

TV

Service Manual

2. Ergänzung / Supplement 2

Chassis K1

Lenaro

55 Flat MF 55-5501 Top

GBD0900

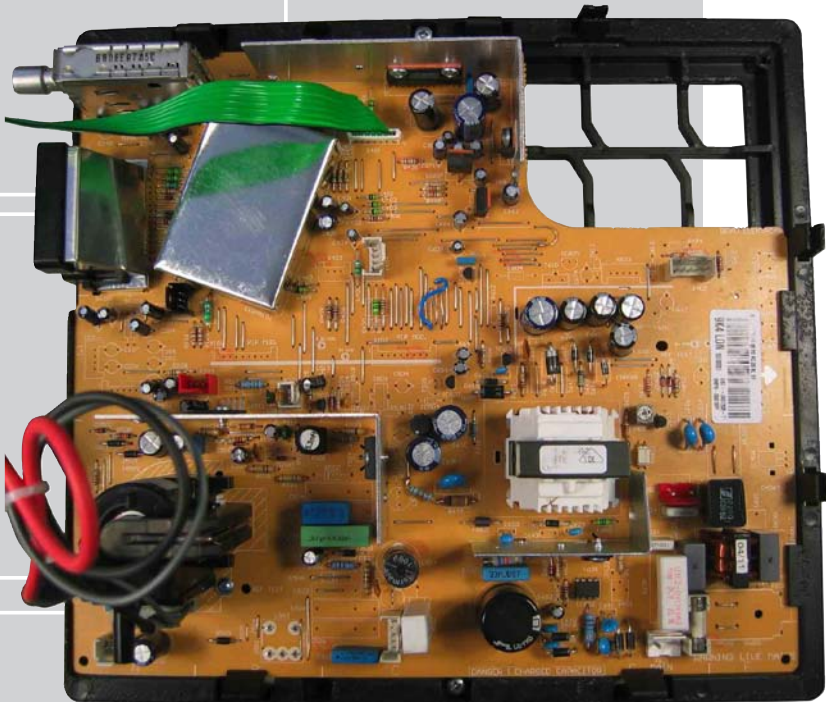
55 Flat MF 55-5501/8 Top

GBD0800

Xentia

55 MFS 55-4601/8 Top

GBE4400



Zusätzlich erforderliche Unterlagen für den Komplettservice
Additionally required Service Documents for the Complete Service

Service Manual

Chassis
K1

Materialnr./Part No.
720100517000

Service Manual

Sicherheit
Safety

Materialnr./Part No.
720108000001

Materialnummer/Part Number 720100517200

Änderungen vorbehalten/Subject to alteration

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Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Materialnummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

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Allgemeiner Teil

Einführung

In dieser Service-Manual-Ergänzung sind weitere Gerätevarianten dokumentiert, die mit dem Chassis C7/C8 ausgestattet sind. Außerdem sind geänderte Platinenabbildungen und Schaltpläne abgebildet.

Hinweis:

Grundlage für den Service sind folgende Service Manuals:

- Service Manual Sicherheit, Materialnummer 720108000001
- Service Manual Chassis K1, Materialnummer 720100517000

Allgemeine Hinweise

Achtung: ESD-Vorschriften beachten 

Vor dem Öffnen des Gehäuses zuerst den Netzstecker ziehen!

Leitungsverlegung

Bevor Sie die Leitungen und insbesondere die Masseleitungen lösen, muss die Leitungsverlegung zu den einzelnen Baugruppen beachtet werden.

Nach erfolgter Reparatur ist es notwendig, die Leitungsführung wieder in den werkseitigen Zustand zu versetzen um evtl. spätere Ausfälle oder Störungen zu vermeiden.

General Section

Introduction

This Supplement of Service Manual describes more variants of sets fitted with chassis C7/C8. In addition changed PCB illustrations and circuit diagrams are shown.

Note:

Basic instructions for servicing are given in the following Service Manuals:

- Service Manual Safety, Part Number 720108000001
- Service Manual Chassis K1, Part Number 720100517000

General Notes

Attention: Observe the ESD safety regulations 

Before opening the cabinet disconnect the mains plug!

Wiring

Before disconnecting any leads and especially the earth connecting leads observe the way they are routed to the individual assemblies.

On completion of the repairs the leads must be laid out as originally fitted at the factory to avoid later failures or disturbances.

Technische Daten / Technical Data

	Lenaro 55 Flat MF 55-5501 TOP J3W	Lenaro 55 Flat MF 55-5501/8 TOP J3X	Xentia 55 Flat MFS 55-4601/8 TOP L4R
Order No.	G.BD 09-00	G.BD 08-00	G.BD 44-00
EAN	40 13833-59912 8	40 13833-59911 1	40 13833-60364 1
Color	procon silver		procon silver
Destination	D, A, CH, I	CH, NL, F, E, P, DK, FIN, N, S, PL, H, HR, CZ	D, CH, I, P, PL, CZ
IM-Languages	D, I	GB, F, NL, DK, N, S, FIN, E, P, PL, CZ, HR	D, GB, I, P, PL, CZ
Remote control	TP 160 C		TP 160 C
PICTURE			
Size / Type	55 cm (21"), FST, (4:3)		55 cm (21"), FST, (4:3) Slim Line
Tube-Manufacturer	Philips, Samsung, Thomson, Erkranas		LG Philips
Real flat / Super flat	● / ○		● / ○
Deflection	90°		110°
100 Hz Picture-/32 kHz line frequency	○		○
Flicker free scanning (full frame memory)	○		○
Digital Color Transition Improv. (DCTI)	●		●
Digital Combfilter	●		●
Digital Luminance Transition Improv. (DLTI)	●		●
Picture Noise Reduction	●		●
SVM (Scan Velocity Moduladion)	○		○
Dynamic Focus	○		○
Preset picture modes	user, natural, rich, soft		user, natural, rich, soft
Tilt	○		○
Picture Formats	4:3 / 16:9		4:3 / 16:9
PIP (2 Tuner)	○		○
Multifold Tuner scan (Mosaic Picture)	○		○
PAT: Split screen (PICTURE + TEXT)	○		○
PAP: Double Window (PICTURE + PICTURE)	○		○
P2AT: Double Window + TXT	○		○
POP: PICTURE on PICTURE	○		○
Picture freezing	○		○
Quick programme display	with OK-key		with OK-key
Zoom with point function	○		○
Auto 16:9 selection via Scart	●		●
Auto 16:9 via WSS	●		●
Automatic Color Standard Detection	●		●
Sharpness control	●		●
Blue Background	●		●
CHASSIS			
TV-Chassis	K1 (50 Hz)		K1 (50 Hz)
Tuner	PLL frequency synthesizer tuning		PLL frequency synthesizer tuning
µ-Processor	VCT-I		VCT-I
Keyboard	4 ± keys for programme selection and volume (side)		4 ± keys for programme selection and volume (side)
ELECTRONIC			
Stand by indicator	blue LED		blue LED
EPG (Electronic Programme Guide)	Now & Next		Now & Next
Manual & autom. labeling of prog.	5 characters		5 characters
Programmable off timer	●		●
Programmable on timer	●		●
Intelligent channel search (Zapping funct.)	●		●
Programme Edit	●		●
Intelligent Programme Switch	●		●
Auto switch off	●		●
Programme memory TV/AV (opt.)	100/AV		100/AV
Teletext/Fasttext/Toptext	8 pages Level 1,5		8 pages Level 1,5
Teletext options	○		○
Teletext SWAP	○		○

	Lenaro 55 Flat MF 55-5501 TOP J3W	Lenaro 55 Flat MF 55-5501/8 TOP J3X	Xentia 55 Flat MFS 55-4601/8 TOP L4R
Childlock	●		●
Menue languages OSD	26 Languages: D, GB, F,I,E,P,NL,GR,TR,DK,FIN,N,S,SI,PL,H,RUS,RO,HR,CZ,SK,AL,BG,MK,SER,HEB		26 Languages: D, GB, F,I,E,P,NL,GR,TR,DK,FIN,N,S,SI,PL,H,RUS,RO,HR,CZ,SK,AL,BG,MK,SER,HEB
SWAP (Recall function)	○		○
Service mode	●		●
Luxury packet	○		○
Hotel mode	Simple hotel mode possible via service functions		Simple hotel mode possible via service functions
TUNING			
Autom. Tuning System with country selection	full automatic sorting		full automatic sorting
Frequency Based Auto Search	●		●
Automatic Micro-search	●		●
Automatic Programming	○		○
Manual fine tuning	●		●
Direct channel selection	●		●
PAL/SECAM/BG/DK/I/L/L	●●●/●○○○○○	●●●/●●●●●●	●●●/●●●●●●
NTSC-Playback via Scart (3,58/4,43)	●		●
Cable TV / Hyperband (S1-S41)	●		●
AUDIO			
Mono/Stereo/Nicam	● / ● / ○	● / ● / ●	● / ● / ●
AV Stereo	●		●
Virtual Dolby	○		○
Subwoofer	○		○
Dynamic Bass	○		○
DSP (Digital Sound Processor)	●		●
Balance Adjustment	●		●
AVL (Audio Volume Level)	●		●
PIP listening via Headphone jack	○		○
Equalizer	5 Band		5 Band
Space Sound Effect	●		●
Audio mode	cinema, music, sport, speech, user		cinema, music, sport, speech, user
Audio amplifier without extern LS	2 x 7 W (RMS)		2 x 7 W (RMS)
Tweeter (2 way speaker system)	○		○
POWER SUPPLY / CABINET			
Power voltage	230V~, 50/60 Hz		230V~, 50/60 Hz
Power switch	●		●
Power consumption	51 W, standby 2 W in accordance to IEC 62087-2002		55 W, standby 2 W in accordance to IEC 62087-2002
Cabinet (WxHxD, cm) / Weight	61,2 x 45,1 x 47,7 cm approx. 22,2 kg		61,5 x 45,0 x 38 cm approx. 23 kg
FRONT PANEL CONNECTIONS			
Headphones	●, (side)		●, (side)
Cinch-AV socket	3 x Cinch - Video in, Audio in L/R (side)		3 x Cinch - Video in, Audio in L/R (side)
S-Video	Hosiden (side)		○
REAR PANEL CONNECTIONS			
Euro-AV-Socket AV1	CVBS in-/output, RGB input		CVBS in-/output, RGB input
Euro-AV Socket AV2	CVBS in-/output, S-Video input		CVBS in-/output, S-Video input
Euro-AV Socket AV3	○		○
S-Video	via Scart		via Scart
Audio out	○		○
Antenna for terrestrial reception	1 x Coaxial-socket for TV-tuner-in, according to DIN 45325		1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Power supply plug	○		○

Service- und Sonderfunktionen

Service Mode aktivieren: Taste "i" -> Service Code "8500".

Menü aufrufen: Taste "P+/" "P-" -> "OK".

Einstellung verändern: Taste "◀/▶" bzw. 1/3, 4/6.

Menü verlassen: Taste "i".

Service Mode beenden: Taste "TXT".

1. Grundeinstellwerte

Nachfolgende Tabelle zeigt alle typenbezogenen Grundeinstellungen im Service Mode. Alle mit * gekennzeichneten Werte müssen zusätzlich nach Abgleich (Service Manual K1, Materialnummer 720100517000, Seite 2-1) eingestellt werden.

Service and Special Functions

Start of the Service Mode: Via "i" -> Service Code "8500".

Call up the Menu: Button "P+/" "P-" -> "OK".

Adjustments: Button "◀/▶" bzw. 1/3, 4/6.

Break of the Menu: Button "i".

End the Service Mode: Button "TXT".

1. Basic Settings

The following table shows all type specific basic settings in the service mode. In addition all values marked with * must be adjusted according to adjustment (Service Manual K1, part no. 720100517000, page 2-1).

Menü Menu ▼/▲ + "OK"	Menüpunkt Point of Menu ▼/▲	Einstellung Adjustment ◀/▶ (-10) 1 / 3 (+10) (-100) 4 / 6 (+100)	Hinweis Hint	Gerät / Type of Set		
				Lenaro 55 Flat MF 55-5501 TOP	Lenaro 55 Flat MF 55-5501/8 TOP	Xentia 55 MFS 55- 4601/8 TOP
OPTIONS	STANDBY	CUSTOMER MODE		X	X	X
		FACTORY MODE				
	AV1 YUV	AVAILABLE				
		N/A		X	X	X
	AV2 & AV3	AV2&AV3 AVAILABLE				
		AV2&AV3 N/A				
		AV2 AVAIL.-AV3 N/A		X	X	X
	AV4	CVBS + SVHS		X	X	
		CVBS ONLY				X
		SVHS ONLY				
		NONE				
	TELETEXT	FASTEXT + TOPTXT		X	X	X
		DEFAULT				
		FASTEXT				
		TOPTXT				
	TXT TABLE	AUTO		X	X	X
		WEST				
		EAST				
		GREEK				
		CYRILLIC				
		ARABIC				
		FARSI				
		HEBREW				
	LANGUAGE	1		X	X	X
		2				
	CRT	4.3		X	X	X
		16:9				
	PIP	N/A		X	X	X
		AVAILABLE				
	MAIN TUNER	PHILIPS	abhängig von Bestückung			
		PAN. DB2G3-DA5G3				
		TEMIC				
		PANASONIC D44G3	depends on ..			
		SHARP OR ALPS				
	PIP TUNER	PHILIPS	abhängig von Bestückung			
		PAN. DB2G3-DA5G3				
		TEMIC				
		PANASONIC D44G3	depends on ..			
		SHARP OR ALPS				
	SVM & DCI	OFF		X	X	X
		ON				
		MENU				
	BLUEBACK	ON		X	X	X
		OFF				
	LTI & COMB	ON		X	X	X
		OFF				
	CTI	ON				
		MENU		X	X	X
		OFF				

Menü Menu ▼/▲ + "OK"	Menüpunkt Point of Menu ▼/▲	Einstellung Adjustment ◀/▶ (-10) 1 / 3 (+10) (-100) 4 / 6 (+100)	Hinweis Hint	Gerät / Type of Set		
				Lenaro 55 Flat MF 55-5501 TOP	Lenaro 55 Flat MF 55-5501/8 TOP	Xentia 55 MFS 55- 4601/8 TOP
OPTIONS	DYNAMIC FOCUS	OFF		X	X	X
		ON				
	ADAPTIVE PKG.	MENU		X	X	X
		OFF				
	PROTECTION	ON				
		N/A				
		BCL ONLY				
		VERTICAL ONLY				
	PANORAMA	BCL & VERTICAL		X	X	X
		AVAILABLE				
	KEYBOARD	N/A		X	X	X
		P- P+ V- V+		X	X	X
	GAME	- P/V +				
		N/A		X	X	X
SOUND OPTIONS	BG	AVAILABLE				
		ALARM TIMER		X	X	X
		N/A				
		DEMO MODE		X	X	X
	DK	0		X	X	X
		1	ATS RESET			
		EUROPE		X	X	X
		NEW ZELLAND				
	I	AUSTRALIA				
		N/A				
	L/L'	AVAILABLE			X	X
		N/A		X		
	FM RADIO/TV GUIDE	AVAILABLE			X	X
		N/A		X		
SOUND OPTIONS	NICAM	TV GUIDE		X	X	X
		NONE				
		FM RADIO				
		AVAILABLE			X	X
	DOLBY VIRTUAL	N/A		X		
		AVAILABLE			X	X
	BASS OPTION	N/A		X	X	X
		DYNAMIC BASS				
		SUBWOOFER				
	HEADPHONE	NONE		X	X	X
		AVAILABLE		X	X	X
	PAT	N/A				
		AVAILABLE		X	X	X
	SIMPLE HOTEL	N/A		X	X	X
		AVAILABLE				
SOUND OPTIONS	HOTEL MAX VOL	EINSTELLWERT/VALUE				
			1020			
	OSD OFFSET			50	50	50
	AGC METHOD	BCL DELTA				
		SYNC ONLY				
		SYNC+PEAK WHITE&DARK				
		FIXED				
	TILT	SYNC+PEAK WHITE		X	X	X
		N/A		X	X	X
	TILT 0	AVAILABLE				
				0	0	0
	CRT 4:3, MODE 16:9					
		DISABLE AUTO CUTOFF				
		VIA FLYBL		X	X	X

Menü Menu ▼/▲ + "OK"	Menüpunkt Point of Menu ▼/▲	Einstellung Adjustment ◀/▶ (-10) 1 / 3 (+10) (-100) 4 / 6 (+100)	Hinweis Hint	Gerät / Type of Set		
				Lenaro 55 Flat MF 55-5501 TOP	Lenaro 55 Flat MF 55-5501/8 TOP	Xentia 55 MFS 55- 4601/8 TOP
IF ADJ.	AGC			4		4
	AGC FOR VHF I			4		4
	PIP AGC			15		15
	PIP AGC FOR VHF I			20		20
50HZ GEOM.	VERTICAL AMPLITUDE*			-250		245
	VERTICAL SHIFT*			2		5
	LINEARITY*			20		0
	S-CORRECTION*			140		140
	VERTICAL ANGLE*			0		0
	VERTICAL BOW*			0		0
	START LINE MEASUR.			11		11
	VER. BLANKING STOP			20		21
	VER. BLANKING START			333		333
	HORIZONTAL WIDTH*			0		75
	HORIZONTAL SHIFT*			-23		-25
	TRAPEZE CORR. I*			0		0
	CUSHION CORR. I*			0		-120
	UPPER CORNER 1 I*			0		40
	LOWER CORNER 1 I*			0		40
	UPPER CORNER 2 I*			0		0
	LOWER CORNER 2 I*			0		0
	HOR. BLANKING STOP			215		210
	HOR. BLANKING START			1235		1235
	HOR. OSD POSITION*			31		31
	VER. OSD POSITION*			18		18
50HZ GEOM. HOR. II	HOR. WIDTH II			110		110
	VER ZOOM II			60		60
	FLYBL			14		14
	TRAPEZE CORR. II*			0		0
	CUSHION CORR. II*			0		-90
	UPPER CORNER 1 II*			0		10
	LOWER CORNER 1 II*			0		0
	UPPER CORNER 2 II*			0		0
	LOWER CORNER 2 II*			0		0
50HZ GEOM. EHT	EHT TRESHOLD			70		80
	EHT TIME CONSTANT			40		40
	VERTICAL EHT 1			-162		-130
	VERTICAL EHT 2			-160		-30
	HORIZONTAL EHT 1			0		-45
	HORIZONTAL EHT 2			0		-20
	EHT DTC			0		-50
	EHT P1			0		0
	EHT P2			0		0

Alle mit * gekennzeichneten Werte müssen zusätzlich nach Abgleich eingestellt werden
(Service Manual K1, Materialnummer 720100517000, Seite 2-1).

