

**PARTS LIST
LISTE PIECES DETACHEES
ERSATZTEILLISTE
LISTA PARTI DI RICAMBIO
LISTA DE PIEZAS DE REPUESTO**

**TELEFUNKEN
RP744E
Chassis ICC19**

MODULES

MAIN	IC19B5KA08P004	
AMVD	AM/VD19000	R 10546730
AMVD	SUBAMVD19100	10546720
CRT	CRTRP19 B	R 10529410
CRT	CRTRP19 G	R 10546590
CRT	CRTRP19 R	R 10284380
DCU	DCURP19	R 10468670
DVT	DVT19510	R 10611170
EMB	EMB19500	R 10600840
FCB	FCBRP19	R 10525880
KB	KBRP19	R 10526190
PS	PSRP19	R 10527240
RGB	SUB RGB-PIRP19	10644830
RIR	IRRP19	R 10526120
SCI	SCI19004	R 10581460
VM	VM19100	R 10353940



IA001	TDA7269	10348790
IA002	TDA7298	10348810
IA010,IB012,IG011,IL062	TL082CD FLAT	10364130
IF001	TDA8177F	10352880
II050	TDA9811/V3	10336130
IK001	STV2040	10379540
IK002,003,IP002	TL084/CP	46021200
IK004,IP130	MC7812/CT	46007600
IK005	MC7805/CT	46025200
IK006	L7912CV	15054150
IK007	M24C32BN1	10462210
IK008,015	X24164	10068250
IP050,IX001	MC7809/CT	70401402
IP060	TEA2261	90542470
IP140	TDA8139	10044580
IP250	K324PG(CNY75GA)	△ 10536210
IR001 ^a	ST90R92	10441970
IR001 ^b	TFMK1330T	10132410

IR003	M24C64-BN1	10533930
IR004	MC14094BD/HEF4094BT/BU4094BF FLAT	20016020
IR020	C19 M27C160-120F1 V6.01-1	10652940
IR030	GM76G256AL-FW70 FLAT	10271860
IR040	74F02 FLAT	10529250
IS001,060	MC4558CD IC SMD	10276220
IS010	MC78L08ACP	10308410
IS100	MSP8410D-B4 (DIE)	10546420
IS200	DPL3519 (DIE)	10546430
IT001	SDA5275-2S	10449670
IT002	HYB514400BJ-80	10359750
IV001 ^d	STV2165	10360480
IV001 ^a	STV2162 CUT.2.2	10529490
IV304	LM358D FLAT	10258670
IV308	DMUO-UP	10325580
IV309	TMS4C2972DT	10458130
IV601	TDA9143S1	10516090
IV602	TDA4665T FLAT	10155740
IX900	TEA6415C	15081290
ZL041	MP160	△ 10457130
ZV301	MP40	△ 10469170



TA001 ^a ,TI030,	BC856B SMD	16006310
TP150,166,190,TT002,008,009,010,TV001 ^d ,003 ^d ,051,063,071,073,083,300,600,801,803,821,841,TV004		
TA001 ^c ,002 ^c ,	BDW93CFI	10599300
052,054,TB001,002,052,054,TG001,002,052,052,054		
TA002 ^a ,006,050,	BC846B SMD	16006260
TB006,050,TG006,050,TI031,032,070,TL001,062,063,TP026,027,152,161,162,167,170,175,TR002,		

102,105,TT001,003,006,007,011,012,TV002,301,302,321,322,601,802,822,823,842,843,TX955,960,965,TY001,002 ^d ,003,005		
TA003,004,053,055,TB003,004,053,055,TG003,004,053	BDW94CFI	10599200
TA005,051,051,TB005,051,TG005,051,TK106,206,306,TV002	BF420	16003080
TI010,033,034,040,045,050,TP145,TR091,095,106,TT004	BCR141 SMD	16006890
TI020	BF799 SMD	35031670
TK001 ^c ,003,005,009,027,101,132,201,232,301,332,TS001,002,TV006,007,008,011,019,020,TX620,622,650,652	BC857B SMD	30946660
TK001 ^e	BC548B	16000930
TK002,004,020,022,023,024,028,130,230,330,TM104,109,110,204,209,210,304,309,310,TP001,TS003,004,TV001 ^c ,003 ^c ,004,005,014,TX621,651,830,831,832,833	BC847B SMD	11070770
TK102,104,202,204,302,304	BF883S	10162190
TK103,105,203,205,303,305	BF872	10162200

xxxx^a : MAIN

xxxx^b : RIR

xxxx^c : DCU


xxxx^d : VM

xxxx^e : KB

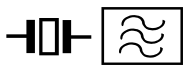



R : RECYCLED PART
: PIECE RECYCLEE
: AUSTAUSCHTEILE
: RICAMBIO RICICLATO
: MODULO REPROCESADO


For any requests, please contact THOMSON multimedia after sales service area
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TK107,207,307, TM101,108,201, 208,301,308, TP270	BC557B	16001060
TL004	MPSW01A	70436520
TL005	MPS750	16001340
TL028,TV002 ^a	TIP122FP	25358380
TL030	ON4977/BU2525AX	10461310
TM006	2SA1837	16001500
TM007	2SC4793	16001600
TM102,202,302	BC337-40	45001466
TM105,205,305, TP238	BC547B	16000890
TP025	600V 1A25	10353960
TP060	BUL810TH	10224370
TP146	BD241C	16001880
TP220	2SK1460	15046790
TP222	BC327	16000430
TP223,224,271	BC547C	16000900
TR048	BCR185 SMD	16006900
TV010	2SC3675	16004070
TV108	BC327-40	16000450
TV303	BF660 SMD	16005830
TV304,308	BC858B SMD	16006330
TV305,307	BF550 SMD	16005780
TV306	BF799 SMD	16005860
TX505	BC848B SMD	35030590
TX910,920,950	BC546B	45001866
		
DA001 ^c ,002 ^c , 003,010,011,050, 051,052,059, 060,DB001,002, 003,010,011, 050,051,052, 059,060,DF001, DG001,002,003, 010,011,050, 051,052,060, DK001 ^e ,002,003, 004,007 ^e ,013, DL092,DP027, 061,218,219, 223,224,226, 227,231,232, 237,238,239, 268,DR091, DS001,002,003, DV002,003,004, 007,008,009, 010,011 ^c ,014, 015,020,027 ^c , 028,029	1N4148	44009209
DA001 ^a ,DF002, 028,DK005 ^c , 006 ^c ,007 ^c ,008, 102,106,107,201, 202,206,207, 302,306,307, DL070,072, DM101,102,105, 106,107,201, 202,205,206, 207,301,302, 305,306,307, DP051,060,151, 152,160,175, 178,179,190, DR030,031,090, DT001,002,003, 004,005,006, 007 ^a ,008 ^a ,009, 010,DV025,026, 027,028,038, 039,RV052	LL4148 SMD	16012450
DA002 ^a , DV011 ^a ,012	LL42 SMD	16012530

DA005,006,053, 058,DB005,006, 053,058,DF031, 033,DG005,006, 053,DK001 ^c ,002 ^c , 010,011,012, DL001,051,052, DM110,111,210, 211,310,311, DP050,DV005, 006,031,032, 033	RGP10G	10459090
DA008,009,056, 057,DB008,009, 056,057,DG008, 009,056,DV017	BZX55C6V2	20475410
DF007	ZMM15 SMD	16030060
DF011	BZW04-48	10351880
DH001	ZMM33	10376460
DI001,002,040, 041,051,070, 071	BA782S	20542050
DK005 ^e	BZX55C5V6/ZPD5V6	44025401
DK006 ^e ,PE231	MV6461 LED	20125850
DK009	MA2062-A 6V	20707320
DK103,104,113, 203,204,213, 303,304,313	EGP10G	10542140
DK105,205,305	1N4007GP	10455230
DK108,208,308	BZT03/D150	70402351
DL030	DTV32F-1500	10452490
DL032	BYR29F-600	10569340
DL034,036	EGP10D	20953640
DL041,DP140	BYW29-150	16009140
DL043	RGP10M	10455320
DL046	RGP15-20	10340890
DL050	BZX85C22	11072690
DL057,DS061, 062,DV104,108, DX120,151,220, 251,301,351	BAV103 SMD	10155030
DL060	ZMM3,3	16030170
DL066	BZX55B47	11073450
DL071	BZX55C20	30948810
DP022,113	FUF4005/MUR160	16009580
DP039,040	RGP02-20	10472330
DP041	BAT42	16007410
DP052,133,134	1N4001	16008160
DP053,261,263	RGP15G	10272800
DP108,109	RGP30D	10455370
DP110A,110B	RGP50M	10298160
DP112	MUR1100E	10360280
DP130	MUR420	16009630
DP201	GBU4M	10474680
DP213	BZX55C33	11073690
DP225	ZPD4,7/BZX55C4V7	20475400
DP233,234,236, 240,243	BA159	16008120
DP235	BZX55C18	11073680
DP265,267	S410D	10527250
DR104	BZX55B9V1	70438220
DV001	ZMM2,7 SMD	16030100
DV018,019	BYD43-20	10301970
DV101	ZMM6,8 SMD	70439940
DV301,305,309	BB729S SMD	20542090
DV303,304,	BA582 SMD	16012130
LV320		
DV623	BZX84C5V1 SMD	16030330
DX810	BZX55B8V2	40441820
DX814	BZX55B5V1/ZPD5V1 2%	44035702

		
FI010	OFWK3954M FOS	10357610
FI015	OFWG3970M FOS	10512420
FI020	OFWK9453M FOS	10176450
QI053	6M0HZ	48042300
QI070	6M5HZ	20356510
QR001	27M0HZ	10254120
QS040	18M432HZ	10334670
QT001	20M48HZ	10495020
QV601	4M433619HZ	10397980
QV602	3M579545HZ	10087720
		
FI001	40M4HZ	20300950
FI002	38M9HZ	10319260
FI030	77M8HZ	10348570
FI040	6M6HZ	10437980
FK130,230,330	100NS	10203890
LV312,315	7M96HZ	10519360
LV318	7M96HZ	10519350
LV331	7M96HZ	10519340
		
PI030,035	2K2 OHM	10308240
PI050	22K0 OHM	10272680
PP267	100R0 OHM	10260330
PS001	1M0 OHM	42045200
PV003,004	1K OHM	42032100
PV101,201,301	2M2 OHM	10174000
		
JP310	1K0 OHM 1% 0,25W	15012570
RA001,RB001, RG001,RK057, RP003,004,007, 008,011,022 ^c	10K0 OHM 1% 0,40W	15010340
RA003,051, RB003,051, RG003,051	332R0 OHM 1% 0,40W	41289309
RA005,053, RB005,053, RG005,053	162R0 OHM 1% 0,40W	15011850
RA007,060, RB007,060, RG007,060	8K87 OHM 1% 0,40W	15021900
RA009,057, RB009,057, RG009,057	1R8 OHM 1% 1W	13085450
RA012,014 ^c , 058,059,RB012, 014,058,059, RG012,014,058,059	0R47 OHM 10% 0,40W	△ 15022650
RA013 ^c ,055, RB013,055, RG013,055	267K0 OHM 1% 0,40W	15014920
RA013 ^a ,014 ^a , 030	4R7 OHM 5% 0,35W	△ 10226310
RA020,064, RB020,064, RG020,064	2K43 OHM 1% 0,40W	15015580
RA061,RB061, RG061	8K25 OHM 1% 0,40W	15021840
RF011	1R5 OHM 5% 0,50W	△ 15022560

RF012	1R0 OHM 1% 0,70W	10254220
RF013	1R21 OHM 1% 0,70W	13010820
RF015	15R0 OHM 265V PTC	△ 10237730
RF020	270R0 OHM 1% 0,70W	10302230
RK061,065,067,069	1K0 OHM 1% 0,40W	15012580
RK080	15K0 OHM 1% 0,40W	15011710
RK085	4K75 OHM 1% 0,40W	15018710
RK101,201,301, RM117,217,317, RP050, RV601	10R0 OHM 5% 0,25W	△ 15009580
RK104,204,304	47R0 OHM 5% 0,70W	△ 10181910
RK107,207,307	392R0 OHM 1% 0,40W	15017110
RK112,212,312	2K2 OHM 5% 0,50W	△ 10239310
RK114,116,118, 120,214,216, 218,220,314, 316,318,320	330R0 OHM 5% 0,50W	△ 10239250
RK117,217,317, RL037	330R0 OHM 10% 0,50W	14050190
RK119,219,319	1K0 OHM 5% 0,50W	△ 10239280
RK123,124,223, 224,323,324	1K5 OHM 5% 0,50W	10121880
RK129,229,329	6K81 OHM 1% 0,40W	15020590
RK228	47K5 OHM 1% 0,40W	13066180
RL013	4R7 OHM 5% 0,50W	△ 15010040
RL015	1R0 OHM 5% 0,25W	△ 15009730
RL029	2R2 OHM 5% 0,50W	△ 10440420
RL040	0R27 OHM 5% 2,50W	10263600
RL043	2R2 OHM 5% 0,70W	△ 13000480
RL052	54K9 OHM 1% 0,70W	10224320
RL081	68K1 OHM 1% 0,12W	10433880
RL082	59K0 OHM 1% 0,12W	10516830
RM101,201,301	220R0 OHM 5% 0,25W	△ 15009810
RP001,023	182K0 OHM 1% 0,40W	15012250
RP009,010	3K32 1% 0,40W	41226709
RP012	39K2 OHM 1% 0,40W	15017130
RP015	8K66 OHM 1% 0,40W	15021880
RP016	8K06 OHM 1% 0,40W	15021810
RP017	7K5 OHM 1% 0,40W	15021220
RP018	5K36 OHM 1% 0,40W	15019620
RP020	0R12 OHM 5% 2,50W	△ 10334390
RP021	10K2 OHM 1% 0,40W	15010370
RP022	100R0 OHM 5% 4,50W	10379830
RP027	15K4 OHM 1% 0,40W	15011730
RP030	100K OHM 1% 0,40W	15010170
RP031	13K0 OHM 1% 0,40W	15011210
RP032,035	22K1 OHM 1% 0,40W	41303301
RP056,057	1K3 OHM 1% 0,40W	15012810
RP066	3K65 OHM 1% 0,40W	13066710
RP100	10M0 OHM 5% 0,70W	△ 10074320
RP112	1K2 OHM 5% 2W	10134060
RP207	2R7 OHM 5% 4,50W	10379110
RP220, RV001	4R7 OHM 5% 2,5W	10471330
RP244	7K15 OHM 1% 0,25W	15021170
RS042	4R7 OHM 5% 0,25W	△ 35032200
RV041	8R2 OHM 5% 0,25W	△ 15010150
RV069	150K0 OHM 1% 0,40W	41243301
RX503	15R0 OHM 5% 0,25W	△ 15009630
		
CK103,105,107, 203,205,207, 303,305,307	10NOF 10% 400V	15001080
CK117,217,317, CV049	1NOF 2KOV	14034870
CK123,223,323	470POF 10% 3KOV	14006050
CK129,229,329	100NOF 20% 400V	13071240

CL030	1N9F 5% 2KOV	△ 10559090
CL031	10NOF 3.5% 1K5V	43180300
CL032	20NOF 5% 400V	43388900
CL037	510NOF 5% 250V	10381880
CL038,039	27NOF 5% 250V	50895120
CL041,043	330POF 20% 1KOV	14035270
CL052	10NOF 5% 400V	14035870
CL146	150POF 20% 1KOV	30937590
CM148,248,348	470POF 10% 400V	14002340
CP020	150UOF 385V	43424800
CP022,135,137, 138	470POF 10% 2KOV	10099390
CP023	2N2F 10% 1KOV	13090980
CP050,053	330POF 20% 400V	14002220
CP100	1N5F 20% 400V	△ 10344860
CP101	150POF 20% 400V	△ 20738090
CP112	3N3F 5% 630V	10490550
CP201,202	100NOF 20% 275V	△ 10331520
CP204	1N5F 10% 1KOV	20338740
CP205,206	4N7F 1KOV	10058740
CP209	220UOF 20% 400V	10510680
CP210	22UOF 20% 400V	10114340
CP221	3N3F 20% 1KOV	43324300
CV045,047	4N7F 50% 2KOV	14034420
CV048	820POF 5% 2KOV	10513370
		
LL001	DRIVER	10468760
LL008	DSTGDS35	△ 10521310
LL037	9U0H	△ 10545340
LP020	SMT57LZ	△ 10549750
LP070	DRIVER	△ 60412091
LP201		△ 10203560
LP250	SMT17	△ 10534490
LV002		10458460
OTHER PARTS AUTRES PIECES SONSTIGE TEILE ALTRE PARTI OTRAS PIEZAS		
BK101,201,301	CATHODE RAY TUBE SOCKET SUPPORT TUBE CATHODIQUE BILDROEHRENFASSUNG SUPPORTO TUBO CATODICO SOPORTE T.R.C	△ 10543870
BM010	CINCH SOCKET ASSY PLAQUETTE PRISES CINCH CHINCH BUCHSEN-EINHEIT ASSIEME PRESA CINCH PLAQUETA TOMA CINCH	10487650
BM011	SVHS SOCKET PRISE SVHS S-VHS-BUCHSE PRESA SVHS TOMA SVHS	20392900
BM012	HEADPHONE SOCKET PRISE CASQUE KOPFHOERERBUCHSE PRESA JACK TOMA JACK	20483040

BS004	CINCH SOCKET PRISE CINCH CHINCH-BUCHSE PRESA CINCH TOMA CINCH	10261740
BX100,200,300	SCART SOCKET PRISE PERITEL EURO-AV-BUCHSE EUROPRESA NORMALIZZATA EUROCONNECTOR	10402480
FK101,201,301	63M10A 250V TIME LAG FUSE 63M10A 250V FUSIBLE 63M10A 250V SICHERUNG 63M10A 250V FUSIBILE 63M10A 250V FUSIBILE	△ 25336830
FM102,202,302	63M10A 250V TIME-LAG FUSE 63M10A 250V FUSIBLE 63M10A 250V SICHERUNG 63M10A 250V FUSIBILE 63M10A 250V FUSIBILE	△ 10566870
FP201	2A5T TIME-LAG FUSE 2A5T FUSIBLE TEMPORISE 2A5T THERMISCHE SICHERUNG 2A5T FUSIBILE TEMPORIZZATO 2A5T FUSIBILE TEMPORIZADO	△ 10246750
IK007,008,015	IC SUPPORT 2X4 SUPPORT CI 2X4 IC-FASSUNG 2X4 SUPPORTO CI 2X4 SOPORTE CI 2X4	67449100
IR001	IC SUPPORT 4X17 SUPPORT CI 4X17 IC-FASSUNG 4X17 SUPPORTO CI 4X17 SOPORTE CI 4X17	67626900
IR020	IC SUPPORT 2X21 SUPPORT CI 2X21 IC-FASSUNG 2X21 SUPPORTO CI 2X21 SOPORTE CI 2X21	67085500
NH001	CTT5000T UHF/VHF TUNER CTT5000T TETE UHF/VHF CTT5000T UHF/VHF TUNER CTT5000T TUNER UHF/VHF CTT5000T SINTONIZZADOR UHF/VHF	20808880
PE130	FOCUS BLOCK 75M0 OHM BLOC FOCUS 75M0 OHM FOCUS BLOCK 75M0 OHM BLOCCO FOCUS 75M0 OHM BLOQUE FOCUS 75M0 OHM	△ 15249840
PH200	ON/OFF SWITCH CONTACTEUR MARCHE/ARRET EIN-AUS SCHALTER CONTATTATORE ACCESSO/SPENTO CONTACTOR MARCHA/PARADA	△ 10276500
PT070	ELECTRONIC/OPTICAL BLOCK BLOC ELECTRONIQUE/OPTIQUE ELECTRONISCH/OPTIK BLOCCO ELETTRONICO/OTTICO BLOQUE ELECTRONICO/OPTICO	25339420
PT580	SPARK GAP ECLATEUR FUNKENSTRECKE SPINTEROMETRO EXPLOSOR	△ 15154190
SW001,002, 003,004,005, 006,007	MICROSWITCH MICRO CONTACTEUR MIKROSCHALTER MICROINTERRUTTORE MICROCONTACTOR	10731200

**EQUIPMENT/PRESENTATION
EQUIPEMENT/PRESENTATION
AUSSTATTUNG/GEHAEUSE
PARTI VARIE
EQUIPO/PRESENTACION**

PROTECTIVE CAP, PLASTIC PROTECTEUR PLASTIQUE ABDECKUNG, KUNSTSTOFF PROTEZIONE IN PLASTICA PROTECCION, PLASTICO	35071000
UPPER BOX EMBALLAGE SUPPERIEURE KARTON OBEN IMBALLAGGIO SUPERIORE EMBALAJE SUPERIOR	35070930
FOLDING BOX RP46, CPL EMBALLAGE CARTON RP46 COMPLET KARTON RP46, KPL IMBALLAGGIO CARTONE RP46 EMBALAJE CARTON RP46	35070900
ROLLER HOLDER SUPPORT ROUE SCHWINGROLLE HALTER SUPPORTO RUOTA SOPORTE RUEDA	35070050
ROLLER ROUE SCHWINGROLLE ROTELLA RUEDA	35070040
FITTING UPPER DESSUS DE CARTON POLSTER OBEN DISTRANZIATORE SUPERIORE CALZO SUPERIOR	10521350
FITTING DOWNER FOND DE CARTON POLSTER UNTEN DISTRANZIATORE INFERIORE CALZO INFERIOR	10521340
FITTING RIGHT/LEFT COTE DE CARTON POLSTER RECHTS/LINKS DISTRANZIATORE DESTRO/SINISTRO CALZO DERECHA/IZQUIERDA	10521360
ADAPTER ANTENNA ADAPTATEUR D'ANTENNE ADAPTER ANTENNE ADATTATORE ANTENNA ADAPTADOR ANTENA	10460690
CABINET ASSY COFFRET EQUIPE GEHAEUSE KPL MOBILE COMPLETO MUEBLE EQUIPADO	25402670
REAR PANEL RUECKWAND PANNELLO POSTERIORE TAPA POSTERIOR	△ 10527470
LOGO TELEFUNKEN LOGO TELEFUNKEN SCHRIFTZUG TELEFUNKEN MARCHIO TELEFUNKEN LOGOTIPO TELEFUNKEN	25354580

FRONT PANEL FACADE FRONTPLATTE PANNELLO FRONTALE PANEL FRONTAL	10570160
COVER SCART SOCKET CACHE PRISE PERITEL ABDECKUNG EURO-AV-BUCHSE COPERCHIO EUROPIRESA NORMALIZZATA CUBIERTA EUROCONECTOR	25298150
UNIT FOCUS SUPPORT SUPPORT BLOC FOCUS BLOCK FOCUS HALTER SUPPORTO GRUPPO FOCUS SOPPORTO BLOQUE FOCUS	△ 15143370
8R OHM 15W LOUDSPEAKER 80X160 8R OHM 15W HAUT PARLEUR 80X160 8R OHM 15W LAUTSPRECHER 80X160 8R OHM 15W ALTOPARLANTE 80X160 8R OHM 15W ALTAVOZ 80X160	10317130
8R OHM 15W LOUDSPEAKER 27X42 8R OHM 15W HAUT PARLEUR 27X42 8R OHM 15W LAUTSPRECHER 27X42 8R OHM 15W ALTOPARLANTE 27X42 8R OHM 15W ALTAVOZ 27X42	10317160
4R OHM 30W LOUDSPEAKER 130MM 4R OHM 30W HAUT PARLEUR 130MM 4R OHM 30W LAUTSPRECHER 130MM 4R OHM 30W ALTOPARLANTE 130MM 4R OHM 30W ALTAVOZ 130MM	10517870
ON/OFF BUTTON TOUCHE MARCHE/ARRET EIN-AUS TASTE TASTO ACCESO/SPENTO TECLA MARCHA/PARADA	25380730
POWER SUPPLY LEAD CORDON D'ALIMENTATION NETZKABEL CAVO DI ALIMENTAZIONE CABLE DE ALIMENTACION	△ 10318870
SCREEN THICKNESS 3MM ECRAN EPAISSEUR 3MM BILDSCHIRM DICKE 3MM SCHERMO SPESSORE 3MM PANTALLA ESPESOR 3MM	10574350
ADHESIVE TAP FOR 10540360 RUBAN ADHESIF 10540360 KLEBEBAND FUR 10540360 NASTRO ADESIVO POR 10540360 CINTA ADHESIVO POR 10510360	15236120
MIRROR MIROIR SPIEGEL SPECCHIO ESPEJO	10520730
CATHODE RAY TUBE GREEN TUBE CATHODIQUE VERT FARBILDROEHRE GRUEN TUBO CATODICO VERDE T.R.C VERDE	15339670
CATHODE RAY TUBE BLUE TUBE CATHODIQUE BLEU FARBILDROEHRE BLAU TUBO CATODICO AZZURO T.R.C AZUL	15339690
CATHODE RAY TUBE RED TUBE CATHODIQUE ROUGE FARBILDROEHRE ROT TUBO CATODICO ROSSO T.R.C ROJO	15339660

DEFLECTION YOKE DEVIATEUR ABLENKENHEIT BOBINA DI DEFLESSIONE DEFLECTOR	10540340
FLEXI BOARD (COIL B SVM) CABLE PLATINE (BOBINE B SVM) KABEL PLATTE (SPULE B SVM) CAVO PIASTRA (BOBINA B SVM) CABLE PLATINA (BOBINA B SVM)	10540360
RC4130 REMOTE CONTROL RC4130 TELECOMMANDE RC4130 FERNBEDIENUNG RC4130 TELECOMANDO RC4130 TELEMANDO	21012550
	
RP744E PARTS LIST RP744E LISTE DE PIECES DETACHEES RP744E ERSATZTEILLISTE RP744E LISTA PARTI DI RICAMBIO RP744E LISTA DE PIEZAS DE REPUESTO	35088420
CDROM ICC19 VERSION 2 CDROM ICC19 VERSION 2 CDROM ICC19 VERSION 2 CDROM ICC19 VERSION 2	35075700
RP19 SERVICE MANUAL EUROPE RP19 DOC TECHNIQUE EUROPE RP19 TECHNISCHE DOKUMENTATION EUROPE RP19 DOCUMENTAZIONE TECNICA EUROPE RP19 DOCUMENTACION TECNICA EUROPE	35064590
RP C19 UM D/F/I/E/GB/NL/S/DK/PL/ CZ/H/SK/RU/GR/P	25392410
RP C19 NU D/F/I/E/GB/NL/S/DK/PL/CZ/H/SK CZ/H/SK/RU/GR/P	
RP C19 BA D/F/I/E/GB/NL/S/DK/PL/CZ/H/SK CZ/H/SK/RU/GR/P	
RP C19 IU D/F/I/E/GB/NL/S/DK/PL/CZ/H/SK CZ/H/SK/RU/GR/P	
RP C19 IU D/F/I/E/GB/NL/S/DK/PL/CZ/H/SK CZ/H/SK/RU/GR/P	
RP744E UM TF D/F/I/E/GB/NL/S/DK/ PL/CZ/H/P/GR/SK/RU	25392060
RP744E NU TF D/F/I/E/GB/NL/S/DK/ PL/CZ/H/P/GR/SK/RU	
RP744E BA TF D/F/I/E/GB/NL/S/DK/ PL/CZ/H/P/GR/SK/RU	
RP744E IU TF D/F/I/E/GB/NL/S/DK/ PL/CZ/H/P/GR/SK/RU	
RP744E IU TF D/F/I/E/GB/NL/S/DK/ PL/CZ/H/P/GR/SK/RU	

RP744E

4/4

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THOMSON MULTI MEDIA

Brandt FERGUSON NORDMENDE SABA TELEFUNKEN THOMSON

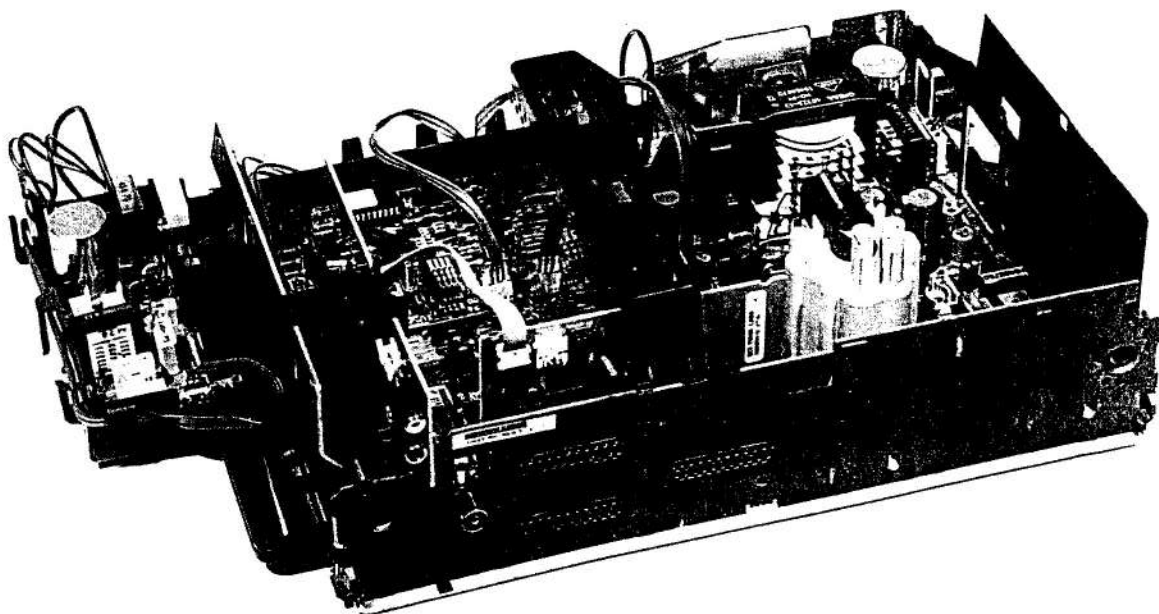
TV



SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA

ICC19 100 Hz

ICC19 B5B40240 00
B5BB0240 00
B5D80240 00
B5D80740 00
B5E80640 00
B5E80740 00
B5F80240 00



WARNING : Before servicing this chassis read the safety recommendations.
ATTENTION : Avant toute intervention sur ce châssis, lire les recommandations de sécurité.
ACHTUNG : Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.
ATTENZIONE : Prima di intervenire sullo chassis, leggere le norme di sicurezza.
IMPORTANTE : Antes de cualquier intervención, leer las recomendaciones de seguridad.

⚠ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be guaranteed.

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) nicht durch Original - Ersatzteile ersetzt werden, erlischt die Haftung des Herstellers.

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 è "esclusa la responsabilità" del costruttore.

La sustitución de elementos de seguridad (marcados con el símbolo ⚠) por componentes no homologados según la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

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

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

Via the scart socket, input level: 1 Vpp, 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 Pertelevision, 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, Farbbalken:
- PAL, Norm G, Weiss 100%.

Über die Scartbuchse: Eingangsspegel 1 Vss, Farbbalken:

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

Gleichspannungen mit einem digitalen Voltmeter zur Masse gemessen.

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

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

Colore, Contrasto, Luce a metà corsa, Suono minimo.
Programma designato PR 01.

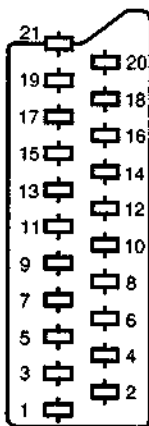
Tensioni continue rilevate rispetto alla massa con un voltmetro numerico.

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

Por la toma Pertelevision, nivel de entrada 1 Vpp mira de barra.

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

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



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

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

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

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

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

Symbol	ENGLISH	FRANÇAIS	DEUTSCH	ITALIANO	ESPAÑOL
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 "S"	AUDIO "I"
4 —	AUDIO	AUDIO	AUDIO	AUDIO	AUDIO
5 —	"BLUE"	"BLEU"	"BLAU"	"BLU"	"AZUL"
6 →	AUDIO "L" MONO	AUDIO "G" MONO	AUDIO "L" MONO	AUDIO "S" MONO	AUDIO "I" MONO
7 →	"BLUE"	"BLEU"	"BLAU"	BLU	AZUL
8 →	SLOW SWITCH	COMMUT. LENTE	AV UMSCHALTUNG	"COMMUTAZIONE LENTA"	"CONMUTACION LENTA"
9 —	"GREEN"	"VERT"	"GRÜN"	"VERDE"	"VERDE"
10 NC					
11 →	"GREEN"	"VERT"	"GRÜN"	"VERDE"	"VERDE"
12 NC					
13 —	"RED"	"ROUGE"	"ROT"	"ROSSO"	"ROJA"
14 NC					
15 →	"RED"	"ROUGE"	"ROT"	"ROSSO"	"ROJA"
16 →	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	"COMMUTAZIONE RAPIDA"	"CONMUTACION RAPIDA"
17 —	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
18 —	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	"COMMUTAZIONE RAPIDA"	"CONMUTACION RAPIDA"
19 →	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
20 →	VIDEO OR "SYNC"	VIDEO SYNCHRO	VIDEO ODER SYNCHRO	VIDEO O SINCRIO	VIDEO O SINCRIO
21 →	PLUG SCREEN BOX	BLINDAGE PRISE	ABSCHIRMUNG DES STECKERS	ARMATURA DELLA SPINA	BLINDAJE DEL ENCHUFE

→ : OUTPUT - SORTIE - AUSGANG - USCITA - SALIDA

⊕ : INPUT - ENTRÉE - EINGANG - ENTRATA - ENTRADA

— : EARTH - MASSE - MASSE - MASSA - MASA

INFORMATION - INFORMATIONS - INFORMATIONEN - INFORMAZIONE - INFORMACIONES

CHASSIS DESIGNATION - DESIGNATION DES CHASSIS - BEZEICHNUNG DES CHASSIS - DESCRIZIONE DEI TELAI - DESIGNACIÓN DE LOS CHASIS

(GB)

The references mentioned on the cover give the list of chassis covered in the present document.

The designation of a specific chassis equipping the receptor is marked on the identification plate placed at the back of the apparatus.

(F)

Les références indiquées en couverture donnent la liste des chassis traités dans le présent document.

La désignation d'un chassis spécifique équipant le récepteur est inscrite sur la plaque signalétique située à l'arrière de l'appareil.

(D)

Die auf dem Deckblatt angegebenen Nummern sind die in dieser Unterlage enthaltenen Chassis

(I)

I riferimenti indicati in copertina danno la lista dei telai trattati nel presente documento. La descrizione di un telaio specifico installato sul ricevitore figura sulla targa delle caratteristiche situata sulla parte posteriore dell'apparecchio.

(E)

Las referencias indicadas en la cubierta dan la lista de los chassis tratados en el presente documento. La designación de un chassis específico que equipa el receptor se inscribe en la placa del fabricante, situada en la parte trasera del aparato.

ICC19	B5BB0240 00
	B5B5F80240 00 ←
	B5E80740 00

*list of the chassis in the documentation
liste des chassis de la documentation
Aufstellung über die in dieser Unterlage enthaltenen Chassis
lista dei telai della documentazione
lista de los chassis de la documentación*

*specific chassis
chassis spécifique
Spezielles Chassis
telaio specifico
chasis específico*



RECEIVER COMPOSITION - COMPOSITION DES RECEPTEURS - BESTÜCKUNG DER EMPFÄNGER - COMPOSIZIONE DEI RICEVITORI - COMPOSICIÓN DE LOS RECEPTORES

Chassis identification table:

- 1- Main chassis designation code
- 2- Chassis configuration (modules) and the page number's where they are described.
- 3- The chassis - environment pair that are contained in the receptors described in the present documentation.

Le tableau ci-dessous regroupe :

- 1- La désignation des chassis
- 2- L'environnement électronique de chaque chassis (modules) et le numéro de page où il est décrit.
- 3- L'association chassis - environnement composant les récepteurs décrits dans la présente documentation.

Die nachfolgende Tabelle beinhaltet:

- 1 - Die Chassisbezeichnung
- 2 - Die elektrischen Baugruppen (Module) der Chassis und die Seitenzahl auf der sie abgebildet sind.
- 3 - Die Chassis und Module der Empfänger aus dieser Dokumentation.

La tabella qui di seguito contiene:

- 1 - La descrizione dei telai
- 2 - La configurazione di ogni telaio (moduli) e il numero di pagina nella quale è descritto
- 3 - L'abbinamento telaio-struttura che compone i ricevitori descritti nella presente documentazione

El cuadro siguiente agrupa:

- 1 - La designación de los chassis
- 2 - El entorno electrónico de cada chassis (módulos) y el número de página donde está descrito.
- 3 - La asociación chassis - entorno que compone los receptores descritos en la presente documentación

ICC19 100 Hz

DESCRIPTION CHASSIS	BLOCK DIAGRAM	ADJUST. MAIN	PCB MAIN	SCHEMA MAIN	VIDEO MODULE	CRT MODULE	AUDIO MODULE	TELETEXT MODULE	SCART MODULE	KDE - FCB KB
ICC19 B5B40240 00	5 to 6	7 to 16	17 to 23	24 to 30	31 to 35	36 to 38	39 to 41	42 to 44	45 to 47	48 to 50
ICC19 B5BB0240 00	5 to 6	7 to 16	17 to 23	24 to 30	31 to 35	36 to 38	39 to 41	42 to 44	45 to 47	48 to 50
ICC19 B5D80240 00	5 to 6	7 to 16	17 to 23	24 to 30	31 to 35	36 to 38	39 to 41	42 to 44	45 to 47	48 to 50
ICC19 B5D80740 00	5 to 6	7 to 16	17 to 23	24 to 30	31 to 35	36 to 38	51 to 54	42 to 44	45 to 47	48 to 50
ICC19 B5E80640 00	5 to 6	7 to 16	17 to 23	24 to 30	31 to 35	36 to 38	39 to 41	42 to 44	45 to 47	48 to 50
ICC19 B5E80740 00	5 to 6	7 to 16	17 to 23	24 to 30	31 to 35	36 to 38	51 to 54	42 to 44	45 to 47	48 to 50
ICC19 B5F80240 00	5 to 6	7 to 16	17 to 23	24 to 30	31 to 35	36 to 38	39 to 41	42 to 44	45 to 47	48 to 50

I - ENTER/EXIT SERVICE MODE - ENTREE/SORTIE DU M... SERVICE - EIN-AUSTIEG SERVICE MODE - ACCESSO/USCITA ALLA/DALLA FUNZIONE - ENTRADA/SALIDA MODO SERVICIO

1 ACCESSING SERVICE MODE

TV Control Panel Access

- Turn "Off" the TV using the ON/OFF button.
- Press the PR- and VOL- buttons ,hold them down and switch "On" the TV with the ON/OFF button.
- After the normal switch on time the main service menu appears on the screen.

```

Soft-Ver. V1.00-5 000A8 : 20
Config.   A1Z-DKC
Serial-No. AGD45678

▷ QUIT
  TUBE
  SETUP
  GEOMETRY
  VIDEO
  ERROR

△ UP ▽ DOWN <ID> SELECT
  
```

Note :

In service mode :

- The child lock function is re-initialized
- The lock function (PIN Number) is ignored.
- Clear any wake-up/sleep timers
- Pin 8 of the scart plug has to be ignored.
- AV-Link WSS detection , EPG and Teletext have to be disabled.
- Automatic stand-by functions, in case of no antenna signal have to be disabled.
- Contrast, colour, brightness : factory settings.
- Sharpness : middle (nominal)
- Contrast expander to low.
- Install Mode disabled.
- Default format and zoom.

