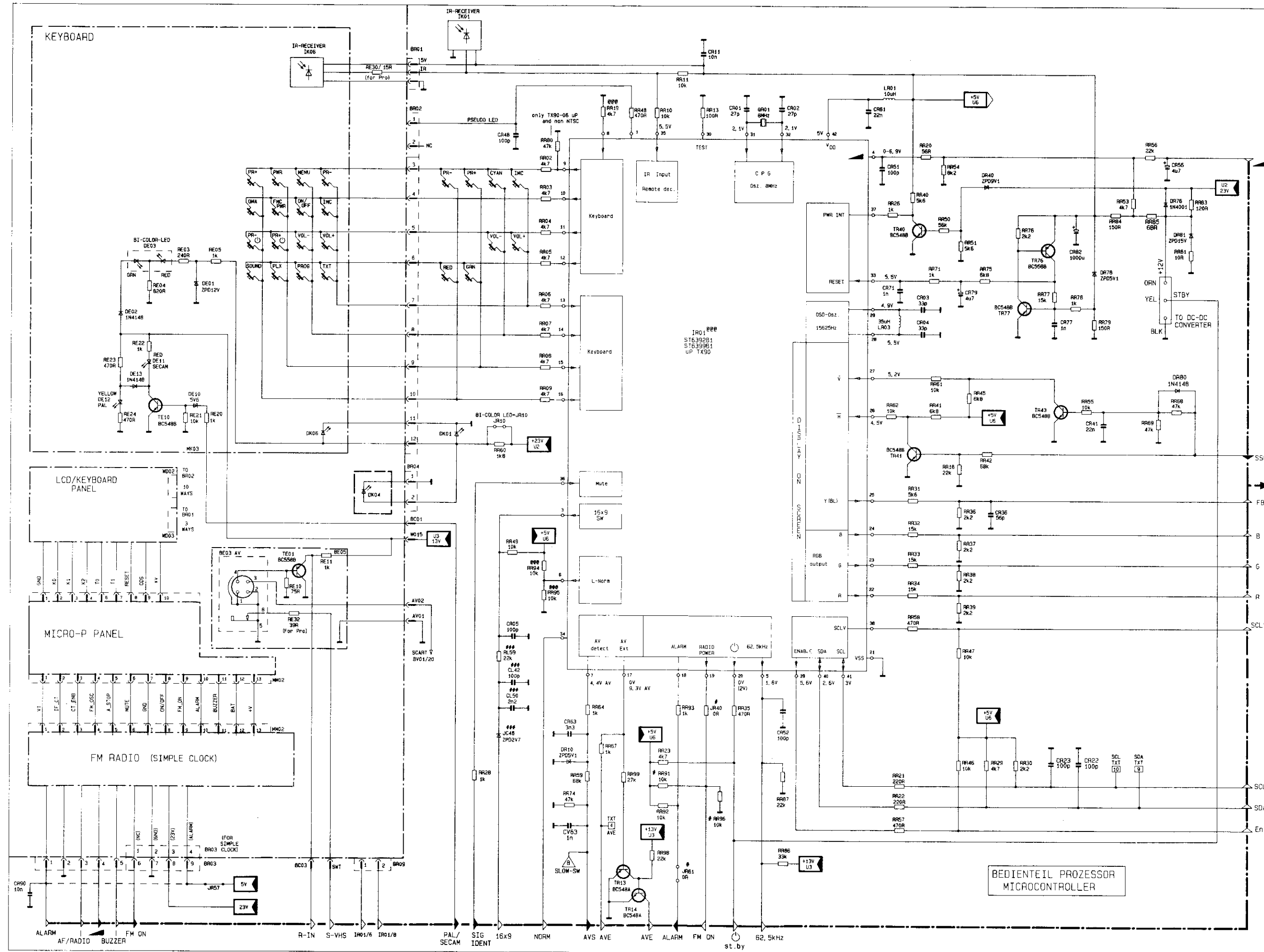


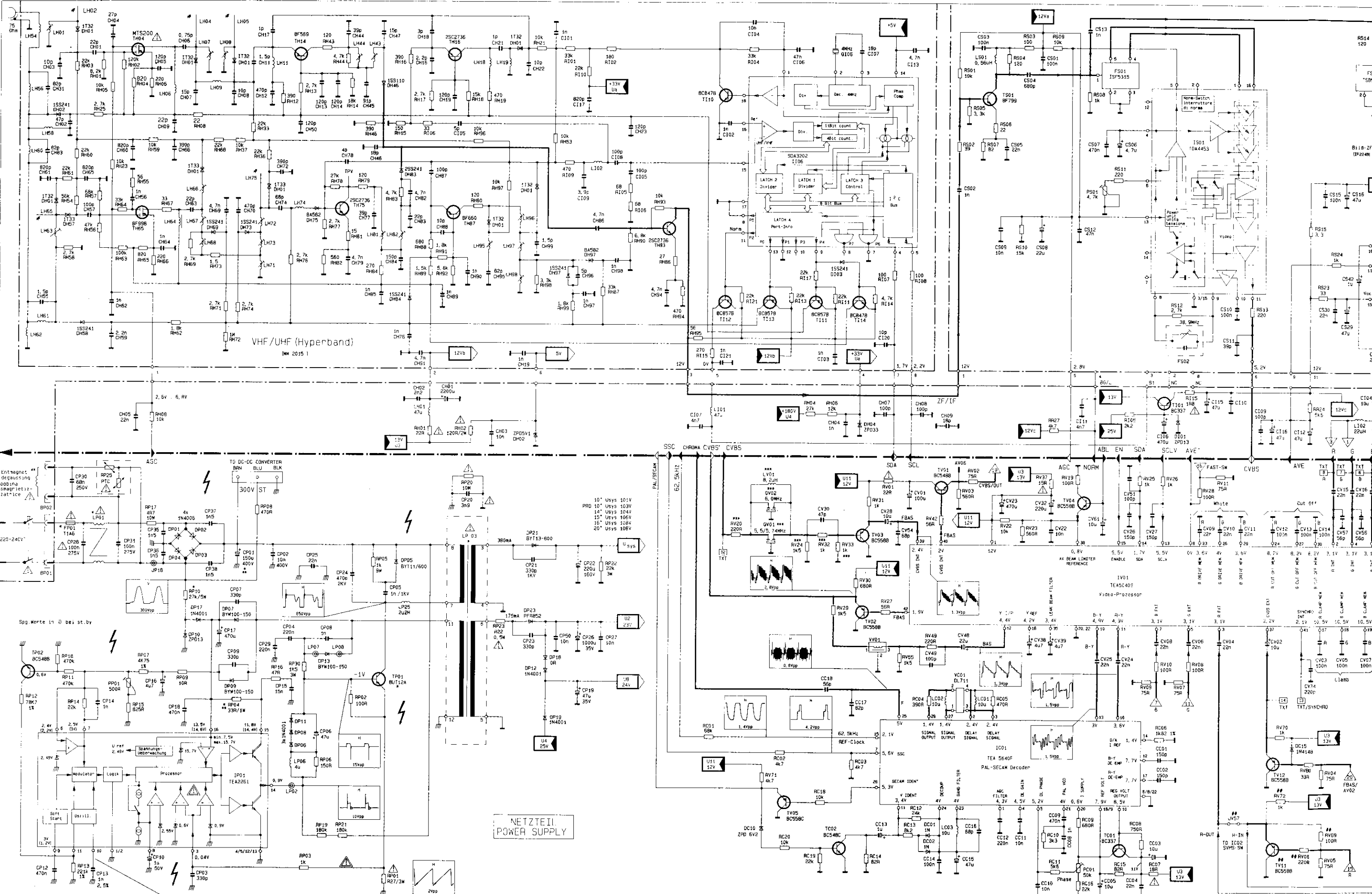
ZF-Verstärker IF 2200 · IF Amplifier · Amplificateur FI · Amplificatore FI · Amplificador FI