In addition all values marked with * must be adjusted according to adjustment
(Service Manual K1, Part Number 720100517000, page 2-1).

Menü Menu ▼/▲ + "OK"	Menüpunkt Point of Menu ▼/▲	Einstellung Adjustment ◀/▶ (-10) 1 / 3 (+10) (-100) 4 / 6 (+100)	Hinweis Hint	Gerät / Type of Set		
				Lenaro 55 Flat MF 55-5501 TOP	Lenaro 55 Flat MF 55-5501/8 TOP	Xentia 55 MFS 55- 4601/8 TOP
60HZ GEOM.	VERTICAL AMPLITUDE*			-206		280
	VERTICAL SHIFT*			9		10
	LINEARITY*			0		0
	S-CORRECTION*			-41		140
	VERTICAL ANGLE*			0		0
	VERTICAL BOW*			0		0
	START LINE MEASUR.			11		11
	VER. BLANKING STOP			18		21
	VER. BLANKING START			333		333
	HORIZONTAL WIDTH*			0		70
	HORIZONTAL SHIFT*			-42		-35
	TRAPEZE CORR. I*			0		0
	CUSHION CORR. I*			0		-125
	UPPER CORNER 1 I*			0		50
	LOWER CORNER 1 I*			0		50
	UPPER CORNER 2 I*			0		0
	LOWER CORNER 2 I*			0		0
	HOR. BLANKING STOP			190		190
	HOR. BLANKING START			1225		1225
	HOR. OSD POSITION*			18		18
	VER. OSD POSITION*			6		20
60HZ GEOM. HOR. II	HOR. WIDTH II			110		110
	VER ZOOM II			60		60
	CUTOFF TIMER			10		10
	TRAPEZE CORR. II*			0		0
	CUSHION CORR. II*			0		-120
	UPPER CORNER 1 II*			0		70
	LOWER CORNER 1 II*			0		0
	UPPER CORNER 2 II*			0		0
	LOWER CORNER 2 II*			0		0
60HZ GEOM. EHT	EHT TRESHOLD			80		80
	EHT TIME CONSTANT			40		40
	VERTICAL EHT 1			-93		-180
	VERTICAL EHT 2			-80		90
	HORIZONTAL EHT 1			0		30
	HORIZONTAL EHT 2			0		-230
	EHT DTC			0		0
	EHT P1			0		0
	EHT P2			0		0
VIDEO ADJ. I	R. DRIVE			356		356
	G. DRIVE			356		356
	B. DRIVE			356		356
	R. CUTOFF			156		156
	G. CUTOFF			156		156
	B. CUTOFF			156		156
	IBRM			270		320
	WDRM			290		370
	SCREEN ADJ.			296		300

Alle mit * gekennzeichneten Werte müssen zusätzlich nach Abgleich eingestellt werden
(Service Manual K1, Materialnummer 720100517000, Seite 2-1).

In addition all values marked with * must be adjusted according to adjustment
(Service Manual K1, Part Number 720100517000, page 2-1).

Menü Menu ▼/▲ + "OK"	Menüpunkt Point of Menu ▼/▲	Einstellung Adjustment ◀/▶ (-10) 1 / 3 (+10) (-100) 4 / 6 (+100)	Hinweis Hint	Gerät / Type of Set		
				Lenaro 55 Flat MF 55-5501 TOP	Lenaro 55 Flat MF 55-5501/8 TOP	Xentia 55 MFS 55- 4601/8 TOP
VIDEO ADJ. II	BCL GAIN			270		360
	BCL TRESHHOLD			200		150
	BCL TRESHHOLD II			130		80
	BCL TIME CONSTANT 1			511		511
	BCL TIME CONSTANT 2			0		0
	OSD BRIGHTNESS			120		190
	OSD CONTRAST			140		190
	TXT BRIGHTNESS			110		110
	TXT CONTRAST			110		160
	VC DELAY FOR PAL			9		9
	VC DELAY FOR SECAM			2		2
	VC DELAY FOR NTSC			10		10
	SUBCARRIER ADJ.			18		18
VIDEO ADJ. III	DPWL GAIN			-300		-250
	DPWL START P.			400		450
	PWL TIME CONSTANT			1		1
	PWL			90		90
	SVM GAIN			0		0
	SVM CORING			0		0
	SVM LIMITER			0		0
	SVM DELAY			0		0
	SVM DIFF. WINDOW			0		0
PIP POSITION						
EE- PROM EDIT	ADDRESS	---H				
	DATA (HEX)	00H				
	DATA (BINARY)	0000 0000B				
PRESET	OPTIONS					
	SOUND OPTIONS					
	IF ADJ.					
	GEOMETRY ADJ.					
	VIDEO ADJ.					
	ALL OPTIONS & ADJ.					

2. Austausch des IC101 oder IC401

Nach Austausch des IC101 oder IC401 müssen alle Einstellungen im Service Mode nach Tabelle "Grundeinstellwerte" (Punkt 1) überprüft und gegebenenfalls durchgeführt werden.

3. Programmsuchlauf (ATS)

Tasten "i" (Hauptmenü) → P+ / P- "Suchen/Abstimmung" → "OK" → P+ / P- "Programmsuchlauf" → "OK" → P+ / P- / ◀ / ▶ Land auswählen und mit "OK" Suchlauf starten.

Das automatische Sendersuchsystem stoppt bei jedem empfangswürdigen Sender (AFC und Koinzidenz) und speichert automatisch die entsprechenden Senderdaten mit dem jeweiligen Standard. Danach wird der Suchlauf fortgesetzt.

Tastendruck "i" bricht den ATS-Lauf ab.

4. Software-Versionsnummern

Die TV-Software-Versionnummer wird im Service Menü angezeigt:

z.B. SK1256G-02 T01
15:59:17
23/02/05 F1

5. Testbild

- Service Mode aktivieren: "i" → "8500"
- Taste "AV" drücken.

6. Schutzschaltung

Im Fehlerfall wird über die Pins 50 und 59 des IC101 das Gerät in Standby geschaltet. Im Service Mode kann diese Schutzschaltung zur Fehlersuche abgeschaltet werden: "i" → "8500" → P+ / P- "OPTIONS" → "OK" → P+ / P- "PROTECTION" → ◀ / ▶ "N/A", "BCL ONLY", oder "VERTICAL ONLY".

Nach der Reparatur muss die Schutzschaltung wieder eingeschaltet werden "BCL & VERTICAL"!

7. EEPROM Edit

Diese Funktion ist ausschließlich für die Entwicklung. Bei Eingaben jeglicher Art sind die Gerätefunktionen nicht mehr gewährleistet.

8. Basiswerte "PRESET"

Achtung: Der Aufruf der einzelnen "PRESET" überschreibt gerätespezifische Parameter mit Basiswerten. Die Gerätefunktionen sind nach dem Aufruf dieser Funktionen nicht mehr gewährleistet. Alle Einstellungen im Service Mode **müssen** gemäß der Tabelle "Grundeinstellwerte" (Punkt 1) durchgeführt werden.

Aufruf: "i" → "8500" → P+ / P- "PRESET" → "OK".

Es können folgende Basiswerte geladen werden:

- Options
- Sound Options
- IF Adj.
- Geometry Adj.
- Video Adj.
- All Options & Adj.

9. Hotel-Mode

Bei aktivierter Funktion ist die maximale Lautstärke begrenzt und die Programmtabelle und Installation sind im MENU INFO nicht mehr enthalten.

Aufruf: "i" → "8500" → P+ / P- "SOUND OPTIONS" → "OK" → P+ / P- "SIMPLE HOTEL" → ◀ / ▶ "AVAILABLE".

Maximale Lautstärke: "i" → "8500" → P+ / P- "SOUND OPTIONS" → "OK" → P+ / P- "HOTEL MAX VOL" → ◀ / ▶ Wert 0...63.

9.1 Sonderfunktion bei aktiviertem Hotel-Mode

Bei dieser Sonderfunktion ist im Menü Ton die maximale Lautstärke "Maxvol" zusätzlich einstellbar. Des weiteren sind die Menüs Programmtabelle und Sonderfunktionen bis zum nächsten Ausschalten (Standby) des Gerätes verfügbar.

Aufruf: "i" → P+ / P- "Sonderfunktionen" → "OK" → Codezahl "4658"

2. Change of the IC101 or IC401

After changing the IC101 or IC401 all settings in the service mode must be checked and if necessary be done according to the table "Basic Settings" (point 1).

3. Autoprogram (ATS)

Buttons "i" (Main menu) → P+ / P- "Channel Settings" → "OK" → P+ / P- "Autoprogram" → "OK" → P+ / P- / ◀ / ▶ select Country and start search with "OK".

The autoprogram system stops at every station of acceptable reception quality (AFC and coincidence) and stores the station data and the respective standard automatically. The system then continues searching.

Pressing the "i" button stops the ATS function.

4. Software Version Numbers

The TV software version number is shown in the Service Menu:

e.g. SK1256G-02 T01
15:59:17
23/02/05 F1

5. Test Pattern

- Activate the service mode: "i" → "8500"
- Press button "AV".

6. Protection Circuit

In case of malfunction the set is switched to standby via pins 50 and 59 of IC101. This protection circuit can be switched off in the service mode to find the defect: "i" → "8500" → P+ / P- "OPTIONS" → "OK" → P+ / P- "PROTECTION" → ◀ / ▶ "N/A", "BCL ONLY", or "VERTICAL ONLY".

After finishing the repair the protection circuit must be switched on again "BCL & VERTICAL"!

7. EEPROM Edit

This function is only for development. Any settings may cause a defective set.

8. Basic values "PRESET"

Attention: All device-specific values will be replaced by basic values when calling up any "PRESET". The unit functions are not ensured after calling up any presets. All settings in the service mode **must** be done according to the table "Basic Settings" (point 1).

Call up: "i" → "8500" → P+ / P- "PRESET" → "OK".

The following basic values can be loaded:

- Options
- Sound Options
- IF Adj.
- Geometry Adj.
- Video Adj.
- All Options & Adj.

9. Hotel Mode

Maximum volume is limited and there is no access to "Preset List" and "Channel Settings" at activated hotel mode.

Call up: "i" → "8500" → P+ / P- "SOUND OPTIONS" → "OK" → P+ / P- "SIMPLE HOTEL" → ◀ / ▶ "AVAILABLE".

Maximum volume: "i" → "8500" → P+ / P- "SOUND OPTIONS" → "OK" → P+ / P- "HOTEL MAX VOL" → ◀ / ▶ Value 0...63.

9.1 Special Functions at activated Hotel Mode

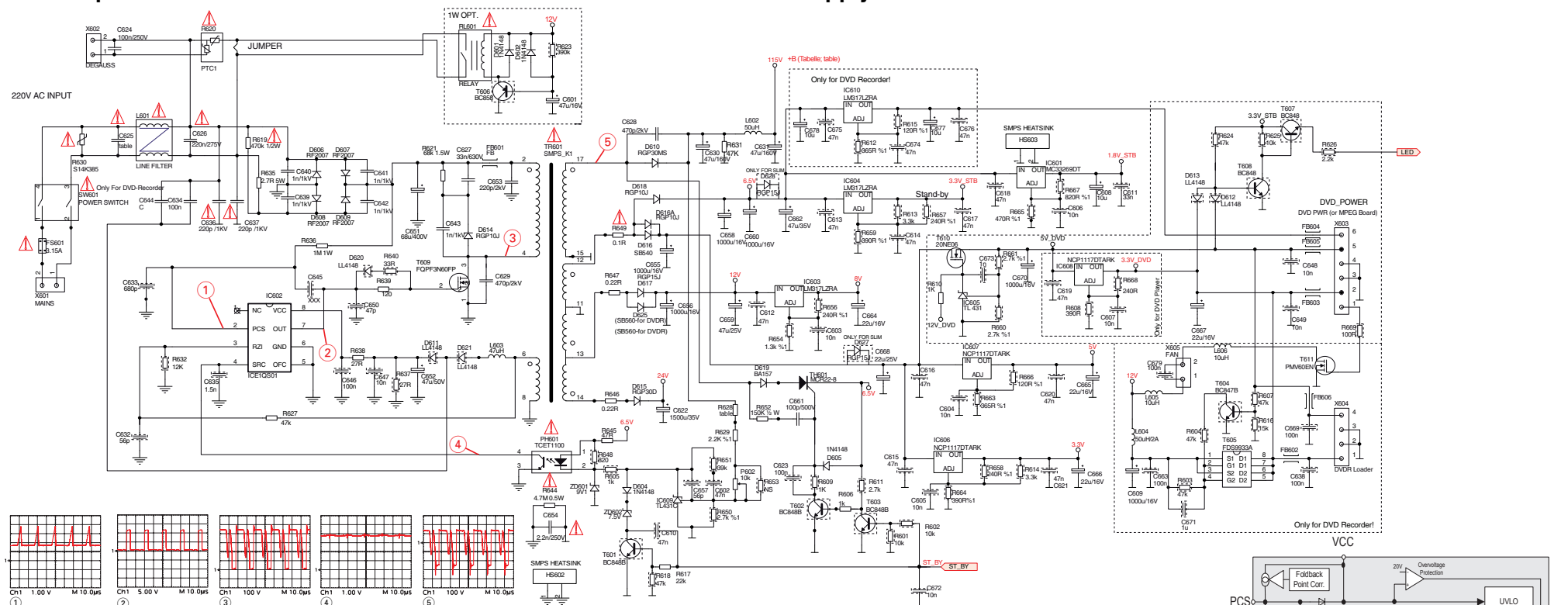
The maximum volume can be adjusted in the additionally menu item "Maxvol" in the sound menu.

In addition there is access to the menus "Preset List" and "Channel Settings" until the set is switched off (standby).