1 ACCES AU MODE SERVICE

Accès avec le clavier du téléviseur

- Arrêter le TV avec la touche M/A.
- Tout en appuyant sur les touches PR- et VOL- , mettre le TV en service à l'aide de la touche M/A.
- Maintenir enfoncées les touches PR- et VOL- . Le menu suivant apparaît.

```

Soft-Ver. V1.00-5 000A8 : 20
Config.   A1Z-DKC
Serial-No. AGD45678

▷ QUIT
  TUBE
  SETUP
  GEOMETRY
  VIDEO
  ERROR

△ UP ▽ DOWN <ID> SELECT
  
```

Note :

En mode service:

- Le verrouillage parental est effacé (réinitialisé).
- La fonction de verrouillage (Pin number) est ignorée.
- La programmation des heures «réveille/matin» est annulée.
- Possibilité de passer en mode service avec commutation lente active.
- AV-Link , la détection WSS, l'EPG et le Vidéotexte ne sont pas validés.
- La fonction de stand-by automatique en cas d'absence de signal d'antenne n'est pas validée.
- Les valeurs de réglages usine sont affectées au contraste, à la couleur et à la lumière.
- Le contour est appelé à sa valeur moyenne.
- L'expansion contraste est au niveau bas.
- Le mode d'installation et l'ambiance «Light sensor» ne sont pas validés.
- Zoom et format ignorées.

1 EINSTIEG IN DEN SERVICE MODE

Zugriff über die Tastatur des Fernsehgeräts

- Fernsehgerät über die EIN/AUS - Taste ausschalten.
- Gleichzeitig die Tasten PR- und VOL- drücken und den TV über die EIN/AUS-Taste einschalten.
- Die Tasten PR- und VOL- gedrückt halten.

```

Soft-Ver. V1.00-5 000A8 : 20
Config.   A1Z-DKC
Serial-No. AGD45678

▷ QUIT
  TUBE
  SETUP
  GEOMETRY
  VIDEO
  ERROR

△ UP ▽ DOWN <ID> SELECT
  
```

Anmerkung :

Im SERVICE MODE :

- wird die Sperrfunktion (PIN-Nummer) ignoriert und die Kindersicherung gelöscht (reinitialisiert).
- werden alle Ein- und Ausschaltzeitgeber gelöscht.
- wird die SCART - Scaltspannung ignoriert.
- werden AV-Link WSS, EPG und Teletext gesperrt
- wird die Automatische Abschaltung bei fehlendem Antennensignal gesperrt.
- werden Kontrast, Farbe und Helligkeit auf standardwerte gesetzt.
- wird die bildschärfe auf Mittelstellung (nominal) gesetzt.
- wird der Kontrast-Expander auf "gering." * gesetzt.
- wird der Installations Modus gesperrt.
- wird das Standardformat bzw. der Standard-Zoom-modus gewählt.

1 ACCESSO AL SERVICE MODO

tramite i comandi del televisore

- Spegner il TV mediante il pulsante ON/OFF.
- Premere i tasti PR- e VOL- accendendo il TV con il pulsante ON/OFF.
- Premere i pulsanti PR- e VOL- .

```

Soft-Ver. V1.00-5 000A8 : 20
Config.   A1Z-DKC
Serial-No. AGD45678

▷ QUIT
  TUBE
  SETUP
  GEOMETRY
  VIDEO
  ERROR

△ UP ▽ DOWN <ID> SELECT
  
```

Nota :

Nel service mode:

- la funzione Blocco (Numero Pin) viene ignorata e la funzione Blocco Bambini è reinizializzata.
- Cancellare la programmazione sveglia
- Il piedino 8 della scart deve essere ignorato.
- I riconoscimenti AV-Link WSS, EPG e teletexto devono essere disabilitati.
- Funzione automatica di standby, nel caso di mancanza del segnale d'antenna deve essere disabilitata.
- Contrasto, colore, luminosità : regolazioni di fabbrica.
- Nitidezza: media (nominale)
- Espansore contrasto troppo basso.
- iModo Install disabilitato.
- Formato default e zoom.

1 ACCESO AL MODO SERVICIO

Acceso panel control TV

- Apague la TV con el botón MARCHA:PARADA.
- Pulse los botones PR- y VOL- y sin soltar MARCHA:PARADA.
- Libere los botones PR- y VOL- .

```

Soft-Ver. V1.00-5 000A8
Config.   A1Z-DKC
Serial-No. AGD45678

▷ QUIT
  TUBE
  SETUP
  GEOMETRY
  VIDEO
  ERROR

△ UP ▽ DOWN <ID> SELECT
  
```

Nota :

En modo servicio:

- Se ignora la función de bloqueo y se inicializan los niños.
- Anula todos las horas programadas
- La patilla 8 del SCART es ignorada
- La detección WSS AV Link, EPG, y Teletexto
- El apagado automático en caso de ausencia de señal de antena debe desactivado.
- El contraste,color y brillo son puestos a los valores de fábrica.
- la nitidez es puesta al punto medio.
- La expansión de contrast al nivel bajo
- Modo Instalación es desactivado.
- Zoom y formato ignorados.

2 TEMPORARY EXIT FROM SERVICE MODE

- Press Exit on the Remote control.
- Everyday use menu can be accessed via Menu button.

- Field Service Menu can be re-entered via Blue button.

2 SORTIE TEMPORAIRE DU MODE SERVICE

- Utiliser la touche Exit de la télécommande.
- Le menu utilisateur peut être accessible via la touche «Menu».

- Pour entrer à nouveau dans le mode service utiliser la touche bleue.

2 VORÜBERGEHENDES VERLASSEN DES SERVICE MODE

- Auf der Fernbedienung EXIT drücken.
- Mit der Taste Menü gelangen Sie zum Menü Übersicht

- Mit der blauen Taste gelangen sie zum Service-Menü.

2 USCITA TEMPORANEA DAL SERVICE MODE

- Premere Exit sul telecomando.
- Al menu di uso quotidiano si accede attraverso il pulsante Menu.

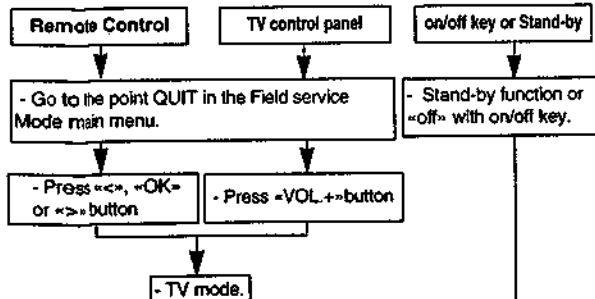
- È possibile rientrare nel Menu Field Service attraverso il pulsante Blue.

2 SALIDA TEMPORAL DEL MODO SERVICIO

- Pulse Salir en el mando a distancia
- Con el botón Menu puede acceder al menú de uso cotidiano

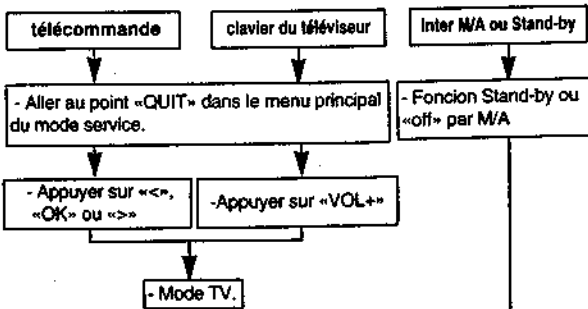
- Puede entrar al Menú Servicio con el botón azul

3 EXITING FROM SERVICE MODE



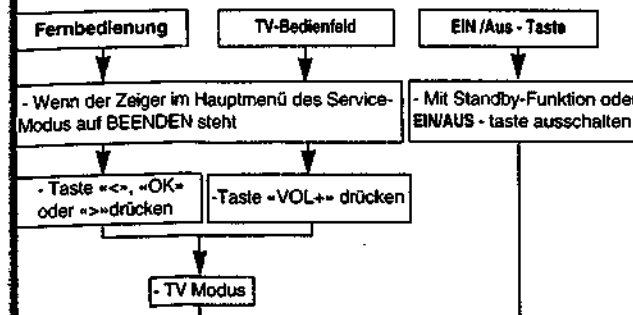
Values or adjustments are no stored before exiting from service mode will not be written into the NVM

3 SORTIE DEFINITIVE DU MODE SERVICE



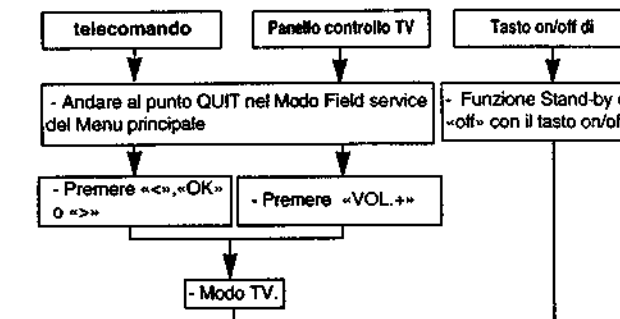
Les valeurs ou réglages non mémorisés avant la sortie ne seront pas écrites en NVM.

3 ENDGÜLTIGES VERLASSEN DES SERVICE MODE



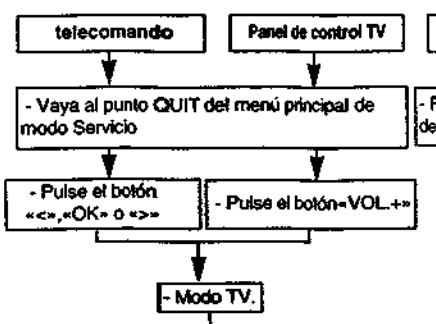
Werte und Einstellungen, die nicht vor dem Verlassen des Service-Modus gespeichert wurden, werden nicht in den Permanentenspeicher übernommen

3 USCIRE DAL SERVICE MODE



Valori e regolazioni non vengono memorizzati prima di uscire dal Modo service e non vengono scritti nell'NVM

3 SALIDA DEL MODO SERVICIO

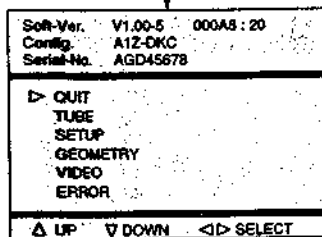


Los valores o ajustes no se guardan antes de salir del modo servicio y no se escriben en el NVM

1 ACCESO AL MODO SERVICIO

Acceso panel control TV

- Apague la TV con el botón MARCHA-PARADA.
- Pulse los botones PR - y VOL - y sin soltarlos, pulsar la tecla MARCHA-PARADA.
- Libere los botones PR - y VOL -.



Nota :

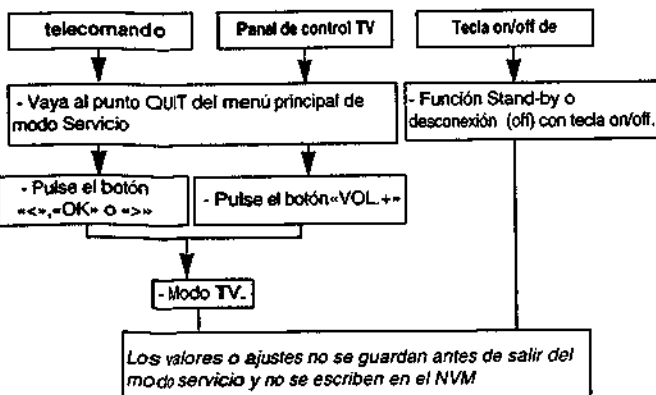
- En modo servicio:
- Se ignora la función de bloqueo y se inicializa la función "cerradura niños".
 - Anula todos las horas programadas
 - La patilla B del SCART es ignorada
 - La detección WSS AV Link, EPG, y Telexto son desactivados.
 - El apagado automático en caso de ausencia de señal de antena es desactivado.
 - El contraste,color y brillo son puestos a los valores de fábrica.
 - la nitidez es puesta al punto medio.
 - La expansión de contrast al nivel bajo
 - Modo instalación es desactivado.
 - Zoom y formato ignorados.

2 SALIDA TEMPORAL DEL MODO SERVICIO

- Pulse Salir en el mando a distancia
- Con el botón Menu puede acceder al menú de uso cotidiano.

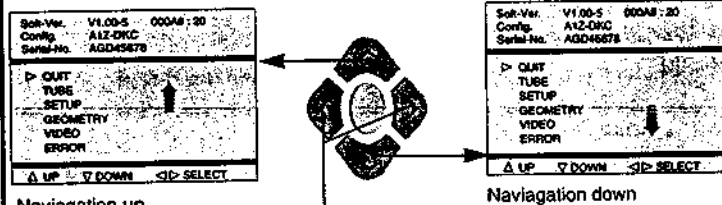
- Puede entrar al Menú Servicio con el botón azul.

3 SALIDA DEL MODO SERVICIO



**II - NAVIGATION INSIDE THE SERVICE MODE - DEPLACEMENT DANS LE MODE SERVICE
SUCHE IN SERVICE MODE - OPZIONI NEL SERVICE MODE - BUSQUEDA EN MODO SERVICIO**

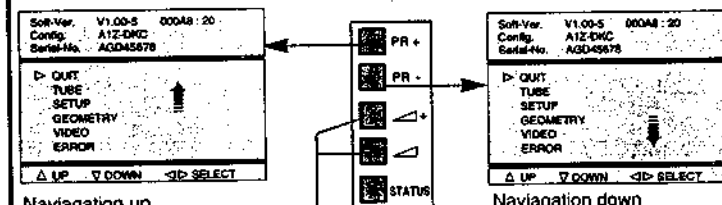
**1 REMOTE CONTROL - TELECOMMANDE - FERNBEDIENUNG
TELECOMANDO - MANDO A DISTANCIA**



- Select option
- Option anwählen
- Selezionare l'opzione
- Seleccionar opción

- "Change" value
- Wert "ändern"
- "Cambiare" valore
- "Cambiar" valor

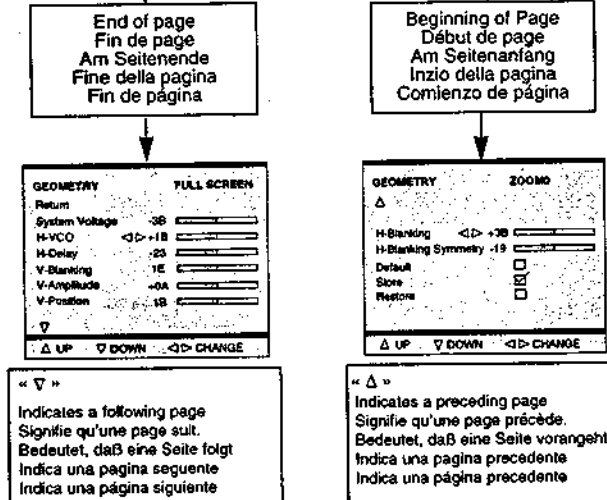
**2 TV CONTROL PANEL - CLAVIER TV - TASTATUR DES
FERNSEHGERÄTS - COMANDI DEL TELEVISORE**



- Select option
- Option anwählen
- Selezionare l'opzione
- Seleccionar opción

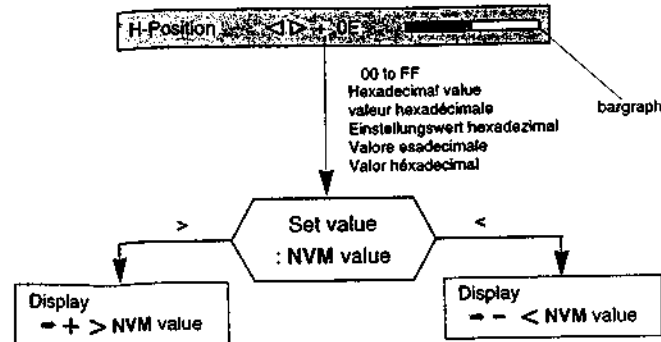
- "Change" value
- Wert "ändern"
- "Cambiare" valore
- "Cambiar" valor

**Changing page - Changement de page
Seitenwechsel - Cambiare Pagina - Cambio de página**



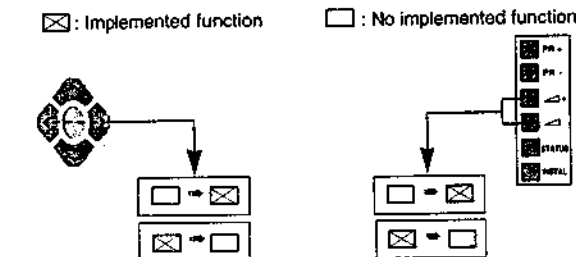
- The menu turns the page when the cursor reaches the arrow.
- Amener le curseur sur la ligne repérée par "V" ou "A" pour passer à la page qui précède ou qui suit.
- Cursor nach "V", "A" zum Seitenwechsel
- Il cursor su "V", "A" cambia pagina.
- Cursor en "V", "A" cambia las páginas

**3 DISPLAYING THE VALUE OF THE SETTING - AFFICHAGE DES
VALEURS - ANZEIGE DES EINSTELLUNGSWERT
VISUALIZZAZIONE DEL VALORE DELLA REGOLAZIONE
VISUALIZACION DEL VALOR DE AJUSTE**



**4 TOGGLE FUNCTIONS - VALIDATION DES FONCTIONS
EIN-UND AUSSCHALT FUNKTIONEN - FUNZIONI DI
COMMUTAZIONE - FUNCION CONMUTACION**

To enable a function check (tick) the box.
Pour valider une fonction cocher la case correspondante
Zum Implementieren einer Funktion das Kontrollkästchen aktivieren (ankreuzen)
Per implementare una funzione di verifica, (vistare) la casella
Para poner en funcionamiento una función verifique (señale) la casilla



**5 STORING VALUES IN MEMORY - MEMORISATION DES
VALEURS - SPEICHERN DER WERTE - MEMORIZZAZIONE
VALORI - VALORES ALMACENADOS EN LA MEMORIA**

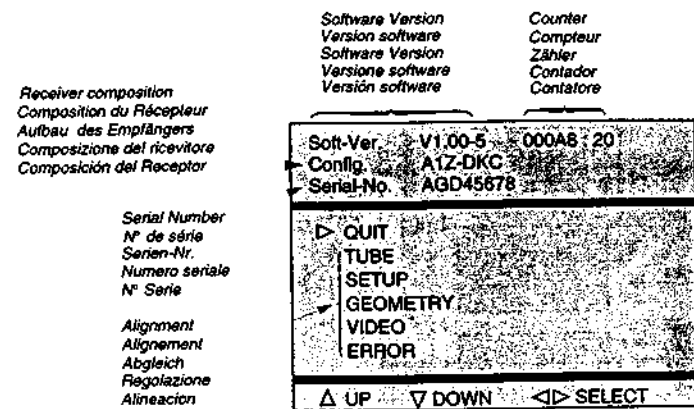
After setting, the values are stored in NVM.
Après réglages les valeurs sont mémorisées en NVM.
Nach dem Einstellen werden die Werte in NVM gespeichert.
Dopo la regolazione i valori vengono memorizzati in NVM.
Después del ajuste, los valores son almacenados en NVM

The box becomes
During alignment, values are temporarily stored in RAM.
En cours d'alignement les valeurs sont mémorisées temporairement en RAM
Während des Abgleichs werden die Werte vorübergehend im RAM gespeichert
Durante l'allineamento i valori vengono memorizzati provvisoriamente sulla RAM
Durante el alineamento, los valores son almacenados temporalmente en RAM

- Store** → Copies RAM values into NVM
Copie la valeur RAM en NVM
Kopieren des Werts von RAM nach NVM
Copiare i valori RAM in NVM
Copiar valores RAM en NVM
- Restore** → Copies all values from NVM into RAM.
Copie toutes les valeurs des données NVM en RAM
Kopiert alle NVM-Datenwerte in den RAM
Copiare tutti i valori da NVM sulla RAM
Copia todos los valores de NVM a RAM
- ROM Default** → All the default values of a page in use are stored in RAM.
L'ensemble des valeurs par défaut d'une page courante est chargé en RAM.
Sämtliche Standardwerte der aktuellen Seite werden im RAM geladen
Tutti i valori di default di una pagina in uso vengono memorizzati sulla RAM
Todos los valores por defecto de la página in curso están almacenados en RAM.

**III - LITE-MENU FOR FIELD SERVICE MODE -
MENUS DU MODE SERVICE**

1 MAIN MENU - MENU PRINCIPAL



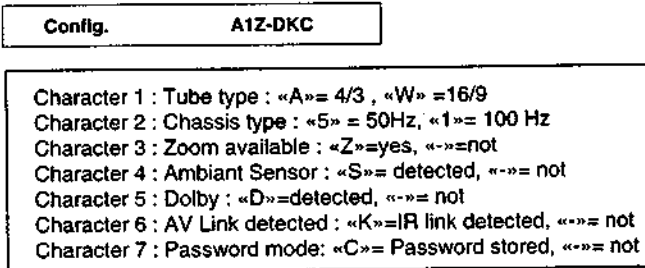
Receiver composition
Composition du Récepteur
Aufbau des Empfängers
Composizione del ricevitore
Composición del Receptor

Serial Number
N° de série
Serien-Nr.
Numero seriale
N° Serie

Alignment
Alignement
Abgleich
Regolazione
Alineacion

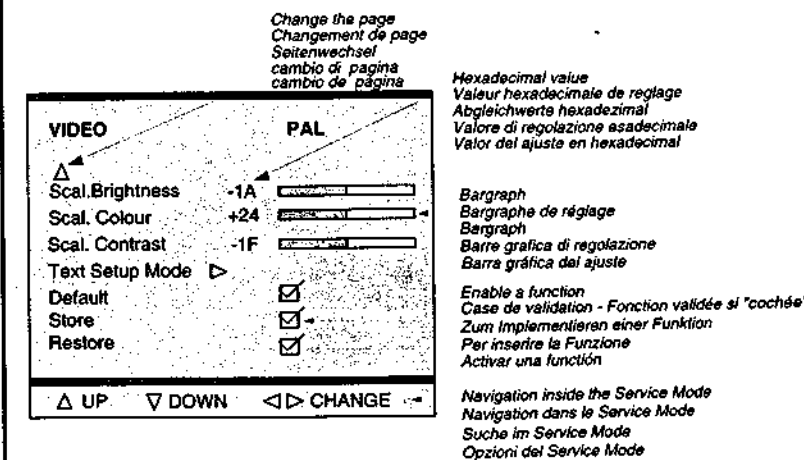
Navigation inside the Service Mode
Navigation dans le Service Mode
Suche im Service Mode
Opzioni del Service Mode
Búsqueda en el Modo Servicio

**TV CONFIGURATION - CONFIGURATION DU TV - GERÄTEKONFIGURATION -
CONFIGURAZIONE DEL TV - CONFIGURACIÓN Y TV**



TIME COUNTER - COMPTEUR DE TEMPS - ZÄHLER - CONTATORE - CONTADOR
The counter indicates the TV's number of service hours. It counts from 0 to 65535 hours.
The display is hexadecimal.
Le compteur de temps indique le nombre d'heures de service du TV. Il compte de 0 à 65535 heures. L'affichage est en hexadécimale.
Der Zähler zeigt an, wieviele Stunden der Fernseher in Betrieb ist. Die Anzeige ist hexadezimal.
Il contatore indica il numero di ore di servizio del TV. Può contare da 0 a 65535. La visualizzazione è esadecimale.
El contador indica el número de horas de servicio de la TV. Cuenta de 0 a 65535 horas. El visualizador es hexadecimal.

2 SUBMENU - SOUS-MENU



Change the page
Changement de page
Seitenwechsel
cambio de pagina
cambio de página

Hexadecimal value
Valeur hexadécimale de réglage
Abgleichwerte hexadecimale
Valore di regolazione esadecimale
Valor del ajuste en hexadecimal

Bargraph
Bargraphe de réglage
Bargraph
Barra grafica di regolazione
Barra gráfica del ajuste

Enable a function
Case de validation - Fonction validée si "cochée"
Zum Implementieren einer Funktion
Per inserire la Funzione
Activar una función

Navigation inside the Service Mode
Navigation dans le Service Mode
Suche im Service Mode
Opzioni del Service Mode

TUBE

Return

Tube type A66EGY...

Store

Restore

▲ UP ▼ DOWN ◀▶ SELECT

SETUP

Return

OSD Position -20

PIN Erase

Clear Prog.

Standard Pan-Euro ...

WSS

▲ UP ▼ DOWN ◀▶ CHANGE

SETUP

Text Lang. 1

Ext.HIFI/Dolby Ext.

IR Download ▶

Default

Store

Restore

▲ UP ▼ DOWN ◀▶ CHANGE

GOMETRY FULL SCREEN

Return

System Voltage -3B

H-VCO ◀▶ +1B

H-Delay -23

V-Blanking 1E

V-Amplitude +0A

V-Position 1B

▲ UP ▼ DOWN ◀▶ CHANGE

GOMETRY ZOOM1

V-Linearity -3B

H-Position ◀▶ +0E

H-Amplitude -19

EW-Amplitude +1C

EW-Trapezium 2B

EW-Shape 1D

▲ UP ▼ DOWN ◀▶ CHANGE

VIDEO PAL

Return

Normalise User Settings

G2 Alignment mode ▶

R-Cut off +1B

G-Cut off -1F

R-Drive +3A

G-Drive -3B

B-Drive

Peak-White

▲ UP ▼ DOWN ◀▶ CHANGE

VIDEO PAL

Scal. Brightness -1A

Scal. Colour +24

Scal. Contrast -1F

Text Setup Mode ▶

Default

Store

Restore

UP ▼ DOWN ◀▶ CHANGE

page 1

page 2

page 1

page 2

page 1

page 2

Test Bar pattern used : 4/3 with geometric circle. Adjust separate for 4/3 and 16/9 format. See annexed

Color standard or RGB is autodetected and displayed opposite the displayed opposite the menu title.

TUBE

Return

Closes the submenu and the main Field Service Mode menu appears.

Retourne au menu principal.

Verlassen des Untermenüs

Chiude il sottomenu e fa apparire il menu principale Field Service Mode.

Cierra el submenú. El menú Field Service Mode aparece.

Press <->: remote control; Vol. +/- : TV keyb.

Tube type

Define the right tube after changing the NVM. 6 characters

New type tube values (with default video and geometry) are immediately active

Variable geometry and video parameters are put into NVM when the Store feature is selected. See below tube list.

Definit le tube exact après changement de NVM.

Les nouvelles valeurs de tubes (avec video et géométrie) sont actives de suite.

Les paramètres de vidéo et de géométrie sont chargés en NVM lorsque STORE est sélectionné. Voir liste ci-dessous.

Den Bildröhrentyp auswählen.

Die Geometrie- und Videodefault Werte werden sofort in das NVM geladen.

Bildröhraufistung : siehe unten.

Definire il tubo appropriato dopo aver cambiato il NVM; 6 caratteri i valori per il nuovo tipo di tubo (con video e forma di default) sono immediatamente attivi. I parametri per video e geometria vengono immessi nel NVM quando viene selezionata la funzione Store. Si veda la lista dei tubi riportata sotto.

Definir el tubo correcto después de haber cambiado el NVM. 6 caracteres. Los nuevos valores de tipo de tubo (con la vídeo y la geometría por defecto) se activan inmediatamente. Los parámetros variables de geometría y vídeo se graban en el NVM al seleccionar la función Store. Vea más arriba la lista de tubos.

Default tube type :

100Hz A66EGW 48X322 : A66EGW 4/3 28"MP, invar, vector gun, BSVM

After setting Store (+)

SETUP

Return

Closes the submenu and the main Field Service Mode menu appears.

Retourne au menu principal.

Verlassen des Untermenüs

Chiude il sottomenu e fa apparire il menu principale Field Service Mode.

Cierra el submenú. El menú Field Service Mode aparece.

Press <->: remote control; Vol. +/- : TV keyb.

OSD Position

Adjusts the position of all Megatext OSD. Horizontale zentrierung des OSD.

PIN Erase Erases all PINs.

PIN active-Pin aktiv

No PIN active-Kein PIN

Selection : Long press : = 5s

Press <->OK: remote control; Vol. +/- : TV keyb.

Löschen des PIN Code durch längeres (~ 5s) drücken der Taste >oder<.

Automatically stored

Clear Prog. Clears all programmes stored in the memory. Analogues values SOUND PICTURE : factory values.

Return the TV to "out of factory mode. Selection : Long press: 2.5s

Efface tous les programmes mémorisés. valeurs SON et IMAGES: valeurs usines. Pour sortir des valeurs usine : Selection : Long press: 2.5s

Setzt das Gerät in die Werksgrundeinstellungen. Es erscheint nach dem erneuten Einschalten das Installationsmenü.

Clear Prog. Cancella tutti i programmi in memoria. Valori analogici SUONO IMMAGINE: valori di fabbrica. Riportare la TV al modo Selezione: pressione prolungata: 2.5 sec.

Programa de borrado. Borra todos los programas almacenados en la memoria. Valores análogos de SOUND PICTURE: valores de fábrica. Regreso a la TV para "salir del modo fábrica". Selección: Presión larga igual a 2.5 s.

active-aktiv No active-inaktiv

Standard "Pan-Euro" or "I". BG PAL SECAM, L SECAM (France), DKK SECAM, NTSC M, I PAL (UK/IRELAND)

WSS Detection "auto-surround" and "format" via Teletext line 23.

Selection of WSS Processing is valid for all programs.

Sélection du process WSS valid pour tous programmes

WSS (nur bei 16:9 oder Dolby) Auswertung der Zeile 23 zur automatischen Format-umschaltung und Dolby-umschaltung

Rivelazione "auto-surround" e "format" via teletexto alla riga 23. La selezione di WSS Processing vale per tutti programmi.

La selezione di WSS Processing vale per tutti programmi.

Detección "auto-surround" y "format" a través de la línea 23 de Teletext. La selección del procesamiento WSS es válida para todos los programas. La selección del procesamiento WSS es válida para todos los programas.

detect.enable- aktiv disable-inaktiv

SETUP

Text. Lang. Teletext language :

0	1	2	3
English	Polish	English(US)	English
German	German	German	German
Swedish	Swedish	Swedish	Swedish
Italian	Italian	Italian	Italian
French	French	French	French
Portug.	Serbocroat	Portug.	Portug.
Czech/Slov.	Czech/Slov.	Czech/Slov.	Turkish.
	Rumanian	English(UK)	

EXT.HIFI / Dolby Ext.

Dolby Internal Not available on Normal Sound TV's Nur bei Dolby TV.

Dolby with External Loudspeaker. Dolby mit ext. Lautsprechern

Dolby with Internal Loudspeakers. Dolby mit int. Lautsprechern

External HIFI Not available on Dolby TV's Bei nicht Dolby TV

External HIFI control Einstellung der Lautstärke int. Lautsprecher

Normal sound control Einstellung der Lautstärke der Cinchbuchsen (HIFI Anlage)

IR Download

Download screen for receiving mapping via IR data.

Ecran de chargement pour réception "mapping" via IR data

Herunterladen des Programmschemas per IR.

Trasferimento IR

Trasferire schermo per ricezione mappatura via dati IR

Descarga de IR

Pantalla de descarga para recibir el mapeado a través de los datos IR.

IR Download

Programme 00

Return / Abort ◀

IR Download active

"programme 00" : function is active or finished. Return / Abort : To exit/Abort the menu press "left" arrow key or Volume - key of keyboard.

All other IR commands have no response.

Toutes les autres commandes IR sont sans réponse;

Es gibt auf IR Kommandos keine Reaktion.

Tutti gli altri comandi IR sono senza risposta

Los otros comandos IR no envían respuesta.

After setting Store (+)

GOMETRY

Return

Closes the submenu and the main Field Service Mode menu appears.

Retourne au menu principal.

Verlassen des Untermenüs

Chiude il sottomenu e fa apparire il menu principale Field Service Mode.

Cierra el submenú. El menú Field Service Mode aparece.

Press <->: remote control; Vol. +/- : TV keyb.

System Voltage Adjustment of the system voltage U_{sys}. Only possible via the local keyboard Vol +/- . Einstellung nur über die Bordbedienung möglich (Lautstärke +/-)

TUBE NAME	DESCRIPTION	U _{sys}
A66EGW 48X322	4/3 28" MP	134V +/- 0.5V
A59EGD048X322	4/3 25" SF	137V +/- 0.5V
A68EGD038X322	4/3 29" SF	137V +/- 0.5V
A68EES038X322	4/3 29" SF	137V +/- 0.5V
W66EGV023X122	16/9 28" SF	134V +/- 0.5V
W76EGV023X122	16/9 32" SF	134V +/- 0.5V
W66EGV023X122	16/9 32" SF	134V +/- 0.5V

H-VCO Horizontal - VCO oscillator. Adjust H_VCO until the speed of the unsynchronised picture gets the slowest. Agir sur H-VCO pour obtenir une image la plus proche de la synchronisation. Den H-VCO auf Schwebung einstellen. Regolare l'H_VCO finché l'immagine non sincronizzata non avrà raggiunto la velocità minima. Ajuste H_VCO hasta que la imagen no sincronizada alcance su velocidad más baja. default value = 0FH Press <->: remote control; Vol. +/- : TV keyb.

H-Delay Horizontal delay Use "+" and "-" to adapt the image

V-Blanking

- 1-V.amp. pre-align: > 7% overscan
- 2- Reduce V-blanking: visible on top & bottom
- 3-increase step/step: blank. at the bottom and cut-off lines at the top disappear
- 4- Increase one more step
- 5- Fine adjust V-amp. and V-position

1-V. amp. ampl. vertic. suffisante (>7% overscan) 2- réduire V-blanking: visible en haut et bas. 3- Agir étape par étape jusqu'à disparition du blanking en bas d'image et des lignes de cut-off en haut d'écran 4- Augmenter d'une valeur. 5- Faire un réglage fin de V-amp. et V-position

1-V-Position und V-Amplitude optimal einstellen (V-amp. vorabgleich: > 7% Überschreibung.) 2- V-Blank soweit verändern, daß am oberen und unterem Bildrand gerade eine Ausstufung sichtbar wird. 3-Den Wert von-Blank um 2 steps erhöhen (2 x die + Taste drücken).

1- Ampiezza verticale: grande a sufficienza (7% di sovrascanzioni) 2- Riduzione della soppressione verticale: visibile in alto e in basso 3- Aumentare passo/passo: vuoto in basso per veder scomparire le linee di interdizione in alto 4- Aumentare ancora di un passo 5- Regolare con precisione l'ampiezza e la posizione verticale

1- Amplitud V: suficientemente grande (7% de sobreexplotación) 2- Reducir el parpadeo V: visible en las partes superior e inferior. 3- Aumentar el paso a paso: el vacío en la parte inferior y las líneas de corte en la parte superior desaparecerán. 4- Aumentar de otro paso. 5- Ajustar finamente la amplitud V y la posición V.

V-Amplitude

V-Position

After setting Store (+)

GOMETRY ZOOM0

V-Linearity

H-Position

H-Amplitude

EW - Amplitude

EW - Trapezium

EW - Shape

Default

Store

Restore

▲ UP ▼ DOWN ◀▶ CHANGE

page 3

After setting Store (+)

VIDEO PAL

Return

Closes the submenu and the main Field Service Mode menu appears.

Retourne au menu principal.

Verlassen des Untermenüs

Chiude il sottomenu e fa apparire il menu principale Field Service Mode.

Cierra el submenú. El menú Field Service Mode aparece.

Press <->: remote control; Vol. +/- : TV keyb.

Normalise User Settings Recalls the factory settings for colour, brightness, contrast and sharpness and sets contrast expand to "low".

Factory settings recalled

User settings kept.

G2 Alignment Display a special menu: Adjust R-Cut off and G-Cut off to 80H temporary. Return R=60 G=60 B=70

Adjust the lowest value with RGB cutoff counters SCREEN potentiometer to; see table

Es erscheint folgendes Menü. Die R- und G-Cut off Werte für diese Einstellung temporär auf 80H einstellen. den kleinsten angezeigten Wert mit dem Schmittenersteller auf entsprechenden Wert in der Tabelle abgleichen.

Tube Type	Value	Tube Type	Value
A66EGW	60H	W76EGX	60H
A59EGD	50H	A80EDM	60H
A68EGD	50H	A90AFF	50H
W66EGV	50H	RP 4/3	-
W76EGV	60H	RP 16/9	60H

To return video submenu: Press <->OK: remote control; Vol. +/- : TV keyb. Select "Restore" to restore the cut off values.

R-Cut off* Grey scale test pattern white = 100%

G-Cut off* grey

R - Drive Grey scale test pattern white = 100%

G - Drive white

B - Drive white

Peak-White** Peak white test pattern white = 100%

Blue cathode

CRT Pin 6,8,11

Tube Type	[int]	[Vpp]	Tube Type	[int]	[Vpp]
A59EGD	470	110	A90AFF		
A66EGY	350	110	W66EGV	550	110
A66EGW	425	110	W76EGV	430	110
A68EGD	400	110	W76EGX	430	110
A80EDM					

After setting Store (+)

VIDEO PAL

Scal. Brightness

Scal. Colour

Scal. Contrast

Text Setup Mode

Set Text Contr. to max. 1 Adjust Text Gain to get a light output of just >40% of OMA peak white. Fine-adjust with Text Contr. to 40% of light output of OMA Peak White.