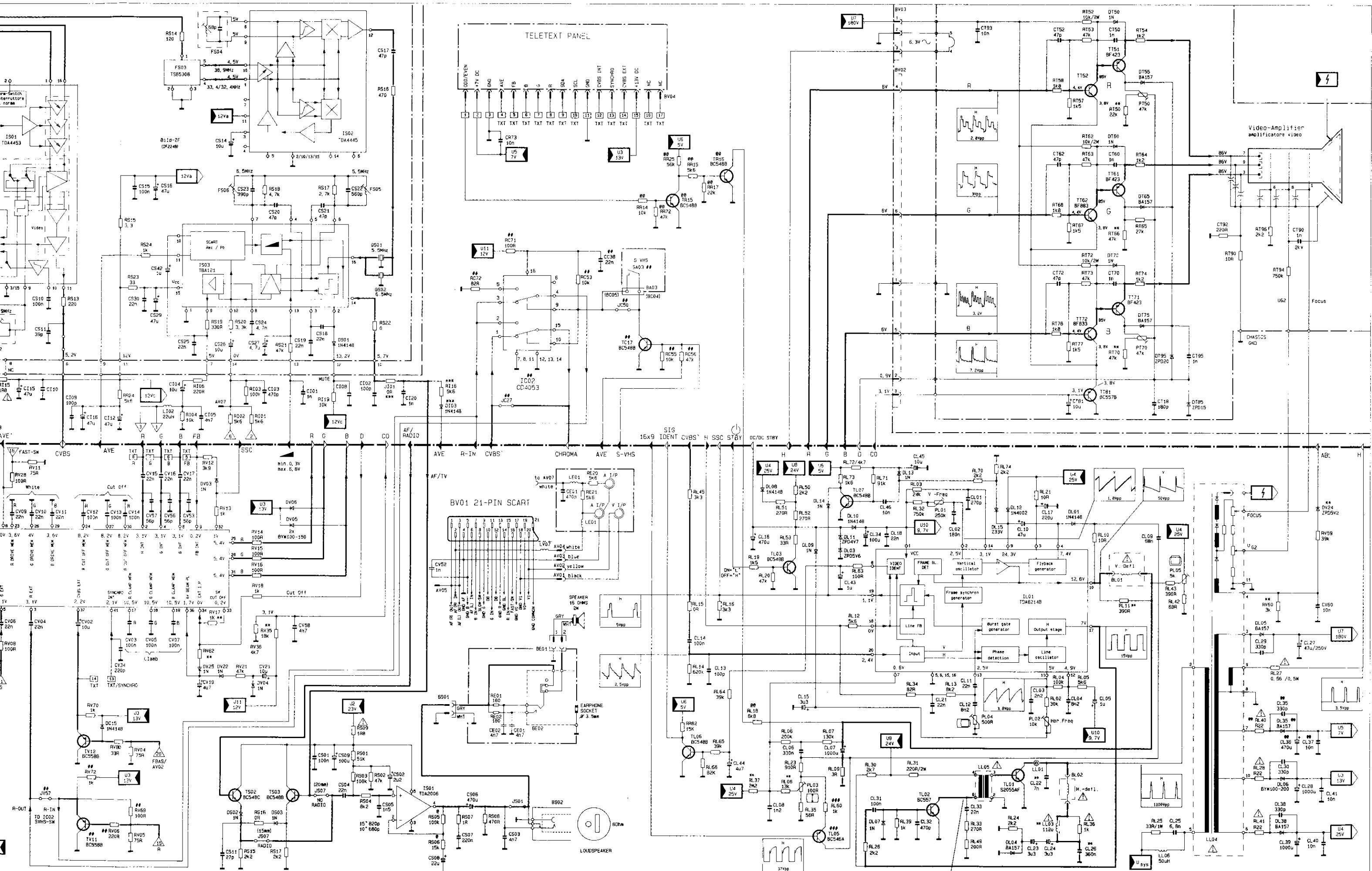
VIDEO PROCESSOR IC TEA5040S

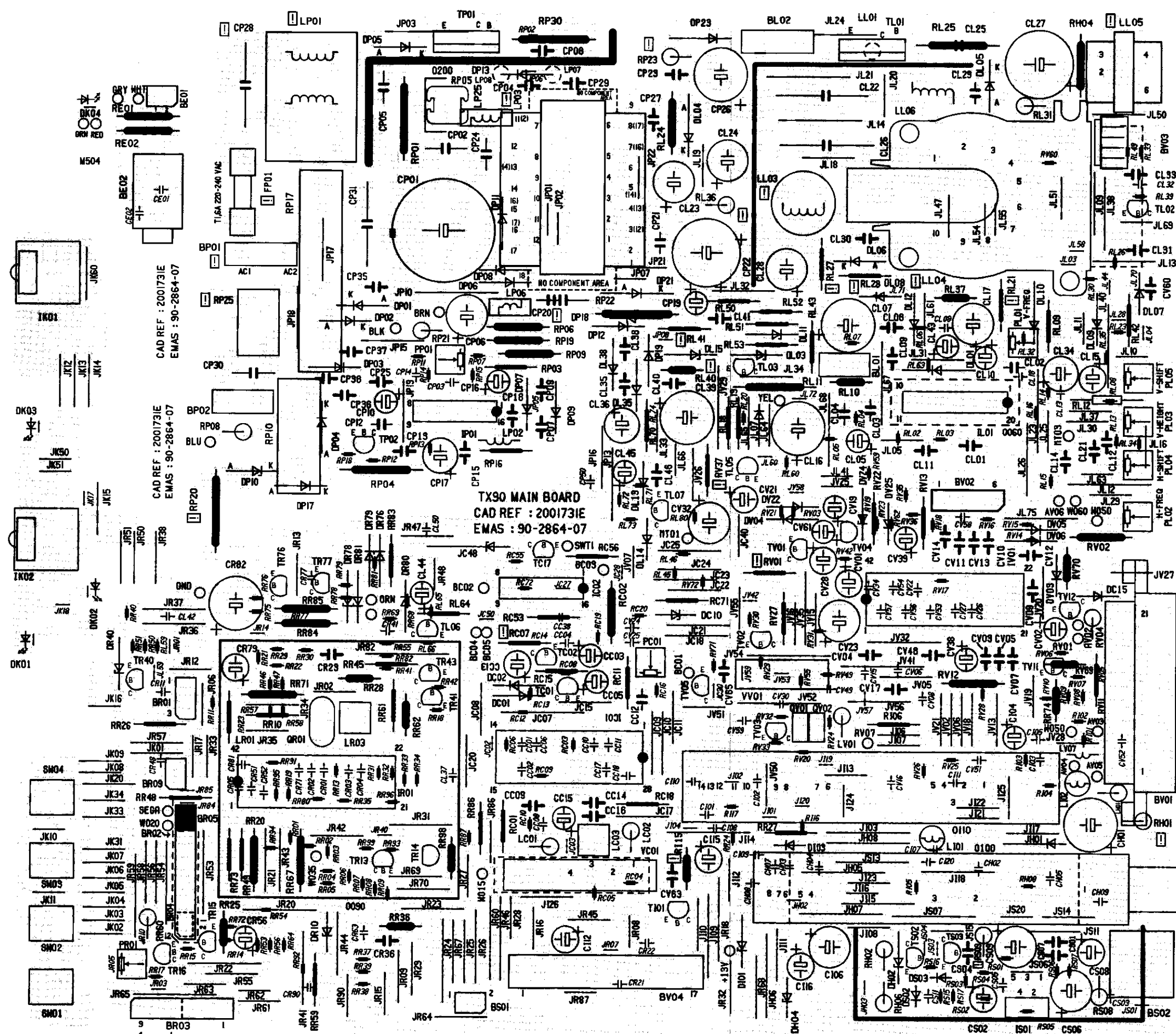


Chassis TX 90 (Version 2)









Das Chassis ist netzgetrennt. Die Trennstelle liegt im Netzteil. Um die VDE-Sicherheit zu gewährleisten, ist nach einer Reparatur sicherzustellen:

1. Auf Luft- und Kriechstrecken achten!
Z. B. durchstehende Drähte ausgewechselter Bauelemente kurz abschneiden.
2. Sicherheitsbauteile Δ nur gegen Original-Ersatzteile austauschen (siehe Stromlaufplan).

The chassis is isolated from line voltage. The isolation point is in the line section. In order to insure safety as per VDE requirements, the following must be checked after any repairs:

1. Check for air gap and leakage paths! For example, protruding ends of wires passing through the board must be cut off short.
2. Components with an essential safety function Δ are to be replaced only with original-equipment parts (see circuit diagram).

Le chassis est séparé du réseau. La séparation est située dans la partie alimentation. Pour assurer la sécurité au regard des normes VDE, après une réparation, il convient de veiller à:

1. Prévenir des formations de circuits aériens ou rampants. Par ex. couper court les fils qui dépassent ou les éléments de construction échangés.
2. N'échanger les éléments de sécurité Δ que contre des pièces de rechange d'origine (cf. plan de passage du courant).

Il telaio è separato rete. Il punto di separazione risiede tra sezione rete. Per garantire la sicurezza VDE a riparazione effettuata deve essere assicurato che:

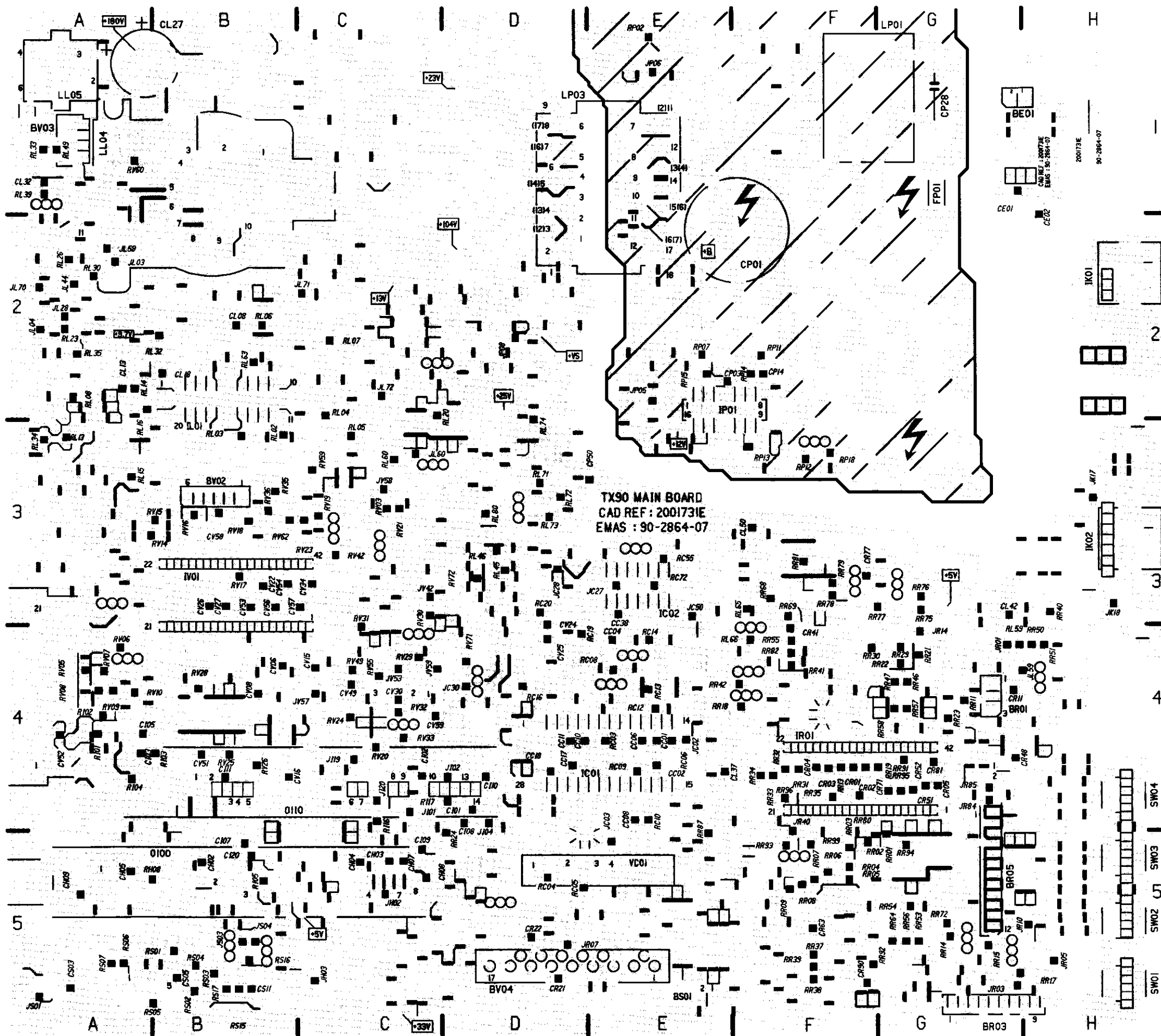
1. Tenere conto delle distanze dei componenti e dei percorsi! p.e. i terminali in passaggio dei componenti sostituiti devono essere tagliati corti.
2. Componenti di sicurezza Δ devono essere sostituiti solamente con ricambi originali (vedere schema).