Call up: "i" → P+ / P- "Settings" → "OK" → Code number "4658"

Schaltpläne und Platinenabbildungen / Circuit Diagrams and Layout of the PCBs

Chassisplatte KX1.190-08 – Netzteil / Chassis Board KX1.190-08 – Power Supply

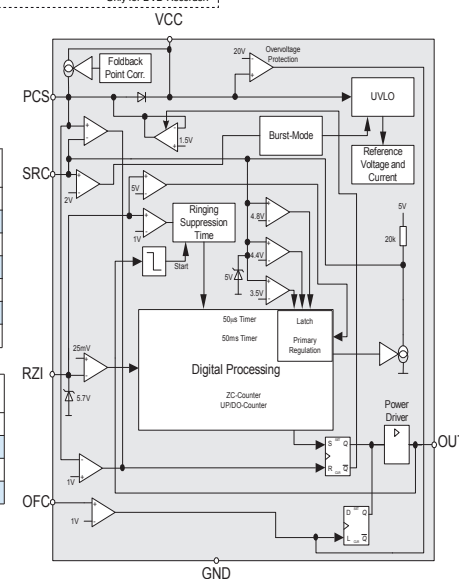


Variantenliste / Variant List

	Bildröhre / CRT	+B	TR502	TR601	C406	C407	C513	C527	C528	L504	L603	R516	R517	R522	R523	R629
20"	SS A48ECR43X51 (MACAR)	114V	040146-EL1/-TR2	050150R-E1/-T1			470PF	9.1NF	360NF	55UH	47UH	3.9R	3.9R	0.22R	330R	2.2K
21"	LG-PH A51ERS357X550 PF (SLIMLINE) UK	136V	040S01R-E1/-T1	050S01R-E1/-T1			220PF	1NF	360NF	45UH	4.7UH	2.2R	2.2R	2.2R	180R	27K
21"	LG-PH A51ERS357X550 PF (SLIMLINE) CIN	136V	040S01R-E1/-T1	050S01R-E1/-T1			220PF	1NF	360NF	45UH	4.7UH	2.2R	2.2R	2.2R	180R	27K
21"	EK A51EKS71X11 AK MASK VEC.GUN P.F.	125V	040150R-E1/-T1	050150R-E1/-T1	15NF	15NF	150PF	7.8NF	240NF	70UH	47UH	3.3R	3.3R	0.47R	330R	15K
21"	GS A51ERF135X80 PF (WW)	125V	040150R-E1/-T1	050150R-E1/-T1	15NF	15NF	220PF	8.2NF	270NF	70UH	47UH	3.9R	3.9R	1.2R	390R	15K
21"	PH A51QD420X16 PF ENDONEZYA	122V	040150R-E1/-T1	050150R-E1/-T1	15NF	15NF	220PF	8.6NF	470NF	70UH	470UH		1.8R	0.68R	330R	10K
21"	PH A51QAE320XA1 INDONEZYA	112V	040146-EL1/TR2	050150R-E1/-T1			150PF	8.6NF	470NF	70UH	1UH	3.9R	3.9R	0.22R	330R	1.8K
21"	SS A51QDX993X030 P.FLAT(MACAR)	122V	040150R-E1/-T1	050150R-E1/-T1				8.6NF	270NF	100UH	4.7UH	3.9R	3.9R	0.22R	330R	10K
21"			040150R-J1					8.6NF						3.3R		
21"	SS A51QDX993X230 P.FLAT (MACAR)	122V	040150R-E1/-T1	050150R-E1/-T1				7.8NF	270NF	100UH	4.7UH	3.9R	3.9R	0.22R	330R	10K
21"			040150R-J1					8.6NF						3.3R		
21"	A51EER33X78(LGM)	114V	040146-EL1/TR2	050150R-E1/-T1			220PF	7.8NF	390NF	55UH	1UH	3.9R	3.9R	0.47R	330R	2.2K
21"		115V					150PF	10NF			47UH			1R		
21"	VC A51ELD032X001 P.FLAT (DY)	125V	040150R-E1/-T1	050150R-E1/-T1				8.2NF	220NF	100UH	22UH	3.3R	3.3R	0.22R	330R	15K
21"			040150R-J1					9.1NF			4.7UH			1.2R		
21"	VC A51EFS13X191	111V	040146-EL1/TR2	050150R-E1/-T1				8.2NF	470NF	55UH	1UH	3.9R	3.9R	0.22R	330R	1.8R

TR502	Materialnummer	Part Number
040146-EL1	759551076600	
040146-TR2	759551223900	
040S01R-E1	759551224000	
040S01R-T1	759551224100	
040150R-T1	759551224200	
040150R-E1	759551163000	
040150R-J1	759551224300	

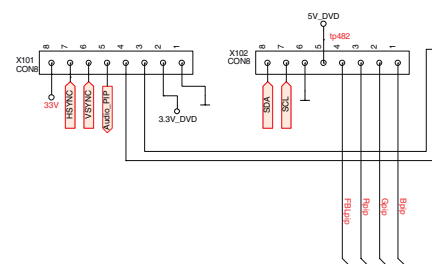
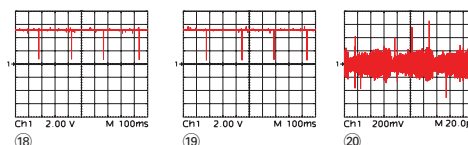
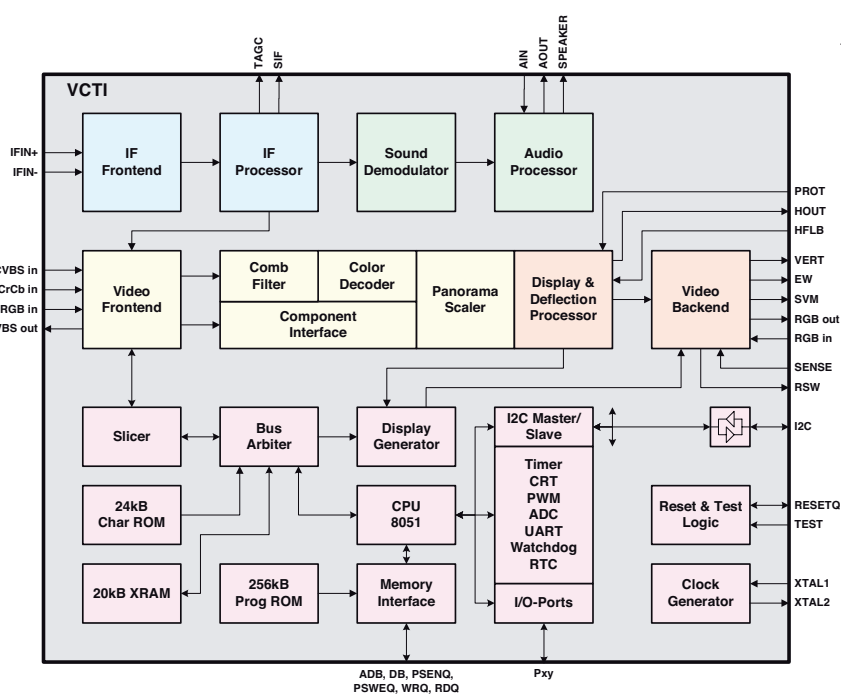
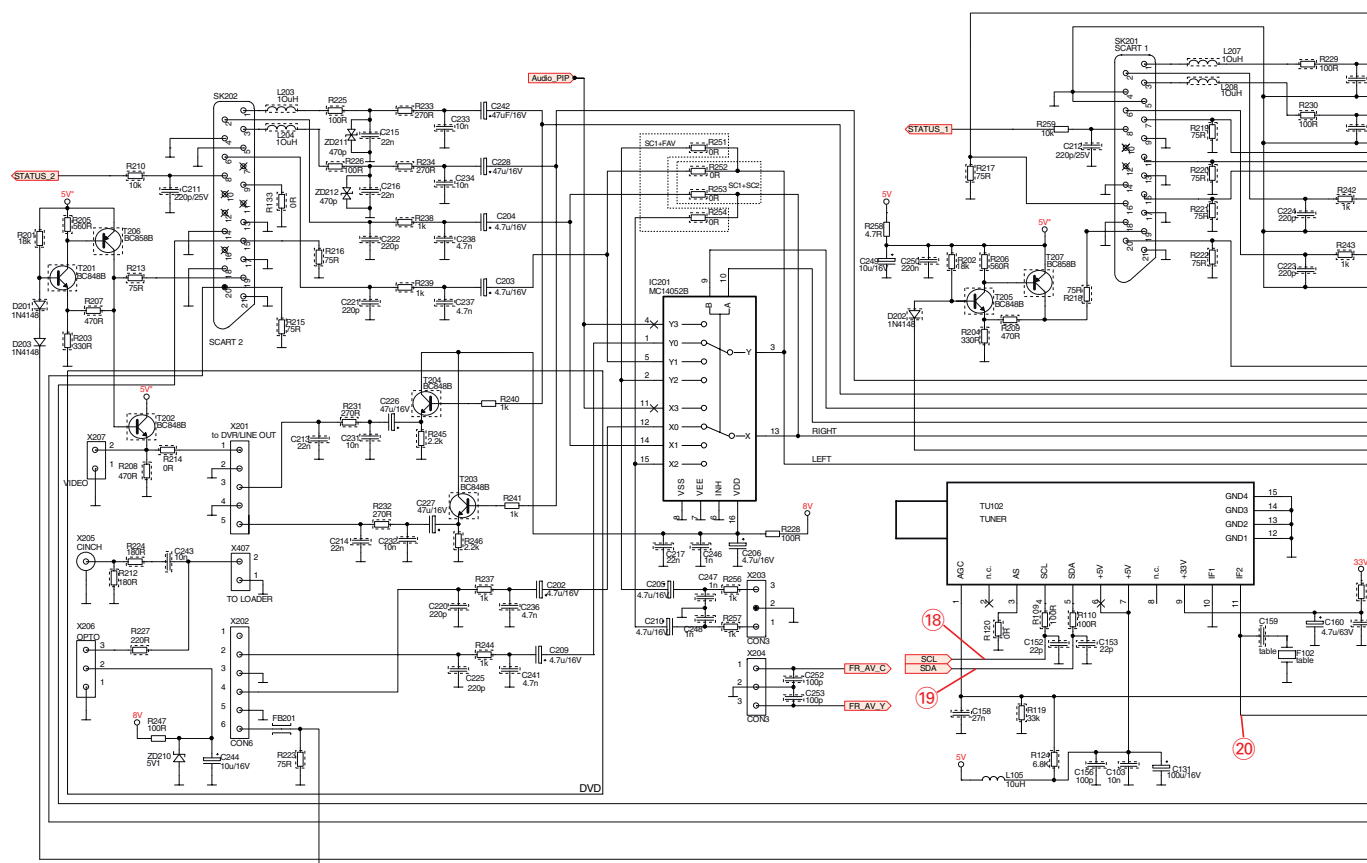
TR601	Materialnummer	Part Number
050150R-E1	759551153400	
050150R-T1	759551224400	
050S01R-E1	759551224500	
050S01R-T1	759551224600	



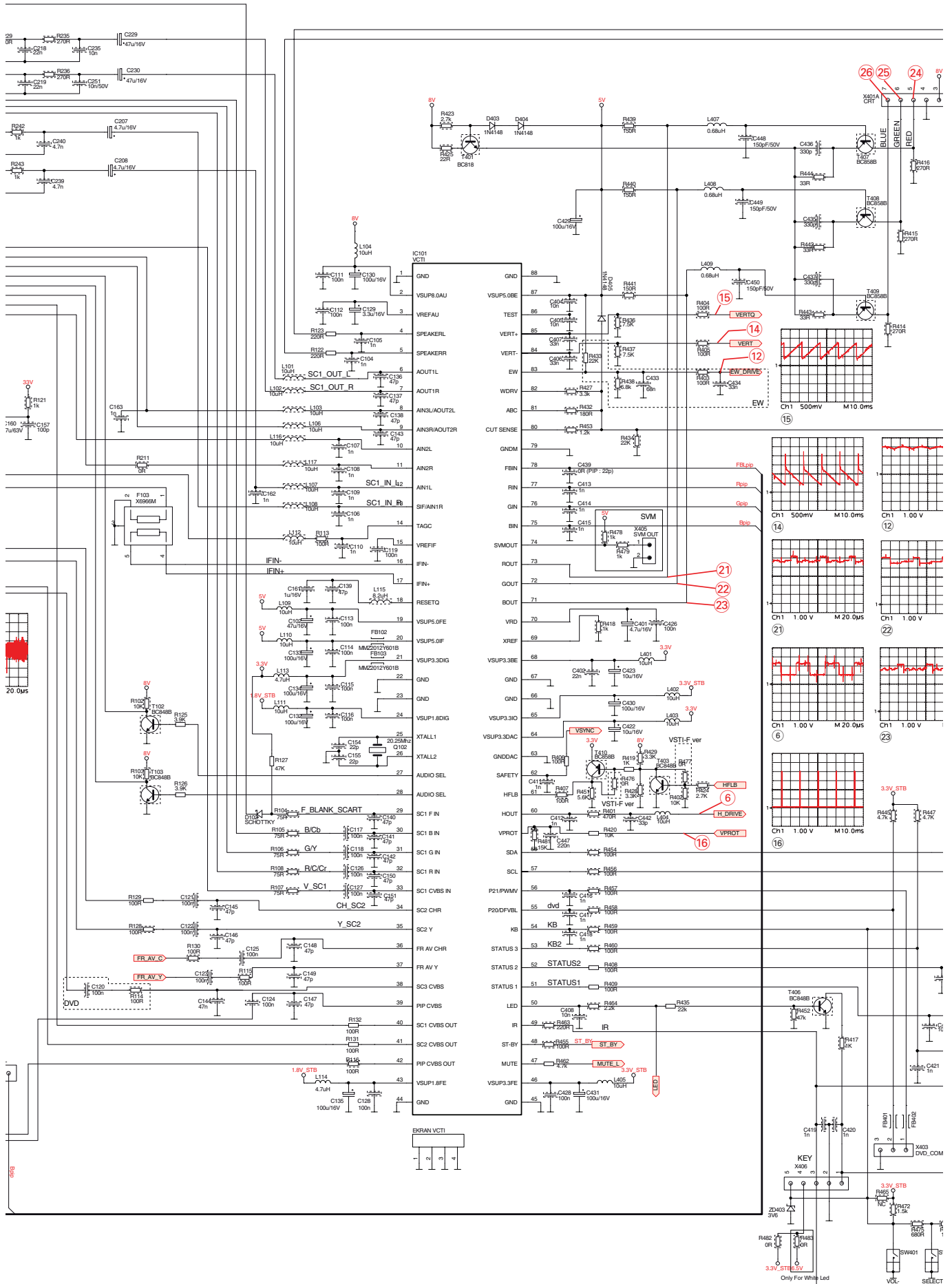
The schematic diagram illustrates the internal circuitry of the 21" SLIM CRT section of the T506 DVD player. It details the power supply, video processing, and CRT driver stages. Key components include the HSYNC, HFLB, H_DRIVE, and EW_DRIVE inputs, the H501 HEATSINK, the T504 2SD2586 driver, the T505 BC327 driver, and the T506 BC848 driver. The diagram also shows the 21" SLIM CRT, the DVD_POWER section, and the PROTECTION section. Various components are labeled with callouts 6 through 13.