CRT Pin 6,8,11

Note : * adjust separate for PAL/NTSC/SECAM and RGB/AV getrennte Einstellung für PAL/SECAM und RGB/AV ** After PEAK white adjustment control cut off setting. Repeat the adjustments if necessary. nach der Einstellung von Peak white die Cut off Einstellungen wiederholen

After setting Store (+)

TUBE NAME	LIST	DESCRIPTION	tube type
A66EGW 48X322	A66EGW	4/3 28" MP, invar, vector gun, BSVM	10,100Hz
A59EGD048X322	A59EGD	4/3 25" SF, invar, vector gun, BSVM	11,100Hz
A68EGD038X322	A68EGD	4/3 29" SF, invar, vector gun, BSVM	12,100Hz
A68EES038X322	A68EES	4/3 29" SF, invar, COTY MDF gun, BSVM	12,100Hz
W66EGV023X122	W66EGV	16/9 28" SF, invar, vector gun, BSVM	13,100Hz
W76EGV023X122	W76EGV	16/9 32" SF, invar, vector gun, BSVM	14,100Hz
W76EGX023X122	W76EGX	16/9 32" SF, invar, COTY MDF gun, BSVM	14,100Hz

VIDEO	PAL
Scal. Brightness -1A	
Scal. Colour +24	
Scal. Contrast -1F	
Text Setup Mode	<input checked="" type="checkbox"/>
Default	<input checked="" type="checkbox"/>
Store	<input checked="" type="checkbox"/>
Restore	<input checked="" type="checkbox"/>
UP DOWN CHANGE	

ERROR CODE
Return
Erases Error Codes
CODE
11 013AF
24 008A0
78 0042A
11 0023F
51 000E3
UP DOWN CHANGE

page 2
displayed opposite the displayed opposite the menu title.

VIDEO	PAL
Scal. Brightness	+ 50% = 100% Grey scale test pattern white = 100%
Scal. Colour	= nom. PAL (then SECAM + RGB) 75% Colour bar test pattern via RF.
Scal. Contrast	factory settings.
Text Set-up Mode	= nom. Set Text Contr. to max. ! Adjust Text Gain to get a light output of just 240% of OMA peak white. Fine-adjust with Text Contr. to 40% of light output of OMA Peak White.

ERROR CODE
Return
Closes the submenu and the main Field Service Mode menu appears.
Retourne au menu principal.
Verlassen des Untermenüs
Chiude il sottomenu e fa apparire il menu principale Field Service Mode.
Cierra el submenú. El menú Field Service Mode aparece.
Press <->: remote control; Vol. +/- : TV keyb.
Erases Error Codes
Cleares all error codes stored in the NVM. Long press action (2.5s): Durch längeres Drücken der >oder< Taste werden die Error Codes gelöscht.
Press <->/OK: remote control; Vol. +/- : TV keyb.
CODE
LED Error Codes
Store the last five different error codes when each occurred (via runtime counter). The more recent error is displayed on top. A repeat of the error code on the top of the list just updates the runtime. 27 different error codes are signalled from the TV LED: 11 to 44. The error code is signalled as two separate digits with a suitable pause in-between and will repeat until the TV is fixed or fixes itself.
e.g. Error-code : 23 will be displayed : 2 flashes, short pause 3 flashes, long pause List of Errors Codes : see table
Mémoire les cinq derniers codes erreurs et affiche en haut d'écran les plus récents. 27 codes erreurs différents sont signalés par 2 digits selon une séquence spécifique
Example : Code erreur : 23 affiché 2 flashes, courte pause 3 flashes : longue pause
Voir ci-contre la liste des codes erreurs
Zeigt die letzten 5 Fehlercodes mit der Laufzeit an. Der zuletzt aufgetretene Fehler steht an erster Stelle. Sollte ein Fehler wiederholt auftreten wird nur die Laufzeit aktualisiert. Die Fehlercodes können im Menü Error Code angezeigt werden oder über die Kontroll LED angezeigt werden.
Beispiel für die Anzeige über die Kontroll LED : Fehlercode 23 Zweimaliges Blinken der LED, kurze Pause Dreimaliges Blinken der LED, lange Pause. Auflistung der Fehlercodes : siehe Liste
Memorizzare gli ultimi cinque codici d'errore (differenti tra loro) dopo che ognuno di essi si sarà presentato (attraverso il contatore della durata di esecuzione). L'errore più recente viene visualizzato in cima. La ripetizione del codice di errore in cima alla lista non farà altro che aggiornare la durata di esecuzione. Dal LED della TV vengono segnalati 27 codici d'errore differenti, numerati da 11 a 44. Il codice d'errore è indicato da due cifre separate da un opportuno intervallo di tempo e verrà ripetuto fino a quando il televisore non sarà stato riparato o non si sarà corretto da solo. Ad es: Il codice d'errore 23 visualizzerà: 2 segnali luminosi con pausa breve 3 segnali luminosi con pausa lunga Per la lista dei Codici d'Errore, si veda la tabella
Almacene los últimos cinco códigos de error cuando cada uno ocurre (gracias al contador de tiempo de ejecución). El error más reciente se visualiza en la parte superior. Una repetición del código de error en la parte superior de la lista solamente actualiza el tiempo de ejecución. El indicador TV LED indica 27 códigos de error diferentes: de 11 a 44. El código de error se señala en forma de dos dígitos separados con una pausa apropiada entre los dos y se repetirá hasta que repare el TV o él se repare a sí mismo. Por ejemplo, se va a visualizar el código de error 23: 2 parpadeos, una pausa corta; 3 parpadeos, una pausa larga. Para la Lista de códigos de error, consulte la tabla.

VIDEO	PAL
Scal. Brightness	+ 50% = 100% Grey scale test pattern white = 100%
Scal. Colour	= nom. PAL (then SECAM + RGB) 75% Colour bar test pattern via RF.
Scal. Contrast	factory settings.
Text Set-up Mode	= nom. Set Text Contr. to max. ! Adjust Text Gain to get a light output of just 240% of OMA peak white. Fine-adjust with Text Contr. to 40% of light output of OMA Peak White.

ERROR CODE
Return
Closes the submenu and the main Field Service Mode menu appears.
Retourne au menu principal.
Verlassen des Untermenüs
Chiude il sottomenu e fa apparire il menu principale Field Service Mode.
Cierra el submenú. El menú Field Service Mode aparece.
Press <->: remote control; Vol. +/- : TV keyb.
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Cleares all error codes stored in the NVM. Long press action (2.5s): Durch längeres Drücken der >oder< Taste werden die Error Codes gelöscht.
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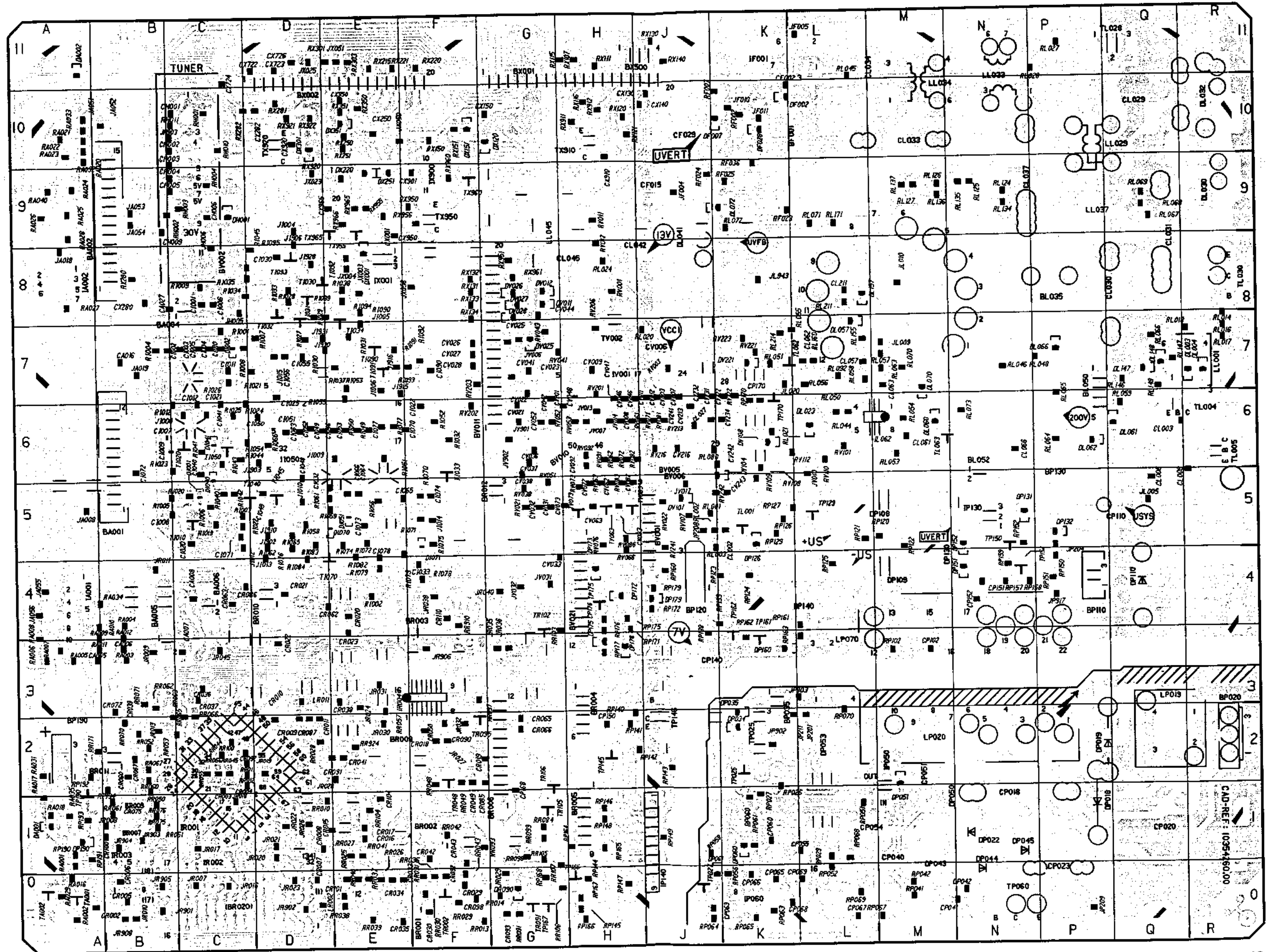
ERROR CODES

(GB)
11 1st Audio_MSP doesn't answer
12 2nd Audio-MSP doesn't answer
13 Audio-DSP doesn't answer
14 Video IC STV2161/2 doesn't answer
15 Chroma IC 2151/9143 doesn't answer
16 Upconverter DMU0 doesn't answer
17 Audio (or Dolby) module not detected
18 SCART IC TEA6415C doesn't answer
19 Tuner CTT5000 doesn't answer
21 I2C Bus1 data line held low
22 I2C Bus2 data line held low
23 I2C Bus1 clock line held low
24 I2C Bus2 clock line held low
25 Switched 5V not available
26 Tube doesn't gets warm in time
27 Deflection detects >3 times protection (problem detected on "breathing" line)
29 DRAM memory of Megatext defect
33 The PSI chip (STV2165) doesn't answer
34 The NVM (X24C32) chip doesn't answer
35 13V not available
37 Unexpected level on NMI (Interrupt) line found (possible cause : tube flashover)
38 M3L Bus for Megatext is blocked
39 Megatext (SDA5273) doesn't answer
41 bus1 (data line) not recoverable
42 bus2 (data line) not recoverable
43 MCU (Motion Mastering Up-Converter) doesn't answer
44 Convergence IC (Rear Projector) doesn't answer

(F)
11 Processeur Audio MSP ne répond plus
12 Deuxième MSP ne répond plus (Doit)
13 Audio-DSP ne répond plus (produit C)
14 Vidéo-IC STV2161 ou 2162 ne répond plus
15 Chroma-IC STV2151 ou TDA9143 n'rd plus
16 Convertisseur de fréquence d'image DMU0 (Intelligent Mastering) ne répond plus
17 Module son (ou Dolby) n'est pas dété
18 Commutateur SCART TEA6415C ne1 plus
19 Tuner CTT5000 ne répond plus
21 I2C-bus 1 data bloqué au niveau bas
22 I2C-bus 1 clock bloqué au niveau bas
23 I2C-bus 2 data bloqué au niveau bas
24 I2C-bus 2 clock bloqué au niveau bas
25 Le "5V commuté" n'est pas disponible
26 Tube ne chauffe pas a temps
27 Plus que 3-fois la deflection a détecté "protection" (c'est-à-dire qu'il y a un problème détecté sur la ligne "breathing")
29 Mémoire (DRAM) du Megatext est ep
33 STV 2165 (PSI 100Hz) ne répond plus
34 NVM (mémoire) X24C32 ne répond plus
35 +13V n'est pas disponible
37 Problème détecté sur la ligne "Interrompant le démarrage ou le fonctionnement Possibilité: "arcing"?"
38 Bus M3L pour Megatext est bloqué
39 Megatext (SDA5273) ne répond plus
41 I2C-bus 1 data reste bloqué
42 I2C-bus 2 data reste bloqué
43 MCU (convertisseur de fréquence d'igital: Motion Mastering) ne répond plus
44 CI Convergence ne répond plus (réprojecteur)

(D)
11 Audio MSP Prozessor antwortet nicht.
12 Zweiter Audio MSP Prozessor antwortet nicht.(Dolby)
13 Audio DSP Prozessor antwortet nicht. (Dolby)
14 IC STV2161/62 antwortet nicht
15 IC STV2151 / TDA9143 antwortet nicht
16 DMU0 Upconverter (Videomodul) antwortet nicht
17 Audio- oder Dolby-modul nicht erkannt
18 TEA6415C antwortet nicht (SCART Schalter)
19 Tuner CTT5000 antwortet nicht
21 I2C Bus1 data line ist auf low
22 I2C Bus2 data line ist auf low
23 I2C Bus1 clock line ist auf low
24 I2C Bus2 clock line ist auf low
25 Geschaltete 5V nicht vorhanden
26 Röhre wird nicht rechtzeitig warm
27 Ablenkung meldet 3 mal Fehler. (Problem auf Breathing Leitung)
29 DRAM des Megatext defekt
33 STV 2165 (PSI 100Hz) antwortet nicht
34 NVM Chip antwortet nicht (X24C32)
35 +13V nicht vorhanden
37 Unerwarteten Zustand an NMI (Interrupt) line gefunden. (Mögliche Ursache = Röhren Überschlag)
38 M3L Bus des Megatext blockiert
39 Megatext (SDA 5273) antwortet nicht
41 Bus1 (data line) nicht möglich zu reaktivieren
42 Bus2 (data line) nicht möglich zu reaktivieren
43 MCU (Motion Mastering Up-Converter) antwortet nicht
44 Konvergenz IC antwortet nicht (Rear-Projektor)

(I)
11 Primo Audio MSP non risponde più
12 Secondo Audio MSP non risponde più
13 Audio DSP non risponde più
14 2161/2 non risponde più
15 2151/9143 non risponde più
16 Il convertitore non risponde più
17 Modulo Audio non trovato
18 TEA6415C non risponde più
19 Il sintonizzatore non risponde più
21 Linea I2C bus dati 1 mantenuta bassa
22 Linea I2C bus dati 2 mantenuta bassa
23 Linea I2C bus temporizzatore 1 man bassa
24 Linea I2C bus temporizzatore 2 man bassa
25 Commutazione 5V non disponibile
26 Il tubo non si riscalda in tempo
27 La deflexion ha rilevato più
29 Diretto alla DRAM di Megatext
33 Il chip PSI non risponde più
34 Il chip NVM non risponde più
35 13V non disponibile
37 Livello imprevisto sulla linea NMI



COMPONENTS LOCATION - LOCALISATION DES ELEMENTS - LAGE DER BAUTEILE - LOCALIZZAZIONE DEGLI ELEMENTI - LOCALIZACION DE LOS COMPONENTES

* SOLDER SIDE - COTE CUIVRE - LÖTSEITE - LATO SALDATURE - LADO DEL COBRE

BA001	B6
BA002	B9
BA004	C8
BA005	B3
BA006	C4
BF001	K10
BL035	F8
BL050	F6
BL052	N5
BP020	R2
BP025	J2
BP035	K3
BP110	P4
BP120	J4
BP130	F6
BP190	A2
BR001	E0
BR002	F1
BR003	F4
BR004	H2
BR005	H1
BR006	G2
BR007	B1
BR008	F2
BR009	B4
BR010	D4
BR011	B2
BR012	G5
BV001	J5
BV002	C8
BV005	J6
BV006	J5
BV010	G6
BV011	G7
BX001	H4
BX002	H11
BX500	J11

||

CA001	B3
CA002	B4
CA003	A3
CA004	A3
CA005	B3
CA006	B3
CA007	C3
CA008	C4
CA009	A5
CA010	C4
CA011	A7
CA012	A7
CA013	A6
CA014	A6
CA015	B7
CA016	B7
CA018	A9
CA019	A9
CA020	B10
CA021	A10
CA022	A11
CA023	B11
CA024	A8
CA025	A9
CA027	C8
CA028	B4
CF002	K10
CF011	L10
CF015	J9
CF021	L10
CF027	L11
CF028	K10
CF029	J10
CF031	K11
CH001	C10
CH002	C10
CH003	C9
CH004	C10
CH005	C9
CH006	C9
CH007	D9
CH008	D9
CH009	B9
CH010	D10
CI001	C8
CI002	B7
CI003	C7
CI004	C7
CI005	C7
CI006	C8
CI007	B6
CI008	C5
CI009	C6
CI010	C7
CI011	C7
CI012	C6
CI021	C5
CK021	C6
CK022	F6
CK025	D7
CK030	D8

CI031	D8
CI032	E5
CI033	F4
CI040	C6
CI041	C6
CI045	D5
CI046	E4
CI048	D6
CI049	D6
CI050	D6
CI051	D6
CI052	D6
CI053	E8
CI054	D7
CI055	D7
CI056	D7
CI060	D6
CI061	D5
CI062	D5
CI063	D6
CI064	E5
CI065	E5
CI066	E5
CI070	F6
CI071	C5
CI072	B5
CI073	E5
CI074	F5
CI077	E4
CI078	E6
CI090	F7
CL001	G5
CL002	K5
CL003	Q6
CL004	Q6
CL005	R6
CL006	Q5
CL008	R5
CL023	L6
CL027	J6
CL028	P11
CL029	Q10
CL029	Q10
CL030	Q8
CL031	Q8
CL032	R10
CL033	M10
CL034	M11
CL036	N10
CL037	P9
CL038	Q7
CL039	R7
CL041	K8
CL043	K8
CL044	K9
CL045	H8
CL046	P6
CL052	M6
CL057	L7
CL061	M6
CL062	L7
CL063	M7
CL066	N6
CL067	P7
CL073	L6
CL084	P6
CL146	P6
CL148	Q6
CL211	L8
CP017	Q1
CP018	N1
CP019	Q2
CP020	Q1
CP020	Q1
CP021	P0
CP022	N1
CP023	F0
CP040	M0
CP041	N0
CP042	N0
CP050	M1
CP051	M2
CP052	L2
CP053	L2
CP054	L1
CP055	L1
CP056	L1
CP060	K1
CP061	J1
CP062	J0
CP063	J0
CP064	K0
CP065	K0
CP066	K0
CP067	L0
CP068	K0
CP069	L0
CP100	P3
CP100	Q3
CP102	M3
CP110	P5
CP111	Q4
CP112	Q4
CP120	L5

CP121	K4
ICP130	L4
CP131	P5
CP135	N4
CP137	M4
CP138	L5
CP140	J3
CP141	H0
CP142	H1
CP143	H3
CP144	H1
CP146	H2
CP150	H2
CP151	N4
CP152	N4
CP168	G1
CP170	K6
CP171	H4
CP176	H4
CP179	H4
CR001	B0
CR002	A0
CR003	C2
CR004	C2
CR005	B0
CR006	B0
CR007	D0
CR008	D1
CR009	D2
CR010	D2
CR011	D2
CR015	D1
CR016	E1
CR017	E1
CR018	F2
CR019	F2
CR020	E4
CR021	D4
CR022	D3
CR023	E4
CR029	F0
CR030	F0
CR032	F0
CR033	E0
CR034	E0
CR035	E0
CR036	C3
CR037	C3
CR038	E3
CR039	B2
CR041	E2
CR042	F1
CR043	F1
CR049	F2
CR050	F2
CR060	B2
CR062	D4
CR063	C4
CR065	G2
CR066	G2
CR067	B2
CR072	B3
CR075	B1
CR085	F2
CR086	C4
CR087	D2
CR090	F2
CR091	E2
CR092	C2
CR093	G0
CR098	F0
CR100	B1
CR101	E0
CR104	E1
CR110	F4
CV002	H7
CV003	J6
CV006	J7
CV007	J6
CV008	H6
CV009	H7
CV011	J6
CV012	J6
CV021	G8
CV022	G7
CV023	G7
CV025	G7
CV026	F7
CV027	F7
CV028	F7
CV031	G5
CV032	G5
CV033	G4
CV036	G6
CV037	G6
CV038	G6
CV041	G7
CV042	G8
CV043	G7
CV044	G8
CV047	H6
CV048	H7
CV051	H6

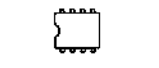
CV052	G6
CV062	H5
CV063	H5
CV072	H5
CV073	H5
CV082	H5
CV083	H5
CV092	H6
CV102	J5
CV103	J6
CV201	H6
CV206	H8
CV207	H7
CV213	J6
CV216	J6
CV222	K6
CV231	J6
CV232	J8
CV241	K6
CV242	K6
CV243	K5
CV245	H6
CX001	E9
CX120	H10
CX130	J10
CX140	J10
CX150	G10
CX220	E10
CX280	B8
CX282	D10
CX301	D10
CX350	E10
CX722	D11
CX723	D11
CX724	C11
CX726	D11
CX900	E10
CX901	F9
CX902	D9
CX910	H10
CX920	D10
CX950	F9
CX965	E9



DA001	A1
DA002	A11
DF001	K10
DF002	K10
DF007	K10
DF011	L11
DF028	K10
DF031	K10
DF033	K11
DH001	C9
DI001	C5
DI002	C7
DI040	C6
DI041	C6
DI051	E5
DI070	E5
DI071	F5
DL001	Q6
DL003	R7
DL004	R7
DL023	L6
DL030	R9
DL032	R10
DL032	R10
DL032	R11
DL034	N9
DL036	N9
DL041	J6
DL041	J8
DL043	K8
DL046	P6
DL050	M6
DL051	L6
IDL052	L6
DL057	L7
DL060	M6
DL061	Q6
DL062	P6
DL066	P7
DL070	M7
DL071	K9
DL072	K9
DL092	L6
DL147	Q7
DL148	Q7
DL157	L8
DP018	P1
DP019	Q2
DP022	N1
DP027	K1
DP028	K2
DP034	K2
DP035	K2
DP040	N0
DP041	N0

DP043	M0
DP044	N0
DP045	N1
DP050	M1
DP051	M2
DP052	K1
DP053	L2
DP054	L1
DP060	K1
DP061	J0
DP066	K0
DP108	L5
DP108	M5
DP108	M4
DP109	M4
DP110	Q4
DP112	Q4
DP113	R5
DP126	K5
DP130	N4
DP131	N5
DP132	P5
DP133	N5
DP134	J8
DP140	L4
DP140	L4
DP151	N4
DP152	N5
DP160	K3
DP172	H4
DP173	H4
DP175	H3
DP178	H3
DP179	J4
DP190	A1
DR090	G0
DR091	E2
DR104	E1
DV011	G8
DV012	G8
DV025	G7
DV026	G8
DV027	G8
DV028	G8
DV101	J5
DV104	K5
DV108	K6
DX001	E8
DX120	G10
DX151	F10
DX220	E9
DX251	E9
DX301	D10
DX351	E10

FI001	C7
FI002	C6
FI010	C6
FI015	C7
FI020	C6
FI030	E8
FI040	E6



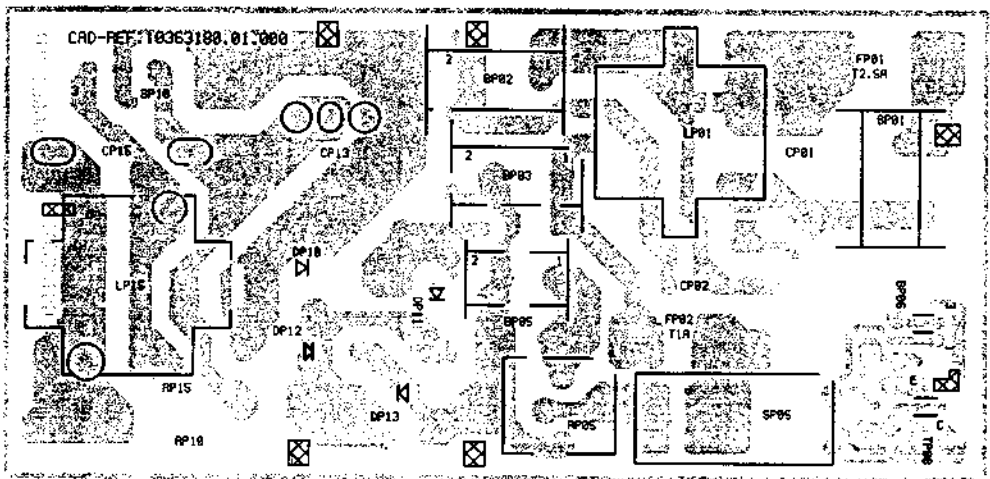
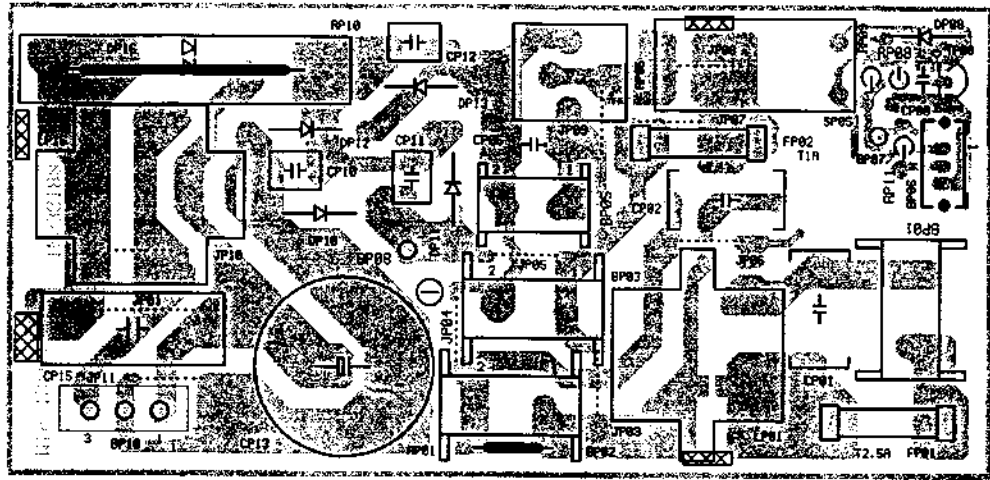
IA001	A7
IA001	A4
IA001	A8
IA002	A2
IF001	L11
IL050	E6
IL062	M6
IP050	M1
IP060	K0
IP130	N5
IP140	J2
IP140	J1
IR001	C2
IR001	C2
IR002	C0
IR003	B0
IR004	F3
IR004	F3
IV001	H6
IX001	E8
IX001	E8
IX900	E9

JA002	A1
JA003	A2
JA004	B4
JA005	B4
JA006	B4
JA007	B4
JA008	A5
JA009	A5

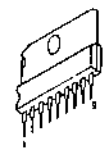
JA010	A5
JA011	A5
JA012	A5
JA013	A6
JA014	B7
JA015	B7
JA016	B8
JA017	A7
JA018	A8
JA019	B7
IJA020	B10
JA021	A10
JA022	B11
JA023	B9
JA051	A10
JA052	B10
JA053	B9
JA054	B9
JA055	A4
JA056	A4
JA100	K4
JF001	K10
JF003	L10
JF004	J9
JF005	L11
JF010	K10
JF011	K10
JH005	C8
JH006	C8
JH007	B8
JH009	C11
JH903	C10
JI001	C7
JI004	D9
JI005	E7
JI006	E7
JI008	C6
JI009	E6
JI010	D5
JI012	C5
JI013	D5
JI014	F5
JI015	D7
JI016	B8
JI020	B8
JI021	D5
JI022	F6
JI023	F6
JI024	F4
JI901	C5
JI902	D5
JI903	D6
JI906	D8
JI910	D5
JI915	E7
JI916	E7
JI928	D8
JI930	D7
JI931	D8
JL001	M8
JL005	Q5
JL006	M7
JL007	M6
JL008	L6
JL009	M7
JL010	M8
JL011	M7
JL012	N6
JL016	K9
JL017	K9
JL018	H9
JL019	H9
JL020	K7
JL021	K7
JL032	N10
JL033	Q8
JL034	N7
JL035	N6
JL036	Q11
JL037	P11
JL083	N6
JL084	N6
JL932	M10
JL933	N10
JL934	M10
JL936	N10

MAINS FILTER - MIS 19000

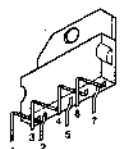
H5
H5
H5
K6
H10
D10
F9
E9
F9
E9



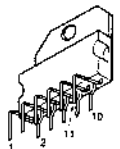
INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE - CIRCUITS INTEGRES ET TRANSISTORS INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN - CIRCUITI INTEGRATI TRANSISTOR CIRCUITOS INTEGRADOS Y TRANSISTORES



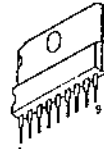
TDA 8139



TDA 8177



TDA7269



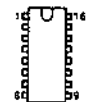
TEA 5101B



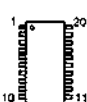
4N25TV



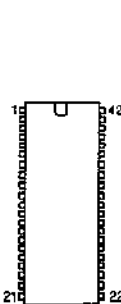
TDA4605
ST24C04-B1



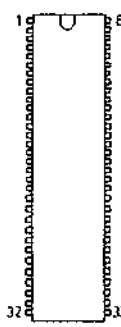
STV2145



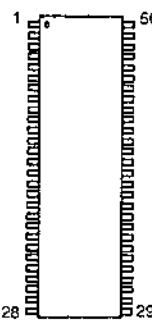
TEA6415C



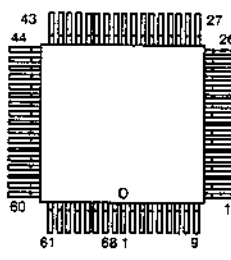
TDA9811



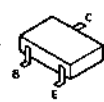
MPS3400
MPS3410



STV2162



ST90R92



BCR141- BC846B
BC 847B-BC856B
BC857B-BF 799
BC 848 A/B/C



BC368
BF 422
BF423



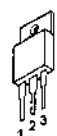
BC 337
BC 548B
BC 558B



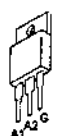
2SA1837
2SC4793
BD 241



BUL810TH
BUV48CFITH16
ON4977



7805
7812

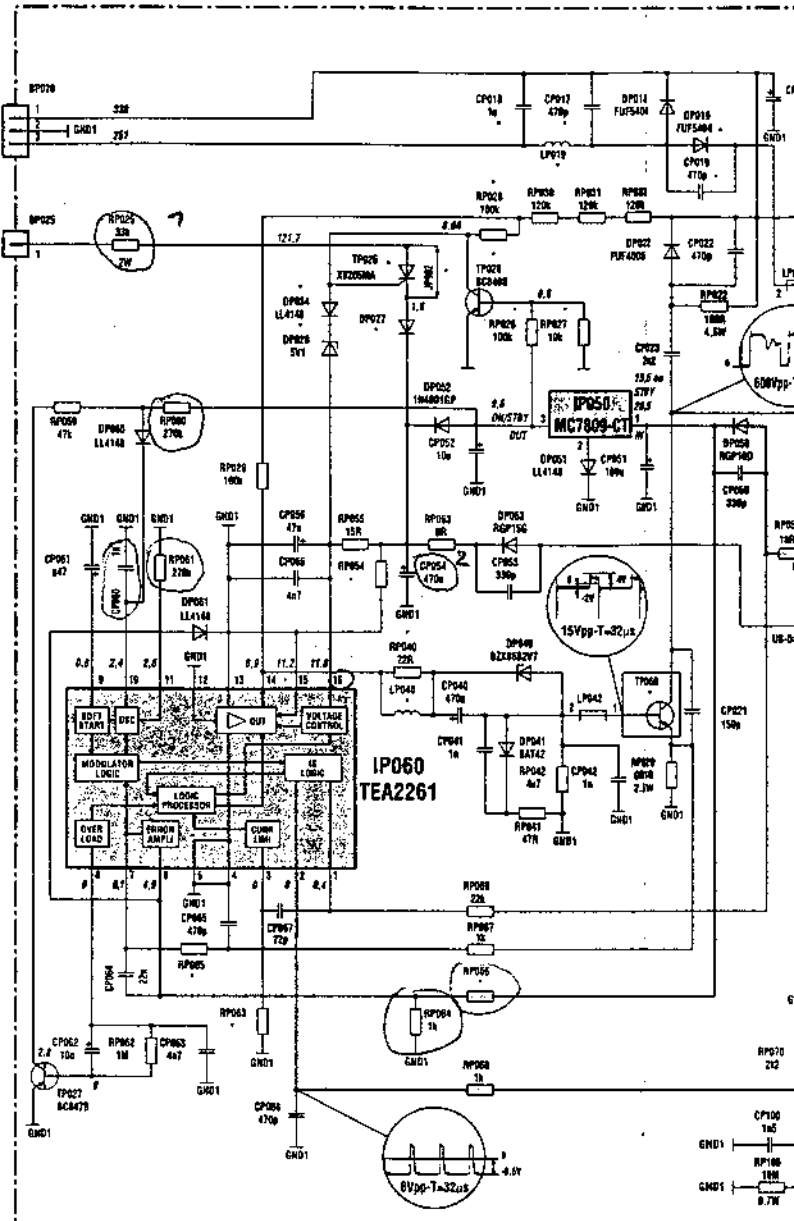
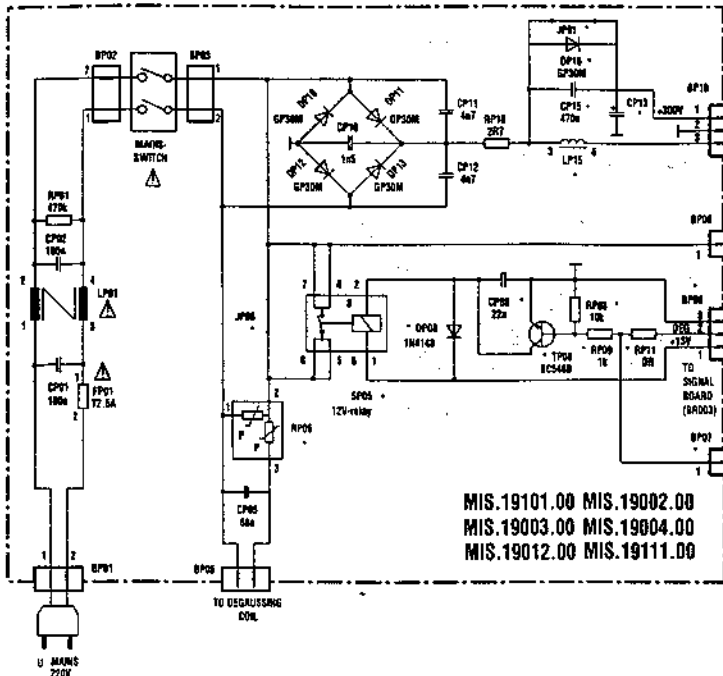


BT806 -600C



STP6 NA60F1

COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLA



DESIGNATION POWER

PP.19100.00, PP.19101.00, PP.19110.00, PP.19111.00

*	PP 19111 00	PP 19101 00	PP 19110 00	PP 19100 00
	10536990	10393830	10535880	10353750
	100Hz/Dolby	100Hz/Dolby	100Hz/Stereo	100Hz/Stereo
CP017/018/019	-	X	-	X
CP020	150u	150u	150u	150u
CP112	3n3	3n3	3n3	3n3
CP126	X	X	-	-
CP146	X	X	X	X
DP019	X	X	-	-
DP027	1N4148	1N4148	1N4148	1N4148
DP028/034	X	X	X	X
DP108/109	BYW029-150	BYW029-150	RGP30D	RGP30D
DP110	MUR110DE	RGP50M	RGP50M	RGP50M
DP113	RGP10M	MUR110DE	MUR110E	MUR110DE
DP126	X	X	-	-
DP140	BYV63-50	BYV63-150	MRA22	MRA22
JP002	-	-	-	-
JP010/011	-	-	-	-
JP013	-	-	X	X
JP014	139V	139V	139V	139V
JP015	136V	136V	136V	136V
JP016	130V	130V	127V	130V
JP017	142V	142V	142V	142V
LP019	-	105u	-	105u
LP020	10397920	10397920	10397920	10458670
LP021	-	X	-	X
LP049	2n2	2u2	2n2	2n2
RP026/028	X	X	X	X
RP027	X	X	X	X
RP040	1/2W	1/2W	1/2W	1/2W
RP054	6R8	6R8	6R8	6R8
RP063	-	47k	-	47k
RP065	11k	12k1	11k	12k1
RP066	4k22	3k57	4k22	3k57
RP126/128	X	X	-	-
RP127/129	X	X	-	-
RP130	X	X	-	-
RP138/139	X	X	X	X
RP146	X	X	X	X
RP167	130k	130k	130k	130k
RP177	12k	12k	12k	12k
TP025/026	X	X	X	X
TP060	BUL810TH	BUL810TH	BUL810TH	BUL810TH
TP129	X	X	-	X
TP148	X	X	X	X
TP162	-	-	X	X

X Inserted
- Not inserted

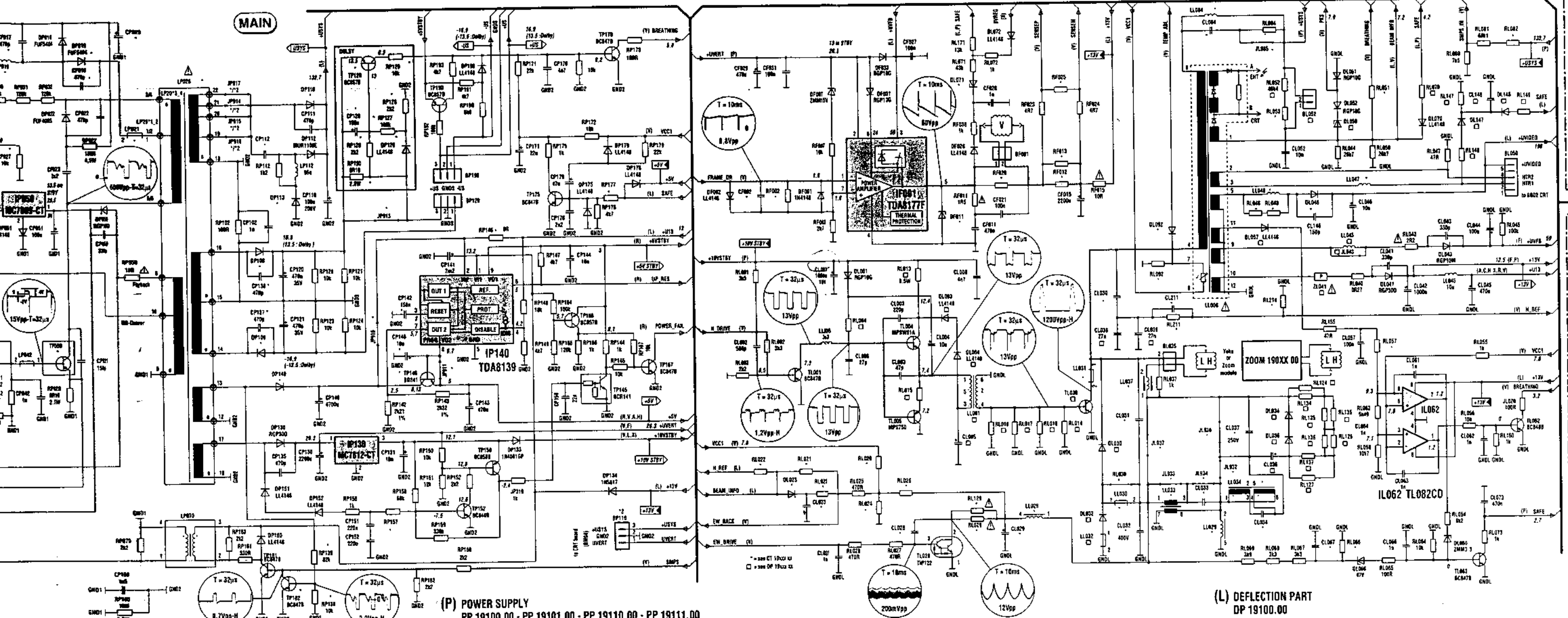
*	different comp.	BP06	BP07	CP08	CP13	CP15	DP08	DP16	JP01	JP08	LP15	RP05	RP08	RP09	SP05	TP08
MIS.19101	100Hz+relay	X	X	X	150u	X	X	X	-	-	1.5mH	18R	X	X	X	X
MIS.19002	50Hz	-	-	-	100u	X	-	X	-	X	3mH	25R	-	-	-	-
MIS.19003	50Hz+relay	X	X	X	100u	X	X	X	-	-	3mH	18R	X	X	X	X
MIS.19004	50Hz/45W Pict.Pow.	-	-	-	-	X	-	X	-	X	3mH	25R	-	-	-	-
MIS.19012	50Hz	-	-	-	100u	-	-	X	X	-	25R	-	-	-	-	-
MIS.19111	100Hz+relay	X	X	X	150u	-	X	-	X	-	18R	X	X	X	X	X

X Inserted
- Not inserted

Part of board connected to mains supply.
Partie du chassis reliée au secteur.
Primärseite des Netzteils.
Parte dello chassis collegata alla rete.
Parte del chassis conectada a la red.