El chasis está aislado de la red. La separación se produce en la fuente de alimentación. Para garantizar la seguridad en cumplimiento de las normas VDE, después de una reparación, asegurarse de lo siguiente:

1. Mantener la distancia entre componentes. Por ejemplo, cortando todo lo posible los hilos y terminales que sobresalgan de las pistas del circuito impreso.
2. Los componentes marcados en el esquema con el símbolo Δ deben ser substituidos por repuestos originales (ver esquema).

Chassis-Grundplatte · Chassis base board · Plaque de base du chassis · Piastra base telaio · Chasis placa base (Version 2)

Lötseite · solder side · côté soudure · lato saldature · lado soldaduras



Wertetabellen · Tables of values

Tabelle / Table 1 @@@

POS.NO.	MSTD			SECAM LL'
IR01	08(Hotel)	08	07	07
RR19	-	100p	-	-
RR94	-	-	-	10K
RR95	-	100p	10K	-

Tabelle / Table 2 *

ITEM	178-264VAC	90-264VAC
RP10	27K/5W	10K/5W
RP04	33/1W	27/1W
TP01	BUT12A	BUT314TH
LP03	SMV42-20	SMV42-18
LP01	ELF-180650HJ	ELF-180651N
FP01	T1.8A	T2.5A

Tabelle / Table 3 **

ITEM	DESCRIPTION	10"	14"	15"	16"	20"
CL22	HORI. RETRACE CAPACITOR	7n/1K6V (T) 6n8/1K6V (S)	6n5/1.6KV	7n/1.5KV	8n4/1.6KV	8n2/1.6KV
CL26	HORI. LINEARITY CAPACITOR	360n/250V	360n/250V	360n/250V	470n/250V	470n/250V
DV24	VIDEO REF ZENER	ZPD5V6	ZPD6V2	ZPD6V2	ZPD6V2	ZPD6V2
LL03	HORI. LINEARITY COIL	112uH	90uH	112uH	58uH	58uH
LL04	FLYBACK TRANSFORMER	2436914	2436218	2436913	2436893	2436892
LP104	DEGAUSSING COIL	DC-1003A	DC-993	DC-975	DC-9010-16	DC-931
RL08	DC BIAS OF VERT O/P RES.	+1% 13K/0.1W	+1% 13K/0.1W	+1% 13K/0.1W	+1% 13K/0.1W	+1% 12.1K/0.1W
RL11	VERTICAL DAMPER RESISTOR	390/0.7W	680/0.7W	390/0.7W	390/0.7W	390/0.7W
RL37	DC BIAS OF VERT OUTPUT RESISTOR	2W2	2W2	2W2	4W7	2W2
RP01	SMPS I SENSING RESISTOR	R27/3W	R27/3W	R27/3W	R27/3W	R22/3W
RL27	HEATER RESISTOR	0.56/0.5W	1.5/0.5W	1R/0.5W	0.56/0.5W	0.56/0.5W
RL28	+13V FUSIBLE RESISTOR	0.22/0.5W	0.22/0.3W	0.22/0.3W	0.22/0.3W	0.22/0.3W
RV17	CATHODE CURRENT RESISTOR	1K2 PRO 2K7	1K0	1K0	820	750
RV23	AVERAGE I-BEAM RESISTOR	560	470	560	560	680
RV35	AV BEAM RESISTOR	18K	18K	18K	18K	15K
RV60	ABL DIVIDER RESISTOR	3K0 PRO 2K2	1K	1K	1K	1K
RV62	AV BEAM RESISTOR	0R	0R	0R	1K8	1K8
RT66	WHITE-BALANCE RESISTOR	68K	47K	47K	82K	82K
0010	SPEAKER	16/2W	16/2W	16/3W	16/3W	8/4W
RT50	WHITE-BALANCE RESISTOR	22K	22K	22K	47K	33K
RT70	CRT PANEL WHITE-BALANCE	47K	47K	47K	68K/0.25W	47K/0.25W

Tabelle / Table 4 ***

COLOUR	PAL/SECAM	PAL/SECAM	PAL/SECAM	PAL/SECAM	SECAM	PAL	PAL	PAL
TV	B6HILL BGILL	B6LDKK'	B60KK'	B6	LL'	B6	B6	I
TUNER	2015	2015	2015	2015/2003	2007	2015	2003	2011
TUNER	HYPERBAND	HYPERBAND	HYPERBAND	HYP/-	-	HYPERBAND	-	-
IF-MODULE	2108TX	2149	2248	2200	2130TX	2200	2200	2205
LV01	8.2uH	8.2uH	8.2uH	10uH	10uH	10uH	10uH	18uH
QV01	TPW04B 5.5/5.74MHz	TPW04B 5.5/5.74MHz	TPW04B 5.5/5.74MHz	5.5/5.74	TPS6.5WB 6.5MHz	TPW04B 5.5/5.7MHz	TPW04B 5.5/5.74MHz	-
QV02	TPS6.0WB 6.0MHz	TPS6.5WB 6.5MHz	TPS6.5WB 6.5MHz	-	-	-	-	TPS6.0WB 6.0MHz
RV20	200	200	200	200	560	220	180	560
RV24	1K5	1K2	1K8	1K5	2K2	1K5	1K5	-
RV32	1K2	1K	1K2	750	1K	750	750	580
RR20	56	56	56	56	-	56	56	56
RS05	0	0	0	0	-	0	0	0
RS06	0	0	0	0	-	0	0	0
RR94	-	-	-	-	10K	-	-	-
J101	1K5	-	-	0R	-	-	-	-
R116	5K6	-	-	-	-	-	-	-
D103	1N4148	-	-	-	-	-	-	-

Tabelle / Table 5 @@@

ITEM	DESCRIPTIONS
BY04	WAFER 17-WAYS
CL35	CC 330p/50V
CL36	CE 470u/16V
CL37	CPM 10n/63V
DL35	DIODE BA157
RL18 10"	-
RL18 14"	RCF 6K8/0.25W
RL18 15"	RCF 5K6/0.25W
RL18 16"	RCF 5K6/0.25W
RL18 20"	RCF 5K6/0.25W
RL40	RCFF R22/0.3W
RR14	RCFCC 10K/0.1W
RR15	RCFCC 5K6/0.1W
RR17	RCFCC 22K/0.1W
RR25	RCFCC 56K/0.1W
TR15	TR. BC548B
TR16	TR. BC548B
FOR FAST-TEXT IC SOCKET IS ADDED TO IR01 MICRO-P IC	
IC SOCKET 42-P SHRINKED DIP	

Tabelle / Table 6 @

Ø	RS05					RS06					RR20
	10"	14"	15"	16"	20"	10"	14"	15"	16"	20"	
PAL/SECAM 2108TX	82K	100K	91K	100K	100K	11K	9K1	10K	10K	10K	56
PAL/SECAM 2149	100K	100K	56K	68K	75K	24K	11K	12K	11K	15K	56
PAL/SECAM 2248	62K	100K	56K	68K	68K	13K	11K	11K	10K	12K	56
PAL BG 2200	91K	100K	82K	100K	91K	15K	10K	11K	10K	12K	56
PAL I 2205	82K	100K	82K	100K	91K	13K	9K1	11K	10K	12K	56

Tabelle / Table 7 ##

POS.NO.	W/O S-VHS	S-VHS VIA SCART	S-VHS SOCKET	TOCOW
CC38	-	CCCC 22n	CCCC 22n	50107900
IC02	-	HCF 4053	HCF 4053	46006700
JC23	-	STRAP 15mm	-	67057001
JC24	-	STRAP 15mm	STRAP 15mm	67057001
JC25	-	STRAP 15mm	-	67057001
JV50	-	STRAP 10mm	STRAP 10mm	67056601
JV52	-	STRAP 20mm	-	67057401
JV54	-	STRAP 20mm	-	67057401
JV55	-	STRAP 10mm	-	67056601
JV59	-	RCFCC OR	RCFCC OR	90541136
RC53	-	RCF 10K	RCF 10K	41001602
RC55	-	RCFCC 10K	RCFCC 10K	20110300
RC56	-	RCF 47K	RCF 47K	41001902
RC71	-	RCF 100R	RCF 100R	41010708
RC72	-	RCFCC 82R	-	70103500
RV72	-	RCF 1K	-	10327800
TV11	-	TRB558B	-	45002656
JC27	RCFCC OR	-	-	90541136
JV57	RCFCC OR	-	RCFCC OR	90541136
RV69	RCF 100R	-	RCF 100R	41002820
RV06	-	RCFCC 220R	-	80077900
JC50	-	-	RCFCC OR	90541136
OTHER	-	TX90 SWITCH BD	CONTROL BD WITH S-VHS SOCKET	20110190