Chassisplatte KX1.190-08 – Hauptteil / Chassis Board KX1.190-08 – Main Part

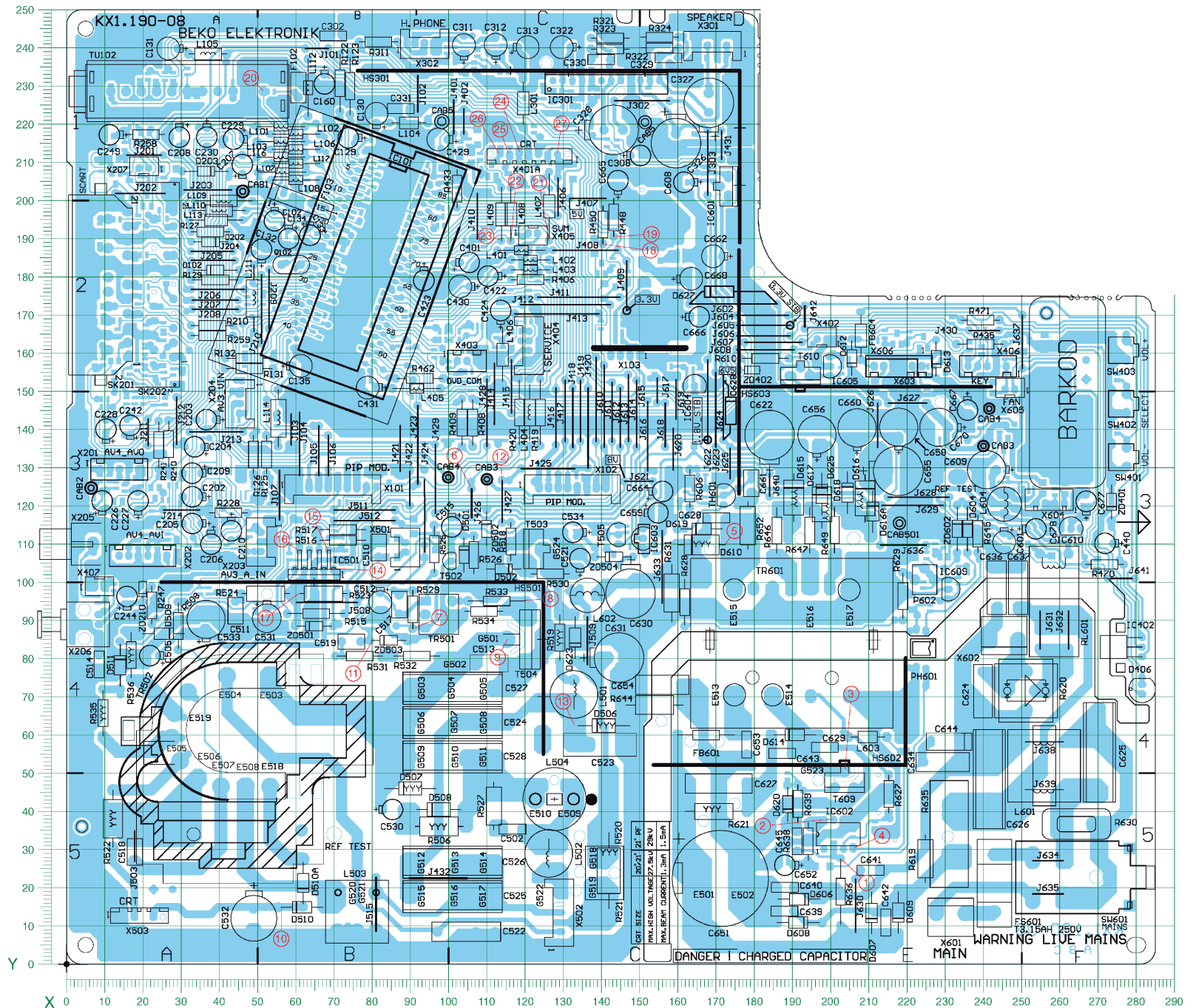


Chassisplatte KX1.190-08 – Hauptteil / Chassis Board KX1.190-08 – Main Part



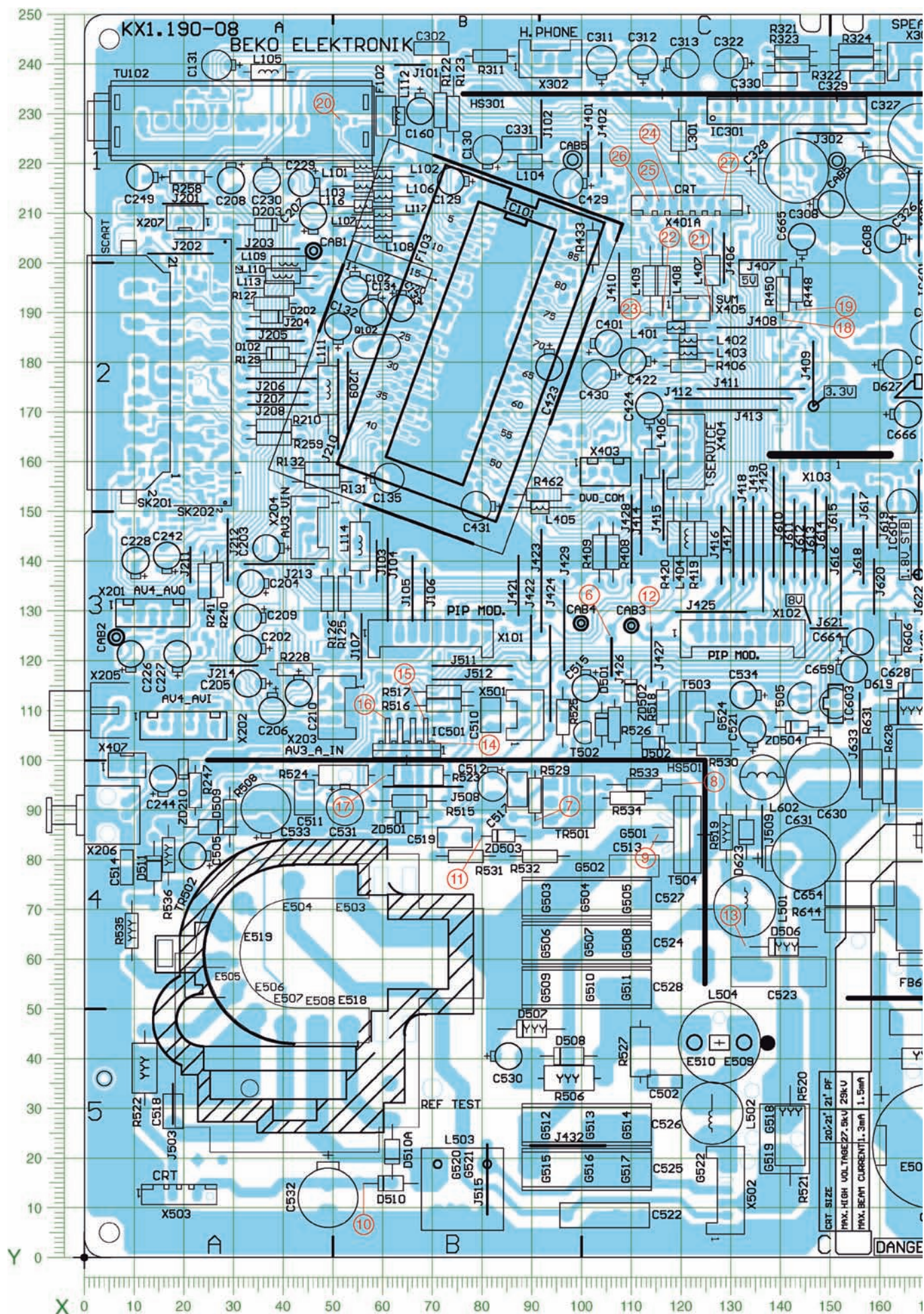
Chassisplatte KX1.190-08 / Chassis Board KX1.190-08

Ansicht auf die Bestückungsseite
 View on Component Side



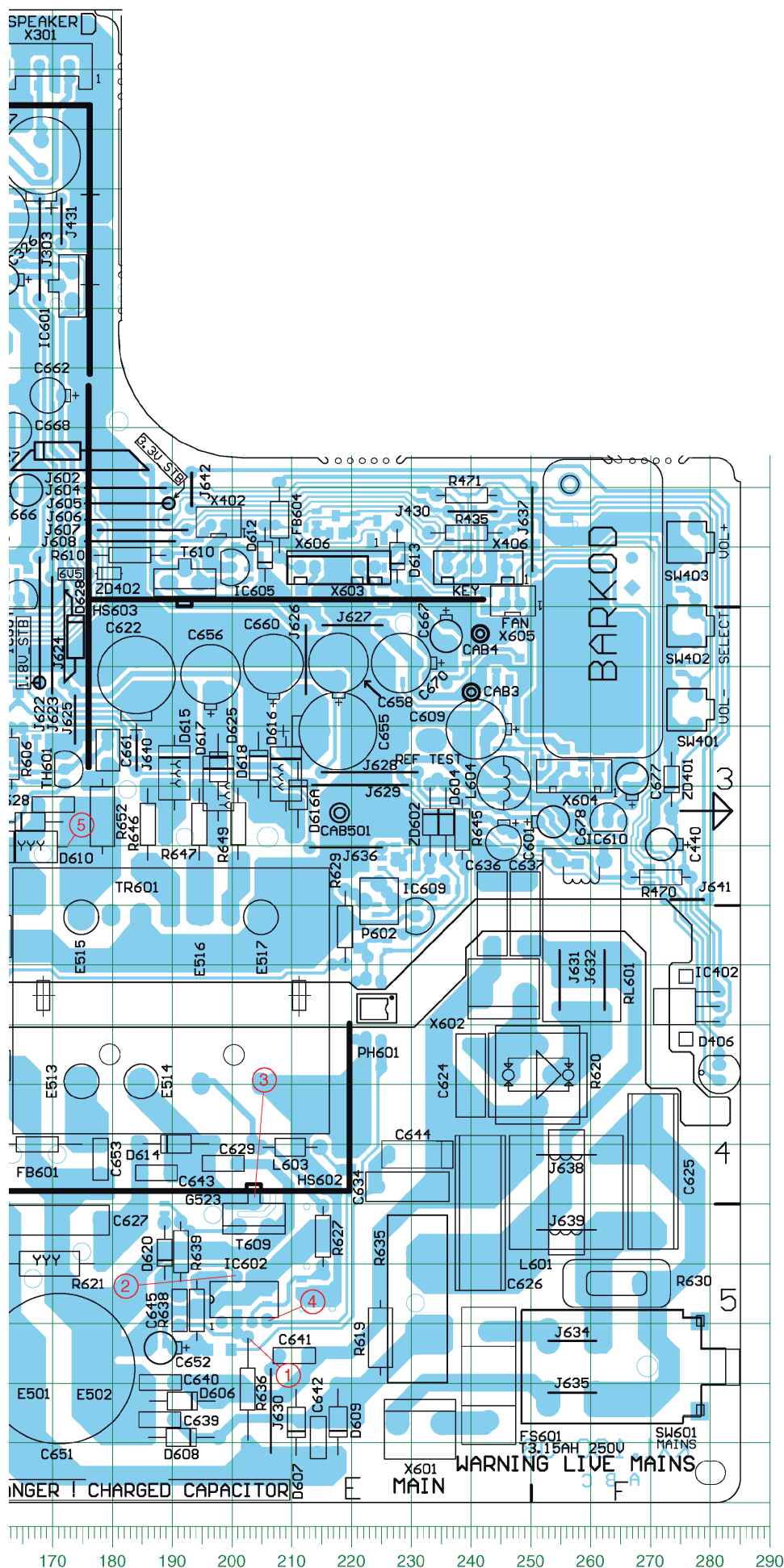
Chassisplatte KX1.190-08 / Chassis Board KX1.190-08

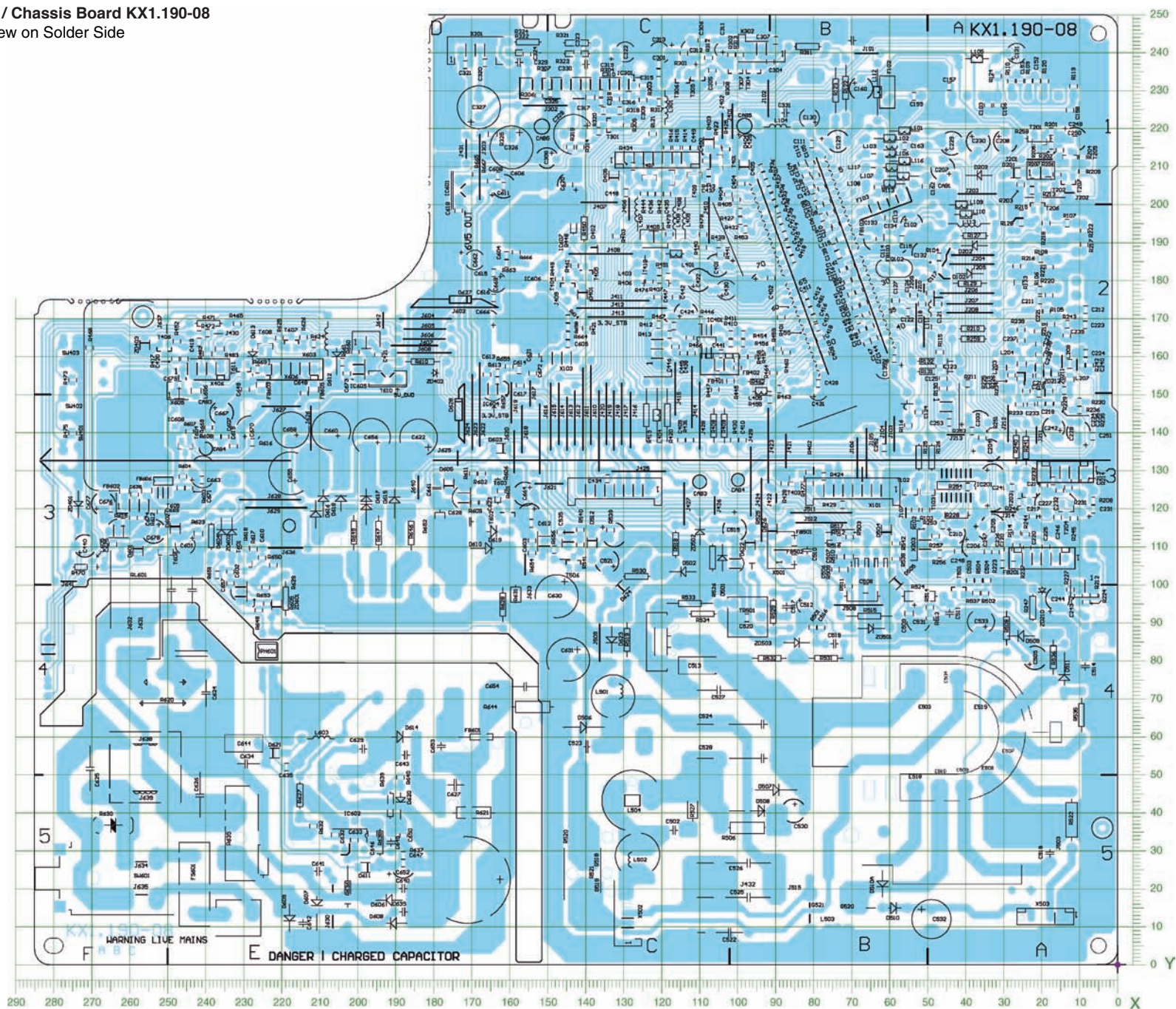
Ansicht auf die Bestückungsseite / View on Component Side



Chassisplatte KX1.190-08 / Chassis Board KX1.190-08

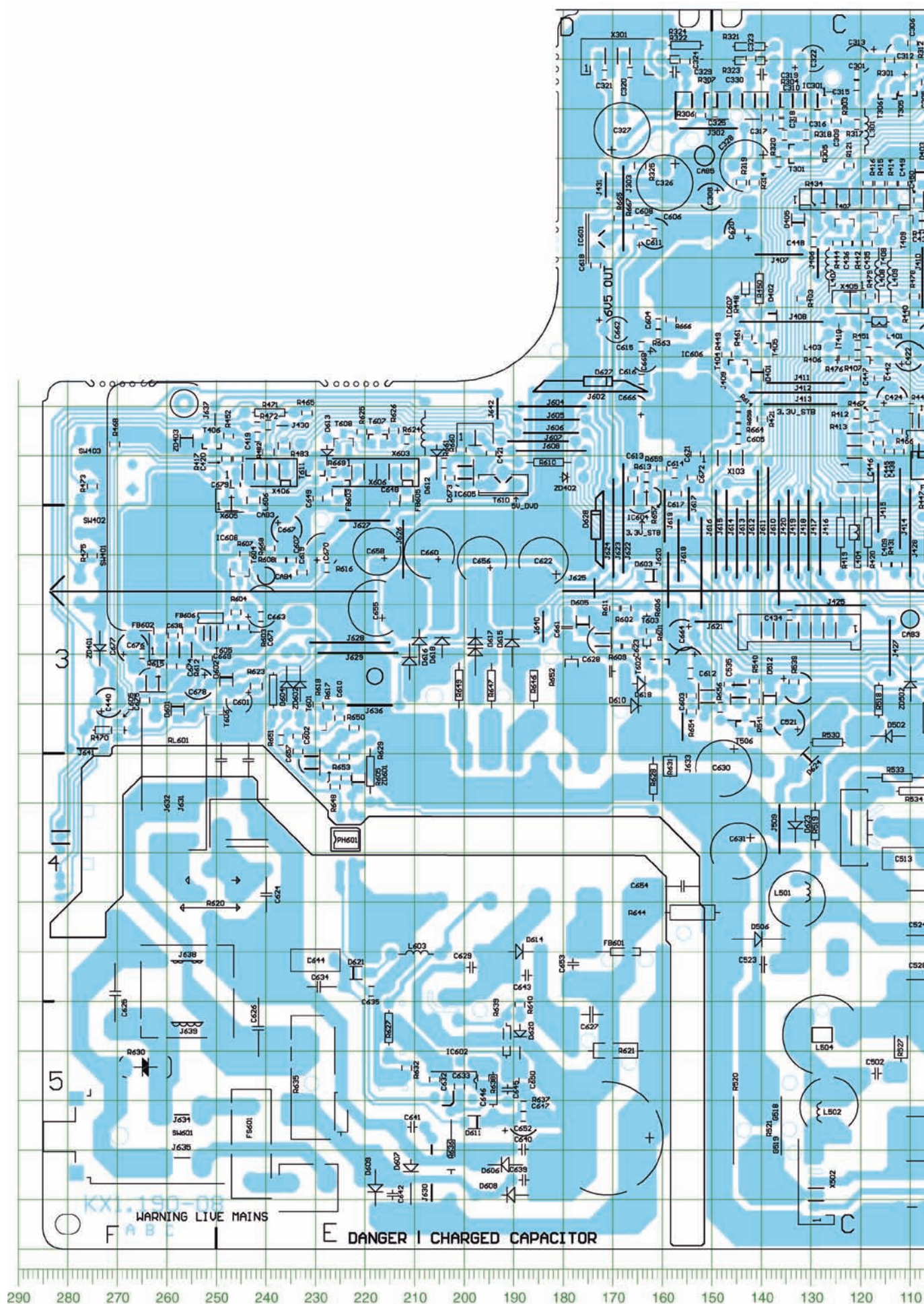
Ansicht auf die Bestückungsseite / View on Component Side