Use isolating mains transformer
Utilise un transformateur isolateur du secteur
Einen Trenntrafo verwenden
Utilizar un transformador aislador de red
Utilizzare un trasformatore per isolarvi dalla rete



LP15	AP05	AP08	AP09	SP05	IP08
1.5mH	18R	X	X	X	X
3mH	25R	-	-	-	-
3mH	18R	X	X	X	X
3mH	25R	-	-	-	-
-	25R	-	-	-	-
-	18R	X	X	X	X

Note :
 Power Supply primary circuit measurements.
 - Use only (GND1) connection point.
Attention :
 Mesure dans le bloc alimentation
 - Utiliser la masse du bloc alimentation (GND1).
Achtung :
 Bei Messungen im Primärnetzteil
 - Primärnetzteilmasse verwenden (GND1).
Attenzione :
 misura nell'alimentatore primario
 - usare massa alimentazione primario (GND1).
Cuidado :
 Medida en el bloque de alimentación
 - Utilizar la masa del bloque de alimentación (GND1).

Safety Part
 When repairing, use original part only
Piece de securite
 N'utilisez que les pieces d'origine
Sicherheitsbauteil
 Bei Ersatz nur Originalteile verwenden
Componenti di sicurezza
 durante la riparazione usare componenti originali
Pieza de seguridad
 Utilice solo piezas originales

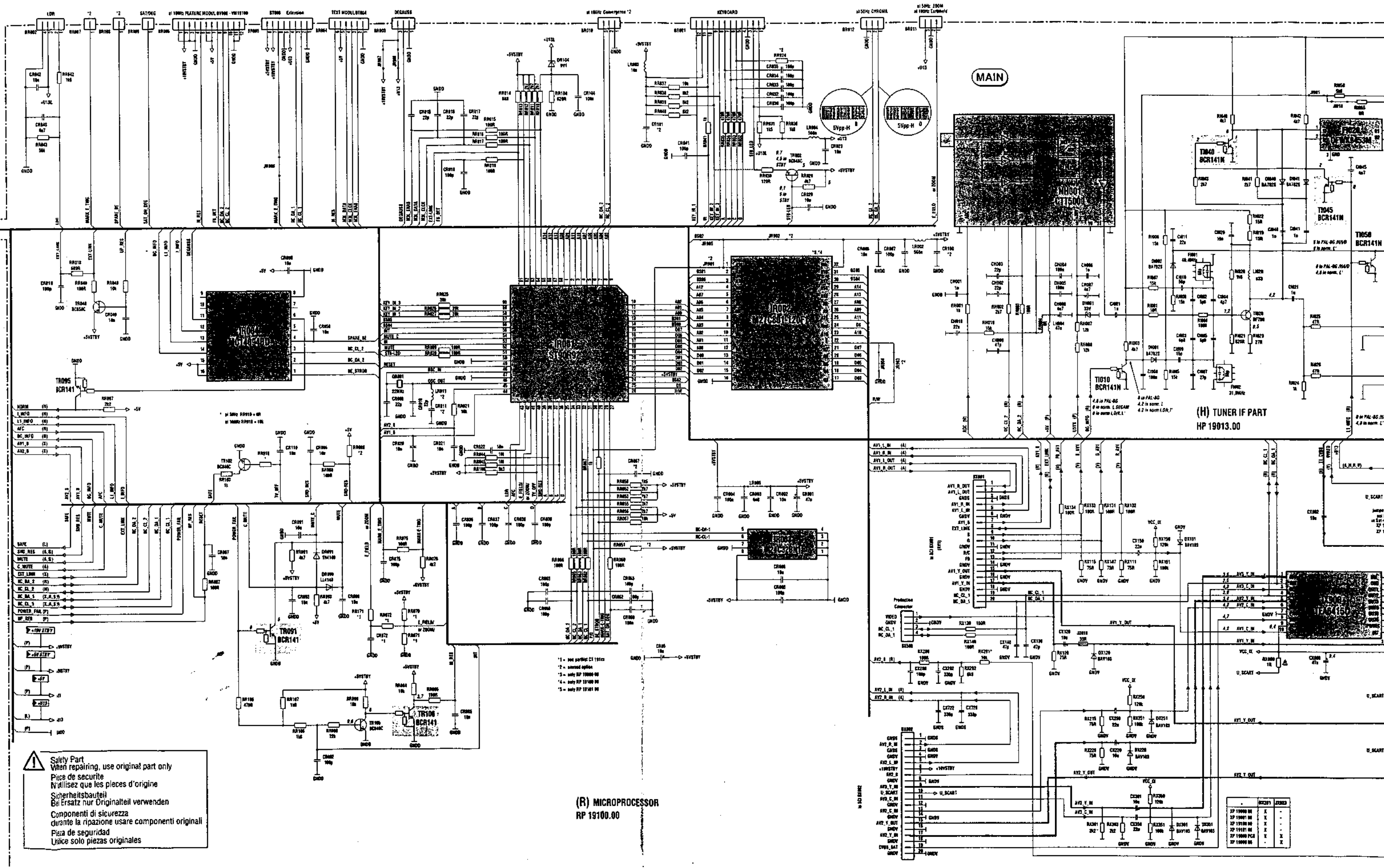
□	Deflection - Basic Partlists	
	100Hz	DP 19100 00
RL452	-	10 34 99 80
CL005	470n/16V	-
CL036	2c2/250V	-
CL038	-	-
CL039	54n	-
CL148	220n	-
DL003/04	-	-
DL030	DTV32F-1500	-
DL032	12n/400V	-
DL034	12n/400V	-
DL037	680n/250V	-
DL050	100n/100V	-
DL057	-	-
DL147/148	1L4148	-
LL945	-	-
LL001	10 45 87 80	-
LL030	-	-
LL032	10 25 84 40	-
LL043	22u	-
RL015	PTC-15R	-
RL064	1k	-
RL013	4R7	-
RL014	40R2	-
RL015	1R	-
RL016/17	40R2	-
RL018	40R2	-
RL070	15k	-
RL071	43k	-
RL124/127	7k5	-
RL134/137	7k5	-
RL146	100R	-
RL147	4k7	-
RL149	1k	-
TL030	0N4977	-
ZL041	MP160	-

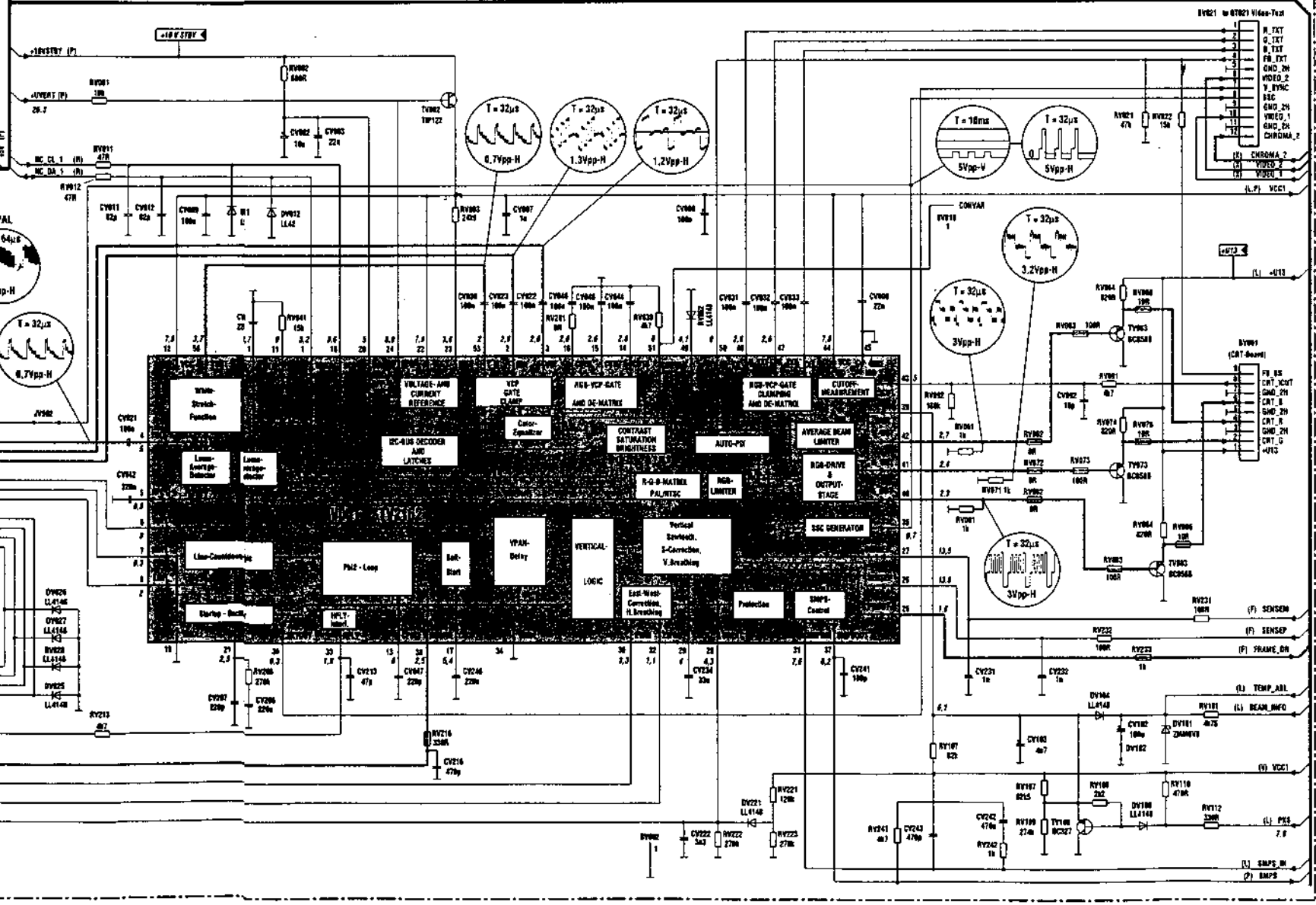
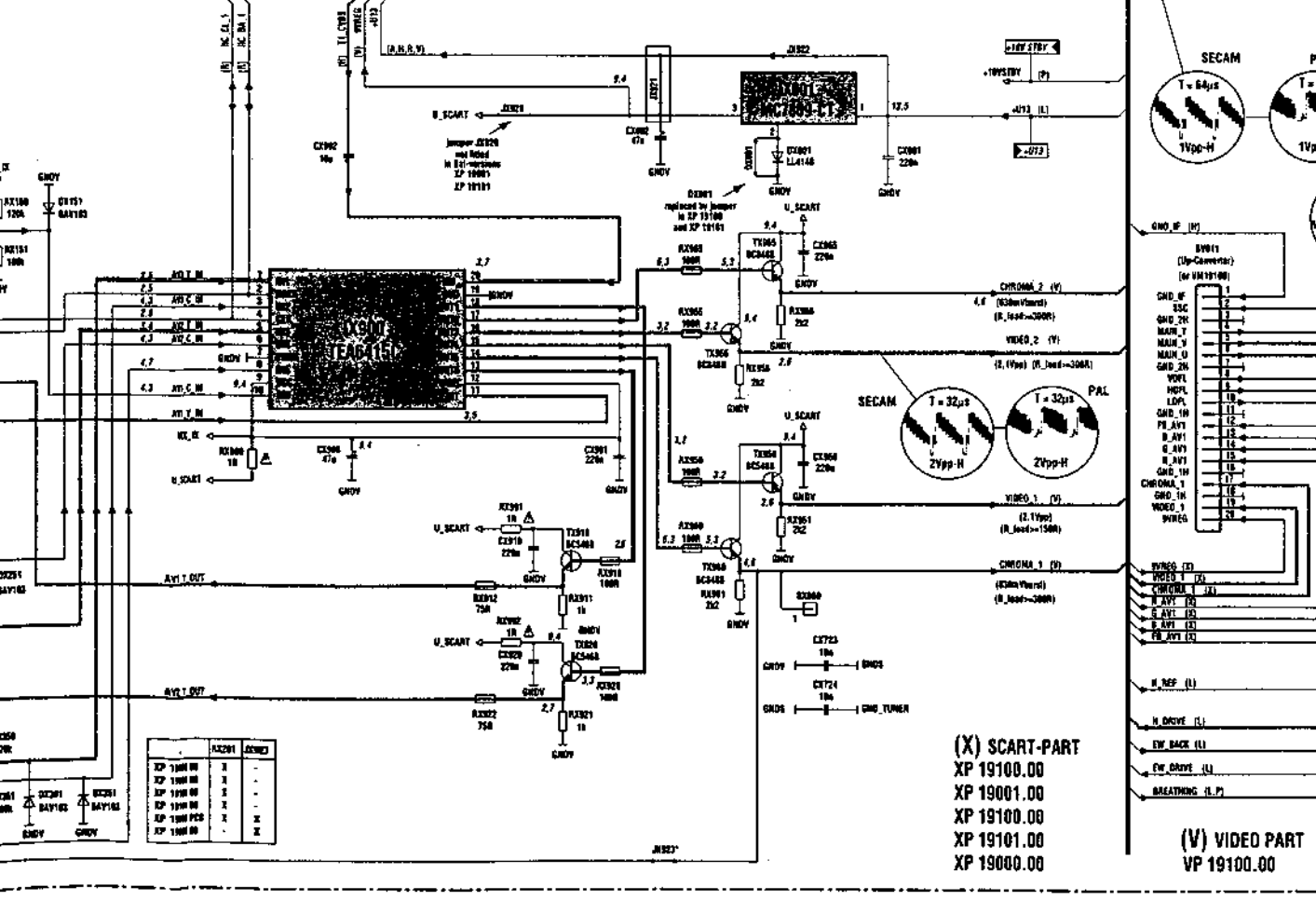
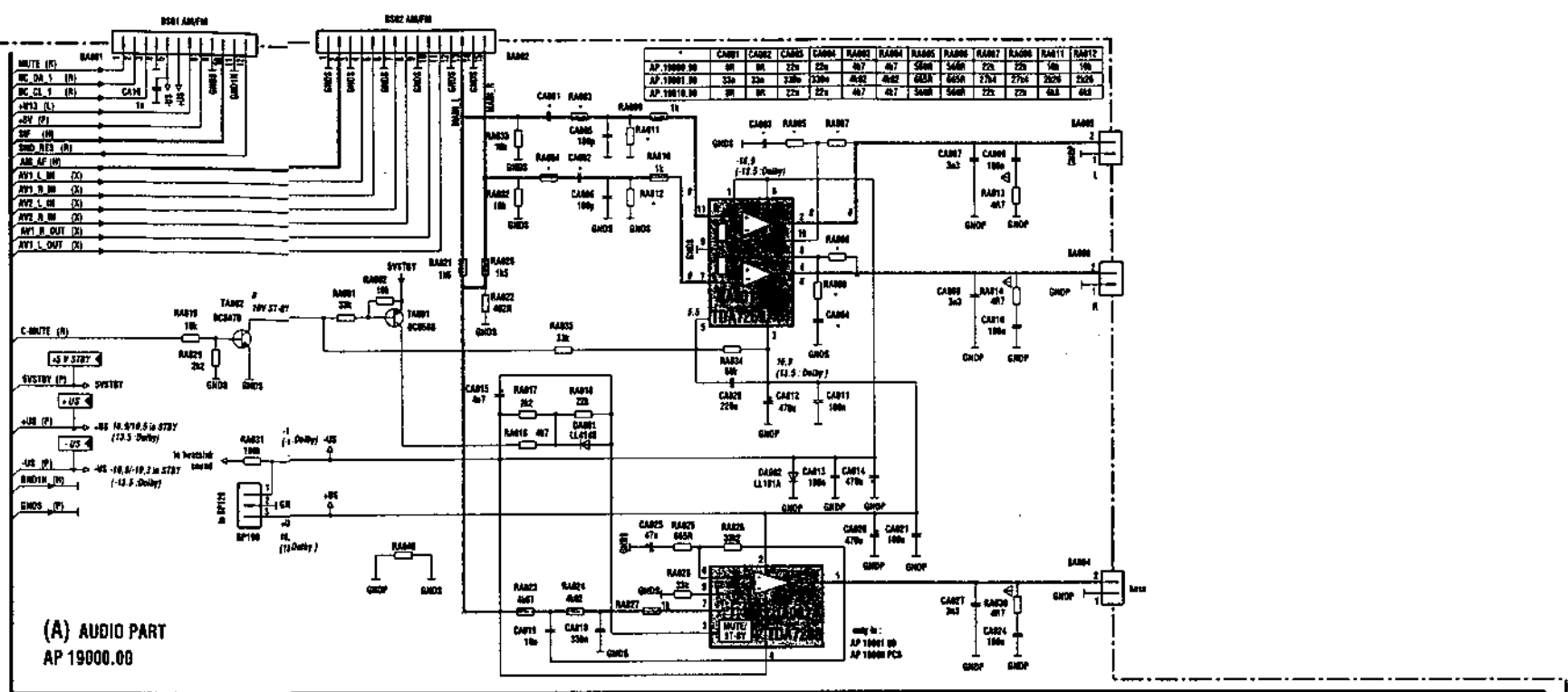
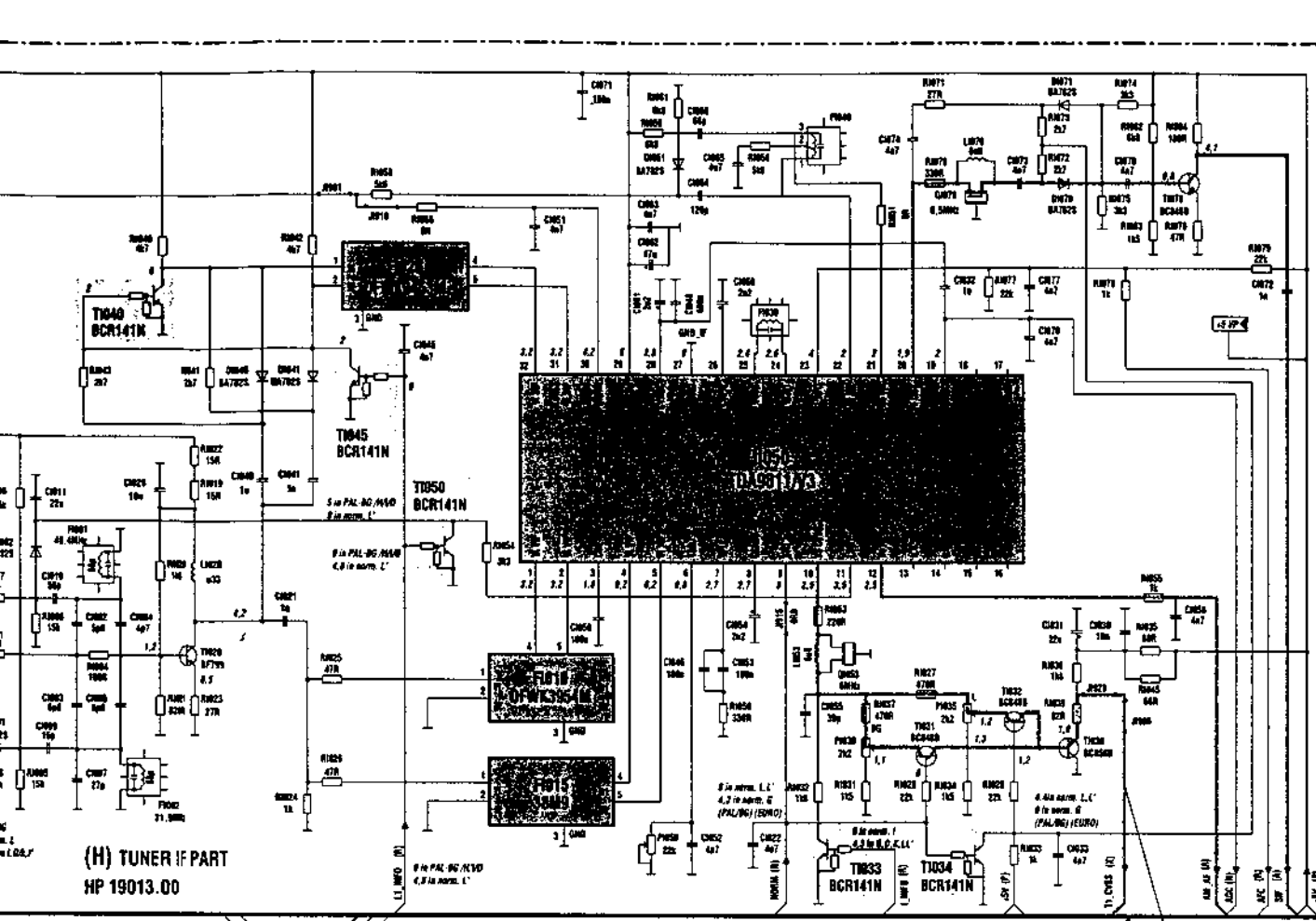
* □	Deflection - Picture Tube related Partlists					
	CT 19101 34	CT 19105 37	CT 19152 37	CT 19111 34	CT 19112 34	CT 19151 34
	10 36 28 80	10 35 15 30	10 52 86 10	10 44 48 10	10 47 54 80	10 52 06 00
	100Hz	100Hz	100Hz-MCU	100Hz	150Hz	100Hz-MCU
	25-28MP 4/3	29SF 4/3	29SF 4/3	28SF 16/9	32SF 16/9	32SF 16/9
CF002	680p	680p	680p	2n2	2n2	2n2
CL023	-	-	-	56n	56n	56n
CL026	56n	1n	1n	56n	56n	470n/33V
CL029	470n/63V	3u3/63V	3u3/63V	470n/63V	470n/63V	2n7/2kV
CL030	1n9/2kV	1n9/2kV	1n9/2kV	2n7/2kV	2n7/2kV	2n7/2kV
CL031	11n6/2kV	11n6/2kV	11n6/2kV	11n6/2kV	11n6/2kV	11n6/2kV
CL032	33n/400V	24n/400V	24n/400V	33n/400V	33n/400V	33n/400V
CL033	580n/250V	-	680n/250V	580n/250V	580n/250V	580n/250V
CL034	12n/400V	12n/400V	12n/400V	12n/400V	12n/400V	12n/400V
CL037	680n/250V	410n/400V	410n/400V	580n/250V	580n/250V	580n/250V
CL067	100n/100V	-	100n/100V	100n/100V	100n/100V	100n/100V
CL084	3n9/400V	3n9/400V	3n9/400V	3n9/400V	3n9/400V	3n9/400V
CL211	470p	470p	470p	470p	470p	470p
DF011	10 36 82 10	10 36 82 10	10 36 82 10	10 36 82 10	10 36 82 10	10 36 82 10
DL023	-	-	-	-	-	-
DL046	MUR160	MUR180	MUR109E	MUR160	MUR168	MUR109E
DL071	82X55C3	82X55C3	82X55C3	82X55C24	82X55C24	82X55C24
DL082	1N4148	1N4148	1N4148	1N4148	1N4148	1N4148
DL093	-	-	-	-	-	-
DL094	-	-	-	-	-	-
DL095	-	-	-	-	-	-
LL058	10 46 03 60	10 46 03 70	10 51 04 70	10 46 61 60	10 46 61 60	10 52 83 30
LL029	10 34 78 50	10 15 42 70	10 15 42 70	10 34 78 50	10 34 78 50	10 34 78 50
LL030	-	LFBEAD 90R	LFBEAD 9R	-	-	-
LL031	LFBEAD 90R	JUMPER	JUMPER	LFBEAD 90R	LFBEAD 90R	LFBEAD 90R
LL033	10 34 78 60	-	-	10 34 78 60	10 34 78 60	10 34 78 60
LL034	10 15 32 70	10 15 32 70	10 15 32 70	10 15 32 70	10 15 32 70	10 15 32 70
LL037	4u2	3u	3u7	4u	4u	4u2
LL048	47u	22u	47u	47u	47u	22u
LL047	13u5	13u5	13u5	13u5	13u5	13u5
ZL041	29u5	29u5	29u5	29u5	29u5	29u5

* □	Deflection - Picture Tube related Partlists					
	CT 19101 34	CT 19105 37	CT 19152 37	CT 19111 34	CT 19112 34	CT 19151 34
	10 36 28 80	10 35 15 30	10 52 86 10	10 44 48 10	10 47 54 80	10 52 06 00
	100Hz	100Hz	100Hz-MCU	100Hz	150Hz	100Hz-MCU
	25-28MP 4/3	29SF 4/3	29SF 4/3	28SF 16/9	32SF 16/9	32SF 16/9
RF002	10k	10k	10k	10k	10k	10k
RF012	1R	1R	1R	1R5	1R5	1R5
RF013	1R	1R	1R	1R2	1R2	1R2
RF020	180R	270R	270R	-	-	-
RF025	39R	43R	43R	150R	150R	150R
RL020	4k64	7k15	7k15	4k64	4k64	4k64
RL021	-	-	-	-	-	-
RL023	-	-	-	-	-	-
RL024	2k67	4k02	4k02	2k67	2k67	2k67
RL025	3k65	61k9	61k9	3k65	3k65	3k65
RL029	-	2R2	2R2	-	-	-
RL046/48	3k3	3k3	3k3	3k3	3k3	3k3
RL051	270k	270k	270k	270k	270k	270k
RL053	6k34	8k56	8k56	6k34	6k34	6k34
RL057	25k1	27k4	56k2	47k5	47k5	56k2
RL066	-	2k2	2k2	-	-	-
RL082	59k	61k9	61k9	59k	59k	59k
RL084	-	-	-	-	-	-
RL092	4k7	4k7	4k7	4k7	4k7	4k7
RL129	2R2	-	2R2	2R2	2R2	2R2
RL211	6k8	6k8	6k8	6k8	6k8	6k8
RL214	-	-	-	-	-	-
Z000	-	-	-	-	-	-

Note : the last two numbers of the CT xxxx part list name indicates the system voltage.
 e.g. CT 19005 31 Usys 131V →
 Nota: los dos últimos números de la denominación CT xxxx, indica la tensión Usys
 e.g. CT 19005 31 Usys 131V →

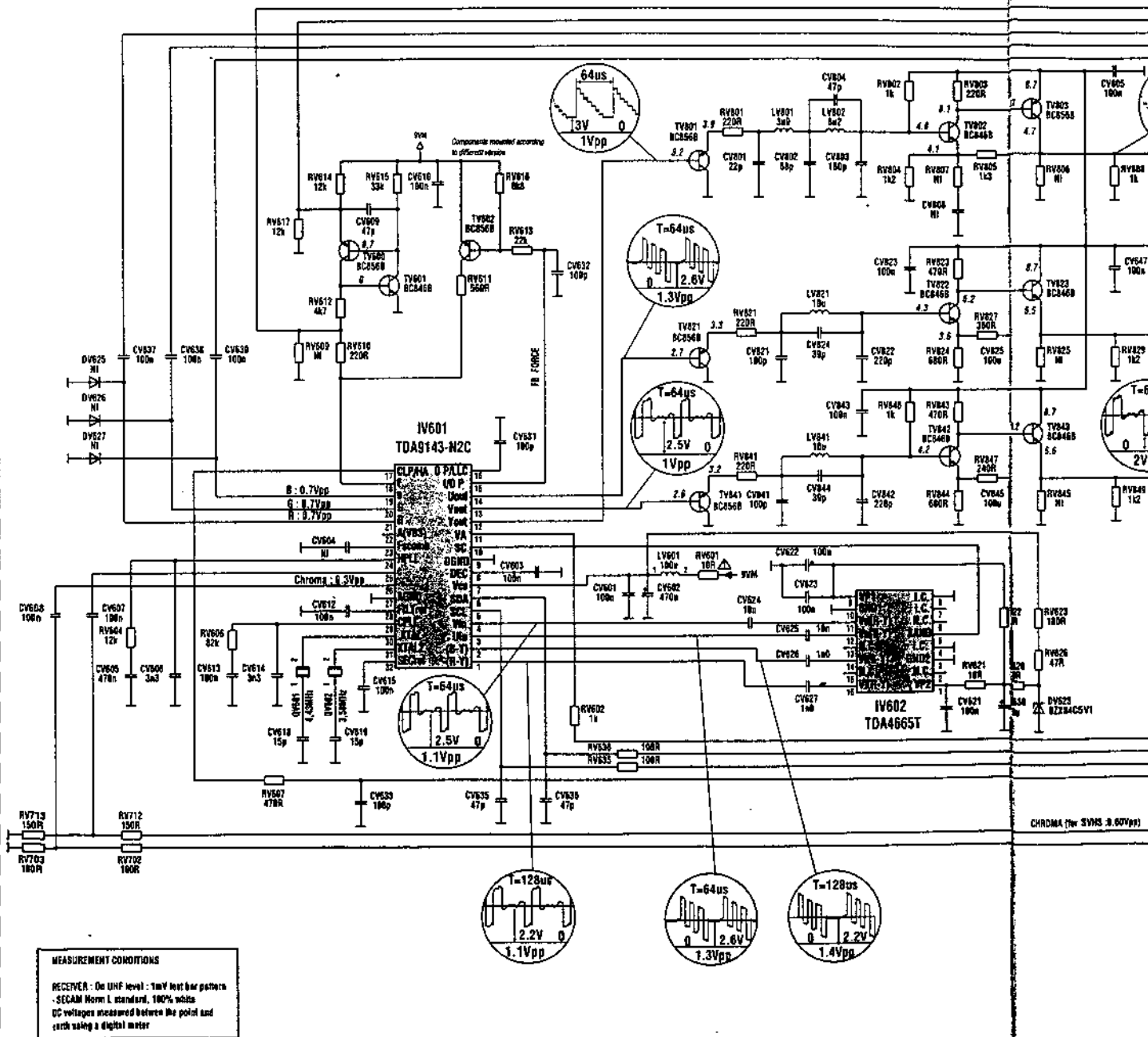
COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA