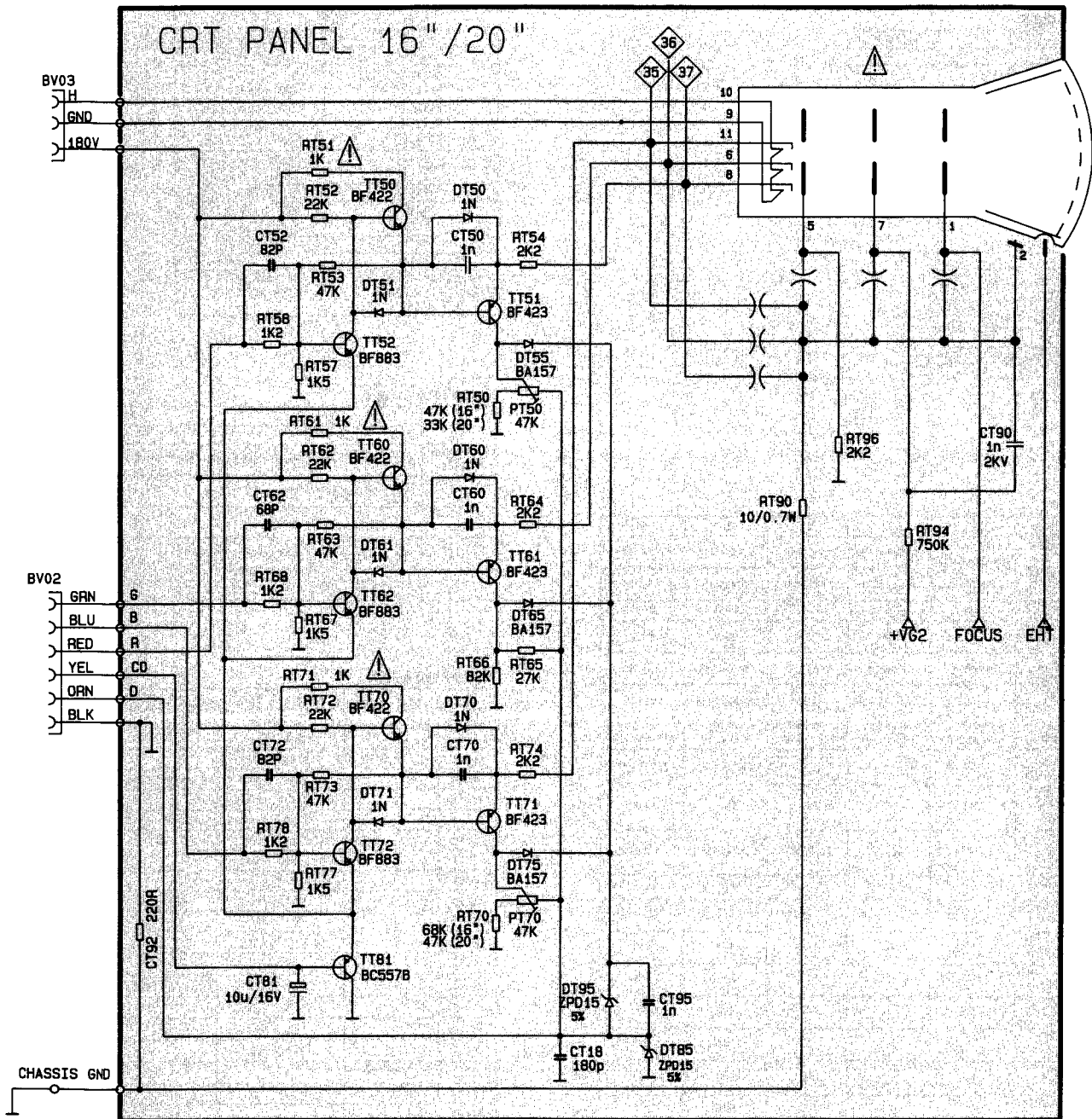
Tabelle / Table 8 ###

POS.NO.	16 X 9	NO 16 X 9
JC48	DIODE ZPD 2V7	44026102
RL60	RCFCCWIN 1K0	10327800
IL05	TR BC548B	45002156
CL50	CCCCWIN 2n2	50220900
CL42	CCCCWIN 100p	90207180
JL60	RCFCC OR	90541136
JL67	STRAP 20mm	67057401
JL63	STRAP 7.5mm	67056901
RL59	RCFCCWIN 22K	60080300
JL59	RCFCC OR	90541136
RR49	RCF 10K	41001602
CR05	CCCCWIN 1n	10311300

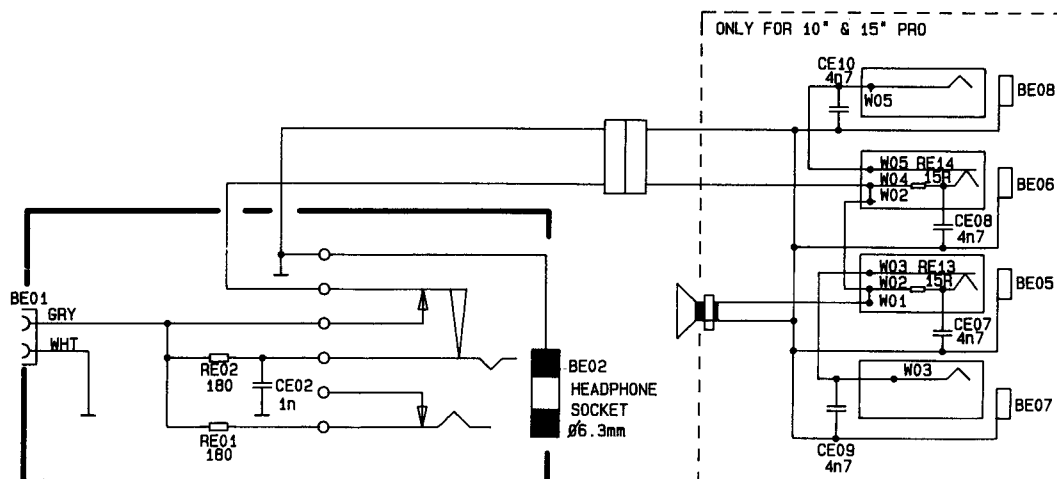
Tabelle / Table 9 #

POS. NO.	NO. CLOCK	RADIO CLOCK	SIMPLE CLOCK
RR91	-	10K	-
RR96	-	-	10K
JR40	-	0R	0R
JR61	-	0R	0R

Bildröhrenplatte 16"/20" · Picture tube board · Platine tube image · Basetta Cinescopio · Placa de tubo de imagen

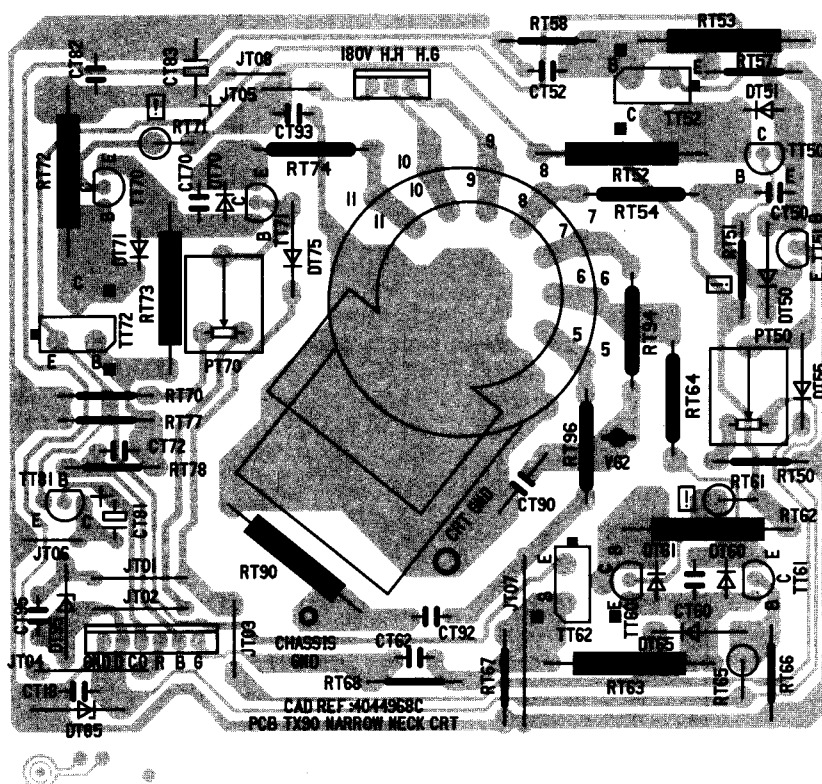


Lautsprecheranschluß · Speaker connection · Connexion haut-parleur · Collegamento altoparlante - 10"/15" PRO