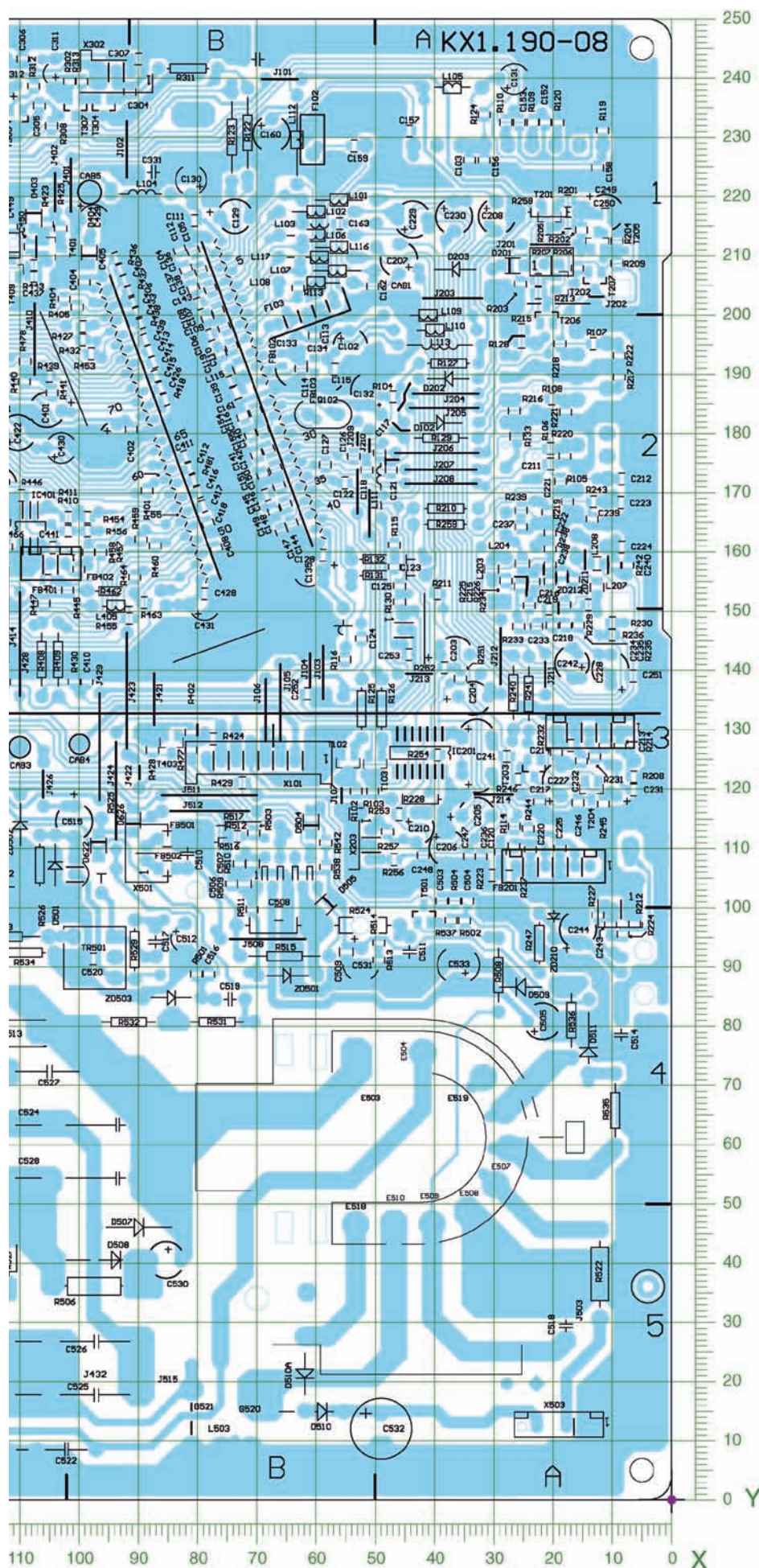
Chassisplatte KX1.190-08 / Chassis Board KX1.190-08

Ansicht auf die Lötseite / View on Solder Side



Chassisplatte KX1.190-08 / Chassis Board KX1.190-08

Ansicht auf die Lötseite / View on Solder Side



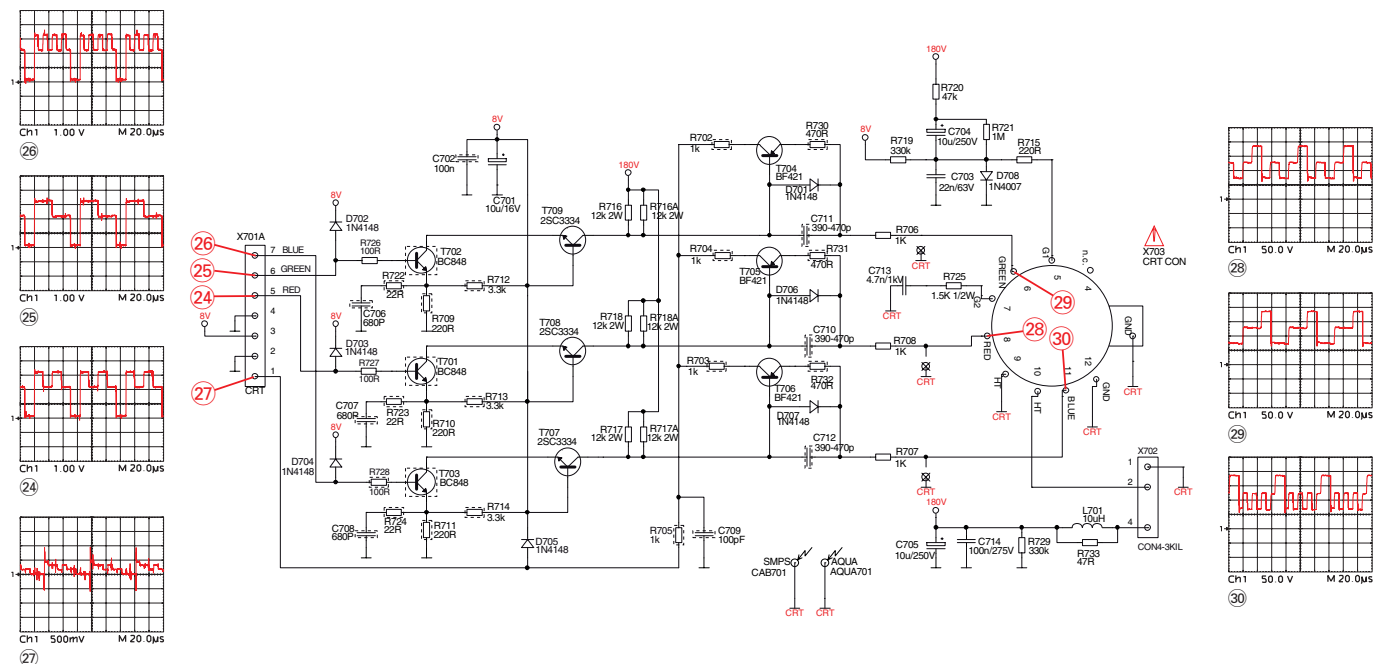
Coordinates of the Components of Chassis Board KX1.190-08 (* components of solder side)

Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates	
	X	Y		X	Y		X	Y		X	Y		X	Y		X	Y
C102	54	195	C238*	21	158	C512	82	95	C676*	265	120	L101	56	219	R219*	18	169
C103*	34	226	C239*	13	166	C513	111	79	C677	267	121	L102	60	217	R220*	18	176
C104*	82	208	C240*	7	158	C514	9	79	C678	254	114	L103	56	215	R221*	18	184
C105*	81	211	C241*	28	125	C515	101	115	C679*	247	153	L104	90	220	R222*	9	193
C106*	76	198	C242	17	141	C516*	78	89	CAB501	218	116	L105	37	238	R223*	30	105
C107*	76	201	C243*	10	97	C517	87	94	D102	39	182	L106	60	213	R224*	8	96
C108*	78	200	C244	16	96	C518	18	29	D201*	27	208	L107	56	207	R225*	28	155
C109*	78	197	C246*	16	118	C519	75	85	D202*	38	189	L108	60	205	R226*	23	155
C110*	74	195	C247*	34	109	C520*	98	91	D203	37	208	L109	41	200	R227*	12	99
C111*	81	216	C248*	42	109	C521	134	106	D401*	141	176	L110	40	197	R228	42	118
C112*	83	211	C249	11	217	C522	105	9	D402*	138	188	L111	49	174	R229*	14	151
C113*	60	197	C250*	11	217	C523	140	58	D403*	108	217	L112	63	230	R230*	10	148
C114*	63	191	C251*	7	139	C524	101	63	D404*	98	211	L113	39	195	R231*	13	126
C115*	57	191	C252*	62	136	C525	101	18	D405*	133	208	L114	55	143	R232*	19	126
C116*	70	184	C253*	44	143	C526	101	27	D406	282	72	L115*	73	191	R233*	26	147
C117*	49	177	C301*	121	237	C527	101	72	D501	104	107	L116	56	211	R234*	24	151
C118*	51	174	C302	70	243	C528	101	54	D502	114	104	L117	60	210	R235*	16	148
C119*	76	193	C304*	91	238	C530	85	40	D504*	61	114	L203*	30	157	R236*	10	146
C120*	29	109	C305*	107	235	C531	52	91	D505*	58	101	L204*	25	158	R237*	27	110
C121*	47	174	C306*	110	243	C532	49	12	D506	141	63	L207*	13	154	R238*	21	161
C122*	55	172	C307*	90	243	C533	37	90	D507	90	46	L208*	13	158	R239*	25	167
C123*	47	157	C308	150	212	C534	133	113	D508	97	40	L301	120	226	R240	27	136
C124*	52	145	C309*	125	228	C535*	147	114	D509	25	87	L401	119	187	R241	24	136
C125*	46	154	C310*	135	225	C601	245	111	D510	62	15	L402	121	185	R242*	10	158
C126*	54	176	C311	104	241	C602*	234	103	D510A	62	21	L403	121	182	R243*	13	169
C127*	58	175	C312	112	241	C603*	154	112	D511	14	78	L404	121	145	R244*	24	113
C128*	59	159	C313	121	240	C604*	161	187	D512*	138	111	L405	92	151	R245*	12	117
C129	74	216	C315*	121	235	C605*	145	163	L406	114	160	L406	114	160	R246*	26	122
C130	81	223	C316*	129	229	C606*	163	208	D601*	258	109	L407	126	199	R247	22	94
C131	27	240	C317*	139	228	C607*	235	139	D602*	248	115	L408	116	196	R251*	36	139
C132	51	187	C318*	132	228	C608	162	205	D603*	162	136	L409	114	196	R252*	38	140
C133	64	191	C319*	136	229	C609	241	130	D604	236	114	L501	133	71	R253*	46	116
C134	58	190	C320*	167	237	C610*	225	107	D605*	176	127	L502	126	29	R254*	40	126
C135	61	157	C321*	172	237	C611*	162	205	D606	192	17	L503	76	14	R256*	47	108
C136*	79	208	C322	130	240	C612*	154	116	D607	211	13	L504	128	46	R257*	48	113
C137*	81	205	C323*	142	240	C613*	166	155	D608	192	11	L601	256	52	R258	21	217
C138*	78	204	C324*	155	240	C614*	158	157	D609	218	14	L602	136	97	R259	38	165
C139*	74	189	C325*	149	229	C615*	164	182	D610	156	110	L603	210	69	R301*	114	240
C140*	69	181	C326	160	215	C616*	164	175	D611*	198	26	L604	245	121	R302*	102	239
C141*	70	176	C327	168	226	C617*	157	152	D612	206	159	L605*	270	105	R303*	125	231
C142*	68	177	C328	143	219	C618*	173	198	D613	228	159	L606*	243	151	R304*	136	227
C143*	80	202	C329	157	237	C619*	233	136	D614	191	60	R305*	225	102	R305*	129	221
C144*	64	165	C330	140	237	C620*	144	205	D615	190	122	P602	225	102	R306*	152	229
C145*	68	170	C331	87	224	C621*	153	160	D616	209	122	R307*	224	83	R307*	151	234
C146*	66	171	C401	105	184	C622	184	139	D616A	211	119	PH601	224	83	R308*	105	232
C147*	66	164	C402*	91	181	C623*	167	122	D617	198	123	POZA601	257	171	R311	82	242
C148*	65	168	C404*	99	206	C624	240	72	D618	204	124	POZA602	4	36	R312*	108	239
C149*	67	167	C405*	94	210	C625	270	56	D619	166	114	POZA603	187	239	R313*	100	239
C150*	67	174	C406*	91	202	C626	242	49	D620	189	42	POZA605	25	20	R314*	141	215
C151*	69	173	C407*	92	206	C627	171	47	D621*	222	56	POZA606	267	156	R317*	121	227
C152*	21	233	C408*	77	161	C628	170	117	D622*	97	111	Q102	59	183	R318*	131	225
C153*	26	233	C409*	115	138	C629	199	57	D623	133	86	R102*	53	120	R319*	144	215
C154*	72	183	C410*	99	138	C630	148	97	D624*	130	100	R103*	50	120	R320*	137	241
C155*	71	180	C411*	82	176	C631	145	80	D625	198	120	R104*	47	186	R321	142	243
C156*	32	226	C412*	81	174	C632*	206	34	D626*	91	115	R105*	19	177	R322	155	240
C157*	44	231	C413*	88	194	C633*	201	33	EKRAN102	73	181	R106*	20	177	R323	142	240
C158*	13	225	C414*	87	192	C634	229	53	F102	61	230	R107*	13	195	R324	155	243
C159*	54	229	C415*	87	190	C635*	219	52	F103	62	200	R108*	20	186	R325*	164	219
C160	68	231	C416*	80	170	C636	244	99	FB102*	66	192	R109*	23	233	R401*	89	170
C161*	74	187	C417*	79	168	C637	249	99	FB103*	60	192	R110*	28	233	R402*	81	130
C162*	50	205	C418*	78	165	C638*	259	124	FB201*	27	105	R113*	63	205	R403*	132	192
C163*	56	215	C419*	242	164	C639	188	14	FB401*	105	155	R114*	27	114	R404*	103	203
C202	33	122	C420*	246	159	C640	188	20	FB402*	100	157	R115*	47	161	R405*	100	201
C203	37	143	C421*	195	160	C641	210	25	FB501*	85	112	R116*	55	142	R406	121	179
C204	34	136	C422	110	180	C642	214	11	FB502*	85	107	R119*	12	231	R407*	121	180
C205	33	115	C423	94	179	C643	187	55	FB601	167	60	R120*	19	233	R408	106	142
C206	38	110	C424	114	171	C644	230	58	FB602*	261	125	R121*	122	219	R409	104	142
C207	46	209	C426*	86	188	C645	191	32	FB603*	225	153	R122	72	231	R410*	102	164
C208	30	217	C428*	79	153	C646*	196	35	FB604*	208	165	R123	74	230	R411*	102	166
C209	33	129	C429	97	216	C647*	188	27	FB605*	212	151	R124*	32	234	R412*	121	168
C210	43	114	C430	103	178	C648*	214	150	FB606*	256	125	R125	52	133	R413*	118	166
C211*	20	175	C431	79	151	C649*	230	151	FS601	243	21	R126	49	133	R414*	114	215
C212*	8	172	C432*	90	200	C650*	188	34	HS301	128	213	R127	38	192	R415*	116	215
C213*	11	127	C434*	134	128	C651*	171	22	HS501	77	79	R128*	25	195	R416*	119	215
C214*	17	127	C435*	119	203	C652	188	26	HS602	198	58	R129	39	179	R417*	248	159
C215*	26	154	C436*	123	203	C653	178	58	HS603	198	146	R130*	46	152	R418*	85	186
C216*	21	155	C437*	108	207	C654	156	73	IC101	78	184	R131	48	156	R419	124	145
C217*	22	118	C438*	112	161	C655	218	129	IC201*	42	126	R132	48	159	R420	119	145
C218*	18	151	C439*	89	196	C656	196	139	IC301	141	231	R133*	26	180	R421*	140	167
C219*	21	150	C440	272	110	C657*	234	100	IC401*	108	164	R201*	18	219	R423*	105	215
C220*	24	110	C441*	104	161	C658	218	141	IC402	282	83	R202*	15	214	R424*	77	128
C221*	21	167	C442*	116	176	C659	155	118	IC501	65	106	R203*	26	205	R425*	103	215
C222*	21	163	C445*	114	161	C660	207	140	IC601	172	204	R204*	9	213	R427*	99	198
C223*	9	168	C446*	116	163	C661	179	126	IC602	202	34	R205*	18	216	R428*	88	127

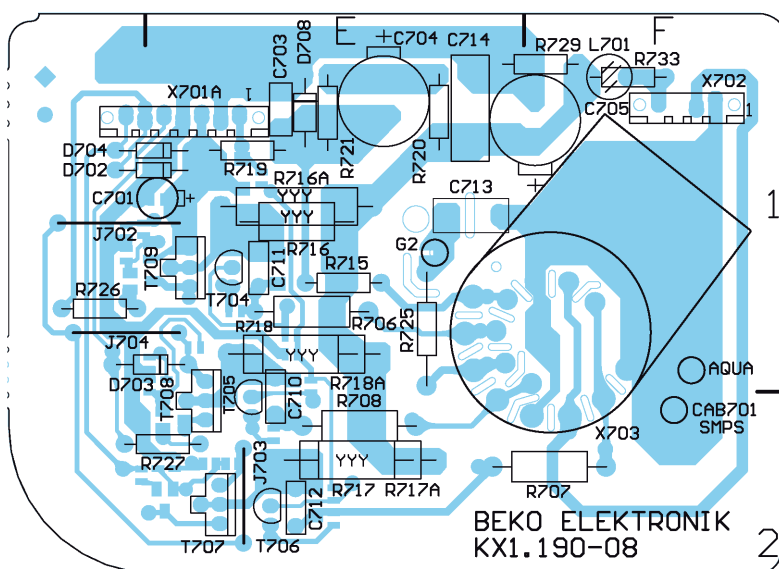
Koordinaten für die Bauteile der Chassisplatte KX1.190-08 (* Bauteile der Lötseite)
Coordinates of the Components of Chassis Board KX1.190-08 (* components of solder side)

Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates	
	X	Y		X	Y		X	Y		X	Y
R443*	108	208	R532	92	81	R664*	145	166	X203	51	111
R444*	125	203	R533	113	95	R665*	169	208	X204	45	147
R445*	102	154	R534	109	92	R666*	158	187	X205	4	110
R446*	110	170	R535	10	66	R667*	167	206			
R447*	106	151	R536	17	81	R668*	239	141	X206	7	89
									X207	20	209
R448	143	196	R537*	37	98	R669*	226	157	X301	169	241
R449*	147	180	R538*	58	107				X302	94	241
R450	140	194	R539*	133	114	RL601	259	95	X401A	121	212
R451*	121	182	R540*	141	115						
R452*	248	164	R541*	141	111	SK201	13	178	X402	198	164
						SK202	25	178	X403	105	158
R453*	98	193	R542*	58	111				X404	121	162
R454*	99	166	R601*	162	125	SW401	276	133	X405	122	191
R455*	92	149	R602*	167	129	SW402	276	147	X406	241	157
R456*	99	164	R603*	247	125	SW403	276	161			
R457*	98	160	R604*	246	128	SW601	266	23	X407	9	100
									X501	89	109
R458*	96	160	R605*	224	95	T102*	55	124	X502	129	14
R459*	90	162	R606	163	125	T103*	50	124	X503	19	12
R460*	87	161	R607*	244	140	T201*	21	216	X601	231	13
R461*	143	184	R608*	237	139	T202*	18	205			
R462	92	153	R609*	169	122	T203*	23	123	X602	245	85
									X603	218	157
R463*	89	151	R610	183	159	T204*	14	120	X604	257	121
R464*	91	156	R611*	170	129	T205*	13	213	X605	247	151
R465*	232	169	R612*	257	118	T206*	21	200			
R466*	113	165	R613*	163	156	T207*	13	206	ZD210	20	98
R467*	117	168	R614*	145	170	T301*	134	221	ZD211*	17	155
									ZD212*	19	156
R468*	271	162	R615*	262	116	T304*	96	235	ZD401	274	121
R470	272	105	R616*	228	137	T305*	111	233	ZD402	179	156
R471	239	169	R617*	227	109	T306*	115	233			
R472*	240	166	R618*	230	110	T307*	101	235	ZD403*	256	163
R473*	275	154	R619	225	28	T401*	105	211	ZD501	65	89
									ZD502	110	114
R475*	275	140	R620	251	72	T403*	84	128	ZD503	84	85
R476*	123	180	R621	169	40	T404*	145	179	ZD504	143	107
R477*	81	127	R623*	242	114	T405*	140	182			
R478*	109	192	R624*	212	163	T406*	251	162	ZD601*	221	95
R479*	118	192	R625*	221	165	T407*	123	207	ZD602	233	114
R481*	80	172	R626*	214	165	T408*	117	207			
R482*	240	161	R627	215	45	T409*	111	208			
R483*	236	162	R628	162	95	T410*	122	186			
R501*	80	89	R629	219	96	T501*	42	99			
R502*	35	98	R630	264	37	T502	101	106			
R503*	71	113	R631	158	97	T503	123	109			
R504*	37	101	R632*	212	37	T504	118	85			
R506	98	36	R635	231	34	T505	145	113			
R508	29	89	R636	203	19	T506*	143	106			
R509*	72	104	R637*	188	29	T601*	230	105			
R510*	71	107	R638	194	32	T602*	161	118			
R511*	71	100	R639	191	42	T603*	165	126			
R512*	73	112	R640*	189	49	T604*	245	136			
R513*	49	91	R644	154	68	T605*	251	127			
R514*	49	94	R645	239	113	T606*	251	108			
R515	65	92	R646	186	114	T607*	217	164			
R516	72	111	R647	195	114	T608*	224	163			
R517	72	114	R648*	226	93	T609	204	48			
R518	116	111	R649	201	114	T610	192	155			
R519	129	86	R650*	222	105	T611*	230	157			
R520	142	25	R651*	237	103	TH601	172	123			
R521	141	24	R652	178	115						
R522	12	38	R653*	224	99	TR501	97	92			
R523	67	97	R654*	154	108	TR502	40	59			
R524	52	97	R656*	148	109	TR601	190	84			
R525	96	109	R657*	163	154	TU102	32	229			
R526	107	107	R658*	145	168						
R527	112	41	R659*	160	157	X101	70	125			
R529	91	93	R660*	201	161	X102	132	125			
R530	127	102	R661*	204	159	X103	146	159			
						X201	14	130			
R531	77	81	R663*	161	185	X202	20	107			

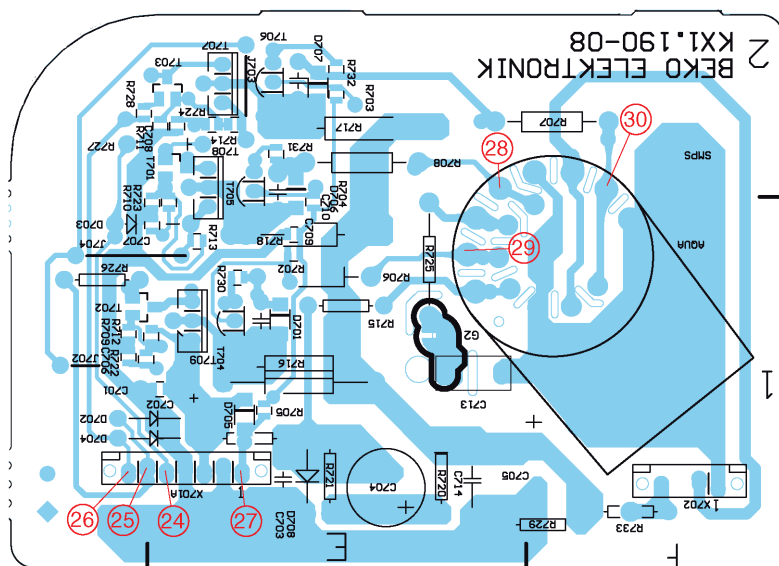
Bildrohrplatte / CRT Board - KX1.190-08



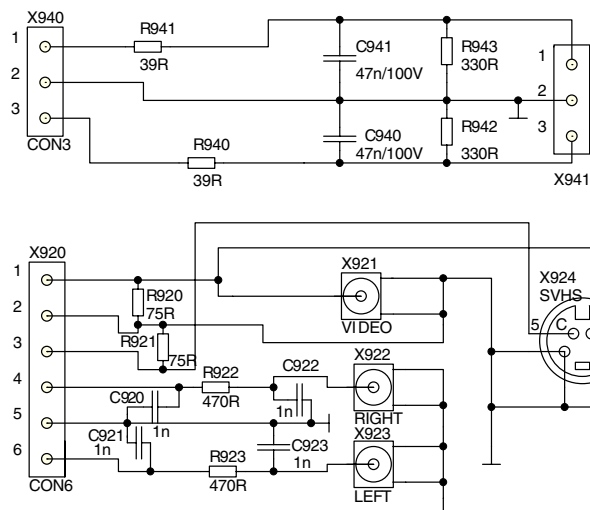
Ansicht auf die Bestückungsseite / View on Component Side



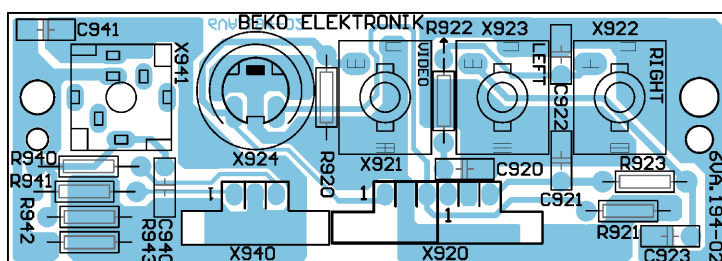
Ansicht auf die Lötseite / View on Solder Side



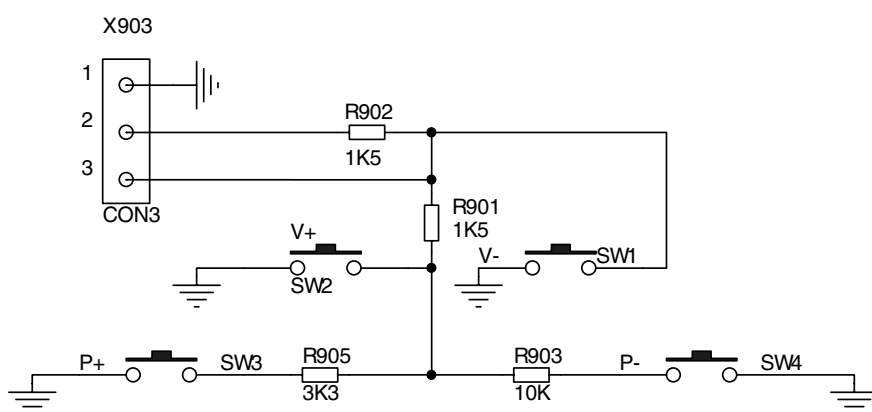
Buchsenplatte / Socket Board 6VA.194



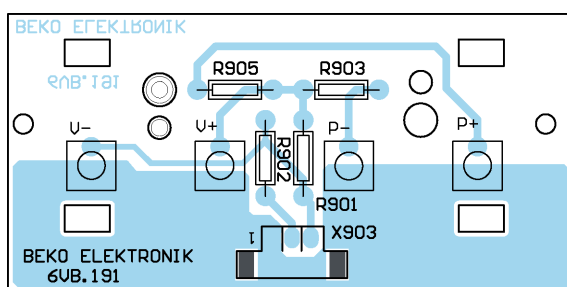
Ansicht auf die Bestückungsseite / View on Component Side



Bedienplatte / Keyboard 6VB.191



Ansicht auf die Bestückungsseite / View on Component Side



Ersatzteilliste
Spare Parts List

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LENARO 55 FLAT MF 55-5501 TOP

MATERIAL-NR. / PART NO.: 720126020800
BESTELL-NR. / ORDER NO.: GBD0900

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		720126020800		LENARO 55 FLAT MF 55-5501 TOP KEIN E-TEIL	LENARO 55 FLAT MF 55-5501 TOP NO SPARE PART
0001.000		759551210900		GEH.-VORDERTEIL SILBER	FRONT CABINET SILVER
0002.000		759550983500		RUECKWAND SILBER	BACK COVER SILVER
0007.000		759551164600		LAUTSPRECHER 7/10 W / 8 OHM	LOUDSPEAKER 7/10 W / 8 OHM
0014.000	△	759550978300		NETZSCHALTER ESZ92D21B	POWER SWITCH ESZ92D21B
0015.000	△	759550450200		NETZKABEL M.DR.2,3M	POWER CABLE
0016.000		759551211000		KNOPF NETZ SILBER	KNOB POWER SILVER
0018.000		759550978000		KNOPF PROGRAMM SILBER	KNOB PROGRAMM SILVER
0020.000				BILDROEHRE HINWEIS! IM DEFECTFALL DER BILDROEHRE NEHMEN SIE KONTAKT MIT UNSERER HOTLINE AUF	PICTURE TUBE NOTE! IN THE EVENT OF A DEFECTIVE PICTURE TUBE PLEASE CONTACT YOUR SERVICE
0025.000	△	275990154100	X	LP-CHASSISMODUL K1 KEIN E-TEIL	CHASSISBOARD K1 NO SPARE PART
0027.000		720117132900		FERNBEDIENUNG TP160 C SILBER	REMOTE CONTROL TP160 C SILVER
0050.000		275990210400		LP-LED/IR EMPFANGSMODUL	LED/IR RECEIVERBOARD
0060.000		275990142400		LP-S-VHS/CLK MODUL	S-VHS/CLK BOARD
0070.000		275990210500		LP-BEDIENMODUL	CONTROLBOARD
0095.000		759551211100		KARTON	CARTON
		720117199500		BEDIENUNGSANLEITUNG D/I	INSTRUCTION MANUAL D/I
		7201110517000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		7201105172000		SERVICE MANUAL D/GB 2. ERGAENZUNG	SERVICE MANUAL D/GB 2ND SUPPLEMENT
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts List

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LP-CHASSISMODUL K1
CHASSISBOARD K1

MATERIAL-NR. / PART NO.: 275990154100

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		275990154100		LP-CHASSISMODUL K1 KEIN E-TEIL	CHASSISBOARD K1 NO SPARE PART
POS. NR. POS. NO.		MATERIAL-NR. PART NUMBER		BEZEICHNUNG DESCRIPTION	
C 249		759550949200		ELKO 10 UF/16V	D 616 830956550700 DIODE RGP10J/1N4937 MOT/GP
C 308		759550949200		ELKO 10 UF/16V	D 617 830956550700 DIODE RGP10J/1N4937 MOT/GP
C 422		759550949200		ELKO 10 UF/16V	D 618 830956550700 DIODE RGP10J/1N4937 MOT/GP
C 423		759550949200		ELKO 10 UF/16V	D 619 759902002100 DIODE BA 157 *T55-70TEXT
C 424		759550949200		ELKO 10 UF/16V	D 620 833021514800 MELF DIODE 1N4148
C 527	△	759551124400		KONDENS. 7.8 NF 1.5 KV	D 621 830953414900 MELF-DIODE LL 4148 TFK/ITT
C 528		759551088400		KONDENS. 270NF J 250V R:1	D 701 830953414900 MELF-DIODE LL 4148 TFK/ITT
C 624		759550949500		KONDENS 100NF/250 V	D 702 833021514800 MELF DIODE 1N4148
C 625	△	759551164100		KONDENS. 330 NF 275 VAC	D 703 833021514800 MELF DIODE 1N4148
C 626	△	759550949300		KONDENS. 220 NF/275 V AC	D 704 833021514800 MELF DIODE 1N4148
C 627		853151068700		MKT 15 0.033UF 20% 630V	D 705 830953414900 MELF-DIODE LL 4148 TFK/ITT
C 630		759550988000		ELKO 47 UF/160 V	D 706 830953414900 MELF-DIODE LL 4148 TFK/ITT
C 631		759550988000		ELKO 47 UF/160 V	D 707 830953414900 MELF-DIODE LL 4148 TFK/ITT
C 634		759550949500		KONDENS 100NF/250 V	D 708 830921512700 DIODE 1 N 4007 -GA
C 636	△	759550965300		KONDENS 220PF M 250VAC R:10	D 901 759551209500 LED BLUE L-5T3UB41C-D2 800M
C 637	△	759550965300		KONDENS 220PF M 250VAC R:10	
C 644		759550949500		KONDENS 100NF/250 V	F 103 831900696700 OFWFL X6966M100 SIE
C 654	△	759550984100		KONDENS. 2.2 NF 250 VAC	FH 601 △ 759550921800 SICHERUNGSHALTER
C 701		759550949200		ELKO 10 UF/16V	FS 601 △ 759550922700 SICHERUNG 3.15AT
C 714		759550949500		KONDENS 100NF/250 V	
D 102		759880755100		DIODE 1N5819	IC 101 759551163500 SW/IC K1 256K GRU.COMMON
D 201		830953414900		MELF-DIODE LL 4148 TFK/ITT	IC 201 759551078800 IC MC 14052BD
D 202		833021514800		MELF DIODE 1N4148	IC 301 759550506300 IC AN5277
D 401		830953414900		MELF-DIODE LL 4148 TFK/ITT	IC 401 759550519300 IC CHIP AT24C16AN 10SI TAPE
D 402		830953414900		MELF-DIODE LL 4148 TFK/ITT	IC 501 759550943300 IC TDA 8359 JN2A
D 403		830953414900		MELF-DIODE LL 4148 TFK/ITT	IC 601 759551123300 IC MC33269T G 0.8A LD
D 404		830953414900		MELF-DIODE LL 4148 TFK/ITT	IC 602 759551153100 IC ICE1QS01
D 405		830953414900		MELF-DIODE LL 4148 TFK/ITT	IC 603 759551095500 IC LM 317 LZRA 0.1A TO92
D 501		833021514800		MELF DIODE 1N4148	IC 604 759551095500 IC LM 317 LZRA 0.1A TO92
D 504		830953414900		MELF-DIODE LL 4148 TFK/ITT	IC 606 759551060700 IC NCP1117DTARK (DPAK)
D 505		830953414900		MELF-DIODE LL 4148 TFK/ITT	IC 607 759551060700 IC NCP1117DTARK (DPAK)
D 508		759902002100		DIODE BA 157	IC 609 830544043100 IC TL431CLPRP MOT AV330 ER-
D 509		759902002100		DIODE BA 157	
D 510		759902002100		DIODE BA 157	L 103 759813083500 DR 0207 10UH 5% AX
D 511		759902002100		DIODE BA 157	L 104 759862006100 DR 0309 10UH 4-253T-15020
D 604		833021514800		MELF DIODE 1N4148	L 105 759862006100 DR 0309 10UH 4-253T-15020
D 605		830953414900		MELF-DIODE LL 4148 TFK/ITT	L 106 759813083500 DR 0207 10UH 5% AX
D 606		725511823600		DIODE RF2007 IO	L 109 759862006100 DR 0309 10UH 4-253T-15020
D 607		725511823600		DIODE RF2007 IO	L 110 759862006100 DR 0309 10UH 4-253T-15020
D 608		725511823600		DIODE RF2007 IO	L 111 759880454800 SPULE 10UH 10% 4X9,8MM LAL0
D 609		725511823600		DIODE RF2007 IO	L 113 759550924000 SPULE 4.7UH
D 610		759550455400		DIODE RGP30MS	L 114 759550971400 SPULE 4.7UH LAL04 52MM
D 611		830953414900		MELF-DIODE LL 4148 TFK/ITT	L 115 759875214900 CHIP SPULE 8.2UH
D 614		830956550700		DIODE RGP10J/1N4937 MOT/GP	L 116 759813083500 DR 0207 10UH 5% AX
D 615		759550543400		DIODE RGP30D	L 117 759813083500 DR 0207 10UH 5% AX