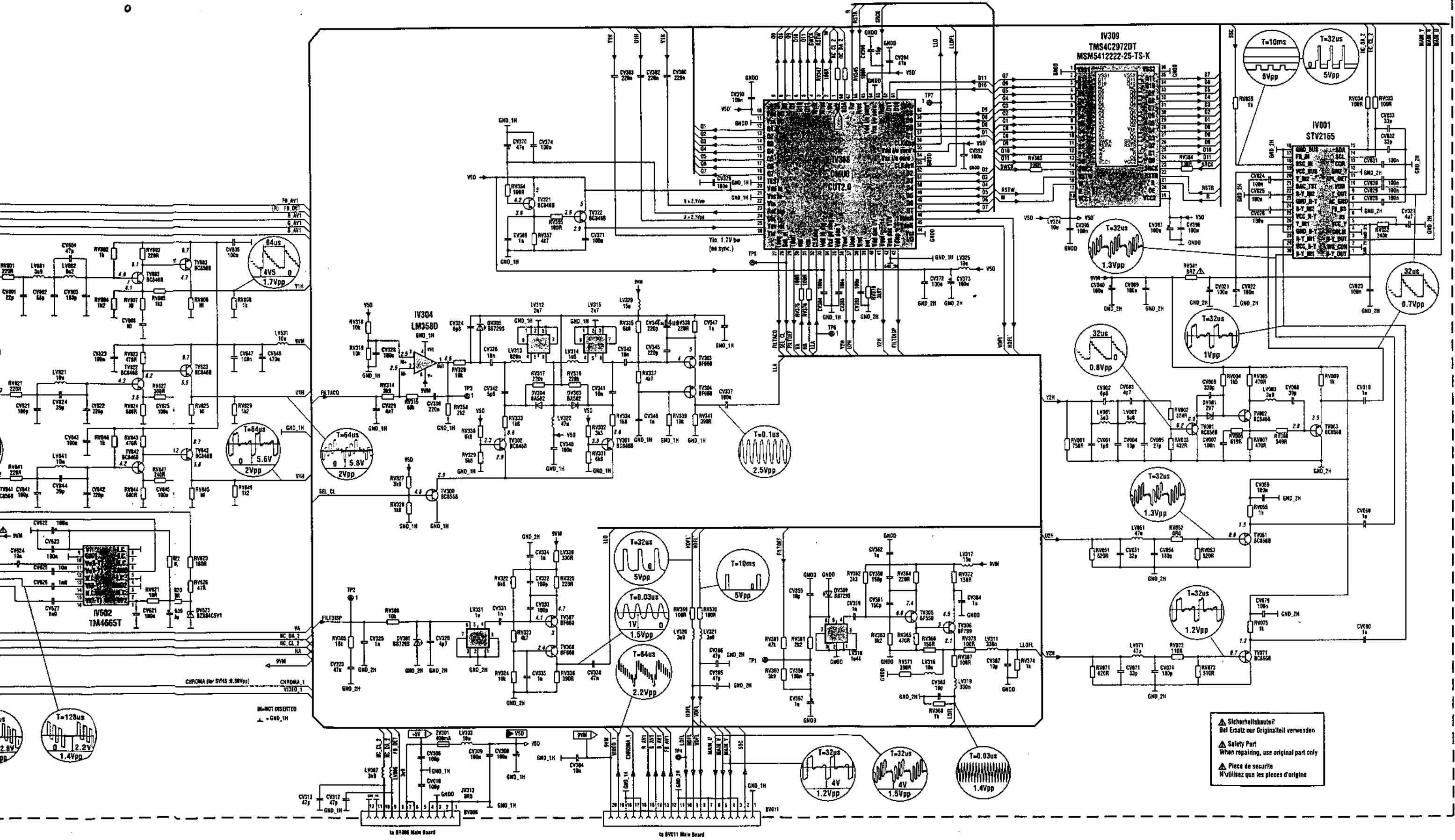




VM.19100.00

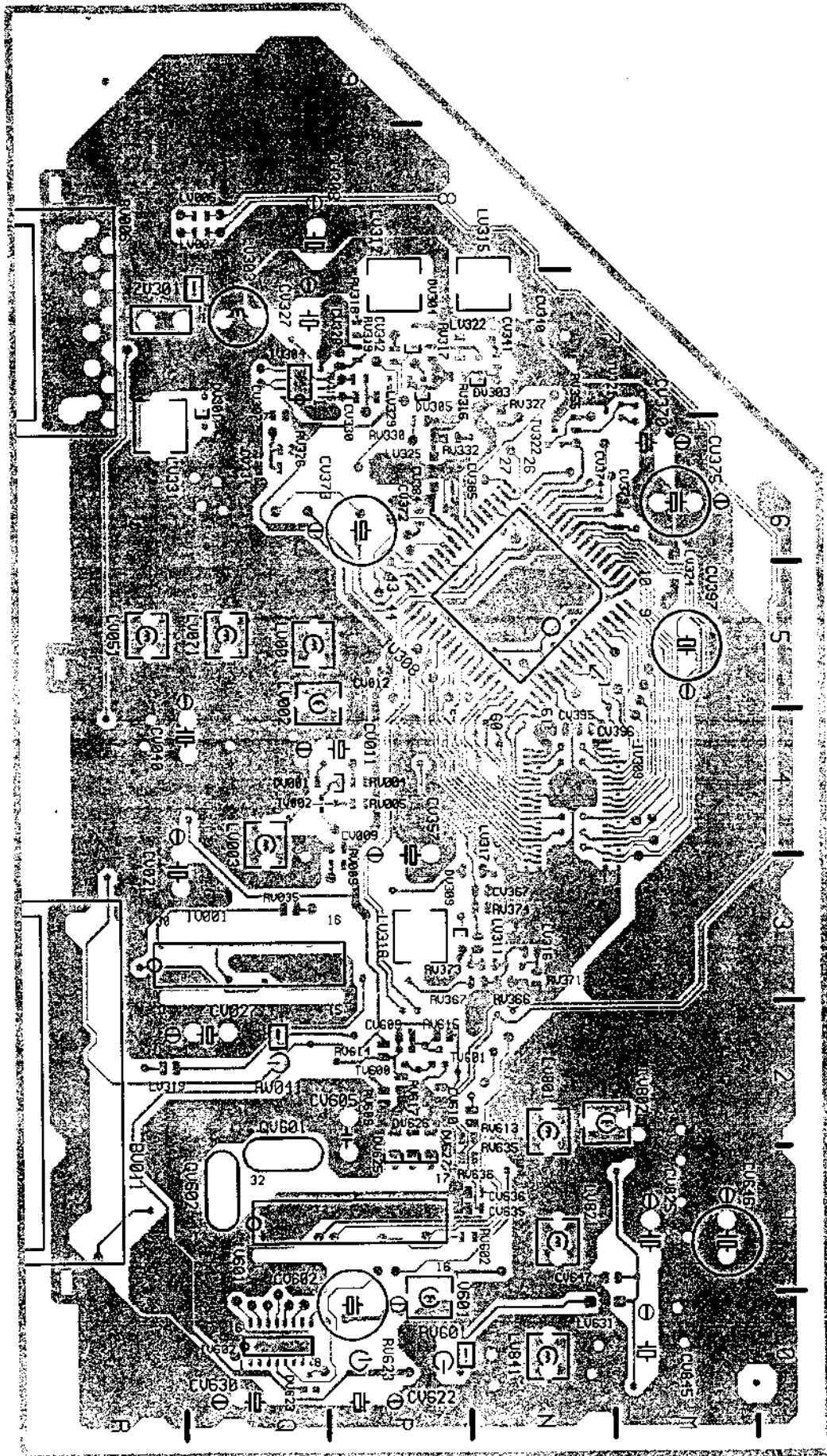
VM



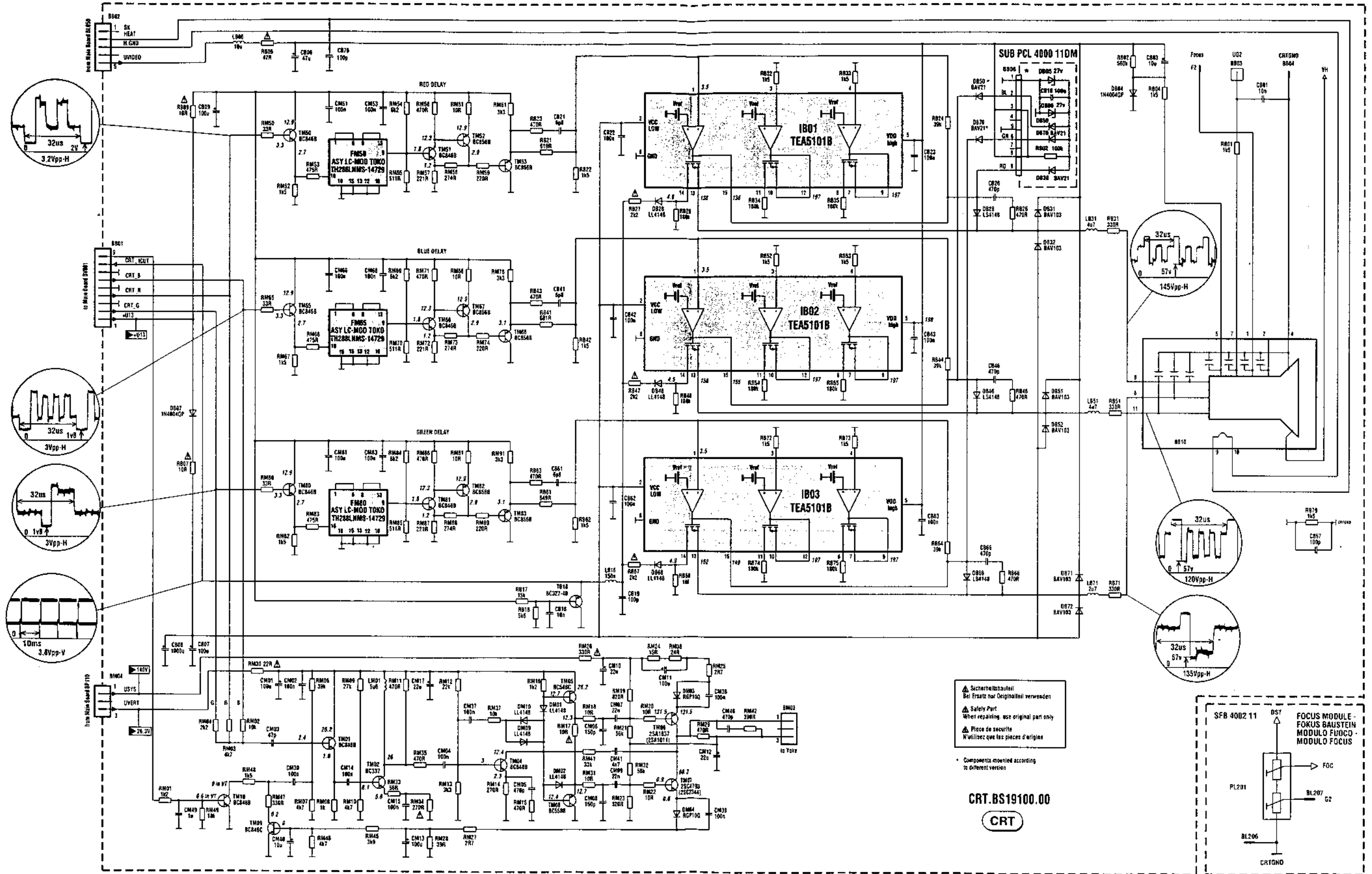


VM19100

COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE
LATO COMPONENTI - LADO COMPONENTES



VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO



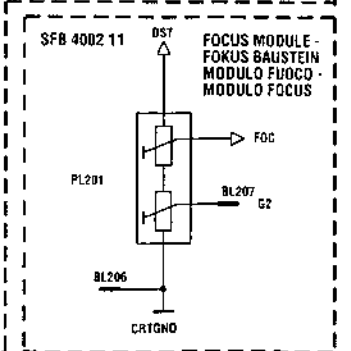
⚠ Sicherheitsbauhinl.
Bei Ersatz nur Originalteile verwenden

⚠ Safety Part
When repairing, use original part only

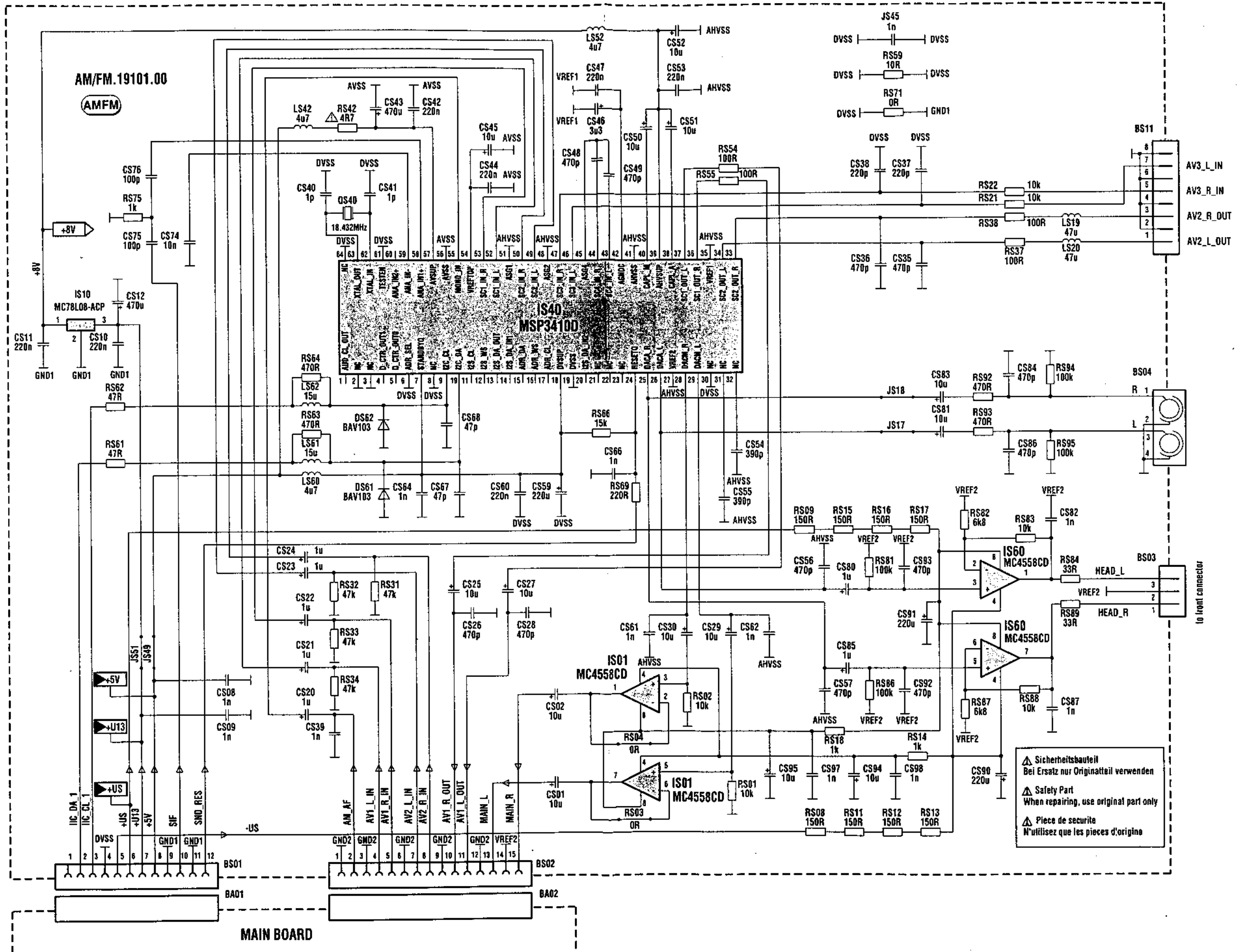
⚠ Piece de securite
N'utilisez que les pieces d'origine

• Components mounted according to different version

CRT BS19100.00
CRT

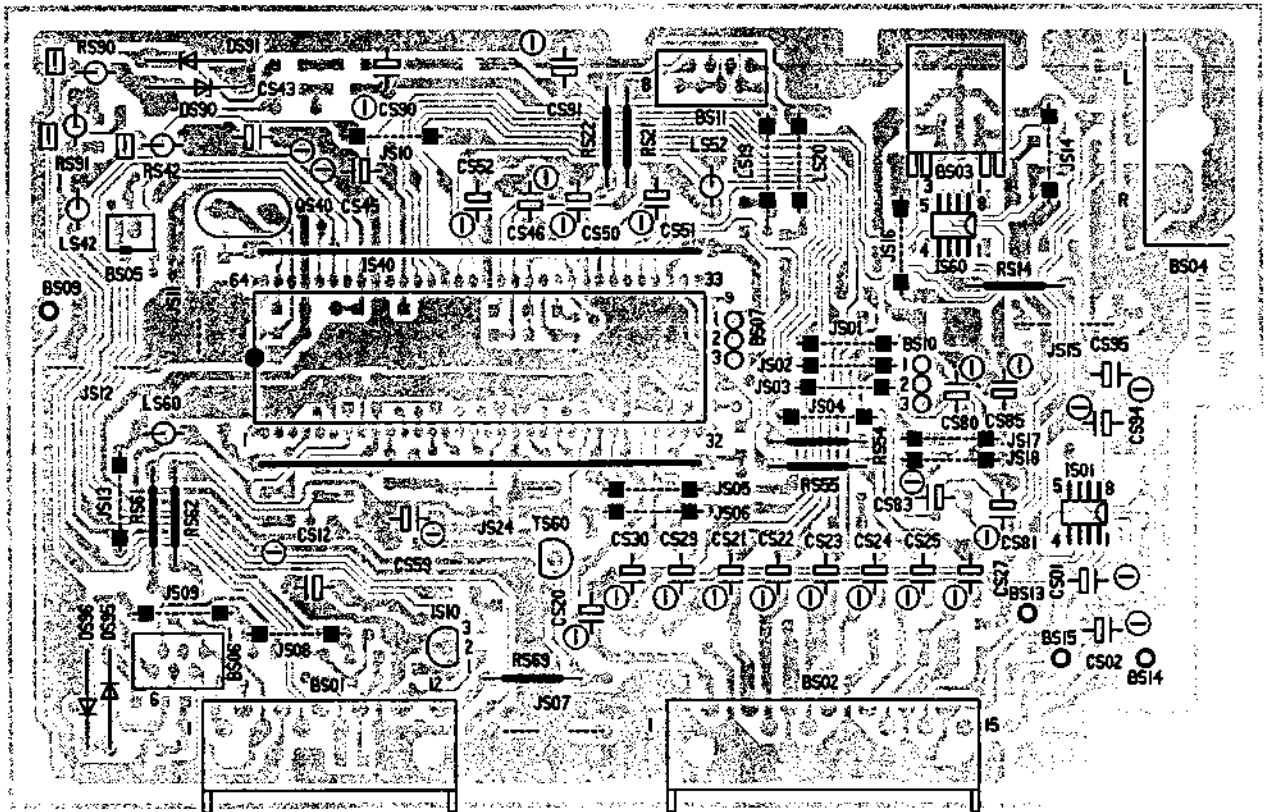


AUDIO SIGNAL MODULE - MODULE AUDIO - TON SIGNAL BAUSTEIN - MODULO AUDIO

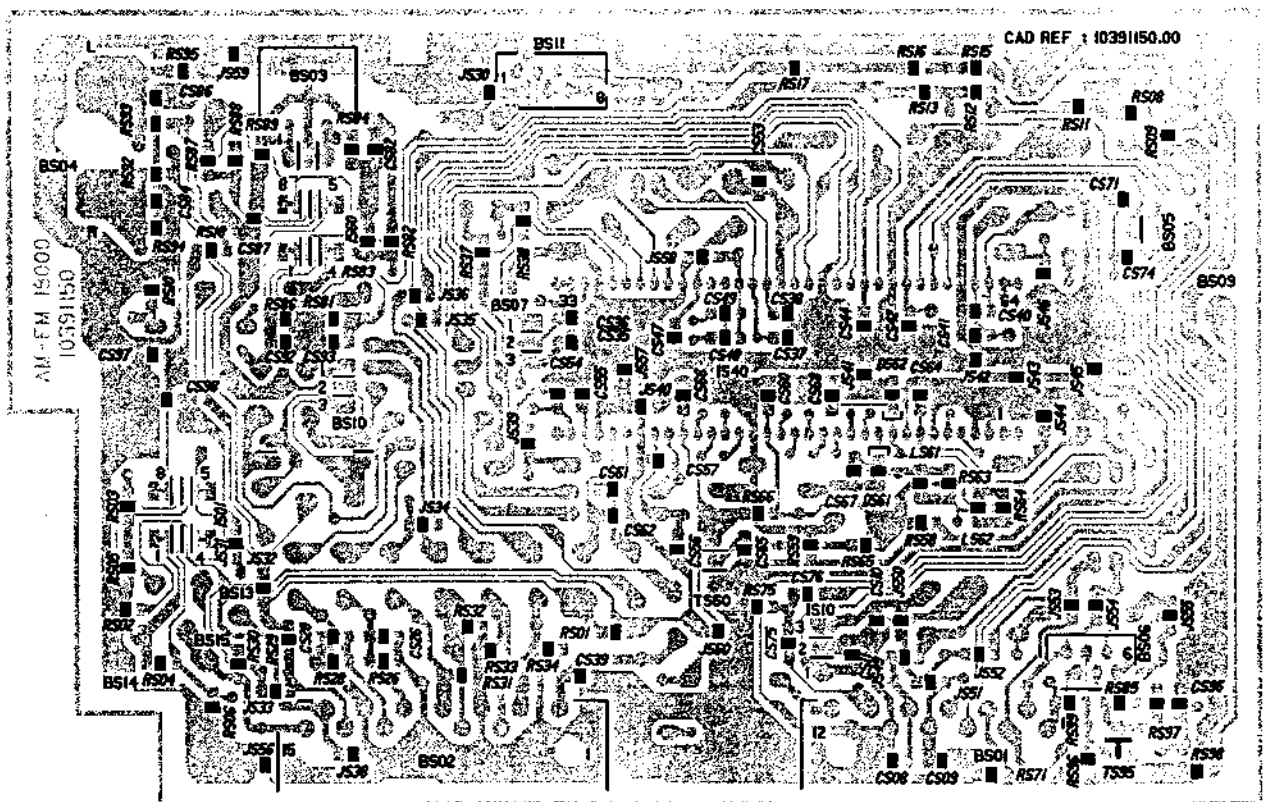


AM FM 19101

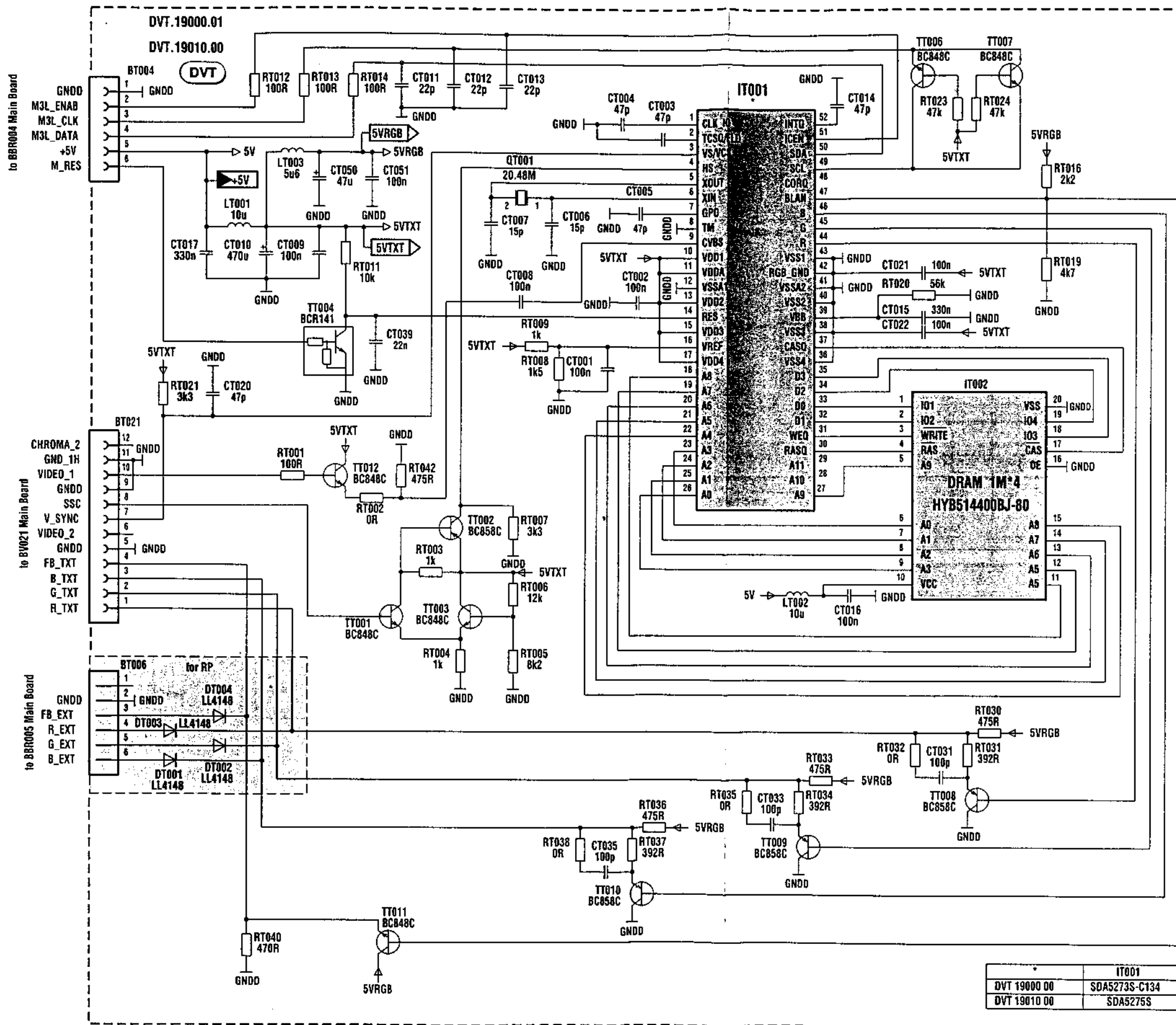
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE
LATO COMPONENTI - LADO COMPONENTES



SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

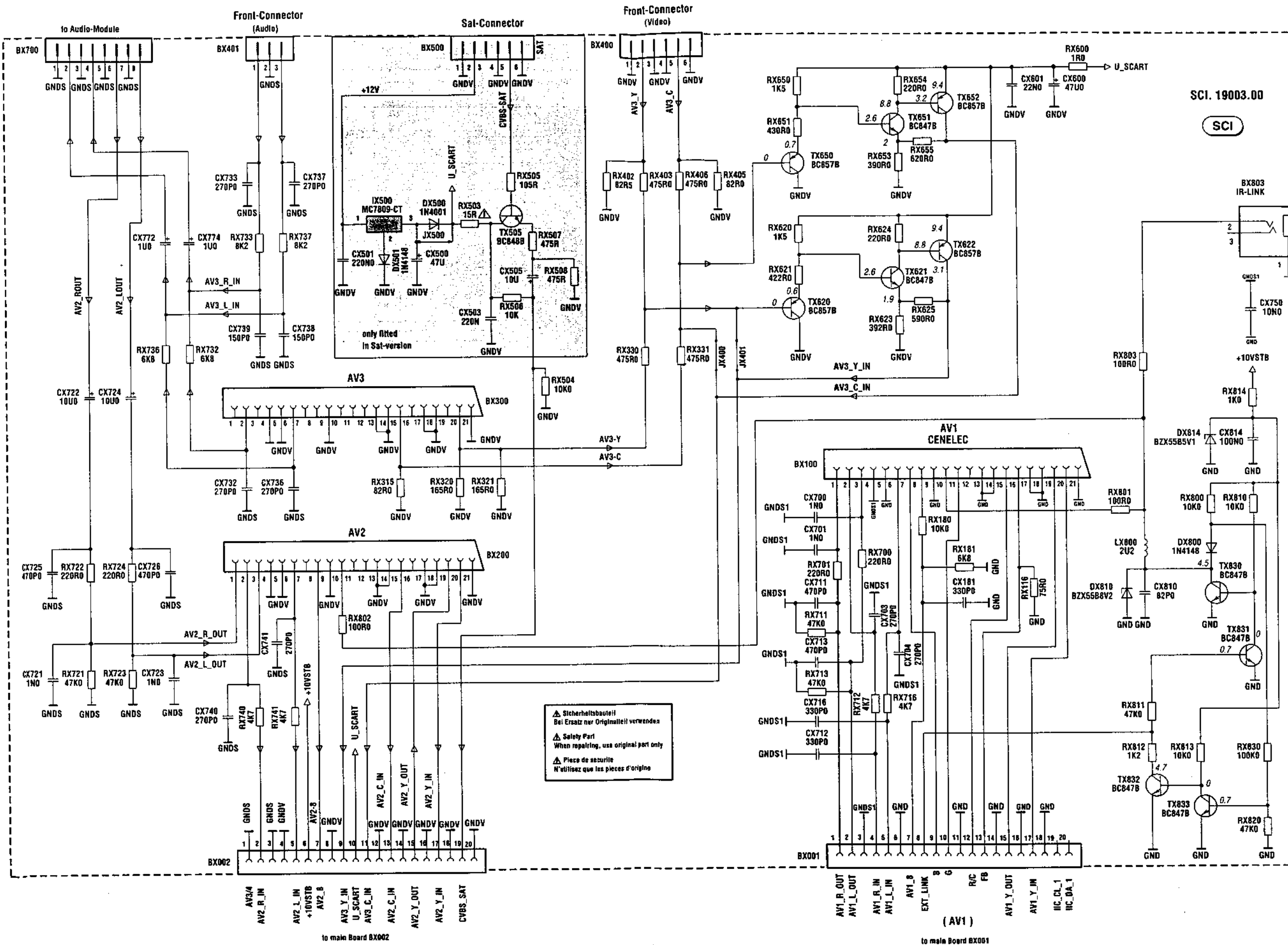


TELETEXT MODULE - MODULE TELETTEXTE - VIDEOTEXT MODUL - MODULO TELEVIDEO - MÓDULO TELETTEXTO

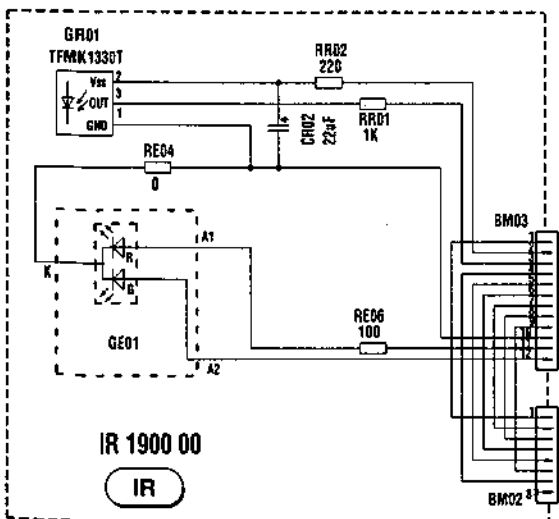
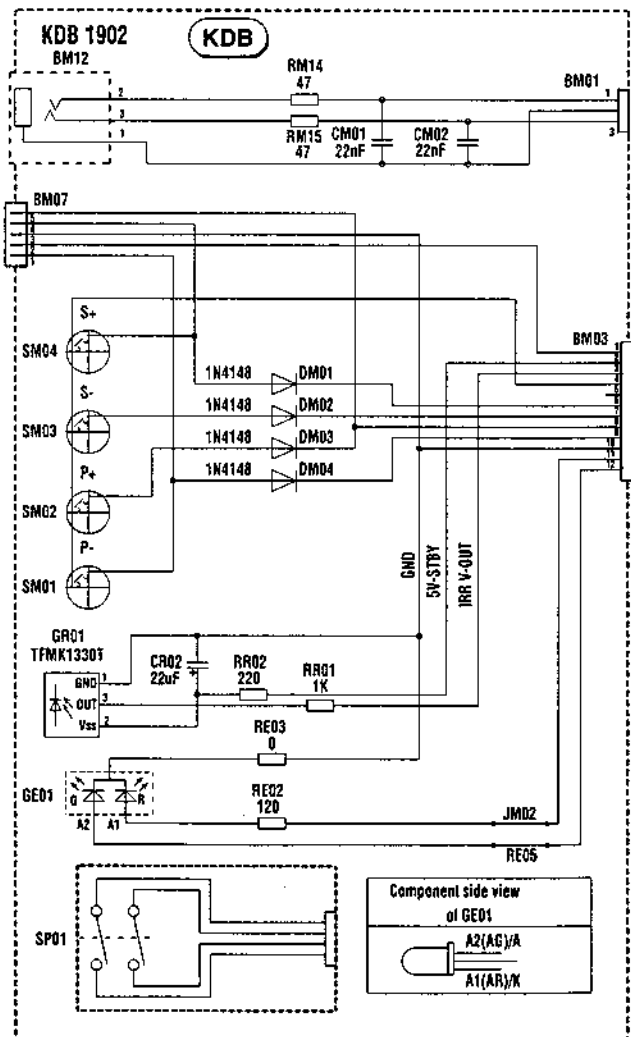
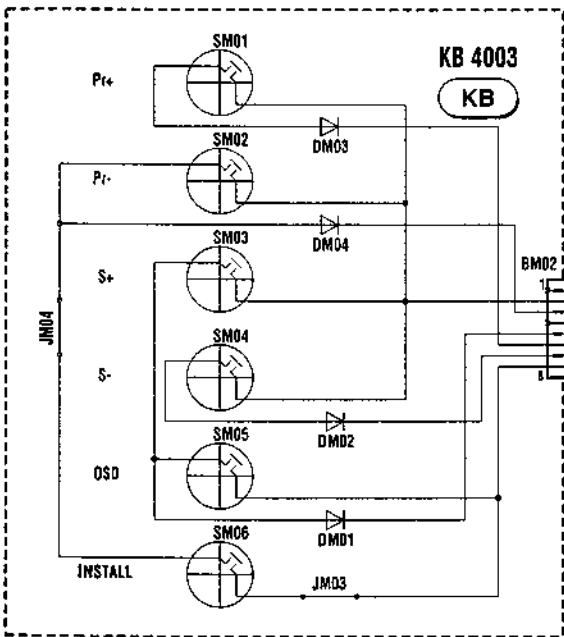
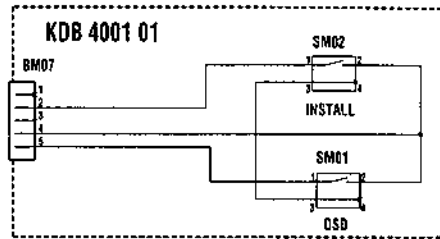
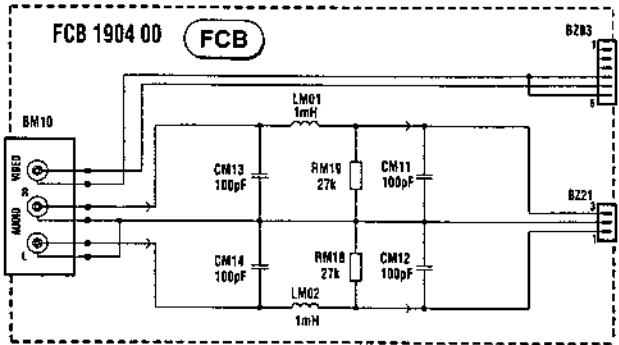
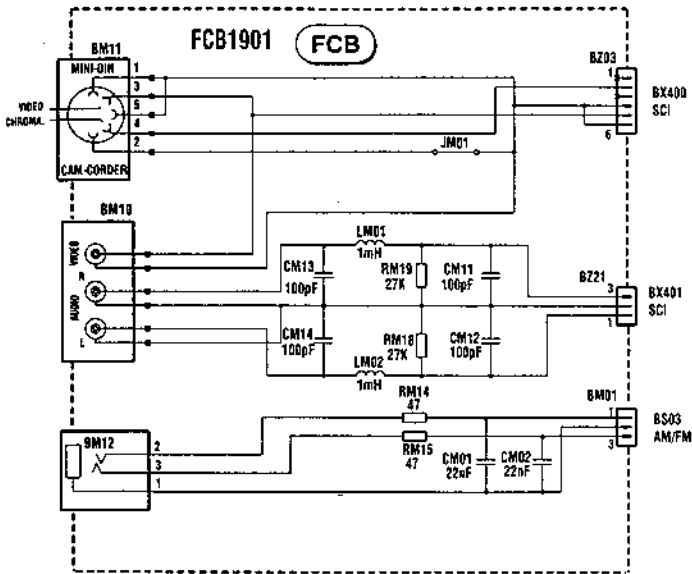


	IT001
DVT 19000 00	SDA5273S-C134
DVT 19010 00	SDA5275S

SCART INTERFACE MODULE - MODULE INTERFACE PERITELEVISION - SCART INTERFACE - MODULO PRESA PERITEL - MODULO EUROTOMA

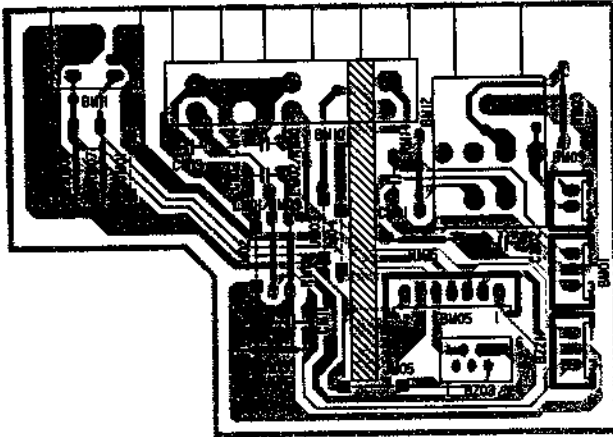


**FRONT CONNECTOR BOARD - PRISES EN FACADE ET INTERCONNEXION DU CLAVIER
- FRONT ANSCHLUSSPLATTE - PIASTRA CONNESSIONE FRONTALE -
PLÁTINA MANDOS FRONTAL**

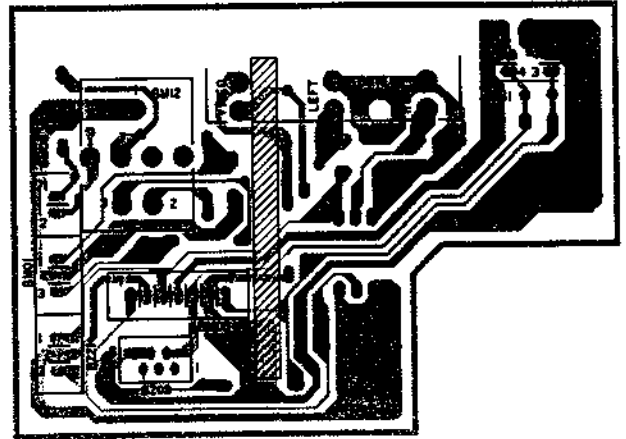


FCB 1901 - FCB 9069

COMPONENT SIDE - COTE COMPOSANTS -
BESTÜCKUNGSSEITE - LATO COMPONENTI
LADO COMPONENTES

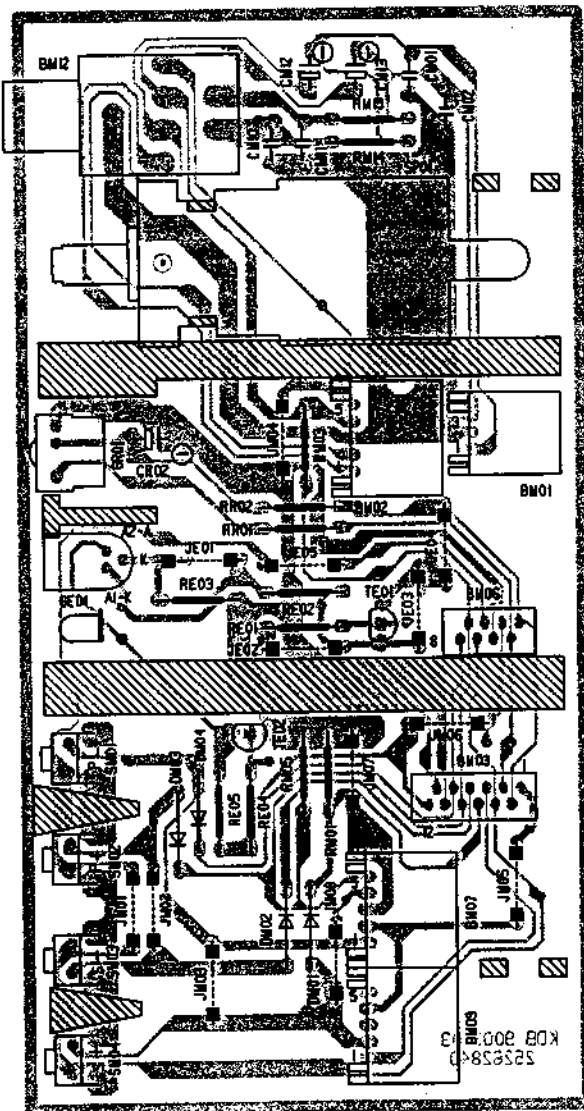


SOLDER SIDE - CÔTE SOUDURES -
LÖTSEITE - LATO SALDATURE -
LADO SOLDADURAS

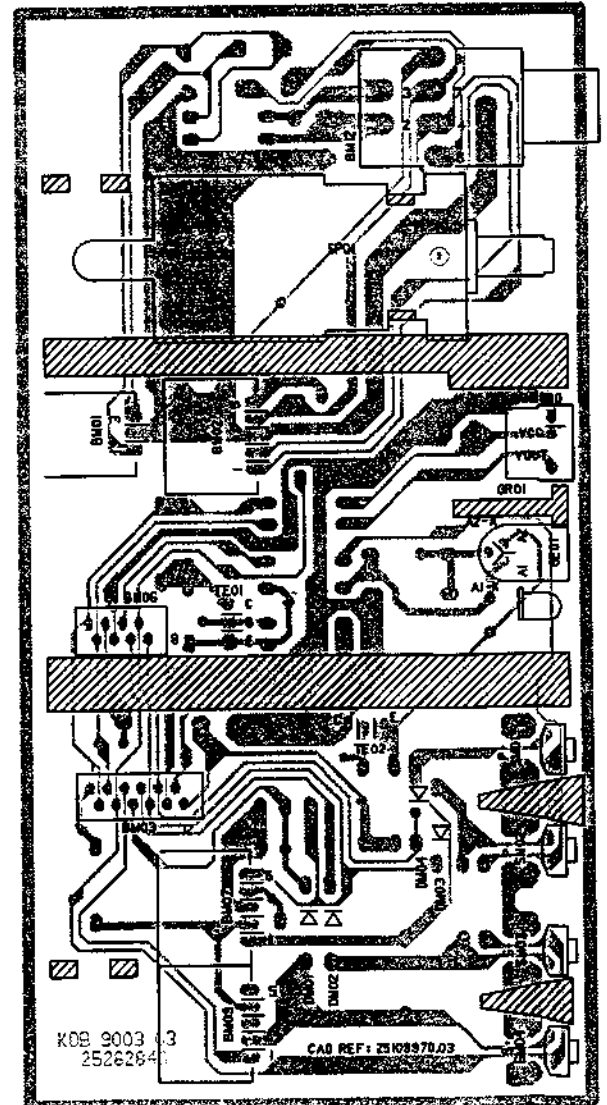


KDB 1902 - KDB 9003

COMPONENT SIDE - COTE COMPOSANTS -
BESTÜCKUNGSSEITE - LATO COMPONENTI
LADO COMPONENTES



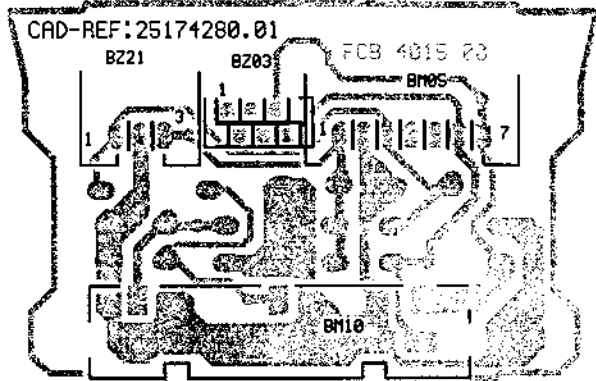
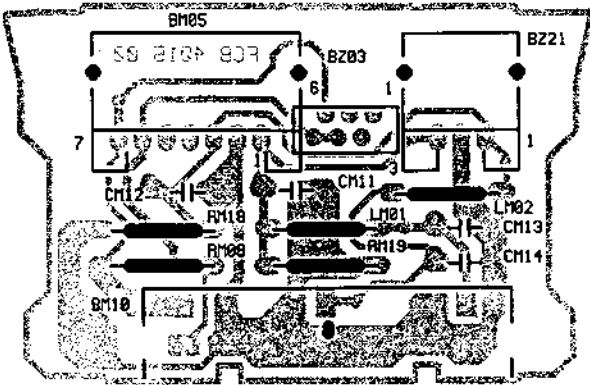
SOLDER SIDE - CÔTE SOUDURES -
LÖTSEITE - LATO SALDATURE -
LADO SOLDADURAS