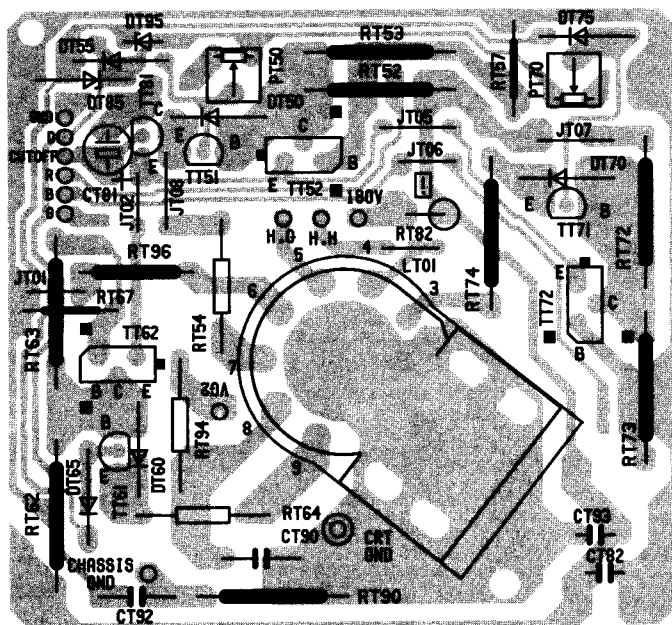


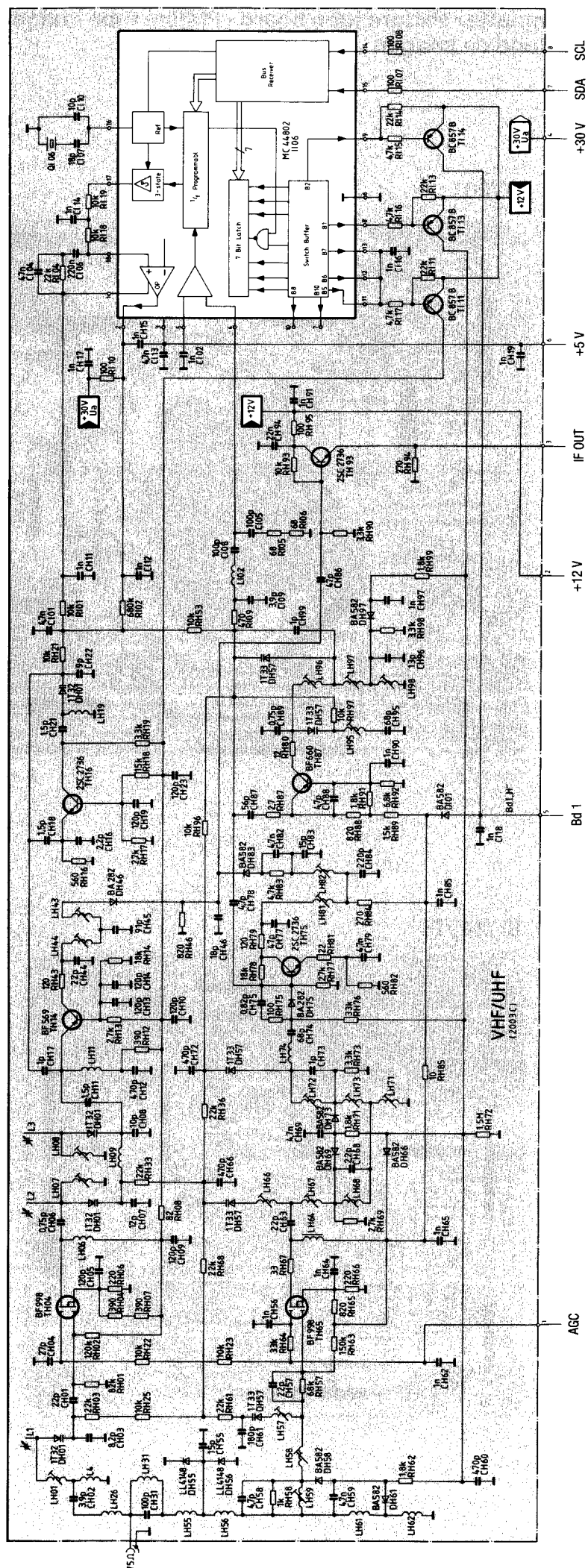
Bildröhrenplatte · Picture tube board · Platine tube image · Basetta Cinescopio ·
Placa de tubo de imagen

16"/20"

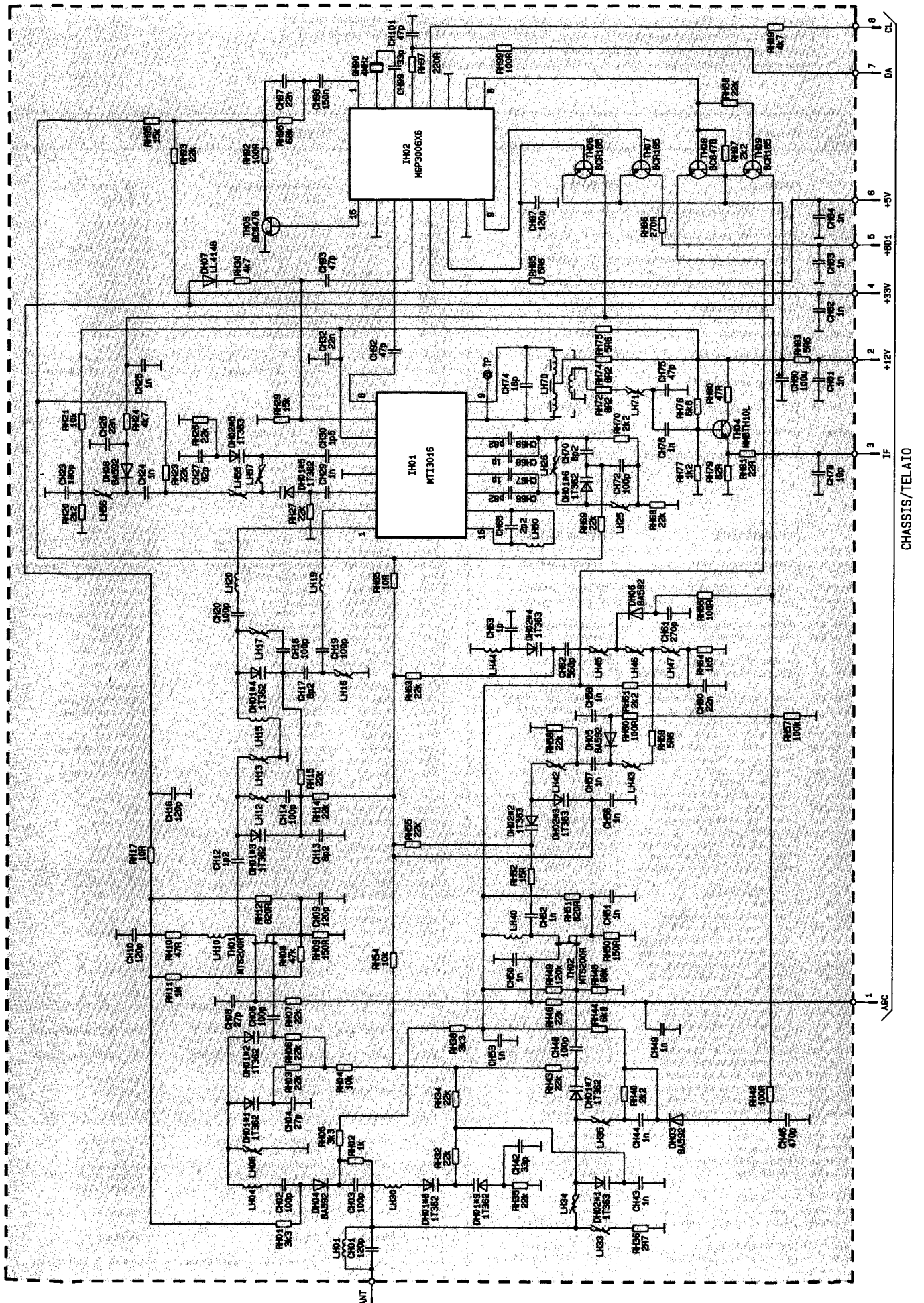


10"/14"/15"





Tuner MTP 4015



Ersatzteilliste · Spare parts list · Liste de pièces de rechange · Lista parti di ricambio · Lista de piezas de recambio

Wichtig: Bei Ersatzteilbestellung bitte unbedingt die entsprechende Bestellnummer angeben!
N.B.: When demanding Spare Parts it is absolutely necessary to quote the corresponding part number!
Important: Lors d'une commande de pièces de rechange, prière d'indiquer en tout cas le numéro de la pièce!
Importante: Ordinare sempre con il numero corrispondenti di codice!
Importante: Pedir siempre los recambios con el numero correspondiente de código!

Pos.	Art.-Nr Part No. No.articolo	Bezeichnung	Part
		MODULE:	MODULE:
CRT 10"	201.857.60	CRT 10" TX90 LTP BILDROHRANSCHLUSS	CRT 10" TX90 PCB CRT
CRT 14"	349.377.004	CRT 14" TX90 LTP BILDROHRANSCHLUSS	CRT 14" TX90 PCB CRT
CRT 16"	490.006.1355	CRT 16" TX90 LTP BILDROHRANSCHLUSS	CRT 16" TX90 PCB CRT
CRT 20"	201.081.30	CRT 20" TX90 LTP BILDROHRANSCHLUSS	CRT 20" TX90 PCB CRT
IF2110	256.815	IF2110 ZF-VERSTÄRKER	IF2110 UNIT
IF2149	490.007.8266	IF2149 ZF-MODUL	IF2149 UNIT
IF2200	490.007.8988	IF2200 ZF-VERSTÄRKER	IF2200 UNIT
IF2248	490.007.8982	IF2248 ZF-VERSTÄRKER	IF2248 UNIT
MTP2003	349.357.096	MTP-BG2003.01 TUNER	MTP-BG2003.01 TUNER
MTP2015	252.758	MTP2015 TUNER	MTP2015 TUNER
VT9004	204.663.90	VT9004 TX90 VIDEOTEXT-DECODER	VT9004 TX90 PCB TELETEXT
		CHASSIS-TEILE	CHASSIS PARTS
BE02	243.876	Buchse, Kopfhörer, 3,5mm	Headphone socket
BR01	804.085.95	Stiftgehäuse, 3polig, natur	3 pin contact housing
BR09	404.060.81	Stiftgehäuse, 2polig, natur	2 pin contact housing
BS01	404.060.81	Stiftgehäuse, 2polig, natur	2 pin contact housing
BS02	490.007.8958	Buchse, Lautsprecher	Speaker jack
BV01	243.877	Buchse, Euro AV (SCART)	Scart socket
BV04	309.117.54	Stiftleiste, 17polig, für VT-Decoder TX90	Contact strip, 17-pole
CL22	200.996.90	5N8F 1K6V 3,5% Filmkondensator	5N8F 1K6V 3,5% Film cap
CL22	243.878	7NF 1K5V 3,5% Filmkondensator	7NF 1K5V 3,5% Film cap
CL22	249.180	8N2F 1K6V Filmkondensator	8N2F 1K6V Film cap
CL22	490.007.8950	6N5F 1K6V 3,5% Filmkondensator	6N5F 1K6V 3,5% Film cap
CL22	490.008.0865	6N8F 1K6V Filmkondensator	6N8F 1K6V Film cap
CL22	905.659.10	8N6F 1K6V 3,5% Filmkondensator	8N6F 1K6V 3,5% Film cap
CL23	490.007.8233	3U3F 160V 20% Elko	3U3F 160V 20% E cap
CL24	490.007.8233	3U3F 160V 20% Elko	3U3F 160V 20% E cap
CL26	266.729	300NF 250V 3,5% Filmkondensator	300NF 250V 3,5% Film cap
CL26	309.434.626	360NF 250V 5% Filmkondensator	360NF 250V 5% Film cap
CL26	440.089	470NF 250V 5% MPP-Kondensator	470NF 250V 5% MPoly cap
CL27	246.740	47U, 250V ELKO	47UF 250V E cap
CL29	266.243	330PF 1KV 10% Keramik-Kondensator	330PF 1KV 10% C cap
CL30	266.243	330PF 1KV 10% Keramik-Kondensator	330PF 1KV 10% C cap
CL38	243.879	330PF 400V 20% Keramik-Kondensator	330PF 400V 20% C cap
CP01	243.351	150UF 385V 20% Elko	150UF 385V 20% E cap
CP01	243.880	150UF 400V 20% Elko	150UF 400V 20% E cap
CP02	260.535	10NF 400V 20% MP-Kondensator	10NF 400V 20% MP cap
CP05	309.442.977	1NF 1KV Keramik-Kondensator	1NF 1KV C cap
CP07	243.879	330PF 400V 20% Keramik-Kondensator	330PF 400V 20% C cap
CP09	243.879	330PF 400V 20% Keramik-Kondensator	330PF 400V 20% C cap
CP20	281.818	3N9F 400V 20% Keramik-Kondensator	3N9F 400V 20% C cap
CP21	266.243	330PF 1KV 10% Keramik-Kondensator	330PF 1KV 10% C cap
CP22	243.881	220UF 160V 20% Elko	220UF 160V 20% E cap
CP23	243.879	330PF 400V 20% Keramik-Kondensator	330PF 400V 20% C cap
CP24	309.442.975	470PF 2KV Keramik-Kondensator	470PF 2KV C cap
CP28	252.320	0U1F 275V 20% MP-Kondensator	0U1F 275V 20% MPoly cap
CP28	309.440.680	10NF 275V Keramik-Kondensator	10NF 275V C cap
CP30	316.920.6000	68NF 250V 10% MP-Kondensator	68NF 250V 10% MPoly cap
CP31	252.320	0U1F 275V 20% MP-Kondensator	0U1F 275V 20% MPoly cap
CP35	309.442.972	1N5F 1KV Keramik-Kondensator	1N5F 1KV C cap
CP36	309.442.972	1N5F 1KV Keramik-Kondensator	1N5F 1KV C cap
CP37	309.442.972	1N5F 1KV Keramik-Kondensator	1N5F 1KV C cap
CP38	309.442.972	1N5F 1KV Keramik-Kondensator	1N5F 1KV C cap
DC01	309.325.927	1N4148 Diode	1N4148 Diode
DC02	309.325.927	1N4148 Diode	1N4148 Diode
DC10	309.325.196	ZPD5V6 ZENER Diode	ZPD5V6 ZENER Diode
DC15	309.325.927	1N4148 Diode	1N4148 Diode
DE02	309.325.927	1N4148 Diode	1N4148 Diode
DE03	201.258.7A	Halter, LED	LED holder
DE03	309.327.134	MV5491A LED ROT/GRÜN Diode	MV5491A LED Diode
DH02	256.421	ZPD5V1 ZENER Diode	ZPD5V1 ZENER Diode
DH04	256.333	ZPD33V 0,5W 2% ZENER Diode	ZPD33V 0,5W 2% ZENER Diode
DI01	464.597	ZPD13 ZENER Diode	ZPD13 ZENER Diode