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

POS. NR.	MATERIAL-NR.	BEZEICHNUNG
POS. NO.	PART NUMBER	DESCRIPTION

L 203	759550975200	SPULE 10 UH
L 204	759550975200	SPULE 10 UH
L 207	759550975200	SPULE 10 UH
L 208	759550975200	SPULE 10 UH
L 301	759862006100	DR 0309 10UH 4-253T-15020
L 404	759862006100	DR 0309 10UH 4-253T-15020
L 406	759550924000	SPULE 4.7UH
L 504	759551056800	SPULE H-LIN 100UH
L 601	759550947200	FILTER 18 MH
L 602	759550451800	SPULE 50UH
L 603	759550924000	SPULE 4.7UH
L 701	759550451500	SPULE 10UH R0814

P 602	759550927600	ESTR 10K
PH 601	759550963200	OPTOKOPPLER TCET 1100/V310
Q 102	759550971800	QUARZ 20.25MHZ 20PPM (10647
R 319	759550987600	WIDERST. 4.7 K 1/16W
R 320	759550987600	WIDERST. 4.7 K 1/16W
R 449	759550987600	WIDERST. 4.7 K 1/16W
R 461	759550987600	WIDERST. 4.7 K 1/16W
R 481	759551154900	WIDERST.15KOHM 1/16W 0603
R 508	759551099900	WIDERST. 2.7K OHM 1/4W
R 515	759551099900	WIDERST. 2.7K OHM 1/4W
R 522	759551121600	SICH.WIDERST. 0.22OHM J 1W
R 531	759550975800	WIDERST. 150 KOHM/ 0.5 W
R 532	759550975800	WIDERST. 150 KOHM/ 0.5 W
R 534	759510229600	WIDERSTAND 47OHM 5% 0,5W
R 619	759550933500	WIDERST. 1M 0.5W
R 620	759550457500	PTC 90HM 2PIN
R 635	759550542000	WIDERST 2.7OHM K 5W R10
R 636	759550452400	WIDERST 1MOHM1W
R 638	759510229600	WIDERSTAND 47OHM 5% 0,5W
R 644	759550452600	WIDERST 4,7MOHM1/2W
R 645	759510229600	WIDERSTAND 47OHM 5% 0,5W
R 649	759550452700	WIDERST 0,1OHM0,4W
R 652	759550975800	WIDERST. 150 KOHM/ 0.5 W

SK 202	759550926700	EURO AV-BUCHSE
T 102	759551098700	TRANS BC848BLT1G
T 103	759551098700	TRANS BC848BLT1G
T 201	759551098700	TRANS BC848BLT1G
T 205	759551098700	TRANS BC848BLT1G
T 206	830100385800	SMD TRANS BC858B/ BC857B P
T 207	830100385800	SMD TRANS BC858B/ BC857B P
T 301	759551098700	TRANS BC848BLT1G
T 304	830100385800	SMD TRANS BC858B/ BC857B P
T 305	830100385800	SMD TRANS BC858B/ BC857B P
T 306	830100385800	SMD TRANS BC858B/ BC857B P
T 307	830100385800	SMD TRANS BC858B/ BC857B P
T 401	759551113800	TRANS BC818-215
T 403	759551098700	TRANS BC848BLT1G
T 404	759551098700	TRANS BC848BLT1G
T 405	759551098700	TRANS BC848BLT1G
T 406	759551098700	TRANS BC848BLT1G
T 407	830100385800	SMD TRANS BC858B/ BC857B P
T 408	830100385800	SMD TRANS BC858B/ BC857B P
T 409	830100385800	SMD TRANS BC858B/ BC857B P
T 410	830100385800	SMD TRANS BC858B/ BC857B P
T 501	830100385800	SMD TRANS BC858B/ BC857B P
T 502	759551077600	TRANS TRN BC639
T 504	759551112500	TRANS 2 SD 2586
T 601	759551098700	TRANS BC848BLT1G

POS. NR.	MATERIAL-NR.	BEZEICHNUNG
POS. NO.	PART NUMBER	DESCRIPTION

T 602	759551098700	TRANS BC848BLT1G
T 603	759551098700	TRANS BC848BLT1G
T 609	759551113100	TRANS 2SK3567
T 701	759551098700	TRANS BC848BLT1G
T 702	759551098700	TRANS BC848BLT1G
T 703	759551098700	TRANS BC848BLT1G
T 704	759551013200	TRANS BF 421
T 705	759551013200	TRANS BF 421
T 706	759551013200	TRANS BF 421
T 707	759551153300	TRANS.2SC3619
T 708	759551153300	TRANS.2SC3619
T 709	759551153300	TRANS.2SC3619

TH 601	759550944900	THYRISTOR MCR 22-8
TR 501	759551132500	TRAFO HOR.
TR 502	759551163000	TRAFO FBT21PF EL/1152.7014
TR 601	759551153400	TRAFO SMT 20/21 EL/2084.013
TU 102	759550980400	TUNER PS ENV57DA5G3R
X 301	759550999100	STECKERLEISTE 4 POL.
X 502	759551154400	STECKER 4 POL.
X 601	759550966400	STECKER 2 POL.
X 602	759551153000	STECKER 2 POL.
X 703	759551077100	BILDROHRSOCKEL
X 941	759551054300	KOPFHÖRERERBUCHSE

ZD 501	830970755500	Z DIODE ZPD 15 ITT/BZX 55 C
ZD 502	759550923600	DIODE BZX55C33
ZD 503	830972008200	Z DIODE 8.2 C 0.5W
ZD 601	759551098400	DIODE Z9.1V 1.5W
ZD 602	759550923500	DIODE ZPD5.1

Ersatzteilliste
Spare Parts List

11 / 2005

LENARO 55 FLAT MF 55-5501/8 TOP

MATERIAL-NR. / PART NO.: 720126020900
BESTELL-NR. / ORDER NO.: GBD0800

POS. NR.	ABB.	MATERIAL-NR.	ANZ.	BEZEICHNUNG	DESCRIPTION
POS. NO.	FIG.	PART NUMBER	QTY.	(D)	(GB)
		720126020900		LENARO 55 FLAT MF 55-5501/8 TOP KEIN E-TEIL	LENARO 55 FLAT MF 55-5501/8 TOP NO SPARE PART
0001.000		759551210900		GEH.-VORDERTEIL SILBER	FRONT CABINET SILVER
0002.000		759550983500		RUECKWAND SILBER	BACK COVER SILVER
0007.000		759551164600		LAUTSPRECHER 7/10 W / 8 OHM	LOUDSPEAKER 7/10 W / 8 OHM
0014.000	△	759550450200		NETZKABEL M.DR.2.3M	POWER CABLE
0015.000	△	759550978300		NETZSCHALTER ESZ92D21B	POWER SWITCH ESZ92D21B
0016.000		759551211000		KNOFF NETZ SILBER	KNOB POWER SILVER
0018.000		759550978000		KNOFF PROGRAMM SILBER	KNOB PROGRAMM SILVER
0020.000				BILDROEHRE HINWEIS! IM DEFECTFALL DER BILDROEHRE NEHMEN SIE KONTAKT MIT UNSERER HOTLINE AUF	PICTURE TUBE NOTE! IN THE EVENT OF A DEFECTIVE PICTURE TUBE PLEASE CONTACT YOUR SERVICE
0025.000	△	275990154200	X	LP-CHASSISMODUL K1 KEIN E-TEIL	CHASSISBOARD K1 NO SPARE PART
0027.000		720117132900		FERNBEDIENUNG TP160 C SILBER	REMOTE CONTROL TP160 C SILVER
0050.000		275990210400		LP-LED/IR EMPFANGSMODUL	LED/IR RECEIVERBOARD
0060.000		275990142400		LP-S-VHS/CLK MODUL	S-VHS/CLK BOARD
0070.000		275990210500		LP-BEDIENMODUL	CONTROLBOARD
0095.000		759551211100		KARTON	CARTON
		720117199000		BEDIENUNGSANLEITUNG GB/F/NL/DK/N/HR	INSTRUCTION MANUAL GB/F/NL/DK/N/HR
		720117199100		BEDIENUNGSANLEITUNG S/FIN/E/P/PL/CZ	INSTRUCTION MANUAL S/FIN/E/P/PL/CZ
		720110517000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720110517200		SERVICE MANUAL D/GB 2. ERGAENZUNG	SERVICE MANUAL D/GB 2ND SUPPLEMENT
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I

X = SIEHE GESONDERTE E-LISTE

X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts List

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LP-CHASSISMODUL K1
CHASSISBOARD K1

MATERIAL-NR. / PART NO.: 275990154200

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
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275990154200

LP-CHASSISMODUL K1
KEIN E-TEILCHASSISBOARD K1
NO SPARE PART

POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION	POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
C 249	759550949200	ELKO 10 UF/16V	D 616	830956550700	DIODE RGP10J/1N4937 MOT/GP
C 308	759550949200	ELKO 10 UF/16V	D 617	830956550700	DIODE RGP10J/1N4937 MOT/GP
C 422	759550949200	ELKO 10 UF/16V	D 618	830956550700	DIODE RGP10J/1N4937 MOT/GP
C 423	759550949200	ELKO 10 UF/16V	D 619	759902002100	DIODE BA 157
C 424	759550949200	ELKO 10 UF/16V	D 620	833021514800	MELF DIODE 1N4148
C 527	△ 759551124400	KONDENS. 7.8 NF 1.5 KV	D 621	830953414900	MELF-DIODE LL 4148 TFK/ITT
C 528	759551088400	KONDENS. 270NF J 250V R:1	D 701	830953414900	MELF-DIODE LL 4148 TFK/ITT
C 624	759550949500	KONDENS 100NF/250 V	D 702	833021514800	MELF DIODE 1N4148
C 625	△ 759551164100	KONDENS. 330 NF 275 VAC	D 703	833021514800	MELF DIODE 1N4148
C 626	△ 759550949300	KONDENS. 220 NF/275 V AC	D 704	833021514800	MELF DIODE 1N4148
C 627	853151068700	MKT 15 0,033UF 20% 630V	D 705	830953414900	MELF-DIODE LL 4148 TFK/ITT
C 630	759550988000	ELKO 47 UF/160 V	D 706	830953414900	MELF-DIODE LL 4148 TFK/ITT
C 631	759550988000	ELKO 47 UF/160 V	D 707	830953414900	MELF-DIODE LL 4148 TFK/ITT
C 634	759550949500	KONDENS 100NF/250 V	D 708	830921512700	DIODE 1 N 4007 -GA
C 636	△ 759550965300	KONDENS 220PF M 250VAC R:10	D 901	759551209500	LED BLUE L-5T3UB41C-D2 800M
C 637	△ 759550965300	KONDENS 220PF M 250VAC R:10			
C 644	759550949500	KONDENS 100NF/250 V	F 103	831900696700	OFWFL X6966M100 SIE
C 654	△ 759550984100	KONDENS. 2.2 NF 250 VAC	FH 601	△ 759550921800	SICHERUNGSHALTER
C 701	759550949200	ELKO 10 UF/16V	FS 601	△ 759550922700	SICHERUNG 3.15AT
C 714	759550949500	KONDENS 100NF/250 V			
D 102	759880755100	DIODE 1N5819	IC 101	720086705700	SW/IC VCTI-ECO-90DEG K1 (PR
D 201	830953414900	MELF-DIODE LL 4148 TFK/ITT	IC 201	759551078800	IC MC 14052BD
D 202	833021514800	MELF DIODE 1N4148	IC 301	759550506300	IC AN5277
D 401	830953414900	MELF-DIODE LL 4148 TFK/ITT	IC 401	759550519300	IC CHIP AT24C16AN 10SI TAPE
D 402	830953414900	MELF-DIODE LL 4148 TFK/ITT	IC 501	759550943300	IC TDA 8359 J/N2A
D 403	830953414900	MELF-DIODE LL 4148 TFK/ITT	IC 601	759551123300	IC MC33269T G 0.8A LD
D 404	830953414900	MELF-DIODE LL 4148 TFK/ITT	IC 602	759551153100	IC ICE1QS01
D 405	830953414900	MELF-DIODE LL 4148 TFK/ITT	IC 603	759551095100	IC LM317LZRA 0.1A TO92
D 501	833021514800	MELF DIODE 1N4148	IC 604	759551095100	IC LM317LZRA 0.1A TO92
D 504	830953414900	MELF-DIODE LL 4148 TFK/ITT	IC 606	759551060700	IC NCP1117DTARK (DPAK)
D 505	830953414900	MELF-DIODE LL 4148 TFK/ITT	IC 607	759551060700	IC NCP1117DTARK (DPAK)
D 508	759902002100	DIODE BA 157	IC 609	830544043100	IC TL431CLPRP MOT AV330 ER-
D 509	759902002100	DIODE BA 157			
D 510	759902002100	DIODE BA 157	L 103	759813083500	DR 0207 10UH 5% AX
D 511	759902002100	DIODE BA 157	L 104	759862006100	DR 0309 10UH 4-253T-15020
D 604	833021514800	MELF DIODE 1N4148	L 105	759862006100	DR 0309 10UH 4-253T-15020
D 605	830953414900	MELF-DIODE LL 4148 TFK/ITT	L 106	759813083500	DR 0207 10UH 5% AX
D 606	725511823600	DIODE RF2007 IO	L 109	759862006100	DR 0309 10UH 4-253T-15020
D 607	725511823600	DIODE RF2007 IO	L 110	759862006100	DR 0309 10UH 4-253T-15020
D 608	725511823600	DIODE RF2007 IO	L 111	814052636100	DR 0411 10UH 5% AV619 -AMMO
D 609	725511823600	DIODE RF2007 IO	L 113	759550924000	SPULE 4.7UH
D 610	759550455400	DIODE RGP30MS	L 114	759550971400	SPULE 4.7UH LAL04 52MM
D 611	830953414900	MELF-DIODE LL 4148 TFK/ITT	L 115	759875214900	CHIP SPULE 8.2UH
D 614	830956550700	DIODE RGP10J/1N4937 MOT/GP	L 116	759813083500	DR 0207 10UH 5% AX
D 615	759550543400	DIODE RGP30D	L 117	759813083500	DR 0207 10UH 5% AX

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION	POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
L 203	759550975200	SPULE 10 UH	T 602	759551098700	TRANS BC848BLT1G
L 204	759550975200	SPULE 10 UH	T 603	759551098700	TRANS BC848BLT1G
L 207	759550975200	SPULE 10 UH	T 609	759551113100	TRANS 2SK3567
L 208	759550975200	SPULE 10 UH	T 701	759551098700	TRANS BC848BLT1G
L 301	759862006100	DR 0309 10UH 4-253T-15020	T 702	759551098700	TRANS BC848BLT1G
L 404	759862006100	DR 0309 10UH 4-253T-15020	T 703	759551098700	TRANS BC848BLT1G
L 406	759550924000	SPULE 4.7UH	T 704	759551013200	TRANS BF 421
L 504	759551056800	SPULE H-LIN 100UH	T 705	759551013200	TRANS BF 421
L 601	△ 759550947200	FILTER 18 MH	T 706	759551013200	TRANS BF 421
L 602	759550451800	SPULE 50UH	T 707	759551153300	TRANS.2SC3619
L 603	759550924000	SPULE 4.7UH	T 708	759551153300	TRANS.2SC3619
L 701	759550451500	SPULE 10UH R0814	T 709	759551153300	TRANS.2SC3619
P 602	759550927600	ESTR 10K	TH 601	759880944900	TYRISTOR MCR 22-8
PH 601	△ 759550963200	OPTOKOPPLER TCET 1100/V310	TR 501	759551077200	TRAFO
Q 102	759550971800	QUARZ 20.25MHZ 20PPM (10647	TR 502	△ 759551163000	TRAFO FBT21PF EL/1152.7014
			TR 601	△ 759551153400	TRAFO SMT 20/21 EL/2084.013
R 319	759550987600	WIDERST. 4.7 K 1/16W	TU 102	759550980400	TUNER PS ENV57DA5G3R
R 320	759550987600	WIDERST. 4.7 K 1/16W	X 301	759550999100	STECKERLEISTE 4 POL.
R 449	759550987600	WIDERST. 4.7 K 1/16W	X 502	759551154400	STECKER 4 POL.
R 461	759550987600	WIDERST. 4.7 K 1/16W	X 601	△ 759550966400	STECKER 2 POL.
R 481	759551154900	WIDERST.15KOHM 1/16W 0603	X 602	△ 759551153000	STECKER 2 POL.
R 508	759551099900	WIDERST. 2.7K OHM 1/4W	X 703	△ 759551077100	BILDROHRSCOCKEL
R 515	759551099900	WIDERST. 2.7K OHM 1/4W	X 941	759551054300	KOPFHÖRERBUCHSE
R 522	△ 759551121600	SICH WIDERST. 0.22OHM J 1W			
R 531	759550975800	WIDERST. 150 KOHM/ 0.5 W	ZD 502	759550923600	DIODE BZX55C33
R 532	759550975800	WIDERST. 150 KOHM/ 0.5 W	ZD 601	759551098400	DIODE Z9.1V 1.5W
R 534	759510229600	WIDERSTAND 47OHM 5% 0.5W	ZD 602	759550923500	DIODE ZPD5.1
R 619	△ 759550933500	WIDERST. 1M 0.5W			
R 620	△ 759550457500	PTC 9OHM 2PIN			
R 635	759550542000	WIDERST 2.7OHM K 5W R10			
R 636	759550452400	WIDERST 1MOHM1W			
R 638	759510229600	WIDERSTAND 47OHM 5% 0.5W			
R 644	△ 759550976600	WIDERST. 4.7 OHM 0.5W			
R 645	759510229600	WIDERSTAND 47OHM 5% 0.5W			
R 649	△ 759550452700	WIDERST 0.1OHM0.4W			
R 652	759550975800	WIDERST. 150 KOHM/ 0.5 W			
SK 202	759550926700	EURO AV-BUCHSE			
T 102	759551098700	TRANS BC848BLT1G			
T 103	759551098700	TRANS BC848BLT1G			
T 201	759551098700	TRANS BC848BLT1G			
T 205	759551098700	TRANS BC848BLT1G			
T 206	830100385800	SMD TRANS BC858B/ BC857B P			
T 207	830100385800	SMD TRANS BC858B/ BC857B P			
T 301	759551098700	TRANS BC848BLT1G			
T 304	830100385800	SMD TRANS BC858B/ BC857B P			
T 305	830100385800	SMD TRANS BC858B/ BC857B P			
T 306	830100385800	SMD TRANS BC858B/ BC857B P			
T 307	830100385800	SMD TRANS BC858B/ BC857B P			
T 401	759551113800	TRANS BC818-215			
T 403	759551098700	TRANS BC848BLT1G			
T 404	759551098700	TRANS BC848BLT1G			
T 405	759551098700	TRANS BC848BLT1G			
T 406	759551098700	TRANS BC848BLT1G			
T 407	830100385800	SMD TRANS BC858B/ BC857B P			
T 408	830100385800	SMD TRANS BC858B/ BC857B P			
T 409	830100385800	SMD TRANS BC858B/ BC857B P			
T 410	830100385800	SMD TRANS BC858B/ BC857B P			
T 501	830100385800	SMD TRANS BC858B/ BC857B P			
T 502	759551077600	TRANS TRN BC639			
T 504	759551112500	TRANS 2 SD 2586			
T 601	759551098700	TRANS BC848BLT1G			