FCB 1904 - FCB 4015

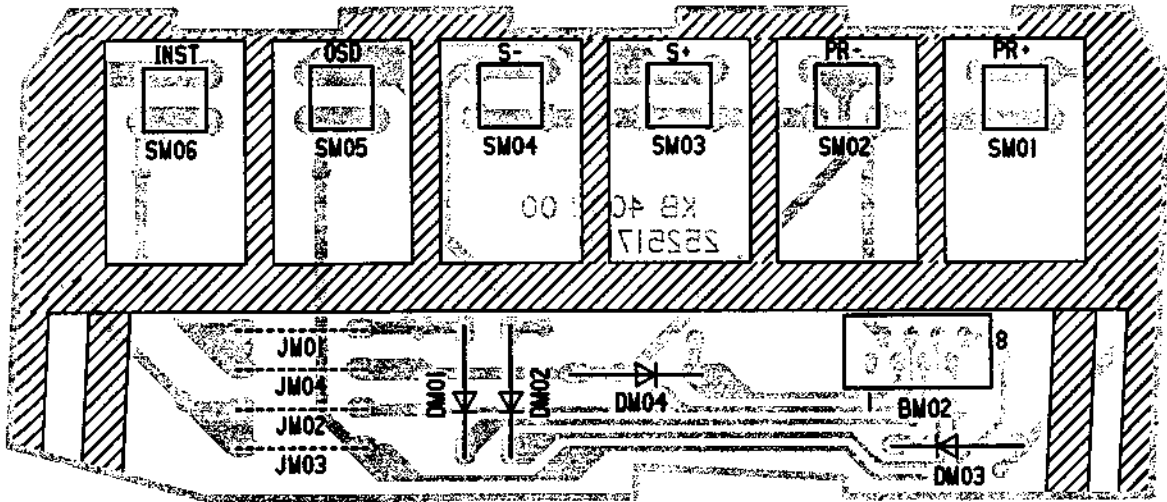
COMPONENT SIDE - COTE COMPOSANTS -
BESTÜCKUNGSSEITE - LATO COMPONENTI
LADO COMPONENTES

SOLDER SIDE - CÔTE SOUDURES -
LÖTSEITE - LATO SALDATURE -
LADO SOLDADURAS

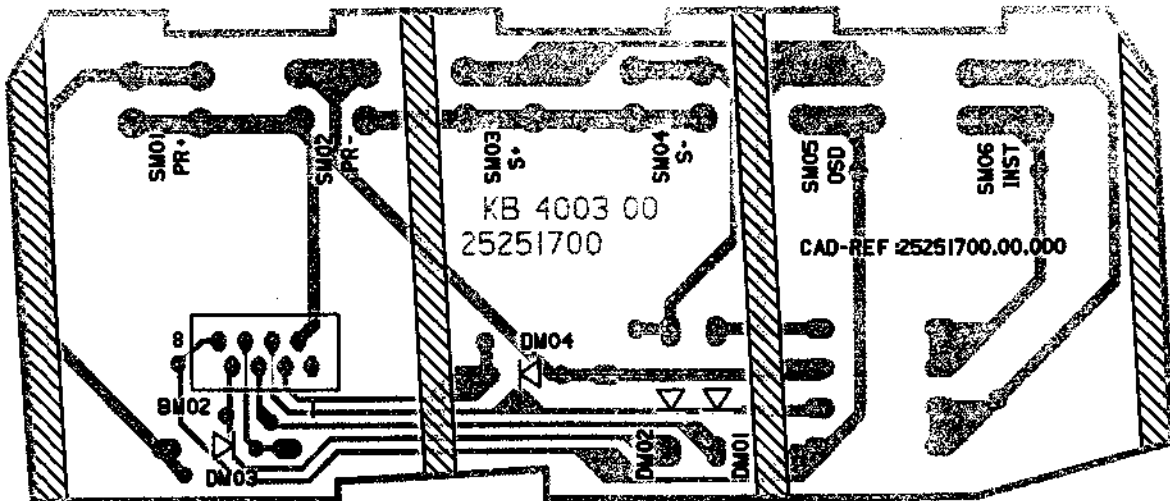


KB4003

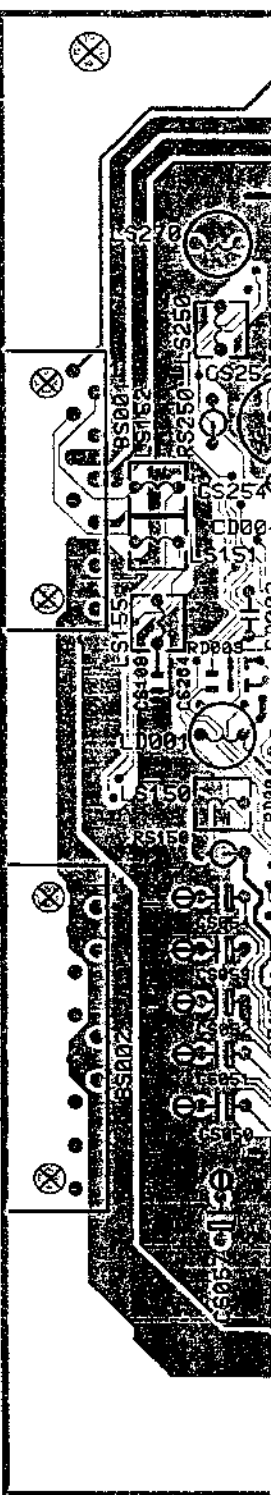
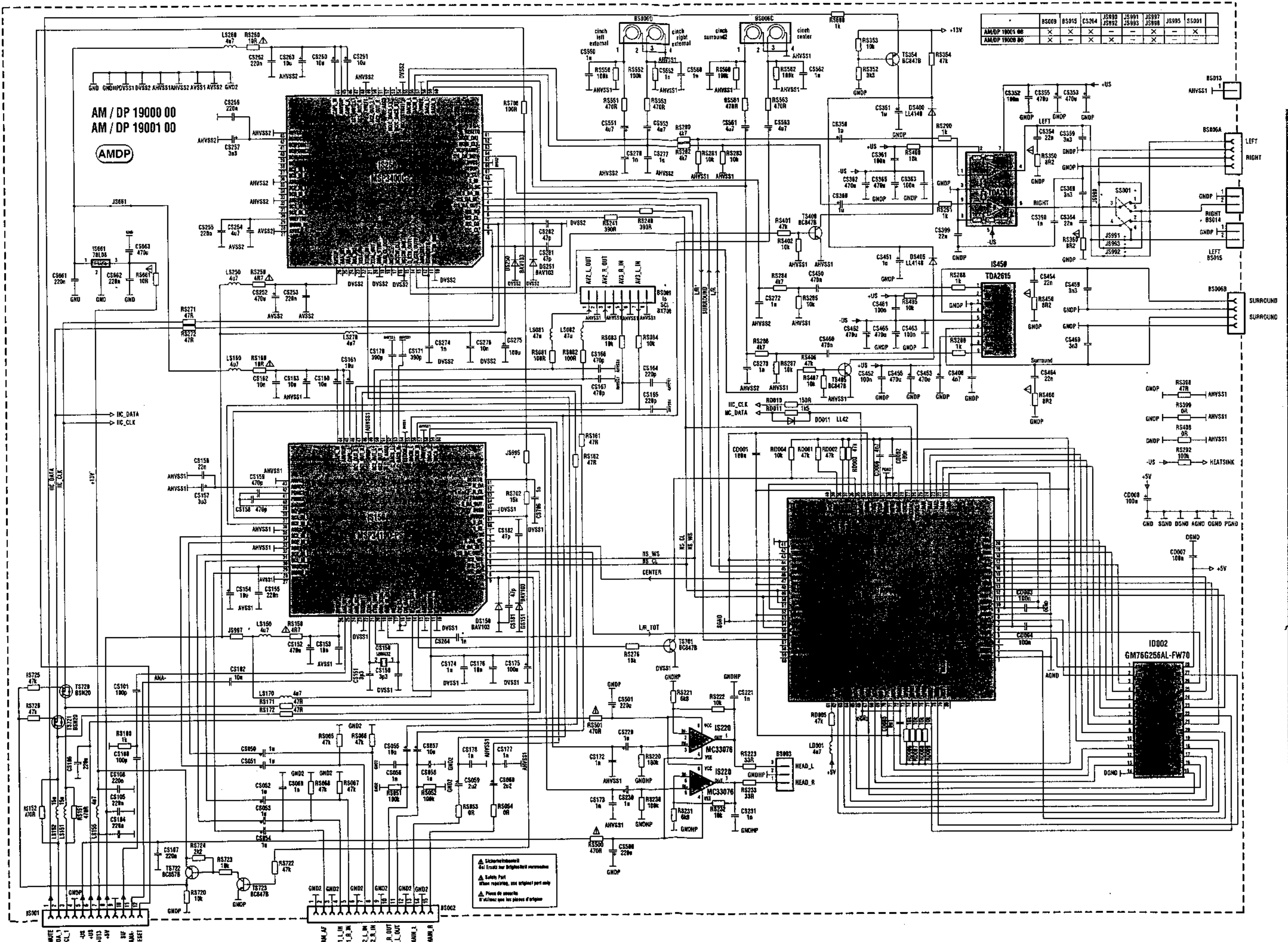
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI
LADO COMPONENTES

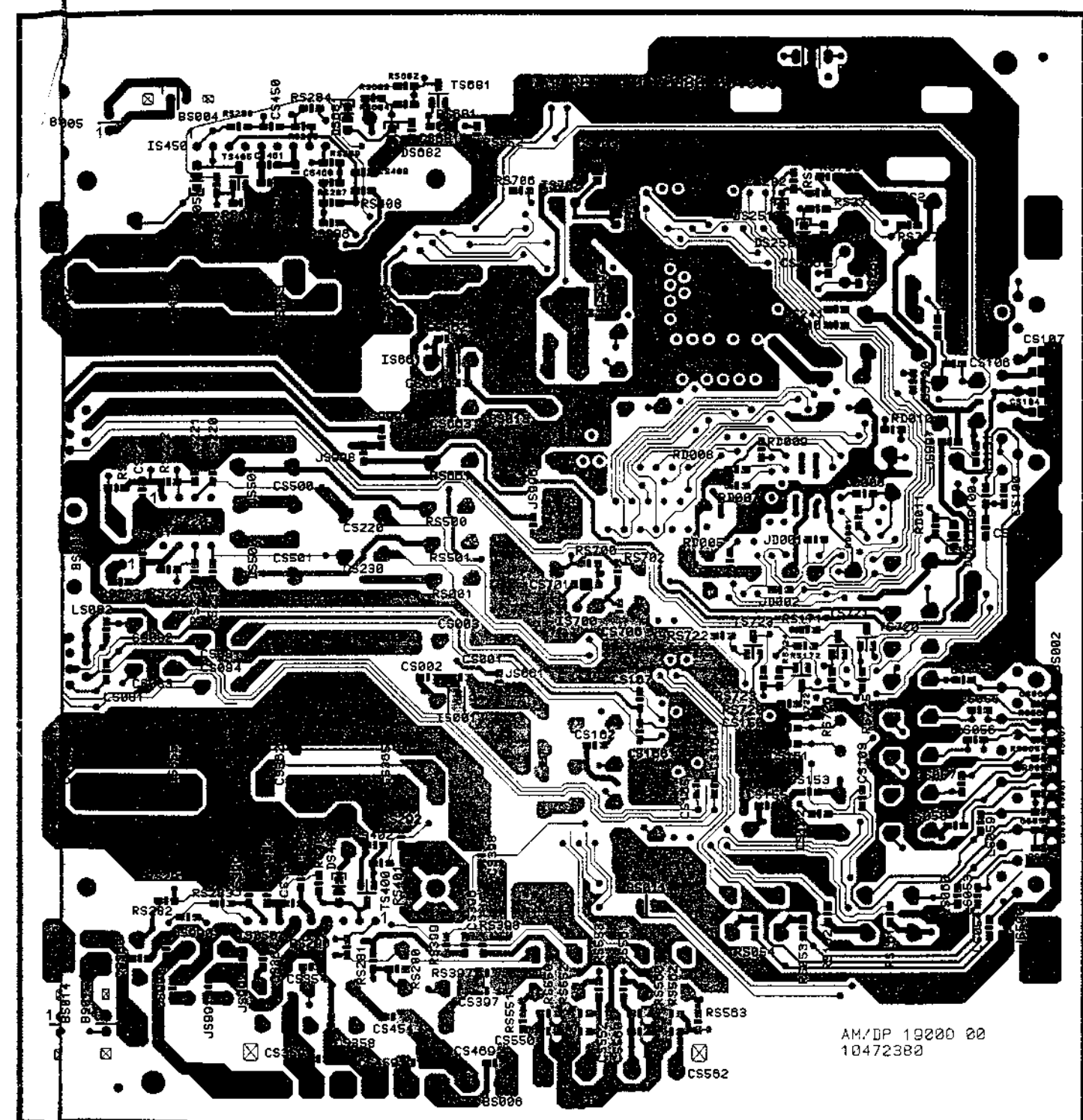
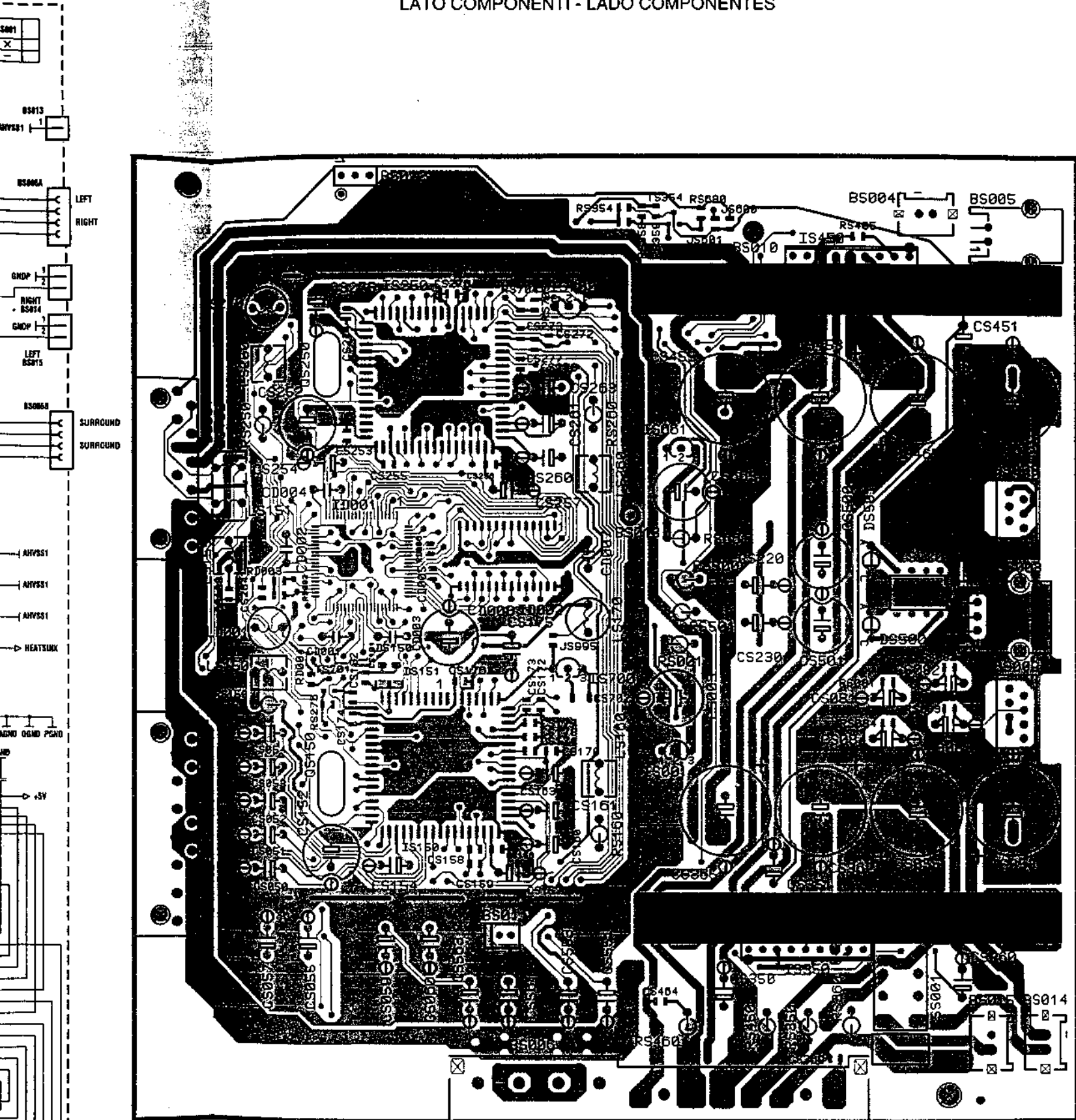


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE -
LADO SOLDADURAS



AUDIO SIGNAL/DOLBY MODULE - MODULE AUDIO/DOLBY - TON SIGNAL/DOLBY BAUSTEIN - MODULO AUDIO/DOLBY - MÓDULO AUDIO/DOLBY

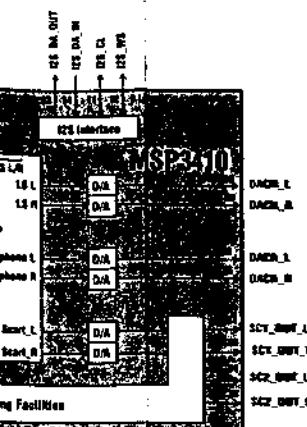




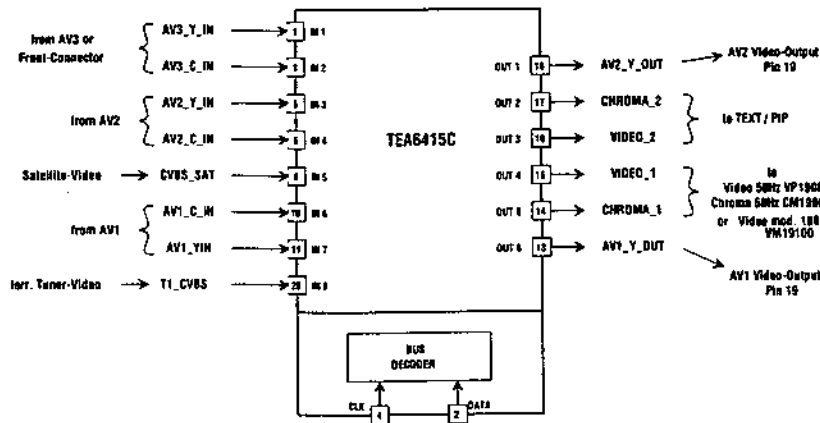
AM/DP 10200 00
 10472380

INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES - INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIlder
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS

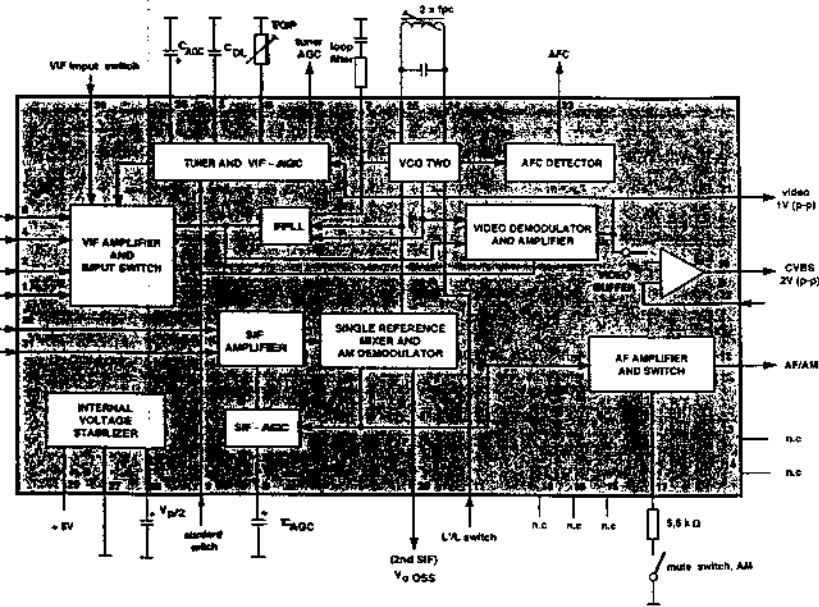
ISP3410



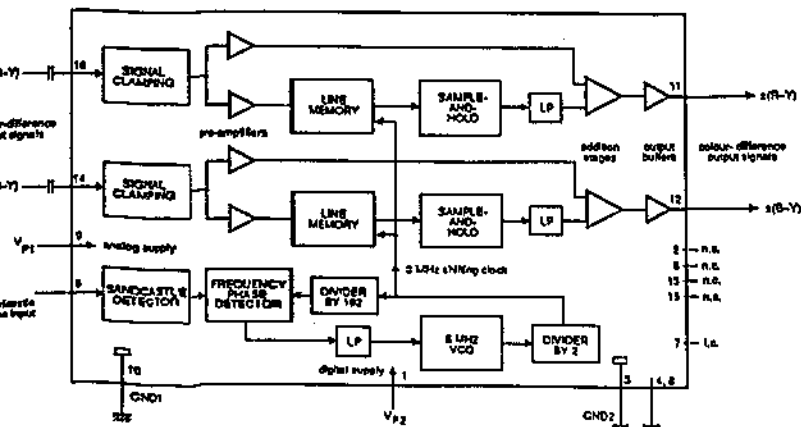
IX900 - TEA6415C



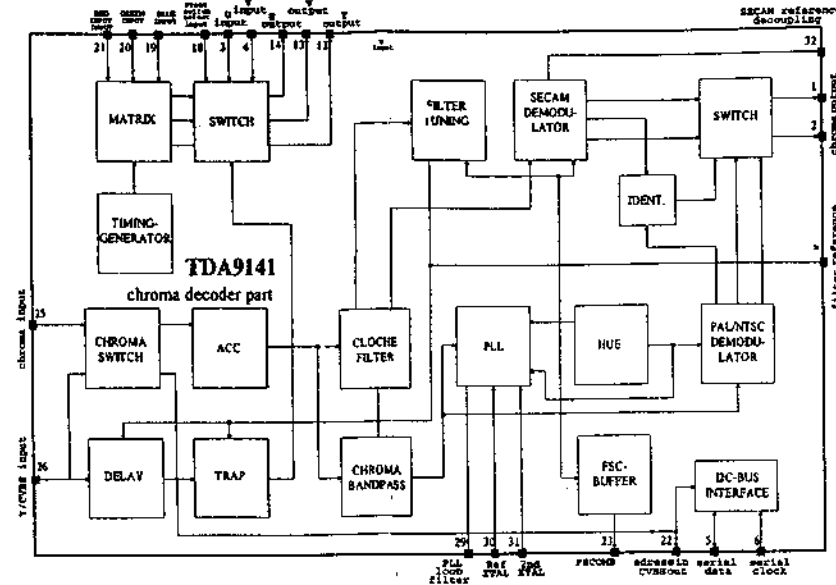
II50 - TDA9811



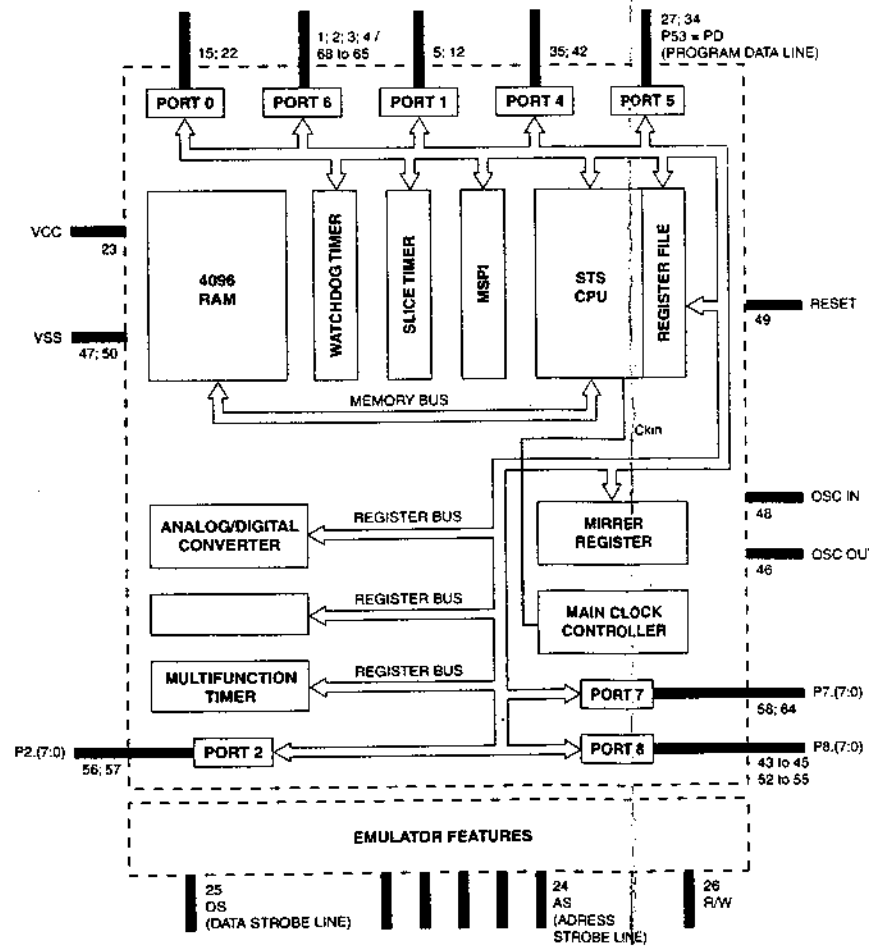
IV602 - TDA4665T



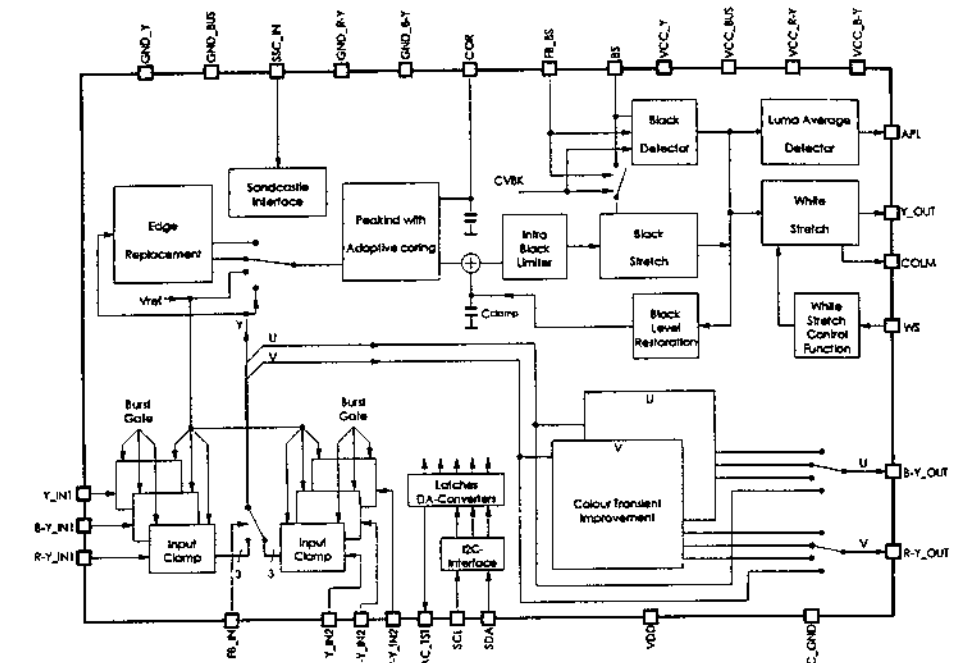
IV601 - TDA9143



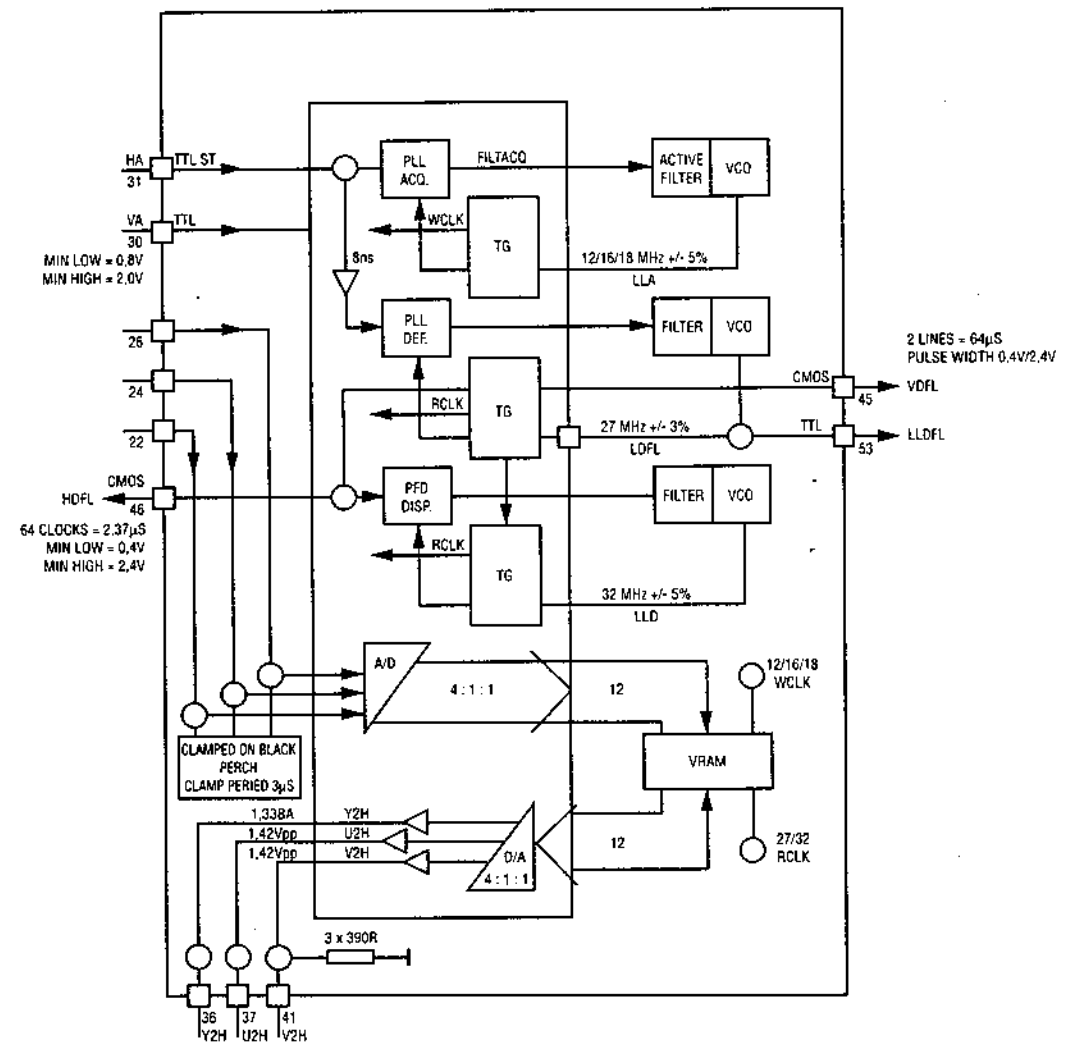
IR01 - ST90R92



IV001 - STV2165



IV308 - DMU0

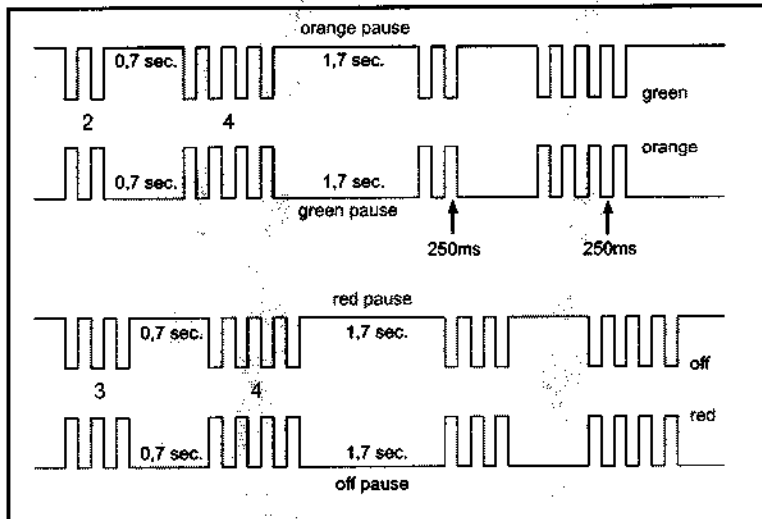


ALLGEMEINE INFORMATIONEN - LED VERHALTEN

LED BLINKZEICHEN

Übermittlung von Informationen
Die Fehler-Codes werden von der roten LED angezeigt.

Zählen Sie die Leuchtimpulse: Sie werden in zwei Blinkfolgen, abgetrennt durch eine Pause von 0,7 sek., eingeteilt und verschiedene Male wiederholt. Zwischen jeweils zwei Codes ist eine Pause von 1,7 sek.



CODES	FEHLER
11	Audio MSP Prozessor antwortet nicht.
12	Zweiter Audio MSP Prozessor antwortet nicht.(Dolby)
13	Audio DSP Prozessor antwortet nicht. (Dolby)
14	IC STV2161/62 antwortet nicht
15	IC STV2151 / TDA9143 antwortet nicht
16	DMU0 Upconverter (Videomodul) antwortet nicht
17	Audio- oder Dolby-modul nicht erkannt
18	TEA6415C antwortet nicht (SCAR T Schalter)
19	Tuner CTT5000 antwortet nicht
21	I2C Bus1 data line ist auf low
22	I2C Bus2 data line ist auf low
23	I2C Bus1 clock line ist auf low
24	I2C Bus2 clock line ist auf low
25	Geschaltete 5V nicht vorhanden
26	Röhre wird nicht rechtzeitig warm
27	Ablenkung meldet 3 mal Fehler. (Problem auf Breathing Leitung)
29	DRAM des Megatext defekt
31	RAM antwortet nicht
32	Ein software-timer wurde angefordert,ist aber noch nicht bereit
33	STV 2165 (PSI 100Hz) antwortet nicht
34	NVM Chip antwortet nicht (X24C32)
35	+13V nicht vorhanden
36	NVM adresse nicht gefunden
37	Unerwarteter Zustand an NMI (Interrupt) line gefunden. (Mögliche Ursache = Röhren-Überschlag")
38	M3L Bus des Megatext blockiert
39	Megatext (SDA 5273) antwortet nicht
41	Bus1 (data line) nicht möglich zu reaktivieren
42	Bus2 (data line) nicht möglich zu reaktivieren
43	MCU (Motion Mastering Up-Converter) antwortet nicht
44	Konvergenz IC (STV2040) antwortet nicht
45	falsches V ideomodul (falscher MCU)
46	NVRAM für Konvergenz antwortet nicht
47	Bildmuster im Konvergenz-IC ist defekt
48	Bildmuster aus dem NVRAM ist defekt
49	Bildrohrtyp "R" ist eigestellt, aber kein Konvergenz-IC gefunden
51	PIP antwortet nicht
52	Falsches Videotextmodul.



ALLGEMEINE INFORMATIONEN

VORGEHENSWEISE

1 - BEIM EINSCHALTEN

Beobachten Sie das Verhalten der 2-farbigen LED: Merken Sie sich das Einschaltverhalten und vergleichen es mit den normalen Zyklen.
Hierdurch kann die Zeit bis der Fehlerzeitpunkt und die zu überprüfende Stufe festgestellt werden.

2 - TROUBLE SHOOTING ABLAUF: LED-VERHALTEN

In bestimmten Fällen leuchtet die LED zum Übertragen einer Fehlerinformation auf:
LED Aufleuchten: Übertragung der Fehlerinformation
Zählen der Fehlerinformation: Kodiert in zwei Impulsbündeln, unterbrochen durch 0,7 s Pause.
Dieses wiederholt sich mehrere Male.

Sehen Sie in der Fehlercodetabelle



Diese Informationen sind genauer als Farbänderungen aber unvollständig, da verschiedene Ursachen denselben Code verursachen.