Pos.	Art.-Nr Part No. No.articolo	Bezeichnung	Part
DK01	246.056	HLMP-D150 LED Diode	HLMP-D150 LED Diode
DK01	246.060	Halter, LED	LED holder
DL01	309.325.927	1N4148 Diode	1N4148 Diode
DL02	339.529.300	1N4002 Diode	1N4002 Diode
DL03	273TX0319	BZX83C15V ZENER Diode	BZX83C15V ZENER Diode
DL03	309.325.196	ZPD5V6 ZENER Diode	ZPD5V6 ZENER Diode
DL04	309.325.056	BA157 Diode SSW	BA157 Diode
DL05	309.325.056	BA157 Diode SSW	BA157 Diode
DL06	239.254	BYW100-200 Diode	BYW100-200 Diode
DL06	464.871	BA157 Diode	BA157 Diode
DL07	309.325.927	1N4148 Diode	1N4148 Diode
DL08	309.325.927	1N4148 Diode	1N4148 Diode
DL09	309.325.927	1N4148 Diode	1N4148 Diode
DL10	309.325.927	1N4148 Diode	1N4148 Diode
DL11	273TX5032	ZPD4,7 5% ZENER Diode	ZPD4,7 5% ZENER Diode
DL12	339.529.300	1N4002 Diode	1N4002 Diode
DL13	309.325.927	1N4148 Diode	1N4148 Diode
DL14	309.325.927	1N4148 Diode	1N4148 Diode
DL15	256.333	ZPD33V 0,5W 2% ZENER Diode	ZPD33V 0,5W 2% ZENER Diode
DL35	309.325.056	BA157 Diode SSW	BA157 Diode
DL38	309.325.056	BA157 Diode SSW	BA157 Diode
DP01	462.268	1N4006 Diode	1N4006 Diode
DP02	462.268	1N4006 Diode	1N4006 Diode
DP03	462.268	1N4006 Diode	1N4006 Diode
DP04	462.268	1N4006 Diode	1N4006 Diode
DP05	490.001.1567	BYT11-600 Diode	BYT11-600 Diode
DP06	273TX0025	1N4001 Diode	1N4001 Diode
DP07	339.527.021	MUR115/BYW100-150 Diode	MUR115/BYW100-150 Diode
DP08	273TX0025	1N4001 Diode	1N4001 Diode
DP09	339.527.021	MUR115/BYW100-150 Diode	MUR115/BYW100-150 Diode
DP10	464.597	ZPD13 ZENER Diode	ZPD13 ZENER Diode
DP11	273TX0025	1N4001 Diode	1N4001 Diode
DP12	273TX0025	1N4001 Diode	1N4001 Diode
DP13	339.527.021	MUR115/BYW100-150 Diode	MUR115/BYW100-150 Diode
DP17	273TX0025	1N4001 Diode	1N4001 Diode
DP19	273TX0025	1N4001 Diode	1N4001 Diode
DP21	252.381	BYT13-800 Diode	BYT13-800 Diode
DP23	490.008.0461	PFR852 Diode	PFR852 Diode
DR07	309.325.927	1N4148 Diode	1N4148 Diode
DR10	256.421	ZPD5V1 ZENER Diode	ZPD5V1 ZENER Diode
DR40	256.736	ZPD9V1 ZENER Diode	ZPD9V1 ZENER Diode
DR76	339.525.013	1N4001 Diode	1N4001 Diode
DR78	256.421	ZPD5V1 ZENER Diode	ZPD5V1 ZENER Diode
DR79	256.421	ZPD5V1 ZENER Diode	ZPD5V1 ZENER Diode
DR80	309.325.927	1N4148 Diode	1N4148 Diode
DR81	266.939	ZPD15V ZENER Diode	ZPD15V ZENER Diode
DS02	309.325.927	1N4148 Diode	1N4148 Diode
DS03	309.325.927	1N4148 Diode	1N4148 Diode
DS30	309.325.927	1N4148 Diode	1N4148 Diode
DV03	309.325.927	1N4148 Diode	1N4148 Diode
DV04	309.325.927	1N4148 Diode	1N4148 Diode
DV05	339.527.021	MUR115/BYW100-150 Diode	MUR115/BYW100-150 Diode
DV06	339.527.021	MUR115/BYW100-150 Diode	MUR115/BYW100-150 Diode
DV22	309.325.927	1N4148 Diode	1N4148 Diode
DV24	246.395	ZPD6V2 ZENER Diode	ZPD6V2 ZENER Diode
DV25	309.325.927	1N4148 Diode	1N4148 Diode
DV38	464.372	ZPD6,8 ZENER Diode	ZPD6,8 ZENER Diode
DV40	309.325.927	1N4148 Diode	1N4148 Diode
FP01	467.089	G.-Schmelzeinsatz, T 1,6A III	Glass fuse, T 1,6A
IC01	490.007.8241	TEA5640F IC	TEA5640F IC
IC02	411.714	MC14053B/HEF4053B/TC4053B/BU4053B IC	MC14053B/HEF4053B/BU4053B IC
IE01	490.007.8242	GP1U73QF IR-VORVERSTÄRKER	INFRA-RED PRE-AMPLIFIER
IK02	490.007.8242	GP1U73QF IR-VORVERSTÄRKER	INFRA-RED PRE-AMPLIFIER
IL01	201.156.90	TDA8214B IC	TDA8214B IC
IL01	490.007.8268	TDA8218 IC	TDA8218 IC
IP01	309.368.549	TEA2261 IC	TEA2261 IC
IR01	201.483.70	ST6392B1/ZP TX90-08 IC	ST6392B1/ZP IC
IR01	243.884	ST6399B1/KM IC IC	ST6399B1/KM IC
IR01	309.689.966	IC-Fassung, 42polig	IC socket, 42pole
IR01	490.008.0462	ST6399B1/KU TX90-05 IC	ST6399B1/KU IC
IR01	490.008.1359	ST6392B1/TT TX90-07 IC	ST6392B1/TT IC
IS01	411.673	TDA2008 IC	TDA2008 IC
IV01	243.885	TEA5040S-3 IC	TEA5040S-3 IC
JL15	276.873	10R 0,3W 5% Sicherheitswiderstand	10R 0,3W 5% Fusible resistor

Ersatzteilliste · Spare parts list · Liste de pièces de rechange · Lista parti di ricambio · Lista de piezas de recambio

Wichtig: Bei Ersatzteilbestellung bitte unbedingt die entsprechende Bestellnummer angeben!
N.B.: When demanding Spare Parts it is absolutely necessary to quote the corresponding part number!
Important: Lors d'une commande de pièces de rechange, prière d'indiquer en tout cas le numéro de la pièce!
Importante: Ordinare sempre con il numero corrispondenti di codice!
Importante: Pedir siempre los recambios con el numero correspondiente de código!