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts List

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XENTIA 55 MFS 55-4601/8 TOP

MATERIAL-NR. / PART NO.: 720126024300
BESTELL-NR. / ORDER NO.: GBE4400

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		720126024300		XENTIA 55 MFS 55-4601/8 TOP KEIN E-TEIL	XENTIA 55 MFS 55-4601/8 TOP NO SPARE PART
0001.000		759551220500		GEH.-VORDERTEIL SILBER	FRONT CABINET SILVER
0002.000		759551220700		RUECKWAND SILBER	BACK COVER SILVER
0003.000		759551206900		BUCHSENABDECKUNG	JACK COVER
0007.000		759551164600		LAUTSPRECHER 7/10 W / 8 OHM	LOUDSPEAKER 7/10 W / 8 OHM
0014.000	△	759550450200		NETZKABEL M.DR.2,3M	POWER CABLE
0015.000	△	759550978400		NETZSCHALTER ESZ92D21B	POWER SWITCH ESZ92D21B
0016.000		759551220600		KNOPF NETZ SILBER	KNOB NETZ SILVER
0018.000		759550978000		KNOPF PROGRAMM SILBER	KNOB PROGRAMM SILVER
0020.000				BILDROEHRE HINWEIS! IM DEFEKTFALL DER BILDROEHRE NEHMEN SIE KONTAKT MIT UNSERER HOTLINE AUF	PICTURE TUBE NOTE! IN THE EVENT OF A DEFECTIVE PICTURE TUBE PLEASE CONTACT YOUR SERVICE
0025.000	△	275990155400	X	LP-CHASSISMODUL K1 KEIN E-TEIL	CHASSISBOARD K1 NO SPARE PART
0027.000		720117132900		FERNBEDIENUNG TP160 C SILBER	REMOTE CONTROL TP160 C SILVER
0050.000		275990211600		LP-LED/IR EMPFANGSMODUL	LED/IR RECEIVER BOARD
0060.000		275990211500		LP-BEDIENMODUL	CONTROLBOARD
0070.000		275990142400		LP-S-VHS/KLK MODUL	S-VHS/KLK BOARD
0090.000		759551220400		KARTON	CARTON
		720117211500		BEDIENUNGSANLEITUNG D,GB,I,P,PL,CZ	INSTRUCTION MANUAL D,GB,I,P,PL,CZ
		720110517000		SERVICE MANUAL D/GB	SERVICE MANUAL D/GB
		720110517200		SERVICE MANUAL D/GB 2. ERGAENZUNG	SERVICE MANUAL D/GB 2ND SUPPLEMENT
		720108000001		SICHERHEITSMANUAL D/GB/E/F/I	SAFETY SERVICE MANUAL D/GB/E/F/I
				X = SIEHE GESONDERTE E-LISTE	X = SEE SEPARATE PARTS LIST

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

Ersatzteilliste
Spare Parts List

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LP-CHASSISMODUL K1
CHASSISBOARD K1

MATERIAL-NR. / PART NO.: 275990155400

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)			
		275990155400		LP-CHASSISMODUL K1 KEIN E-TEIL	CHASSISBOARD K1 NO SPARE PART			
POS. NR. POS. NO.		MATERIAL-NR. PART NUMBER		BEZEICHNUNG DESCRIPTION	POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER		BEZEICHNUNG DESCRIPTION
C 249		759550949200		ELKO 10 UF/16V	D 614	830956550700		DIODE RGP10J/1N4937 MOT/GP
C 308		759550949200		ELKO 10 UF/16V	D 615	759550944200		DIODE RGP 30K
C 422		759550949200		ELKO 10 UF/16V	D 616	759880511100		DIODE RGP15J
C 423		759550949200		ELKO 10 UF/16V	D 617	759880511100		DIODE RGP15J
C 424		759550949200		ELKO 10 UF/16V	D 618	759880511100		DIODE RGP15J
C 624		759550949500		KONDENS 100NF/250 V	D 619	759902002100		DIODE BA 157
C 625	△	759551164100		KONDENS. 330 NF 275 VAC	D 620	833021514800		MELF DIODE 1N4148
C 626	△	759550949300		KONDENS. 220 NF/275 V AC	D 621	830953414900		MELF-DIODE LL 4148 TFK/ITT
C 627		853151068700		MKT 15 0,033UF 20% 630V	D 701	830953414900		MELF-DIODE LL 4148 TFK/ITT
C 630		759550988000		ELKO 47 UF/160 V	D 702	833021514800		MELF DIODE 1N4148
C 631		759550988000		ELKO 47 UF/160 V	D 703	833021514800		MELF DIODE 1N4148
C 634		759550949500		KONDENS 100NF/250 V	D 704	833021514800		MELF DIODE 1N4148
C 636	△	759550965300		KONDENS 220PF M 250VAC R:10	D 705	830953414900		MELF-DIODE LL 4148 TFK/ITT
C 637	△	759550965300		KONDENS 220PF M 250VAC R:10	D 706	830953414900		MELF-DIODE LL 4148 TFK/ITT
C 644		759550949500		KONDENS 100NF/250 V	D 707	830953414900		MELF-DIODE LL 4148 TFK/ITT
C 654	△	759550984100		KONDENS. 2.2 NF 250 VAC	D 708	830921512700		DIODE 1 N 4007 -GA
C 701		759550949200		ELKO 10 UF/16V	D 901	759551209500		LED BLUE L-5T3UB41C-D2 800M
C 714		759550949500		KONDENS 100NF/250 V	F 103	831900696700		OFWFL X6966M100 SIE
D 102		759880755100		DIODE 1N5819	FH 601	△ 759550921800		SICHERUNGSHALTER
D 201		830953414900		MELF-DIODE LL 4148 TFK/ITT	FS 601	△ 759550922700		SICHERUNG 3.15AT
D 202		833021514800		MELF DIODE 1N4148	IC 101	720086708900		SW/IC VCTI-ECO-90DEG
D 401		830953414900		MELF-DIODE LL 4148 TFK/ITT	IC 201	759551078800		IC MC 14052BD
D 402		830953414900		MELF-DIODE LL 4148 TFK/ITT	IC 301	759550506300		IC AN5277
D 403		830953414900		MELF-DIODE LL 4148 TFK/ITT	IC 401	759550519300		IC CHIP AT24C16AN 10SI TAPE
D 404		830953414900		MELF-DIODE LL 4148 TFK/ITT	IC 501	759550943300		IC TDA 8359 J/N2A
D 405		830953414900		MELF-DIODE LL 4148 TFK/ITT	IC 601	759551123300		IC MC33269T G 0.8A LD
D 501		833021514800		MELF DIODE 1N4148	IC 602	759551163300		IC ICE1QS01
D 502		833021514800		MELF DIODE 1N4148	IC 603	759551095100		IC LM317LZRA 0.1A TO92
D 504		830953414900		MELF-DIODE LL 4148 TFK/ITT	IC 604	759551095100		IC LM317LZRA 0.1A TO92
D 505		830953414900		MELF-DIODE LL 4148 TFK/ITT	IC 606	759551060700		IC NCP1117DTARK (DPAK)
D 506		759551200800		FUSS SILBER	IC 607	759551060700		IC NCP1117DTARK (DPAK)
D 507		830920422800		DIODE BY228 PHI/GI/TFK	IC 609	830544043100		IC TL431CLPRP MOT AV330 ER-
D 508		759902002100		DIODE BA 157	IC 901	759550969900		IR-EMPPFAENGER TSOP34838 SS
D 509		759902002100		DIODE BA 157	L 101	759551095200		SPULE 10UH LAN02 280MA/1R
D 510		759902002100		DIODE BA 157	L 102	759551095200		SPULE 10UH LAN02 280MA/1R
D 511		759902002100		DIODE BA 157	L 103	759813083500		DR 0207 10UH 5% AX
D 603		830953414900		MELF-DIODE LL 4148 TFK/ITT	L 104	759862006100		DR 0309 10UH 4-253T-15020
D 604		833021514800		MELF DIODE 1N4148	L 105	759862006100		DR 0309 10UH 4-253T-15020
D 605		830953414900		MELF-DIODE LL 4148 TFK/ITT	L 106	759813083500		DR 0207 10UH 5% AX
D 606		725511823600		DIODE RF2007 IO	L 107	759551095200		SPULE 10UH LAN02 280MA/1R
D 607		725511823600		DIODE RF2007 IO	L 108	759551095200		SPULE 10UH LAN02 280MA/1R
D 608		725511823600		DIODE RF2007 IO	L 109	759862006100		DR 0309 10UH 4-253T-15020
D 609		725511823600		DIODE RF2007 IO				
D 610		759550455400		DIODE RGP30MS				
D 611		830953414900		MELF-DIODE LL 4148 TFK/ITT				

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POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
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L 110	759862006100	DR 0309 10UH 4-253T-15020
L 111	814052636100	DR 0411 10UH 5% AV619 -AMMO
L 112	759551095200	SPULE 10UH LANO2 280MA/1R
L 113	759550924000	SPULE 4.7UH
L 114	759550971400	SPULE 4.7UH LAL04 52MM
L 115	759875214900	CHIP SPULE 8.2UH
L 116	759813083500	DR 0207 10UH 5% AX
L 117	759813083500	DR 0207 10UH 5% AX
L 203	759550975200	SPULE 10 UH
L 204	759550975200	SPULE 10 UH
L 207	759550975200	SPULE 10 UH
L 208	759550975200	SPULE 10 UH
L 301	759862006100	DR 0309 10UH 4-253T-15020
L 401	759551095200	SPULE 10UH LANO2 280MA/1R
L 402	759551095200	SPULE 10UH LANO2 280MA/1R
L 403	759551095200	SPULE 10UH LANO2 280MA/1R
L 404	759862006100	DR 0309 10UH 4-253T-15020
L 405	759551095200	SPULE 10UH LANO2 280MA/1R
L 406	759550924000	SPULE 4.7UH
L 601	△ 759550947200	FILTER 18 MH
L 602	759550451800	SPULE 50UH
L 603	759550924000	SPULE 4.7UH
L 701	759550451500	SPULE 10UH R0814

P 602 759550927600 ESTR 10K

PH 601 △ 759550963200 OPTOKOPPLER TCET 1100/V310

Q 102 759550971800 QUARZ 20.25MHZ 20PPM (10647

R 319	759550987600	WIDERST. 4.7 K 1/16W
R 320	759550987600	WIDERST. 4.7 K 1/16W
R 449	759550987600	WIDERST. 4.7 K 1/16W
R 461	759550987600	WIDERST. 4.7 K 1/16W
R 481	759551154900	WIDERST.15KOHM 1/16W 0603
R 508	759551099900	WIDERST. 2.7K OHM 1/4W
R 515	759551099900	WIDERST. 2.7K OHM 1/4W
R 522	△ 759550452800	WIDERST 2,2OHM1W
R 531	759550975800	WIDERST. 150 KOHM/ 0.5 W
R 532	759550975800	WIDERST. 150 KOHM/ 0.5 W
R 534	759510229600	WIDERSTAND 47OHM 5% 0,5W
R 619	△ 759550933500	WIDERST. 1M 0.5W
R 620	△ 759550457500	PTC 90HM 2PIN
R 635	759550542000	WIDERST 2,7OHM K 5W R10
R 636	759550452400	WIDERST 1MOHM1W
R 638	759510229600	WIDERSTAND 47OHM 5% 0,5W
R 644	△ 759550452600	WIDERST 4,7MOHM1/2W
R 645	759510229600	WIDERSTAND 47OHM 5% 0,5W
R 649	△ 759550452700	WIDERST 0,1OHM0,4W
R 652	759550975800	WIDERST. 150 KOHM/ 0.5 W

SK 202 759550926700 EURO AV-BUCHSE

T 102	830100484800	SMD TRANS BC848B/ BC847B P
T 103	830100484800	SMD TRANS BC848B/ BC847B P
T 201	830100484800	SMD TRANS BC848B/ BC847B P
T 205	830100484800	SMD TRANS BC848B/ BC847B P
T 206	830100385800	SMD TRANS BC858B/ BC857B P
T 207	830100385800	SMD TRANS BC858B/ BC857B P
T 301	830100484800	SMD TRANS BC848B/ BC847B P
T 304	830100385800	SMD TRANS BC858B/ BC857B P
T 305	830100385800	SMD TRANS BC858B/ BC857B P
T 306	830100385800	SMD TRANS BC858B/ BC857B P
T 307	830100385800	SMD TRANS BC858B/ BC857B P
T 401	759551113800	TRANS BC818-215
T 403	830100484800	SMD TRANS BC848B/ BC847B P

POS. NR. POS. NO.	MATERIAL-NR. PART NUMBER	BEZEICHNUNG DESCRIPTION
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T 404	830100484800	SMD TRANS BC848B/ BC847B P
T 405	830100484800	SMD TRANS BC848B/ BC847B P
T 406	830100484800	SMD TRANS BC848B/ BC847B P
T 407	830100385800	SMD TRANS BC858B/ BC857B P
T 408	830100385800	SMD TRANS BC858B/ BC857B P
T 409	830100385800	SMD TRANS BC858B/ BC857B P
T 410	830100385800	SMD TRANS BC858B/ BC857B P
T 501	830100385800	SMD TRANS BC858B/ BC857B P
T 502	759551077600	TRANS TRN BC639
T 503	759550945900	TRANS 2SK2381
T 504	759551112500	TRANS 2 SD 2586
T 601	830100484800	SMD TRANS BC848B/ BC847B P
T 602	830100484800	SMD TRANS BC848B/ BC847B P
T 603	830100484800	SMD TRANS BC848B/ BC847B P
T 609	759551089900	TRANS 2SK3562 TO220FP
T 701	830100484800	SMD TRANS BC848B/ BC847B P
T 702	830100484800	SMD TRANS BC848B/ BC847B P
T 703	830100484800	SMD TRANS BC848B/ BC847B P
T 704	759551013200	TRANS BF 421
T 705	759551013200	TRANS BF 421
T 706	759551013200	TRANS BF 421
T 707	759551153300	TRANS.2SC3619
T 708	759551153300	TRANS.2SC3619
T 709	759551153300	TRANS.2SC3619

TH 601 759880944900 TYRISTOR MCR 22-8

TR 501	759551132500	TRAFO HOR.
TR 502	△ 759551220900	TRAFO FBT SLIM TUBE TR/0033
TR 601	△ 759551221000	TRAFO FBT SLIM TUBE TR/0020

TU 102 759551221100 TUNER PS ENV57K04G3

X 301	759550999100	STECKERLEISTE 4 POL.
X 502	759551154400	STECKER 4 POL.
X 601	△ 759550966400	STECKER 2 POL.
X 602	△ 759551153000	STECKER 2 POL.
X 703	△ 759551077100	BILDROHRSOCKEL
X 941	759551054300	KOPFHOERERBUCHSE

ZD 501	759550989200	DIODE BZX 55 C 15
ZD 502	759550923600	DIODE BZX55C33
ZD 503	830972008200	Z DIODE 8.2 C 0,5W
ZD 601	759551098400	DIODE Z9.1V 1.5W
ZD 602	759550923500	DIODE ZPD5.1

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

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