HINWEIS:

Im Service Mode ist es möglich die letzten Fehler-Codes aufzurufen, die sich in dem Fernsehgerät ereignet haben.

3 - FEHLERSUCHE

Funktionen der Stufen 1 und 2: Messungen mit dem Oszilloskop sind für die beiden separaten Vorgänge durchzuführen.

a - Das Gerät arbeitet ganz oder teilweise:

- Benutzen Sie die LED Informationen der Fehlersuchmethode 1 und 2.
Schauen Sie ebenfalls bei Fehlersuche nach Symptomen nach.

b - Das Fernsehgerät schaltet permanent oder periodisch ab:

- Beobachten Sie das LED-Verhalten (rotes Aufleuchten, konstantes orange gefolgt von Aufleuchten, usw.)

Wählen Sie das zutreffende Kästchen in der Spalte: Fehlersuche durch LED-Verhalten.

INFORMATIONEN

Fernsehgeräte mit dem Chassis ICC19 arbeiten teilweise auch ohne die Module DVT, Sound, CRT, Chroma (50Hz) und VM Video (100Hz).

Dieser Punkt kann hilfreich sein wenn das Videomodul das Gerät in den Schutz-Mode schaltet.

Sehen Sie in die Geräte Konfigurationstabelle



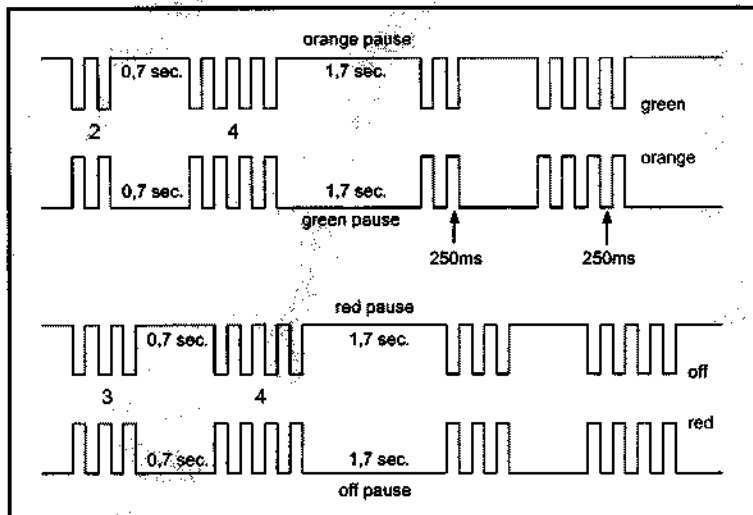
GENERAL INFORMATION - LED BEHAVIOUR

LED FLASHES

Message transmission.
The Error codes are signalled by the RED Standby LED.

Count number of flashes : error code is signalled in two burst separated by a 0.7 s pause and repeated several times.

There is 1.7 s between each code sequence .



CODES	DEFAULT
11	1st Audio_MSP doesn't answer
12	2nd Audio-MSP doesn't answer
13	Audio-DSP doesn't answer
14	Video IC STV2161/2 doesn't answer
15	Chroma IC 2151/9143 doesn't answer
16	Upconverter DMU0 doesn't answer
17	Audio (or Dolby) module not detected
18	SCART IC TEA6415C doesn't answer
19	Tuner CTT5000 doesn't answer
21	I2C Bus1 data line held low
22	I2C Bus2 data line held low
23	I2C Bus1 clock line held low
24	I2C Bus2 clock line held low
25	Switched 5V not available
26	Tube doesn't get warm in time
27	Deflection detects >3 times protection (problem detected on "breathing" line)
29	DRAM memory of Megatext defect
31	RAM is full
32	A Software-timer has been requested, bus is not available yet
33	The PSI chip (STV2165) doesn't answer
34	The NVM (X24C32) chip doesnt answer
35	13V not available
36	Wrong addr. NVRAM passed to the bus-handler
37	Unexpected level on NMI (Interrupt) line found (possible cause : tube flashover)
38	M3LBus for Megatext is blocked
39	Megatext (SDA5273) doesn't answer
41	bus1 Data line not recoverable
42	bus2 Data line not recoverable
43	MCU (Motion Mastering Up-Converter) doesn't answer
44	Convergence IC (STV2040) doesn't answer
45	Defect "Video Module" is detected
46	"Default" NVRAM of DCU doesn't answer
47	Test Pattern chip of DCU defect
48	Test Pattern NVRAM convergence chip defect
49	Convergence module doesn't answer anymore
51	PIP Module doesn't answer
52	The Teletext module is not conform.



GENERAL INFORMATION

METHODOLOGY

1 - SWITCHING "ON" THE TV :

- Observe the behaviour of the two-coloured LED: note the various stages and compare them with the normal cycle of events.
By watching this, the point at which the problem arises and the part of the circuit which needs to be investigated can be identified.

2 - TROUBLE SHOOTING PROCEDURE: LED BEHAVIOUR

In certain cases a flashing LED signifies the transmission of an error code message:

LED flashes : message transmission.

Count the flashes : coded into two bursts separated by a pause of 0.7 s and repeated several times.

See the error code table.



This data is more precise than LED colour changes, however, since various fault conditions generate the same error code the information signalled may be incomplete.

Please Note :

In the service mode, it is possible to consult a record of the last error codes which have occurred in the television set.

3 - FAULT FINDING :

Operation stages 1 and 2: an oscilloscope test is carried out according to two separate processes.

a - The television set operates fully or partially

- Use LED message observation fault finding methods 1 and 2. See also the fault related to fault finding by symptom.

b - The television set goes into permanent or cyclical security mode

- Observe LED behaviour (flashing red, stable orange followed by flashing, etc.).
Select the relevant box in the column (LED behaviour fault finding).

INFORMATION

The ICC19 television will partially operate without the DVT, SOUND, CRT, CHROMA (50 Hz) and VM video (100 Hz) modules removed.

This point may be useful if the video module causes the TV to switch to security mode.

See the television configuration table.



FEHLERSUCHE IM RPC19



- Achtung! Jede der vorgeschlagenen Manipulationen muß bei abgeschaltetem Gerät durchgeführt werden (Hauptnetzschalter aus).
- Alle Arbeiten, die bei eingeschaltetem Gerät durchgeführt werden, können Bauteile zerstören!
- Einen Trenntrafo verwenden.

Überprüfung der digitalen Konvergenzeinheit

- Der IC sollte eine ordnungsgemäße 5-V-Versorgung besitzen.
- PWAT Pin 26 von IK01 muß $> +4$ V sein, andernfalls bleibt der IC im Reset.
- Die $+15$ V-Versorgung von PS muß anliegen und > 15 V sein.
- H- und V-Synchronisierung müssen an Pin 22 und Pin 23 von IK01 anliegen.
- Am Pin 40 (REFO) muß $+1$ V anliegen.
- An den Pins DABV, DAGV und DARV (43, 44 und 45) von IK01 muß $+1$ V anliegen.
- An den Pins DABH, DAGH und DARH (49 und 50) von IK01 muß $+1$ V anliegen.
- Am Pin 14 (ECL1) von IK01 muß ein 8,5 MHz-Takt anliegen.

Überprüfen des Konvergenznetztes

Arbeiten an einem defekten Gerät sind nur mit einem **Trennnetztransformator** zulässig. Wenn kein Konvergenzbild am Bildschirm angezeigt wird, so können die Konvergenznetzteil für sich prüfen.

Führen Sie folgende Schritte durch:

1. Netz ausschalten.
2. Die Verbindung von BP260 zwischen der DCU-Platine und der Konvergenzspannungsquelle abziehen.
3. Einen Widerstand von 270R/10W zwischen $+15$ V und -15 V anschließen (zum Beispiel zwischen die Kathode von DP267 und der Anode von DP265).
4. Den Kollektor und den Emitter von TP238 miteinander verbinden.
5. Netz einschalten.

Name / Position	DC-Wert (V)
CP210	298,0
DP213	33,2
CP240	16,9
CP243	-25,4
CP233	15,3
Pin 5 von IP250	30,3
Pin 4 von IP250	0,0
Kollektor von TP233	0,9
CP268	14,9
CP266	-14,9
CP262	58,7
CP264	57,9
GE271	0,0
DCU_SAFE	0,0
RP271	0,0
Pin 1 von TP250	0,0
CP210	298,0

TROUBLESHOOTING RP C19



- All of the following tests must be carried out with the MAINS switched OFF.
- Any operations carried out with the MAINS switched ON may lead to components being destroyed.
- Use isolating mains transformer.

DIGITAL CONVERGENCE UNIT CHECK

- IC should have correct +5V supply
- PWAT pin 26 of IK01 must be $> +4V$ otherwise the IC is kept in reset.
- The + -15V from the PS must be present and $> 40V$
- H and V sync must be present pin nr. 22 and 55 of IK01
- at the pin REFO nr. 40 +1V must be present
- at the pins DABV, DAGV, DARV, nr.43, 44 and 45 of IK01 +1V must be present
- at the pins DABH, DAGH, DARH nr.48, 49 and 50 of IK01 +1V must be present
- at the pin ECLK nr. 14 of IK01 a 8.5Mhz clock must be present

DIGITAL CONVERGENCE UNIT POWER SUPPLY TROUBLESHOOTING

If you have not a convergence picture on the screen it's possible to check the convergence power supply for itself.

Do the following steps.

1. Switch off the mains.
2. Remove the connection of BP260 between the DCU board and the convergence power supply.
3. Connect a resistor of 270R/10W between +15V and -15V. For examplee cathode of DP267 and anode of DP265.
4. Make a short circuit between collector and emitter of TP 238.
5. Switch on the mains.

Name / Position	DC value / V
CP210	298.0
DP213	33.2
CP240	16.9
CP248	25.4
CP233	15.3
Pin 5 of IP250	30.3
Pin 4 of IP250	0.0
Collector of TP233	30.9
CP268	41.9
CP266	-14.0
CP262	58.7
CP264	57.9
CP271	0.0
DCU_SAFE	0.0
RP271	0.0
Pin 1 of TP250	0.0
GP210	298.0

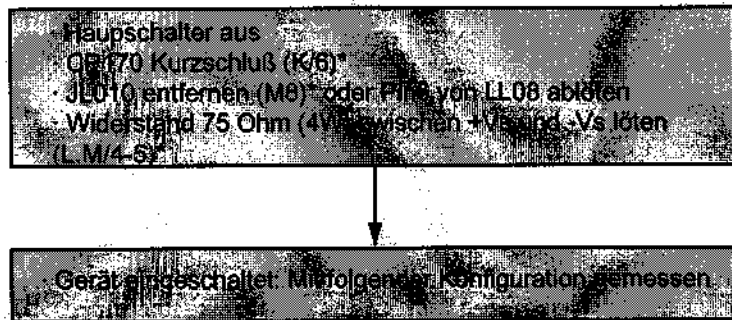
ÜBERPRÜFEN DER STROMVERSORGUNG UND AUFFINDEN EINES SCHUTZSCHALTUNGSFEHLERS



Achtung! Jede der vorgeschlagenen Manipulationen muss bei abgeschaltetem Gerät durchgeführt werden (Hauptnetzschalter aus).

Alle Arbeiten, die bei eingeschaltetem Gerät durchgeführt werden, können Bauteile zerstören!

Für die Analyse von Schutzschaltungsproblemen kann folgende Konfiguration verwendet werden. In diesem Zustand arbeitet die Stromversorgung in normalem Regelzyklus, jedoch ohne Ablenkung und ohne Schutzschaltungsinformationen, damit der Grund für Probleme gefunden werden kann.



U Syst:	50 Hz 131V	50Hz 132	50Hz 137V	100Hz 134V	100 Hz 137V	100 Hz 140V
Usyst (P/5)* (V+/-5V)	131.5	133	138	134.3	141	140
U vert / CP130 (P/4)* (V)	13	14.2	14.2	12.7	12.8	11.8
+Us / -Us (L/5-4)* (V)	6.4	6.4	6.4	8	8.3	6
7V / CP140 (J/3-4)* (V)	4.3	8.6	8.6	6.8	7.4	6.4
10V SBY/ K DP133 (N/5)* (V)	10.6	11.2	11.2	10.2	10.4	9.3
Vcc1 / 44-IV001 (J/7)* (V)	7.8	7.9	7.9	7.9	7.9	7.8
UVFB / K DL043 (K/8)* (V)	13.3	14.5	14.5	12.7	12.8	11.1
13V / CL042 (J/8)* (V)	0	0	0	0	0	0
200V / CL046 (P/6)* (V)	0	0	0	0	0	1.1
5V / CP143 (H/3)* (V)	0	0	0	0	0	0.2

(*) Lage des Bauelements

Schaltbild nur von der Schutzschaltung.



POWER SUPPLY CHECK AND FIND «PROT» FAILURE

All of the following tests must be carried out with the MAINS switched OFF.
 Any operations carried out with the MAINS switched ON may lead to components being destroyed.

to analyse a «PROT» fault condition it is possible to use the following test configuration.
 In this configuration the power supply will be working with its normal regulation loop, the deflection stage and any "PROT" information is disabled in order to locate the cause of the problem.

MAINS switched OFF
 - GND short-circuited (K/8)
 - J010 removed (N/8)* or disconnect Pin 6 of DS14L08
 - Connect a R= 75 Ohms (4W) between +Vs and -Vs (L/M/2)

- Switch «ON» TV - Measure the following voltages

U Syst :	50 Hz 131V	50Hz 132	50Hz 137V	100Hz 134V	100 Hz 137V	100 Hz 140V
Usyst (P/5)* (V+/-5V)	131.5	133	138	134.3	141	140
U vert / CP130 (P/4)* (V)	13	14.2	14.2	12.7	12.8	11.8
+Us / -Us (L/5-4)* (V)	6.4	6.4	6.4	8	8.3	6
7V / CP140 (J/3-4)* (V)	4.3	8.6	8.6	6.8	7.4	6.4
10V SBY/ K DP133 (N/5)* (V)	10.6	11.2	11.2	10.2	10.4	9.3
Vcc1 / 44-IV001 (J/7)* (V)	7.8	7.9	7.9	7.9	7.9	7.8
UVFB / K DL043 (K/8)* (V)	13.3	14.5	14.5	12.7	12.8	11.1
13V / CL042 (J/8)* (V)	0	0	0	0	0	0
200V / CL046 (P/6)* (V)	0	0	0	0	0	1.1
5V / CP143 (H/3)* (V)	0	0	0	0	0	0.2

(*) Components location

ALLGEMEINE INFORMATIONEN

VORGEHENSWEISE

1 - BEIM EINSCHALTEN

Beobachten Sie das Verhalten der 2-farbigen LED: Merken Sie sich das Einschaltverhalten und vergleichen es mit den normalen Zyklen.
Hierdurch kann die Zeit bis der Fehlerzeitpunkt und die zu überprüfende Stufe festgestellt werden.

2 - TROUBLE SHOOTING ABLAUF: LED-VERHALTEN

In bestimmten Fällen leuchtet die LED zum Übertragen einer Fehlerinformation auf:
LED Aufleuchten: Übertragung der Fehlerinformation
Zählen der Fehlerinformation: Kodiert in zwei Impulsbündeln, unterbrochen durch 0,7 s Pause.
Dieses wiederholt sich mehrere Male.

Sehen Sie in der Fehlercodetabelle



Diese Informationen sind genauer als Farbänderungen aber unvollständig, da verschiedene Ursachen denselben Code verursachen.

HINWEIS:

Im Service Mode ist es möglich die letzten Fehler-Codes aufzurufen, die sich in dem Fernsehgerät ereignet haben.

3 - FEHLERSUCHE

Funktionen der Stufen 1 und 2: Messungen mit dem Oszilloskop sind für die beiden separaten Vorgänge durchzuführen.

a - Das Gerät arbeitet ganz oder teilweise:

- Benutzen Sie die LED Informationen der Fehlersuchmethode 1 und 2.

Schauen Sie ebenfalls bei Fehlersuche nach Symptomen nach.

b - Das Fernsehgerät schaltet permanent oder periodisch ab:

- Beobachten Sie das LED-Verhalten (rotes Aufleuchten, konstantes orange gefolgt von Aufleuchten, usw.)

Wählen Sie das zutreffende Kästchen in der Spalte: Fehlersuche durch LED-Verhalten.

INFORMATIONEN

Fernsehgeräte mit dem Chassis ICC19 arbeiten teilweise auch ohne die Module DVT, Sound, CRT, Chroma (50Hz) und VM Video (100Hz).

Dieser Punkt kann hilfreich sein wenn das Videomodul das Gerät in den Schutz-Mode schaltet.

Sehen Sie in die Geräte Konfigurationstabelle



BEHAVIOUR OF ICC19 WITHOUT CERTAIN MODULES ARE FITTED OR REMOVED

CONFIGURATION				ERROR CODE	ALL VOLTAGES	Signal at pin 19 BV011	Signal at pin 2-4-6 BV001	picture
VM	AM-FM	DVT	CRT					
without	without	without	without (1)	17	ok (1)	no	no	no
with	without	without	without (1)	17	ok (1)	no	no	no
with	with	without	without (1)	39	ok (1)	no	no	no
with	with	with	without (1)	26	ok (1)	ok	no	no
with	without	with	with	17	ok	ok	ok	ok
with	with	without	with	39	ok	ok	ok	ok (2)
without	with	with	with	15	ok	noise	pulse 100Hz	no

(1) : If the CRT is not connected, the voltage across CL046 will increase up to 250V instead 202V, this is due to the lack of a discharge path. Before to reconnecting BL050 and BP110 it is **imperative to discharge** CL046 with a resistor (22k or 33k).

(2) : In this case, the picture will only be visible after 1mn.



VERHALTEN DES CHASSIS ICC19 MIT EINZELNEN GEZOGENEN MODULEN ODER KOMPLETT OHNE MODULE

KONFIGURATION				FEHLER CODE	ALLE SPANNUNGEN	Signal an Pin 19 BV011	Signal an Pin 2-4-6 BV001	Bild
VM	AM-FM	DVT	CRT					
ohne	ohne	ohne	ohne (1)	17	ok (1)	nein	nein	nein
mit	mit	ohne	ohne (1)	17	ok (1)	nein	nein	nein
mit	mit	ohne	ohne(1)	39	ok (1)	nein	nein	nein
mit	mit	mit	ohne (1)	26	ok (1)	ok	nein	nein
mit	ohne	mit	mit	17	ok	ok	ok	ok
mit	mit	ohne	mit	39	ok	ok	ok	ok (2)
ohne	mit	mit	mit	15	ok	Rauschen	Frequenz.100Hz	nein

(1) : Wenn das CRT Modul nicht angeschlossen ist, erhöht sich die Spannung an CL046 auf über 250V anstatt 202V. Der Kondensator wird nicht entladen. Bevor Sie BL050 und BP110 wieder anschließen, muß CL046 unbedingt mit einem Widerstand (22k oder 33k) entladen werden.

(2) : In diesem Fall wird das Bild nach 1 Min sichtbar.



ICC19 100 Hz - BASIC- / IM- / MM- SCENIUM Version

tube name	description	CT-Part		DST	Usys jumper	Usys	Version
A66EGW 48X322	4/3 28"MP INVAR BSVM	CT 19101 34	10362880	10460360	JP915	134V	ICC19 IM
		CT 19105 37	10351530	10468070	JP914	137V	ICC19 IM
A59EGD048X322	4/3 25"SF INVAR BSVM	CT 19105 37	10351530	10468070	JP914	137V	ICC19 IM
A68EGD038X322	4/3 29"SF INVAR BSVM	CT 19105 37	10351530	10468070	JP914	137V	ICC19 IM
		CT 19152 37	10520610	10510870	JP914	137V	ICC19 MM
A66EHJ 48X 12	4/3 28"MP AK; no BSVM	CT 19103 34	10556010	10551170	JP915	134V	ICC19 BASIC
A68EGV038X322	4/3 29"SF SS INVAR BSVM	CT 19155 37	10562010	10551150	JP914	137V	ICC19 IM/MM
A80AJA 16X120	4/3 33"MP INVAR BSVM	CT 19156 37	10561990	10510870	JP914	137V	ICC19 IM
A80EJA 16X122	4/3 33"MP INVAR BSVM	CT 19156 37	10561990	10510870	JP914	137V	ICC19 IM
A90AFX 16X120	4/3 37"MP INVAR BSVM	CT 19156 37	10561990	10510870	JP914	137V	ICC19 IM
W66EGV023X122	16/9 28"SF INVAR BSVM	CT 19111 34	10444810	10468160	JP915	134V	ICC19 IM
W76EGV023X122	16/9 32"SF INVAR BSVM	CT 19111 34	10444810	10468160	JP915	134V	ICC19 IM
W76EGX023X122	16/9 32"SF INVAR BSVM	CT 19151 34	10520600	10520330	JP915	134V	ICC19 MM
W66EGV023X122	16/9 28"SF INVAR BSVM	CT 19251 40	10578550	10576740	JP917	140V	ICC19 MM + IM + PVM (PANORAMA)
W76EGX023X122	16/9 32"SF INVAR BSVM	CT 19251 40	10578550	10576740	JP917	140V	
W76EGV023X122	16/9 32"SF INVAR BSVM	CT 19251 40	10578550	10576740	JP917	140V	
W76EGV023X878	16/9 32"SF INVAR BSVM	CT 19251 40	10578550	10576740	JP917	140V	
W66LPQ356X99	16/9 28"SF INVAR BSVM	CT 19551 40	10604230	10647440	JP917	140V	SCENIUM XF TUBE
W76LPF350X97	16/9 32"SF INVAR BSVM	CT 19551 40	10604230	10647440	JP917	140V	

RP C19

tube name	description	CT-Part		DST	Usys jumper	Usys	Version
RP - 4/3	4/3 46" - 52"	CT 19400 34	10530110	10521310	JP915	134V	RP C19 4/3
RP - 16/9	16/9 52"	CT 19450 34	10615440	10641600	JP915	134V	RP C19 16/9

ICC19 50 Hz

tube name	description	CT-Part		DST	Usys jumper	Usys	Version
A59EGD048X300	4/3 25"SF	CT 19005 31	10510890	10517720	JP915	131V	
A66ECY13X15	4/3 28"MP	CT 19003 32	10351520	10517740	JP914	132V	
A66EHJ 13X 15	4/3 28"MP AK	CT 19003 32	10351520	10517740	JP914	132V	
A68EGD038X300	4/3 29"SF	CT 19005 31	10510890	10517720	JP915	131V	
A80AEJ15X01	4/3 33"MP	CT19006 31	10351840	10517720	JP915	131V	
W66EGV023X115	16/9 28"SF	CT 19032 37	10391010	10517750	JP917	137V	
W76EGX023X115	16/9 32"SF	CT 19032 37	10391010	10517750	JP917	137V	

U SYS . / REFERENCE TUBE



CONTROLES DES CIRCUITS DE DEVIATION LIGNE



CONTROLES DES CIRCUITS DE DEVIATION TRAME



ICC19 100 Hz - BASIC- / IM- / MM- SCENIUM Version

tube name	description	CT-Part		DST	Usys jumper	Usys	Version
A66EGW 48X322	4/3 28"MP INVAR BSVM	CT 19101 34	10362880	10460360	JP915	134V	ICC19 IM
		CT 19105 37	10351530	10468070	JP914	137V	ICC19 IM
A59EGD048X322	4/3 25"SF INVAR BSVM	CT 19105 37	10351530	10468070	JP914	137V	ICC19 IM
A68EGD038X322	4/3 29"SF INVAR BSVM	CT 19105 37	10351530	10468070	JP914	137V	ICC19 IM
		CT 19152 37	10520610	10510870	JP914	137V	ICC19 MM
A66EHJ 48X 12	4/3 28"MP AK; no BSVM	CT 19103 34	10556010	10551170	JP915	134V	ICC19 BASIC
A68EGV038X322	4/3 29"SF SS INVAR BSVM	CT 19155 37	10562010	10551150	JP914	137V	ICC19 IM/MM
A80AJA 16X120	4/3 33"MP INVAR BSVM	CT 19156 37	10561990	10510870	JP914	137V	ICC19 IM
A80EJA 16X122	4/3 33"MP INVAR BSVM	CT 19156 37	10561990	10510870	JP914	137V	ICC19 IM
A90AFX 16X120	4/3 37"MP INVAR BSVM	CT 19156 37	10561990	10510870	JP914	137V	ICC19 IM
W66EGV023X122	16/9 28"SF INVAR BSVM	CT 19111 34	10444810	10468160	JP915	134V	ICC19 IM
W76EGV023X122	16/9 32"SF INVAR BSVM	CT 19111 34	10444810	10468160	JP915	134V	ICC19 IM
W76EGX023X122	16/9 32"SF INVAR BSVM	CT 19151 34	10520600	10520330	JP915	134V	ICC19 MM
W66EGV023X122	16/9 28"SF INVAR BSVM	CT 19251 40	10578550	10576740	JP917	140V	ICC19 MM + IM + PVM (PANORAMA)
W76EGX023X122	16/9 32"SF INVAR BSVM	CT 19251 40	10578550	10576740	JP917	140V	
W76EGV023X122	16/9 32"SF INVAR BSVM	CT 19251 40	10578550	10576740	JP917	140V	
W76EGV023X878	16/9 32"SF INVAR BSVM	CT 19251 40	10578550	10576740	JP917	140V	
W66LPQ356X99	16/9 28"SF INVAR BSVM	CT 19551 40	10604230	10647440	JP917	140V	SCENIUM
W76LPF350X97	16/9 32"SF INVAR BSVM	CT 19551 40	10604230	10647440	JP917	140V	XF TUBE

RP C19

tube name	description	CT-Part		DST	Usys jumper	Usys	Version
RP - 4/3	4/3 46" - 52"	CT 19400 34	10530110	10521310	JP915	134V	RP C19 4/3
RP - 16/9	16/9 52"	CT 19450 34	10615440	10641600	JP915	134V	RP C19 16/9

ICC19 50 Hz

tube name	description	CT-Part		DST	Usys jumper	Usys	Version
A59EGD048X300	4/3 25"SF	CT 19005 31	10510890	10517720	JP915	131V	
A66ECY13X15	4/3 28"MP	CT 19003 32	10351520	10517740	JP914	132V	
A66EHJ 13X 15	4/3 28"MP AK	CT 19003 32	10351520	10517740	JP914	132V	
A68EGD038X300	4/3 29"SF	CT 19005 31	10510890	10517720	JP915	131V	
A80AEJ15X01	4/3 33"MP	CT19006 31	10351840	10517720	JP915	131V	
W66EGV023X115	16/9 28"SF	CT 19032 37	10391010	10517750	JP917	137V	
W76EGX023X115	16/9 32"SF	CT 19032 37	10391010	10517750	JP917	137V	

GENERAL INFORMATION

METHODOLOGY

1 - SWITCHING "ON" THE TV :

- Observe the behaviour of the two-coloured LED: note the various stages and compare them with the normal cycle of events.
By watching this, the point at which the problem arises and the part of the circuit which needs to be investigated can be identified.

2 - TROUBLE SHOOTING PROCEDURE: LED BEHAVIOUR

In certain cases a flashing LED signifies the transmission of an error code message:

LED flashes : message transmission.

Count the flashes : coded into two bursts separated by a pause of 0.7 s and repeated several times.

See the error code table.



This data is more precise than LED colour changes, however, since various fault conditions generate the same error code the information signalled may be incomplete.

Please Note :

In the service mode, it is possible to consult a record of the last error codes which have occurred in the television set.

3 - FAULT FINDING :

Operation stages 1 and 2: an oscilloscope test is carried out according to two separate processes.

a - The television set operates fully or partially

- Use LED message observation fault finding methods 1 and 2. See also the fault related to fault finding by symptom.

b - The television set goes into permanent or cyclical security mode

- Observe LED behaviour (flashing red, stable orange followed by flashing, etc.).
Select the relevant box in the column (LED behaviour fault finding).

INFORMATION

The ICC19 television will partially operate without the DVT, SOUND, CRT, CHROMA (50 Hz) and VM video (100 Hz) modules removed.
This point may be useful if the video module causes the TV to switch to security mode.

See the television configuration table.



BEHAVIOUR OF ICC19 WITHOUT CERTAIN MODULES ARE FITTED OR REMOVED

CONFIGURATION				ERROR CODE	ALL VOLTAGES	Signal at pin 19 BV011	Signal at pin 2-4-6 BV001	picture
VM	AM-FM	DVT	CRT					
without	without	without	without (1)	17	ok (1)	no	no	no
with	without	without	without (1)	17	ok (1)	no	no	no
with	with	without	without (1)	39	ok (1)	no	no	no
with	with	with	without (1)	26	ok (1)	ok	no	no
with	without	with	with	17	ok	ok	ok	ok
with	with	without	with	39	ok	ok	ok	ok (2)
without	with	with	with	15	ok	noise	pulse 100Hz	no

(1) : If the CRT is not connected, the voltage across CL046 will increase up to 250V instead 202V, this is due to the lack of a discharge path. Before to reconnecting BL050 and BP110 it is **imperative to discharge** CL046 with a resistor (22k or 33k).

(2) : In this case, the picture will only be visible after 1mn.



SERVICE TIPS

ICC19 16/9 50 Hz CHASSIS

32WS88KE - 28WS78KE - 32WS83KP - 28WS73KD

- ANSPRECHEN DER SCHÜTZSCHALTUNG UND ABSCHALTEN DES NETZTEILS BEI VIDEOBETRIEB

Ursache :

Ansprechen der Synchronisationssignal während ein oder zwei Bilder (schlechte Qualität der Videocassette).

Abhilfe :

- Ersetzen sie den Kondensator CL067 100nF 100V durch einen 1µF 63V Bestell-Nr.: 43067772.
- Ergänzen Sie den Melf Widerstand RL066 220kΩ 5% 100mW, Bestell-Nr.: 10328700.

FERNSEHGERÄTE MIT DEM CHASSIS ICC19 (50Hz, 100Hz)

*** PERMANENTE STÖRGERÄUSCHE AUS DEN LAUTSPRECHERN IM STAND-BY MODE**

- CP120 von 470µF/35V gegen 330µF/25V austauschen (Bestell-Nr. 10448410).

*** AUSFALL DES IC TDA8177F IN POSITION IF001**

ACHTUNG

Es ist unbedingt darauf zu achten für das Chassis ICC19 das IC TDA8177F (Bestell-Nr. 10352880) zu verwenden. Dieses IC für höhere Lastströme ausgelegt als das IC TDA8177 (Bestell-Nr 15053440). Dieses IC wird in Geräten mit dem Chassis TX92 verwendet.

Im Falle einer Verwechslung fällt das IC nach dem Einschalten aus.

FERNSEHGERÄTE MIT DEM CHASSIS ICC19 100 Hz (STEREO ODER DOLBY STEREO)

- MOIRE ODER SCHWARZE VERTIKALE BALKEN AUF DEM BILDSCHIRM VHF BAND I (NUR ITALIAN)

Ursache :

Übersprechen zwischen Netzteil und Tuner.

Abhilfe :

- Ersetzen Sie den Switch Mode Trafo LP020 durch eine neuen mit der TOCOM-Nr :
 - 10553820 (Stereo)
 - 10553830 (Dolby stereo).

BETROFFENE GERÄTE/CHASSIS: ICC19 (100HZ)

28WS78M, 28WS78MP, 32WS88ME, 32WS98MP

(nur Geräte mit Serien-Nr. beginnend mit AK3025110)

Symptom/Problem:

ABHÄNGIG VON DER AUSRICHTUNG DES GERÄTES IM ERDMAGNETFELD IST EINE ROTATION DES BILDES MÖGLICH.

DER EFFEKT IST BEI VIDEOTEXT ODER EINGEBLENDETEN UNTERTITELN BESONDERS SICHTBAR.

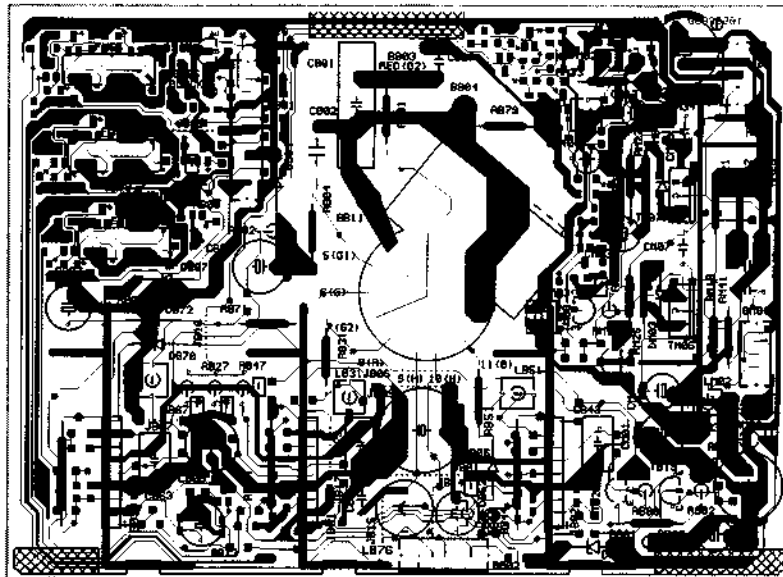
Abhilfe:

Abgleich der Erdfeldkorrektur. Der Einsteller (Poti) befindet sich auf der Erdfeldkorrekturplatine (EFC).

Sollte keine Erdfeldkorrekturplatine eingebaut sein, kann diese nachgerüstet werden (Best-Nr. 350 592 70).