Pos.	Art.-Nr Part No. No. articolo	Bezeichnung	Part
LC01	309.250.966	10UH 10% Drossel	10UH 10% Choke
LC02	309.250.966	10UH 10% Drossel	10UH 10% Choke
LC03	243.886	10UF 5% Drossel	10UF 5% Choke
LE01	339.349.566	2X400UH Netzeingangs-drossel	2X400UH Power choke
LH01	309.249.342	47UH Drossel	47UH Choke
LI01	309.249.342	47UH Drossel	47UH Choke
LI02	256.493	22UH 10% Drossel	22UH 10% Choke
LL01	339.349.553	Ferritperle	Ferrite bead
LL03	201.841.30	250UH Spule, H-Linearität	250UH H-Linearity coil
LL03	243.452	90UH Spule, H-Linearität	90UH H-Linearity coil
LL03	256.863	112UH Spule, H-Linearität	112UH H-Linearity coil
LL03	309.249.377	58UH Spule, H-Linearität	58UH H-Linearity coil
LL04	200.762.10 S	Diodensplit-Trafo, TX90 16"	Diode split transformer
LL04	201.827.60 S	Diodensplit-Trafo, TX90 10" SAMSUNG	Diode split transformer
LL04	490.007.8247 S	Diodensplit-Trafo, TX90 10"	Diode split transformer
LL04	490.007.8955 S	Diodensplit-Trafo, TX90 14"	Diode split transformer
LL04	490.008.0541 S	Diodensplit-Trafo, TX90 20" (2436892)	Diode split transformer
LL04	490.008.0866 S	Diodensplit-Trafo, TX90 15"	Diode split transformer
LL05	243.888	Treibertransformator	H-Driver transformer
LL06	309.250.964	50UH Drossel	50UH Choke
LP01	309.259.013	Siebdrossel	Filter choke
LP01	490.008.0542	Siebdrossel	Filter choke
LP03	239.211	Trafo, Schaltnetzteil	Switched mode power transformer
LP03	243.889	Trafo, Schaltnetzteil	Switched mode power transformer
LP03	490.008.0463	Trafo, Schaltnetzteil	Switched mode power transformer
LP06	243.890	4UH 25% Drossel	4UH 25% Choke
LP07	339.349.553	Ferritperle	Ferrite bead
LP08	339.349.553	Ferritperle	Ferrite bead
LP25	243.872	2U2H 25% Drossel	2U2H 25% Choke
LR01	266.408	10UH Drossel	10UH Choke coil
LR01	309.250.966	10UH 10% Drossel	10UH 10% Choke
LR03	490.007.8251	Filter	Filter
LV01	309.250.966	10UH 10% Drossel	10UH 10% Choke
LV01	426.035	8U2H 10% Drossel	8U2H 10% Choke
LV02	309.249.344	27UH Filter	27UH Filter
LV06	256.493	22UH 10% Drossel	22UH 10% Choke
LV06	339.349.058	39UH Resonanzspule	39UH Peaking coil
PC01	243.891	50KR 20% Trimmwiderstand	50KR 20% Trimmer resistor
PL01	243.892	250KR 20% Trimmwiderstand	250KR 20% Trimmer resistor
PL02	243.893	10KR 20% Trimmwiderstand	10KR 20% Trimmer resistor
PL03	243.894	100R 20% Trimmwiderstand	100R 20% Trimmer resistor
PL04	243.895	500R Trimmwiderstand	500R Trimmer resistor
PL05	243.896	5KR 10% Trimmwiderstand	5KR 10% Trimmer resistor
PP01	243.897	500R 20% Trimmwiderstand	500R 20% Trimmer resistor
QR01	490.007.8956	8MHZ Quarz	8MHZ Crystal
QV01	309.160.851	TPW04B Keramikfilter 5,74Mhz	TPW04B Ceramic filter
QV02	243.899	TPS6.5MB Keramikfilter	TPS6.5MB Ceramic filter
RC07	243.900	22R 0,5W 5% Sicherheitswiderstand	22R 0,5W 5% Fusible resistor
RC07	309.533.636	18R 0,3W 5% Sicherheitswiderstand	18R 0,3W 5% Fusible resistor
RE05	273TX0321	BZX83C12 ZENER Diode	BZX83C12 ZENER Diode
RH01	309.580.955	22R 0,3W 5% Sicherheitswiderstand	22R 0,3W 5% Fusible resistor
RH02	243.901	120R 2W 5% Metalloxyd-widerstand	120R 2W 5% Metal oxide resistor
RI15	309.580.967	1R8 0,3W 5% Sicherheitswiderstand	1R8 0,3W 5% Fusible resistor
RJ20	335.550.6100	8R2 0,3W 5% Sicherheitswiderstand	8R2 0,3W 5% Fusible resistor
RL21	276.873	10R 0,3W 5% Sicherheitswiderstand	10R 0,3W 5% Fusible resistor
RL25	249.515	33R 1W 5% Metalloxyd-widerstand	33R 1W 5% Metal oxide resistor
RL25	256.361	27R 2W 5% Metalloxyd-widerstand	27R 2W 5% Metal oxide resistor
RL27	243.455	1R8 0,5W 5% Sicherheitswiderstand	1R8 0,5W 5% Fusible resistor
RL27	243.902	0R56 0,5W 5% Sicherheitswiderstand	0R56 0,5W 5% Fusible resistor
RL27	309.580.958	1R5 0,5W 5% Sicherheitswiderstand	1R5 0,5W 5% Fusible resistor
RL27	409.169	1R 0,5W 5% Sicherheitswiderstand	1R 0,5W 5% Fusible resistor
RL28	490.007.8973	0R22 0,3W 5% Sicherheitswiderstand	0R22 0,3W 5% Fusible resistor
RL28	490.007.8987	0R22 0,35W 5% Sicherheitswiderstand	0R22 0,35W 5% Fusible resistor
RL31	243.904	220R 2W 5% Metalloxyd-widerstand	220R 2W 5% Metal oxide resistor
RL36	309.580.952	1KR 0,5W 10% Sicherheitswiderstand	1KR 0,5W 10% Fusible resistor
RL40	490.007.8987	0R22 0,35W 5% Sicherheitswiderstand	0R22 0,35W 5% Fusible resistor
RL41	243.903	0R22 0,5W 5% Sicherheitswiderstand	0R22 0,5W 5% Fusible resistor
RP01	243.905	0R27 3W 5% Metallfilmwiderstand	0R27 3W 5% Metal film resistor
RP01	490.008.0543	0R22 3W Metallfilmwiderstand	0R22 3W Metal film resistor
RP04	249.515	33R 1W 5% Metalloxyd-widerstand	33R 1W 5% Metal oxide resistor
RP04	256.799	47R 1W 5% Metalloxyd-widerstand	47R 1W 5% Metal oxide resistor
RP05	243.906	1KR 9W 10% Drahtwiderstand	1KR 9W 10% Wire resistor
RP10	243.922	27KR 5W 5% Drahtwiderstand	27KR 5W 5% Wire resistor

Pos.	Art.-Nr Part No. No. articolo	Bezeichnung	Part
RP17	490.007.8263	4R7 10W 5% Drahtwiderstand	4R7 10W 5% Wire resistor
RP20	408.517	10MR 0,7W 5% Schichtwiderstand	10MR 0,7W 5% Film resistor
RP22	239.203	22KR 3W 5% Metalloxyd-widerstand	22KR 3W 5% Metal oxide resistor
RP23	243.903	0R22 0,5W 5% Sicherheitswiderstand	0R22 0,5W 5% Fusible resistor
RP25	309.560.952	25R PTC-Widerstand	25R PTC resistor
RP30	243.907	1K5R 3W 5% Metalloxyd-widerstand	1K5R 3W 5% Metal oxide resistor
RR63	256.418	BZX55C5V1 ZENER Diode	BZX55C5V1 ZENER Diode
RS09	200.502.00	1R8 0,35W 5% Sicherheitswiderstand	1R8 0,35W 5% Fusible resistor
RS09	309.580.967	1R8 0,3W 5% Sicherheitswiderstand	1R8 0,3W 5% Fusible resistor
RV01	309.534.654	22R 0,3W 5% Sicherheitswiderstand	22R 0,3W 5% Fusible resistor
RV37	276.042	15R 0,35W 5% Sicherheitswiderstand	15R 0,35W 5% Fusible resistor
RV37	276.873	10R 0,3W 5% Sicherheitswiderstand	10R 0,3W 5% Fusible resistor
RV37	335.550.6100	8R2 0,3W 5% Sicherheitswiderstand	8R2 0,3W 5% Fusible resistor
SE01-04	105.106.00	Taktschalter	Tact switch
SE05	201.260.10	Netzschalter, 4A 250V	Mains switch
SW01-04	309.639.035	Taktschalter	Tact switch
TC01	270TX5025	BC635 Transistor	BC635 Transistor
TC01	339.556.900	BC635 Transistor	BC635 Transistor
TC01	463.045	BC337 Transistor	BC337 Transistor
TC02	309.001.360	BC550B Transistor	BC550B Transistor
TC02	463.223	BC548C Transistor	BC548C Transistor
TE01	465.981	BC557B Transistor	BC557B Transistor
TI01	243.908	BC637 Transistor	BC637 Transistor
TI01	463.045	BC337 Transistor	BC337 Transistor
TJ01	266.430	BC558/A* Transistor selektiert	BC558/A* Transistor
TJ02	463.222	BC548B Transistor	BC548B Transistor
TJ03	309.001.226	BC558B Transistor	BC558B Transistor
TJ04	309.001.226	BC558B Transistor	BC558B Transistor
TL01	309.005.026	S2055AF Transistor	S2055AF Transistor
TL01	339.872.711	Montageclip	Clip
TL02	463.045	BC337 Transistor	BC337 Transistor
TL02	463.159	BC639 Transistor selektiert	BC639 Transistor
TL03	309.001.293	BC548B Transistor	BC548B Transistor
TL04	243.908	BC637 Transistor	BC637 Transistor
TL06	309.001.293	BC548B Transistor	BC548B Transistor
TL07	309.001.293	BC548B Transistor	BC548B Transistor
TP01	243.913	BUT12A Transistor	BUT12A Transistor
TP01	339.872.711	Montageclip	Clip
TP02	463.223	BC548C Transistor	BC548C Transistor
TR13	261.791	BC548A Transistor	BC548A Transistor
TR14	261.791	BC548A Transistor	BC548A Transistor
TR15	309.001.293	BC548B Transistor	BC548B Transistor
TR16	309.001.293	BC548B Transistor	BC548B Transistor
TR40	309.001.293	BC548B Transistor	BC548B Transistor
TR41	309.001.293	BC548B Transistor	BC548B Transistor
TR42	309.001.293	BC548B Transistor	BC548B Transistor
TR43	309.001.293	BC548B Transistor	BC548B Transistor
TR44	309.001.293	BC548B Transistor	BC548B Transistor
TR76	309.001.226	BC558B Transistor	BC558B Transistor
TR77	309.001.293	BC548B Transistor	BC548B Transistor
TR82	352.113.3000	BC636 Transistor	BC636 Transistor
TS02	463.223	BC548C Transistor	BC548C Transistor
TS03	309.001.293	BC548B Transistor	BC548B Transistor
TV01	309.001.293	BC548B Transistor	BC548B Transistor
TV02	309.001.226	BC558B Transistor	BC558B Transistor
TV03	309.001.226	BC558B Transistor	BC558B Transistor
TV04	309.001.226	BC558B Transistor	BC558B Transistor
TV05	309.001.292	BC558C Transistor	BC558C Transistor
TV06	463.223	BC548C Transistor	BC548C Transistor
TV07	463.223	BC548C Transistor	BC548C Transistor
TV09	463.330	BC558A Transistor	BC558A Transistor
TV12	309.001.226	BC558B Transistor	BC558B Transistor
VC01	309.699.270	SDL145S / DL711 Verzögerungsleitung	Delay line
VV01	201.462.70	CD0091-2(Y DELAY LINE) LC-Filter	CD0091-2 LC Filter
VV01	243.909	Verzögerungsleitung	Delay line
-	804.087.89	Halter, Scart	Scart holder

Ersatzteilliste · Spare parts list · Liste de pièces de rechange · Lista parti di ricambio · Lista de piezas de recambio

Wichtig: Bei Ersatzteilbestellung bitte unbedingt die entsprechende Bestellnummer angeben!
N.B.: When demanding Spare Parts it is absolutely necessary to quote the corresponding part number!
Important: Lors d'une commande de pièces de rechange, prière d'indiquer en tout cas le numéro de la pièce!
Importante: Ordinare sempre con il numero corrispondenti di codice!
Importante: Pedir siempre los recambios con el numero correspondiente de código!

Pos.	Art.-Nr Part No. No. articolo	Bezeichnung	Part	Pos.	Art.-Nr Part No. No. articolo	Bezeichnung	Part
		BILDROHRPLATTE 10" / 14" / 15"	CRT BOARD 10" / 14" / 15"				
TT51	463.240	BF423 Transistor	BF423 Transistor	CT90	490.008.0431	KONDENSATOR 1NF/2KV	C cap, 1nF, 2kV, 20%
TT52	465.913	BF422 Transistor	BF422 Transistor	PT50	338.701.1000	POTI 47K	Potentiometer, 47kΩ
TT61	463.240	BF423 Transistor	BF423 Transistor	PT70	338.701.1000	POTI 47K	Potentiometer, 47kΩ
TT62	465.913	BF422 Transistor	BF422 Transistor	RT51	246.869	Sicherheitswiderstand, 1kΩ, 0,3W, 10%	Fusible resistor, 1kΩ, 0,3W
TT71	463.240	BF423 Transistor	BF423 Transistor	RT61	490.007.9583	WIDERSTAND 1K/0,3W	Fusible resistor, 1kΩ, 0,3W
TT72	465.913	BF422 Transistor	BF422 Transistor	RT71	490.007.9583	WIDERSTAND 1K/0,3W	Fusible resistor, 1kΩ, 0,3W
TT81	465.981	BC557B Transistor	BC557B Transistor		353.902.1000	BILDROHRENFASSUNG	Cathode ray tube socket
DT50	309.325.927	1N4148 Diode	1N4148 Diode			DC-DC KONVERTER	DC-DC CONVERTER
DT55	309.325.056	BA157 Diode SSW	BA157 Diode				
DT60	309.325.927	1N4148 Diode	1N4148 Diode	BD712	804.085.95	Stiftgehäuse, 3polig, natur	3 pin contact housing
DT65	309.325.056	BA157 Diode SSW	BA157 Diode				
DT70	309.325.927	1N4148 Diode	1N4148 Diode	DD701	309.325.181	1S1834 Diode	1S1834 Diode
DT75	309.325.056	BA157 Diode SSW	BA157 Diode	DD702	309.325.181	1S1834 Diode	1S1834 Diode
DT85	266.939	ZPD15V ZENER Diode	ZPD15V ZENER Diode	DD703	309.325.112	BA158 Diode	BA158 Diode
DT95	273TX0443	BZX83C20 ZENER Diode	BZX83C20 ZENER Diode	DD704	309.325.112	BA158 Diode	BA158 Diode
CT90	309.442.978	1NF 2KV 20% Keramik-Kondensator	1NF 2KV 20% C cap	DD705	309.325.112	BA158 Diode	BA158 Diode
PT50	243.874	47KR 30% Trimmwiderstand	47KR 30% Trimmer resistor	DD706	309.325.112	BA158 Diode	BA158 Diode
PT70	243.874	47KR 30% Trimmwiderstand	47KR 30% Trimmer resistor	DD707	309.325.183	1S1888 Diode	1S1888 Diode
RT52	243.875	10KR 2W 10% Metalloxyd-widerstand	10KR 2W 10% Metal oxide resistor	DD708	273TX0025	1N4001 Diode	1N4001 Diode
RT62	239.252	10KR 3W 5% Metalloxyd-widerstand	10KR 3W 5% Metal oxide resistor	DD710	273TX0025	1N4001 Diode	1N4001 Diode
RT72	239.252	10KR 3W 5% Metalloxyd-widerstand	10KR 3W 5% Metal oxide resistor	DD712	462.268	1N4006 Diode	1N4006 Diode
	201.746.20	Bildrohrfassung, TX90 10"	Cathode ray tube socket	DD713	309.325.927	1N4148 Diode	1N4148 Diode
		BILDROHRPLATTE 16" / 20"	CRT BOARD 16" / 20"	FD702	309.628.909	8A 60V Sicherung	8A 60V Fuse
TT50	490.007.8583	BF422 TRANS	Transistor, BF422	LD701	490.007.8223	SPULE 170UH	Choke coil, 170μH
TT51	463.240	Transistor, BF423	Transistor, BF423	LD7021	490.007.8224	DC-DC-KONVERTER	TF-M DC-DC CONVERTER
TT52	273.870	Halter, Kunststoff, Transistor	Plastic holder, Transistor	LD7031	309.636.943	Relais, 12V, 22mA	Relay, 12V, 22mA
TT52	490.008.1387	TRANSISTOR BF883/S	Transistor, BF883S	LD704	243.872	2U2H 25% Drossel	2U2H 25% Choke
TT60	490.007.8583	BF422 TRANS	Transistor, BF422	RD702	309.580.983	220R 0,3W 5% Sicherheitswiderstand	220R 0,3W 5% Fusible resistor
TT61	463.240	Transistor, BF423	Transistor, BF423	RD707	246.045	22R 0,7W 5% Metalloxyd-widerstand	22R 0,7W 5% Metal oxide resistor
TT62	273.870	Halter, Kunststoff, Transistor	Plastic holder, Transistor	RD709	243.873	0R68 0,3W 5% Sicherheitswiderstand	0R68 0,3W 5% Fusible resistor
TT62	490.008.1387	TRANSISTOR BF883/S	Transistor, BF883S	TD701	309.003.751	416-1 Transistor	416-1 Transistor
TT70	490.007.8583	BF422 TRANS	Transistor, BF422	TD701,702	149.078	Montageclip	Clip
TT71	463.240	Transistor, BF423	Transistor, BF423	TD702	309.003.751	416-1 Transistor	416-1 Transistor
TT72	273.870	Halter, Kunststoff, Transistor	Plastic holder, Transistor	TD703	339.556.222	BC547B Transistor	BC547B Transistor
TT72	490.008.1387	TRANSISTOR BF883/S	Transistor, BF883S				
TT81	352.110.3000	BC557B TRANS	Transistor, BC557B				
DT50	351.221.6000	DIODE 1N4148	Diode, 1N4148			Weitere gerätespezifische Ersatzteile lieferbar.	Further spare parts are available.
DT51	351.221.6000	DIODE 1N4148	Diode, 1N4148				
DT55	490.007.8520	DIODE BA157	BA157 Diode				
DT60	351.221.6000	DIODE 1N4148	Diode, 1N4148				
DT61	351.221.6000	DIODE 1N4148	Diode, 1N4148				
DT65	490.007.8520	DIODE BA157	BA157 Diode				
DT70	351.221.6000	DIODE 1N4148	Diode, 1N4148				
DT71	351.221.6000	DIODE 1N4148	Diode, 1N4148				
DT75	490.007.8520	DIODE BA157	BA157 Diode				
DT85	266.939	Diode, ZPD15V ZENER	Diode, ZPD15V ZENER				
DT95	266.939	Diode, ZPD15V ZENER	Diode, ZPD15V ZENER				

Diese Angaben und Hinweise sind ausschließlich für den Service des Fachhändlers bestimmt · Änderungen vorbehalten · Sämtliche Urheberrechte an diesen Texten und Zeichnungen stehen uns zu. Nachdrucke, Vervielfältigung – auch auszugsweise – nur mit unserer vorherigen Zustimmung zulässig. Alle Rechte vorbehalten · Questi dati e queste istruzioni sono riservati ai tecnici del servizio assistenza · Con riserva di modifiche · These instructions are for service dealers only · Subject to modification.

Änderungen vorbehalten · Subject to change · Modifications réservées · Con riserva di modifiche · Reservado derecho de modificacion

Symptom (8)

Activating the child safety.

Porada

Program timer and switch off with RC.

Symptom (9)

Activating the hotel mode.

Porada

From software 08:

1. Switch appliance into standby.
2. Switch off mains.
3. Keep standby key on the RC pressed in.
4. Switch on mains.

Symptom (10)

How to unlock hotel mode.

Porada

Procedure:

1. Switch set off using RC.
2. Switch off set from mains switch at rear.
3. Wait for 30 seconds.
4. Holding down standby on RC switch set back on.
5. The menu should now be shown, switch off hotel mode using volume key.
6. Finally press TV on handset.