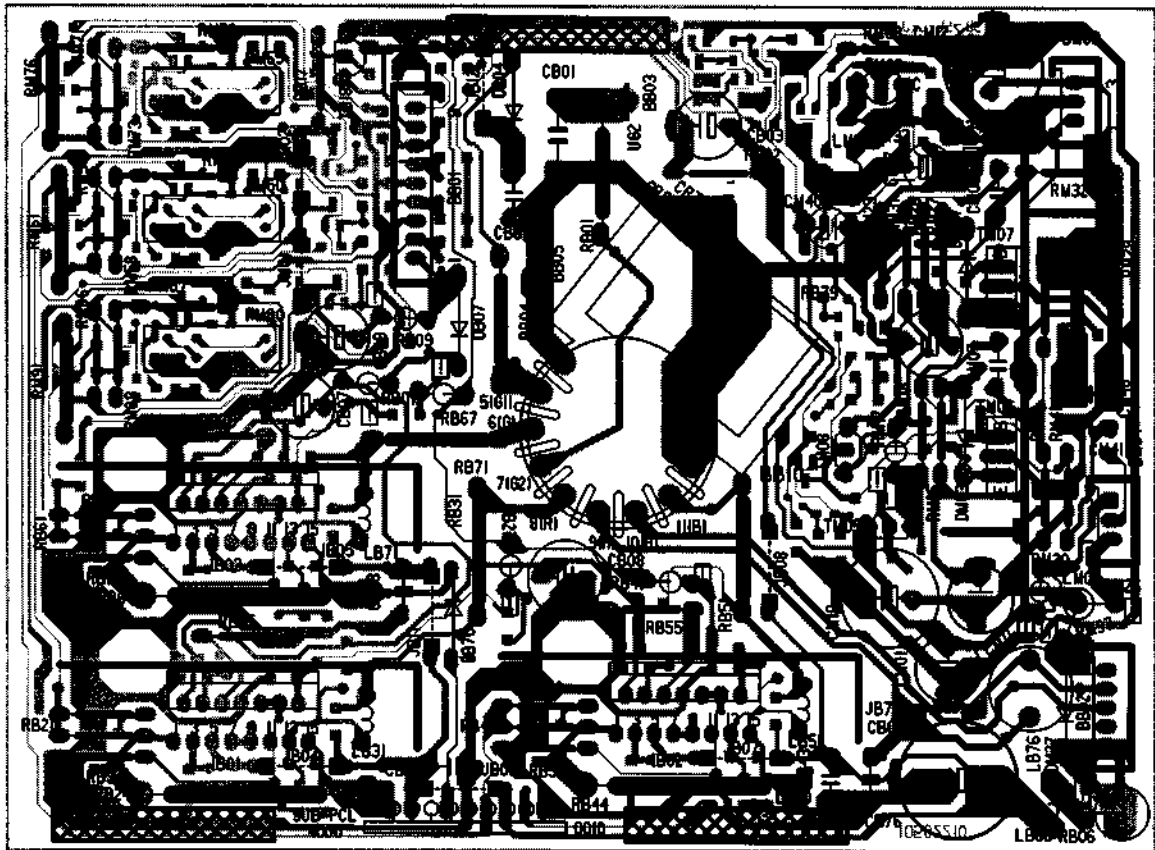
CRT BS 19200 - CRT BS 19201

COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI -
LADO COMPONENTES

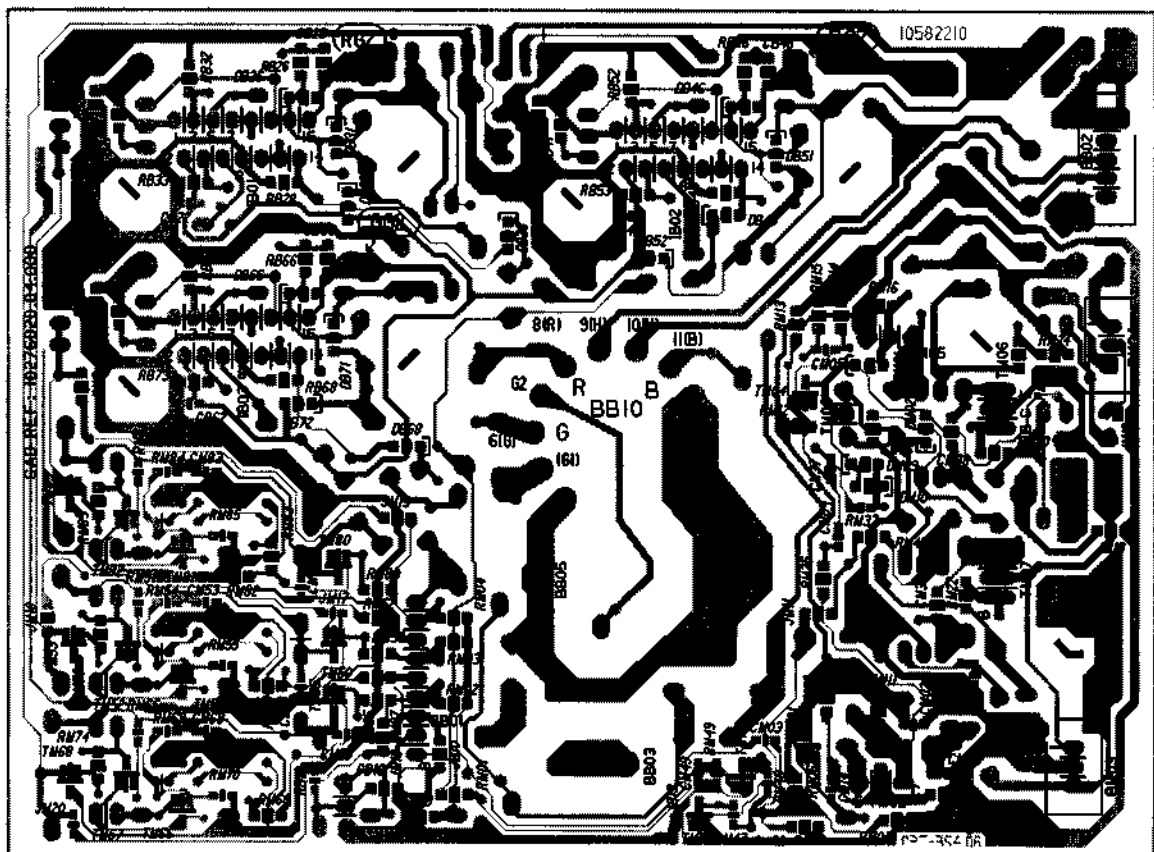


CRT BS 19100 - CRT BS 19400

COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI -
LADO COMPONENTES



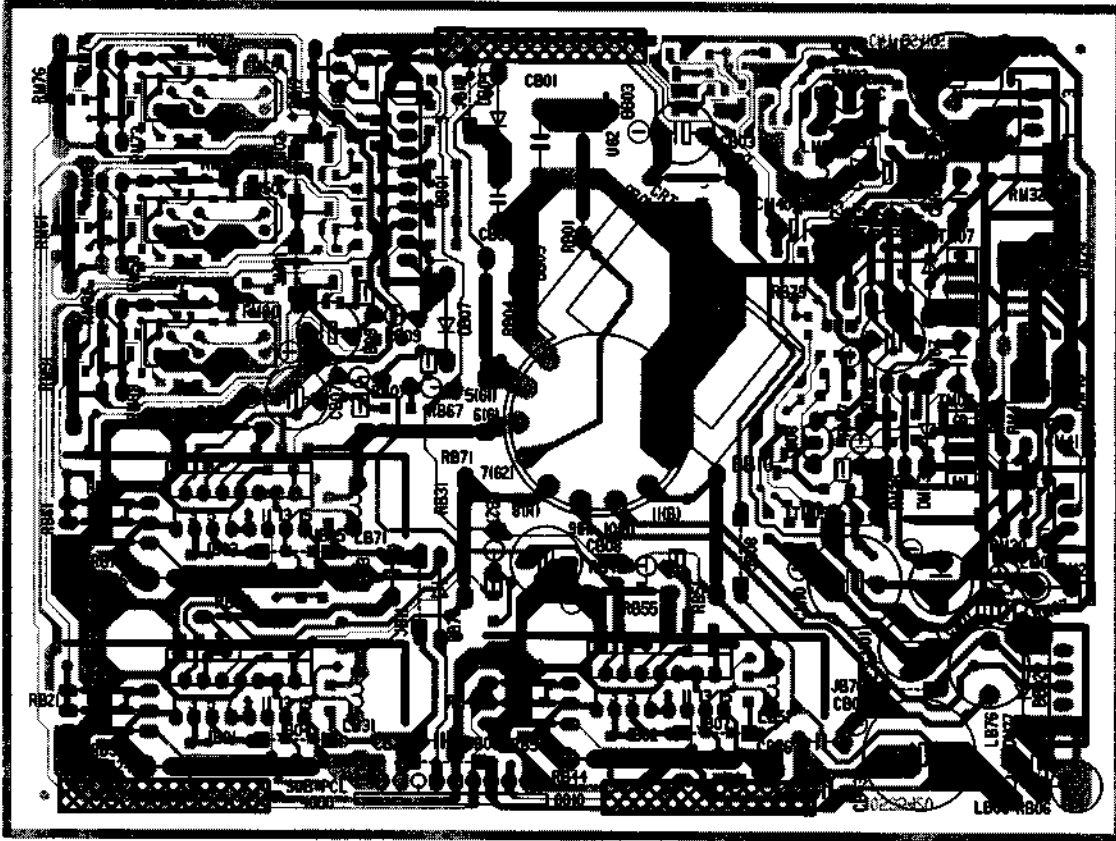
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



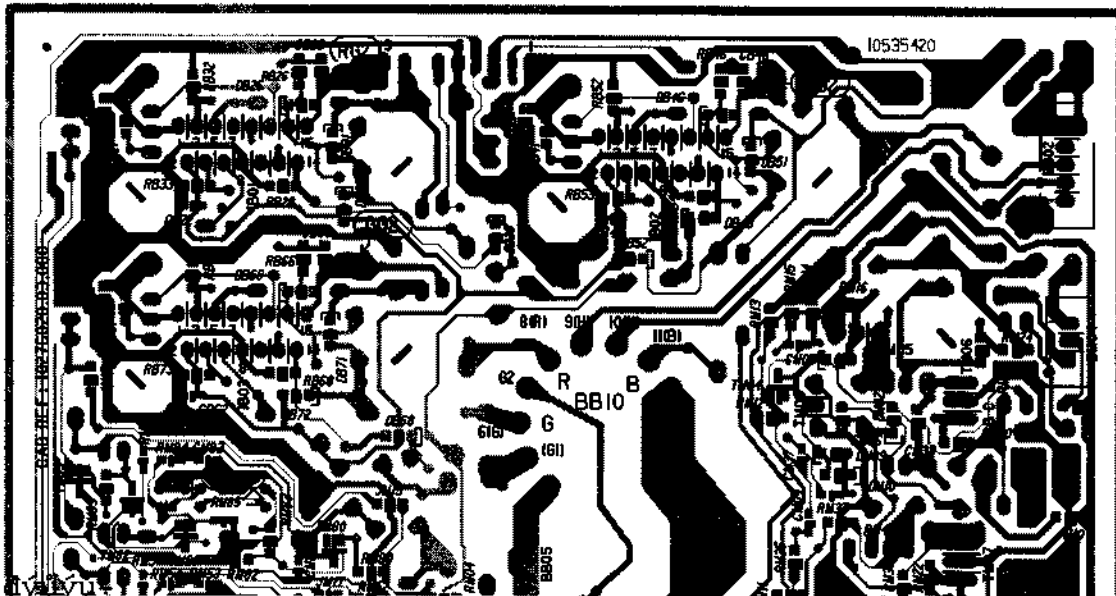
VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE -
PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO

CRT BS19100

COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



**LIST OF ABBREVIATIONS - LISTE DES ABBREVIATIONS - ABKÜRZUNGEN
LISTA DELLE ABBREVIAZIONI - LISTA DE ABBREVIACIONES**


● AV_R_OUT	Audio Right-Out	● L1_INFO	STANDARD L BAND 1
● AV_L_OUT	Audio Left-Out	● LDFL	LINE LOCKED CLOCK 27 MHz
● AV_R_IN	Audio Right-In	● LDR	LED DISPLAY
● AV_L_IN	Audio Left-In	● MAIN_Y	Y FROM CHROMA DECODER
● AV_C_IN	Chroma-In	● MAIN_U	U FROM CHROMA DECODER
● AV_Y_IN	Video-In	● MAIN_V	V FROM CHROMA DECODER
● AV_Y_OUT	Video-Out	● M-RES	MASTER RESET TO MICROPROCESSOR
● AV1_8	Pin-8 Detector	● MUTE	MUTES AMPLIFIERS
● BEAM_INFO	BEAM CURRENT INFORMATION	● NMI	NON MASKABLE INTERRUPT (alternate function of Pin 55 STR092)
● BG INFO	SWITCH BG	● NORM	SWITCH POLARITY OF THE VIDEO SIGNAL TUNER
● B_AV	B SIGNAL FROM AV	● PLL-ON	ENABLE DEFLECTION PLL
● B_TXT	B SIGNAL FROM TEXTMODULE	● PKS	SIGNAL FOR ABL CIRCUIT (STV2161/STV2162)
● CRT_B	B SIGNAL TO VIDEO AMPLIFIER	● R_AV	R SIGNAL FROM AV
● CRT_G	G SIGNAL TO VIDEO AMPLIFIER	● R_TXT	R SIGNAL FROM TEXTMODULE
● CRT_R	R SIGNAL TO VIDEO AMPLIFIER	● SAFE	SAFETY INFORMATION FROM DEFLECTION
● CVBS_SAT	SAT_VIDEO	● SMPS_IN	FEED BACK SIGNAL FOR POWER SUPPLY REGULATION (STV2161/2)
● DEGAUSS	DEGAUSS SIGNAL	● SSC	SUPER SAND CASTEL CIRCUIT
● E.W_DRIVE	EAST - WEST DRIVE SIGNAL	● TEMP_ABL	SIGNAL DST-TEMPERATURE SENSING CIRCUIT
● EW_BACK	FEED BACK INFORMATION	● T1_CVBS	COMPOSITE VIDEO BASEBAND FROM TUNER
● FB_AV	FAST BLANK SIGNAL FROM AV SCART	● U_SCART	SCART VOLTAGE
● FB DETEC	FAST BLANKING DETECT	● +USYS	SYSTEM VOLTAGE
● FB_TXT	FAST BLANK SIGNAL FROM TEXTMODUL	● +/- US	SOUND VOLTAGE
● FRAME_DR	DRIVE SIGNAL FOR VERTICAL DEFLECTION	● +UVERT	VERTICAL VOLTAGE
● G_AV	G SIGNAL FROM AV	● +UVFB	VERTICAL RETRACE VOLTAGE
● G_TXT	G SIGNAL FROM TEXTMODULE	● +UVIDEO	VIDEO VOLTAGE FOR THE CRT BOARD
● HDFL	HORIZONTAL SYNC.	● VA	VERTICAL REFERENCE OUT FROM TDA 9143
● HDRV	DRIVE SIGNAL FOR HORIZONTAL DEFLECTION	● VDFL	VERTICAL SYNC.
● HTR1 / HTR2	HEATER OUTPUT FROM THE DST TO CRT	● V-SYNC	VERTICAL SYNC.FOR TELETEXT MODULE
● I CUT	CUT OFF CURRENT	● 5 V	5V POWER SUPPLY
● IIC-CL-1	I2C CLOCK BUS 1	● 13 V	12V POWER SUPPLY
● IIC-CL-2	I2C CLOCK BUS 2	● 5 VSTBY	5V STAND BY
● IIC-DA-1	I2C DATA BUS 1	● 10 VSTBY	10V STAND BY
● IIC-DA-2	I2C DATA BUS 2		
● IR	INFRARED		

PARTS LIST
LISTE PIECES DETACHEES
ERSATZTEILLISTE
LISTA PARTI DI RICAMBIO
LISTA DE PIEZAS DE REPUESTO

THOMSON

52RW64E

Chassis ICC19

MODULES					
MAIN	IC19M5MA08P004				
ABL	ABLRP19	R 10637710			
AMVD	AM/VD19000	R 10546730			
AMVD	SUBAMVD19100	10546720			
CRT	CRTRP19 R	R 10284380			
CRT	CRTRP19 G	R 10546590			
CRT	CRTRP19 B	R 10529410			
DCU	DCURP19	R 10468670			
DVT	DVT19010	R 10510420			
EMB	EMB19500	R 10600840			
FCB	FCB1907	R 25312710			
KDB	KDB1909	R 25382560			
LDN	LDN1907	25421050			
PS	PSRP19	R 10527240			
RGB	SUB RGB-PIRP19	R 10644830			
RIR	IR1902	R 25421170			
SCI	SCI19004	R 10581460			
VM	VM19400	R 10609390			
					
GR001	TSOP1333	25358570			
IAC01	IDA7266	10348790			
IAC02	IDA7298	10348810			
IAC10,IB012,IG011,IL062	II082CD IIA1	10384130			
IF001	TDA8177F	10352880			
II050	TDA9811/V3	10336130			
IK001	STV2040	10379540			
IK002,003,IP002	TL084/CP	46021200			
IK004,IP130	MC7812/CT	46007600			
IK005	MC7805/CT	46025200			
IK006	L7912CV	15054150			
IK007	M24C32B11	10462210			
IK008,015	X27164	10088250			
IP050,IX001	MC7809/CT	70401402			
IP060	TEA2261	90542470			
IP140	IDA8139	10044580			
IP250	K324PG(CNY75CA)	10536210			
IR001	S190R62	10441970			
IR002	IC ROM THOMSON V6.02.1	1061194A			
IR003	M24C64-3NF	10533930			
IR004	MC1494B(3)/II14094B7/BU4094B7 I.A1	20016070			
IR020	C19N27C160120F1 V5.01	10652940			
IR030	GM76C256A-1/WG I.A1	10271860			
IR040	74102 I.A1	10528250			
IS001,080	MC4558CD IC SMD	10276270			
IS010	MC78138ACP	10308410			
IS100	MSP8410D 34 (DII)	10546420			
IS200	DP3519 (DIE)	10546430			
IT001	SDA5275 2S	10448670			
IT002	HY3514400BJ 80	10358750			
IW001^a	SIW2162 CUI2.2	10528480			
IW001^c	SIW2165	10360480			
IW300	IDA8755 IIA1	10147010			
IW301,302	MSM5412272 2515 SK IIA1	10388960			
IW303	MCU1 PLUS IIA1	10598370			
IW305,308,311	HF4348B1 I.A1	10261110			
IW306	LM358D I.A1	10258670			
IW312	LSA62 IIA1	10606770			
IW501	IDA8143V3	10591540			
IW502	IDA4665 I.A1	10155740			
IW780	HF4353B1/BU4053BF/JPD4053B3C I.A1	20230300			
IX900	IIA6415C	15081280			
ZL041	VF160	10457130			
ZV301	VF50	10457170			



TA001^b,002^b	BCW93CF1	10599300
052,054, TB001, 002,052,054, TG001,002,052,054		
TA001^a,TIC00	BC856B SMD	16006310
TP150,166,190, TV001 ^c ,051,053, 063,071,073, 083,382,393, 600,540,650, 680,581,775, 785,TV004		
TA002^a,006,050	BC846B SMD	16006260
TB006,050, TG006,050, TIC01,032,070, TL001,052,053, TP125,027,152, 161,162,151, 170,175,TR002, 102,105,TV052, 077,395,601, 603,604,641, 642,561,652, 682, TX955,980, 965,TV001,002, 003,005		
TA003,004,053	BCW94CF1	10599200
055, TB003,004, 053,055, TG003, 004,053		
TA005,051	B-420	16003080
TB005,051, TG005,051, TK105,205,306, TV007 ^b		
TIC10,033,034	BCR141 SMD	16006890
G40 045,050, TP145,TR091, 095,106,TT004		
TIC20,TV307	B7798 SMD	35031670

xxxx^a : MAIN

xxxx^b : DCU

xxxx^c : VM


xxxx^d : KDB

R : RECYCLED PART
: PIECE RECYCLEE
: AUSTAUSCHTEILE
: RICAMBIO RICICLATO
: MODULO REPROCESADO

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 THOMSON Multi Media

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TK001,003,005,008,009,101,102,201,232,301,332,TS001,002,TT002,008,009,010,TV005,007,008,011,013,020,TX020,677,650,557	3C8573 SMD	30946660
TK002,004,020,022,023,024,028,130,230,330,TM134,109,110,204,209,210,304,309,310,TP001,TS003,004,TT001,003,006,007,011,012,TV001,003,004,005,014,TX021,651,830,831,832,853	3C8473 SMD	11070770
TK102,104,202,204,302,304	3F8835	10162190
TK103,105,203,205,303,305	3I817	10162700
TK107,207,307,TM101,138,201,208,301,308,TP210	3C5573	16001060
TLC04	MHSW01A	70436670
TLC05	MHS750	16001340
TLC08	1P271P	25358380
TLC30	QNA977/8L2525AX	10461310
TM006	2SA1837	16001500
TM007	2SC4753	16001600
TM102,202,302	3C337-4C	45001466
TM105,205,305,TP238	3C5473	16000890
TP025	600V 1A25	10383960
TP030	3U, 810111	10224370
TP146	3D241C	16001880
TP220	2SK746C	15046790
TP222	3C327	16000430
TP223,224,271	3C547C	16000900
TR048	3C8185 SMD	16006900
TV002	1P272	10045750
TV010	2SC3675	16004070
TV108	3C327-4C	16000450
TV300	3C269 SMD	35031480
TV303,381,392	3I660 SMD	16005830
TX005	3C8483 SMD	35030590
TX910,920,950, TZ050,051	3C5453	45001866

	DA001 ^b ,002 ^b ,003,010,011,050,051,052,059,060,DB001,002,003,010,011,050,051,052,060,059,060,DF001, DG001,002,003,010,011,050,051,052,060,DK001,002,003,004,015,DL002, DP027,061,278,219,223,224,225,227,231,232,237,238,239,268,DR091,DS001,002,003, DV002,003,004,007,008,009,010,011,014,015,020,027,028,029,DZ050	1x4748	44C082C9
DA001 ^a ,DF032,028,DK005,005,007,008,102,105,107,207,202,206,207,302,306,507,DL070,072,DM101,102,105,105,107,207,202,205,206,207,301,302,305,306,507,DP051,060,151,152,160,175,178,179,190,DR030,031,090,DT001,002,003,004,005,006,007,008,009,010,DV025,025,027,028,038,039,RV052	LL2748 SMD	76C12450	
DA002 ^a ,DV011,012	LL2 SMD	76C12530	
DA005,006,053,058,DB005,005,053,058,DF031,033,DG005,005,053,DK001 ^b ,002 ^b ,010,011,012,DL001,051,052,DM110,111,270,211,310,311,DP050,DV005,005,031,032,033	RGP70G	70453090	
DA008,009,056,057,DB008,009,055,057,DG008,009,056,DV077	BZX55C6V2	20475470	
DF007	7MM15 SMD	76C30060	
DF011	1B7W04 48	70357880	
DH001	7MM13	70376460	
DI001,002,040,041,051,070,071	1B7B2S	20542050	
DK009	1A2062-A 6V	20707320	
DK103,104,113,203,204,213,303,304,313	EGP10G	70542140	
DK105,205,305	1x40JGP	70455230	
DK108,208,308	1B703A7 50	70402351	

DLC00	DIY32F-1500	10452490
DLC02	BYR29F-60C	10589340
DLC04,036	FGP10D	20953640
DLC01,DP740	BYW79-150	16009740
DLC03	RGP10M	10455320
DLC06	RGP15-20	10340890
DLC50	BVX85C72	17072690
DLC57,DS061,062,DV104,108,DX20,151,220,251,301,351	BAV103 SMD	10155030
DL060	ZM7M3.3	16030770
DL066	BZX55B47	17073450
DL071	BZX55C2C	30948810
DP022,113	FUF4005/MJR760	16009580
DP039,040	RGP02 20	10472330
DP041	BAT42	16007410
DP052,133,134	1N4001	16008760
DP053,261,263	RGP15C	10272800
DP708,109	RGP30D	10455370
DP70A,110B	RGP50M	10298760
DP712	MUR1700E	10350280
DP730	MUR420	16009530
DP201	G3U4M	10474580
DP213	BZX55C33	17073590
DP225	ZPD4,7/BZX55C4V7	20475400
DP233,234,236,240,243	BA159	16008720
DP235	BZX55C18	17073680
DP265,267	S470D	10527250
DR704	BZX55B9V1	70438220
DV018,079	BYD43 20	10301970
DV701	ZM7M6.8 SMD	70439940
DV303,305,307	BB729S SMD	20542090
DV623	BZX55C3V1 SMD	16030330
DX810	BZX55B8V2	40441820
DX814	BZX55B3V1/ZPD5V7 2%	44035702
GE001	TLJ45300_LED	17137650



FIG00	07-WK3954M FCS	10357610
FIG05	07-WG3970M FCS	10572420
FIG02	07-WK9453M FCS	10176450
FV001	72M0H7	10539340
FV540,850		10295430
FV580		10295420
QI053	6M0HZ	48042300
QI070	6M5HZ	20356510
QR001	27M0HZ	10254720
QS040	78M132HZ	10334670
QT001	20M18-HZ	10495020
QV601	4M433619-HZ	10087710
QV602	3M579545-HZ	10087720

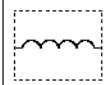






FIG01	40M11V	20300950
FIG02	36M81V	10379260
FIG03	77M81V	10348570
FIG04	6M61V	10437880
FK130,230,330	700NS	10203890

LV325,380	7M05-V	0519350
LV350	7M05-V	0519370
		
PI03C,035	242 OHM	0308240
PI05C	22K OHM	0212690
PP25/	100R OHM	026C330
PS00	1M0 OHM	42C452C0
PV005,034	14 OHM	42C321C0
PV10*,201,301	2M2 OHM	01740C0
		
RA00*,RB001,	10K OHM 1% 0,40W	501C340
RG00*,RK057,		
RP003,034,007,		
005,011,022		
RA003,051,	332R OHM 1% 0,40W	412893C9
RB003,051,		
RG003,051		
RA005,053,	162R OHM 1% 0,40W	5011850
RB005,053,		
RG005,053		
RA007,050,	649 OHM 1% 0,40W	50219C0
RB007,050,		
RG007,050		
RA009,057,	1R8 OHM 1% 1W	3085450
RB009,057,		
RG009,057		
RA012,014,058,	0R4 OHM 10% 0,40W	5022650
059,RB012,014,		
058,059,RG012,		
014,058,059		
RA013 ^b ,055,	267K OHM 1% 0,40W	5014920
RB013,055,		
RG013,055		
RA015 ^a ,014,030	4R OHM 5% 0,35W	0226310
RA020,054,	243 OHM 1% 0,40W	5015590
RB020,054,		
RG020,054		
RA06*,RB061,	8425 OHM 1% 0,40W	5021840
RG06*		
RF011	1R5 OHM 5% 0,50W	5022560
RF017	1R82 OHM 1% 0,40W	0451420
RF013	1R21 OHM 1% 0,40W	301C820
RF015	15R OHM 25W PTC	0231730
RF020	70R OHM 1% 0,70W	0302230
RK05*,065,067,	140 OHM 1% 0,40W	5012580
069		
RK06C	15K OHM 1% 0,40W	5011710
RK065	4475 OHM 1% 0,40W	5018710
RK10*,201,301,	10R OHM 5% 0,25W	5003590
RM11,217,317,		
RP05C,RV312,		
327,393,607		
RK104,204,304	47R OHM 5% 0,70W	0181910
RK107,207,307	302R OHM 1% 0,40W	5017110
RK112,212,312	242 OHM 5% 0,50W	0239310
RK114*,115,118,	330R OHM 5% 0,50W	0239250
120,217,4,216,		
218,220,314,		
315,318,320		
RK117,217,317,	330R OHM 10% 0,50W	405C190
RL057		
RK119,219,319	140 OHM 5% 0,50W	0239280
RK123*,24,223,	145 OHM 5% 0,50W	0121880
224,323,324		

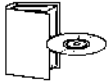
RK129,229,329	6K81 OHM 1% 0,40W	15020590
RK228	4745 OHM 1% 0,40W	13066180
RL013	4R7 OHM 5% 0,50W	15010040
RL015	1R0 OHM 5% 0,25W	15009730
RL029	2R2 OHM 5% 0,50W	10440420
RL040	0R27 OHM 5% 2,50W	10263600
RL043	2R2 OHM 5% 0,70W	13000480
RL052	5449 OHM 1% 0,70W	10224320
RL081	6841 OHM 1% 0,7W	10433880
RL082	5940 OHM 1% 0,7W	10516830
RM101,201,301	220R OHM 5% 0,25W	15009810
RPC01,023	187K OHM 1% 0,40W	15012250
RPC09,010	3K32 1% 0,40W	41226709
RPC12	3942 OHM 1% 0,40W	15017130
RPC15	8K65 OHM 1% 0,40W	15021860
RPC16	8K05 OHM 1% 0,40W	15021810
RPC17	7K5 OHM 1% 0,40W	15021220
RPC18	5K35 OHM 1% 0,40W	15019620
RPC20	0R12 OHM 5% 2,50W	10334390
RPC21	1042 OHM 1% 0,40W	15010370
RPC22	100R OHM 5% 4,50W	10379830
RPC27	1544 OHM 1% 0,40W	15011730
RPC30	100K OHM 1% 0,40W	15010170
RPC31	1340 OHM 1% 0,40W	15011210
RPC32,035	2241 OHM 1% 0,40W	41303301
RPC50,057	1K3 OHM 1% 0,40W	15012810
RPC66	3K65 OHM 1% 0,40W	13066710
RP100	10M0 OHM 5% 0,70W	10074320
RP207	2R7 OHM 5% 4,50W	10379110
RP220,RVC01	4R OHM 5% 2,5W	10411330
RP244	7K5 OHM 1% 0,25W	15021170
RSC42	4R OHM 5% 0,25W	35032200
RV069	150K OHM 1% 0,40W	41243301
RX503	150 OHM 5% 0,25W	15009630
RZ056	6841 OHM 1% 0,40W	41307009
RZ059	1842 OHM 1% 0,40W	15012330
		
CK103,105,107,	10% OF 10% 40CV	15001080
203,205,207,		
303,305,307		
CK11,217,317,	1N07 240V	14034870
CV049		
CK23,223,323	470P OF 10% 340V	14006050
CK29,229,329	100NCF 20% 400V	13071240
CL030	1N97 5% 2KCV	10559090
CL031	10% OF 3.5% 1K5V	43180300
CL032	20% OF 5% 40CV	43388900
CL037	510NCF 5% 250V	10381880
CL041,043	330P OF 20% 140V	14035270
CL052	10% OF 5% 40CV	14035870
CL146	150P OF 20% 140V	30931590
CM148,248,348	470P OF 10% 40CV	14002340
CP020	150U OF 385V	43424800
CP022,135,137,	470P OF 10% 240V	10099390
138		
CP023	2N2F 10% 1KCV	13099960
CP050,053	330P OF 20% 40CV	14002220
CP100	1N5F 20% 40CV	10344860
CP101	150P OF 20% 40CV	20736090
CP112	3N3F 5% 630V	10490550
CP201,202	100NCF 20% 275V	10331520

CP204	1N5F 10% 1KCV	20338740
CP205,206	4N7F 1KCV	10058740
CP209	220U OF 20% 40CV	10510680
CP210	220U OF 20% 40CV	10114340
CP221	3N3F 20% 1KCV	43324300
CV045,047	4N7F 50% 2KCV	14034420
CV048	820P OF 5% 240V	10513370
		
LLC01	DRIVER	10468760
LLC08	DSTCDS35	10641600
LLC37	SUGI	10545340
LP020	SM1577	10549750
LP070	DK VIK	60412091
LP207		10203560
LP250	SM117	10534490
LV007		10458460
OTHER PARTS AUTRES PIECES SONSTIGE TEILE ALTRE PARTI OTRAS PIEZAS		
BJ010	CINCH SOCKET PRISE CINCH CINCH-BUCHSE PRESA CINCH TOMA CINCH	10037440
BJ011	SVHS SOCKET PRISE SVHS SVHS BUCHSE PRESA SVHS TOMA SVHS	20392900
BK101,201,301	CATHODE RAY TUBE SOCKET SUPPORT TUBE CATHODIQUE BLDROEIRENTASSUNG SUPPORTO TUBO CATODICO SOPORTE T.R.C	10543870
BQ012	JACK SOCKET PRISE JACK BUCHSE PRESA JACK TOMA JACK	10539510
BS004	CINCH SOCKET PRISE CINCH CINCH-BUCHSE PRESA CINCH TOMA CINCH	10261740
BX100,200,300	SCART SOCKET PRISE PERITE EURO AV BUCHSE EURO-PRESA EUROCONNECTOR	10402480
FK101,201,301	63MVA 250V TIME LAG FUSE 63MVA 250V FUSIBLE 63MVA 250V SICHERUNG 63MVA 250V FUSIBILE 63MVA 250V FUSIB.F	25336630
FM107,207,307	63MVA 250V TIME-LAG FUSE 63MVA 250V FUSIBLE 63MVA 250V SICHERUNG 63MVA 250V FUSIBILE 63MVA 250V FUSIB.F	10566870

FP201	2A51 TIME-TO-AG-FJSF 2A51 FLUSIBILE TEMPORISI 2A51 THERMOSCHESSCHERUNG 2A51 FLUSIBILE TEMPORIZZATO 2A51 FLUSIBILE TEMPORIZACAO	△ 10246750
IK007,008,015	IC SUPPORT 2X4 SUPPORT C 2X4 IC TASSUNG 2X4 SUPPORTO CI 2X4 SOPORTE C 2X4	67449100
IRO01	IC SUPPORT 4X17 SUPPORT C 4X17 IC TASSUNG 4X17 SUPPORTO CI 4X17 SOPORTE C 4X17	67626900
IRO20	IC SUPPORT 2X21 SUPPORT C 2X21 IC TASSUNG 2X21 SUPPORTO CI 2X21 SOPORTE C 2X21	67085500
NH001	CTT5000T UHF/VHF TUNER CT15000T UHF UHF/VHF CT15000T UHF/VHF TUNER CTT5000T TUNER UHF/VHF CTT5000T SINTON ZADOR UHF/VHF	20808680
PE130	FOCUS BLOCK 75MM OHM BLOCC FOCUS 75MM OHM FOCUS BLOCK 75MM OHM BLOCCO FOCUS 75MM OHM BLOQUE FOCUS 75MM OHM	△ 15249840
PH200	ON/OFF SWITCH CONTACTOR MARCHA/ARREST EIN/AUS SCHALTER CONTATTORE ACCESO/SPENTO CONTACTOR MARCHA/PARADA	△ 10276500
PT580	SPARK GAP FOLIE LJUNKE SPINTEROMETRO EXPLOSOR	△ 15154190
SK001,002,003, 004,005,006, 007	MICROSWITCH MICRO CONTACTOR MICROSCALTER MICROINTERRUPTORE MICROCONTACTOR	30011100
EQUIPMENT/PRESENTATION EQUIPEMENT/PRESENTATION AUSSTATTUNG/GEHAUSE PARTI VARIE EQUIPO/PRESENTACION		
PROTECTIVE CAP, PLASTIC ABDECKUNG, KUNSTSTOFF PROTEZIONE IN PLASTICA PROTECCION, PLASTICO		35071000
UPPER BOX EMBALLAGE SUPERIEURE KARTON OBER IMBALLAGGIO SUPERIORE EMBALAJE SUPERIOR		35070940
FITTING DOWNER FOUD DE CARTON POISIER JNTEH DISTANZIAZIONE INFERIORE CALZO INTERIOR		10524970
ADAPTER ANTENNA ADAPTEUR D'ANTENNE ADAPTOR ANTENNA ADAPTADOR ANTENA		10460690

CABINET ASSY CORRETTOR GEHAUSE KPL MOBILE COMPLETO MUEBLE EQUIPADO		25397880
REAR PANEL UPPER DOS SUPERIEUR RUECKWAND OBEN PANNELLO POSTERIORE SUPERIORE TAPA POSTERIOR SUPERIOR		△ 25418870
REAR PANEL DOWNER DOS INFERIEUR RUECKWAND UNTEH PANNELLO POSTERIORE INFERIORE TAPA POSTERIOR INFERIOR		△ 25418880
FRONT COVER ASSY FACADE EQUIPEE FRONTPLATTE KPL PANNELLO FRONTALE COMPLETO PAVEL FRONTAL EQUIPADO		25398880
LOGO THOMSON LOGO THOMSON SCHRIJFTEUK THOMSON MARCHIO THOMSON LOGOTIPO THOMSON		25388800
LOUDSPEAKER GRID GRILLE HAUTE PARLEUR LAUTSPRECHER GITTER GRILIA ALTOPARLANTE REJILLA ALTAVOZ		25398900
COVER JACK SOCKET CACHE PRESSE JACK ABDECKUNG BUCHSE COPERCHIO PRESA JACK CUBIERTA TOMA JACK		25298150
UNIT FOCUS SUPPORT SUPPORT BLOCC FOCUS BLOCC FOCUS FAITER SUPPORTO GRUPPO FOCUS SOPORTO BLOQUE FOCUS		△ 15443370
R SUPPORT SUPPORT R FAITERIR SUPPORTORIR SOPORTE R		△ 15462500
8R OHM 20W LOUDSPEAKER 130MM 8R OHM 20W HAUTE PARLEUR 130MM 8R OHM 20W LAUTSPRECHER 130MM 8R OHM 20W ALTOPARLANTE 130MM 8R OHM 20W ALTAVOZ 130MM		10315940
8R OHM 15W LOUDSPEAKER 27X42 8R OHM 15W HAUTE PARLEUR 27X42 8R OHM 15W LAUTSPRECHER 27X42 8R OHM 15W ALTOPARLANTE 27X42 8R OHM 15W ALTAVOZ 27X42		10317160
ON/OFF BUTTON TOUCHE MARCHE/ARRET EIN/AUS TASTE TASTO ACCESO/SPENTO TECLA MARCHA/PARADA		25398850
BUTTON ASSY ENSEMBLE DE TOUCHES TASTENHEFT ASSIEME TASTI CONJUNTO DE TECLAS		25398840
HOLDER CONTROL UNIT SUPPORT DE COMMANDES HALTER BEDIENHEIL SUPPORTO DI COMANDO SOPORTE DE MANDO		25398520
POWER SUPPLY UNIT CORDON D ALIMENTATION NETZKABEL CABLO DI ALIMENTAZIONE CABLE DE ALIMENTACION		△ 10318870

RETAINING RAIL RIGLI DI DIMANTELAMENTO HALTESCHIENE BARRA DE FISSAGGIO LISTON DE SUJECION		25433730
SCREEN ECRAN BILDSCHIRM SCHERMO PANTALLA		25397790
GLASS PROTECTION VITRE DE PROTECTION GLAS SCHUTZ VETRO DI PROTEZIONE CRISTA DE PROTECCION		25397780
MIRROR MIRROIR SPHGLI SPECCHIO ESPEJO		25394840
ADHESIVE TAPE FOR 10540360 RUBAN ADHESIF 10540360 KLEBBAHND 10540360 NASTRO ADESIVO POR 10540360 CINTA ADHESIVO POR 10540360		15236720
CATHODE RAY TUBE GREEN TUBE CATHODIQUE VERTE TARBELEKROHRE GRUEN TUBO CATHODICO VERDE TUBO VERDE		15339670
CATHODE RAY TUBE BLUE TUBE CATHODIQUE BLEU TARBELEKROHRE BLAU TUBO CATHODICO AZZURRO TUBO AZUL		15339710
CATHODE RAY TUBE RED TUBE CATHODIQUE ROUGE TARBELEKROHRE ROT TUBO CATHODICO ROSSO TUBO ROJO		15339700
DEFLECTION YOKE DEVIATEUR ABLENKHEBEL BOBINA DI DEFESSIONE DEFLECTOR		10540340
FLUX BOARD (COIL BSMV) CABLE PLATINE (BOBINE BSMV) KABELPLATINE (SPULE BSMV) CAVO PASIRA (BOBINA BSMV) CABLE PLATINA (BOBINA BSMV)		10540360
FITTING UPPER DESSUS DE CARTON POISIER OBER DISTANZIAZIONE SUPERIORE CALZO SUPERIOR		10524990
FITTING RIGIDIFIER COTE DE CARTON POLSTER RECHTS/UNTS DISTANZIAZIONE SUPERIORE CALZO RIGIDIFICATORE		10524980
LOADING BOX RP52, CP1 EMBALLAGE CARTON RP52 COMPLET KARTON RP52, KPL IMBALLAGGIO CARTONE RP52 IMBALLAJE CARTON RP52		35070910
RC 4130 REMOTE CONTROL RC 4130 TELECOMMANDE RC 4130 FERNBEDIENUNG RC 4130 TELECOMANDO RC 4130 TELEMANDO		21076730



RP19 SERVICE MANUEL EUROPE	35064580
RP19 DOCTECHNIQUE EUROPE	
RP19 TECHNISCHE DOKUMENTATION EUROPE	
RP19 DOCUMENTAZIONE TECNICA EUROPE	
RP19 DOCUMENTACION TECNICA EUROPE	
RP19 SERVICE MANUEL S.J.P.P.I.M.E.N.I	35088640
RP19 DOCTECHNIQUE ADDITIF	
RP19 TECHNISCHE DOKUMENTATION ZUSATZ	
RP19 DOCUMENTAZIONE TECNICA ADDITIVO	
RP19 DOCUMENTACION TECNICA ADITIVO	
CDROM ICC*9 VERSION 2	35075700
CDROM ICC*9 VERSION 2	
CDROM ICC*9 VERSION 2	
CDROM ICC*9 VERSION 2	
CDROM ICC*9 VERSION 2	
52RW64E PARTIELISTE	35094280
52RW64E LISTA DE PIECES DETACHEES	
52RW64E ERSATZTEILLISTE	
52RW64E LISTA PARTI DI R.CAMBIO	
52RW64E LISTA DE PIEZAS DE REPUESTO	
RPC*9 SA LUMINIA/GB/NL/S/DK/ PL/CZ/H/SK/RU/GR/P	25424770
RPC*9 SA NJTH D/F/VE/GB/NL/S/DK/ PL/CZ/H/SK/RU/GR/P	
RPC*9 SA BATHIA/GB/NL/S/DK/ PL/CZ/H/SK/RU/GR/P	
RPC*9 SA NJTH D/F/VE/GB/NL/S/DK/ PL/CZ/H/SK/RU/GR/P	
RPC*9 SA NJTH D/F/VE/GB/NL/S/DK/ PL/CZ/H/SK/RU/GR/P	
52RW64E UMBATHIA/GB/NL/S/DK/ PL/CZ/H/SK/RU/GR/P	25392060
52RW64E NUJTH D/F/VE/GB/NL/S/DK/ PL/CZ/H/SK/RU/GR/P	
52RW64E BATHIA/GB/NL/S/DK/ PL/CZ/H/SK/RU/GR/P	
52RW64E IJTH D/F/VE/GB/NL/S/DK/ PL/CZ/H/SK/RU/GR/P	
52RW64E IJTH D/F/VE/GB/NL/S/DK/ PL/CZ/H/SK/RU/GR/P	

52RW64E

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