

Service Manual

**20.1" LCD TV
Ver.3 (May. 2003)**

**Chassis no. SL-110P
Model no. DSL-20D1T**

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SAFETY NOTICE

WARNING: Only competent service personnel may carry out work involving the testing or repair of this equipment.

This receiver must operate under AC 100-240 volts, 50/60Hz.
Never connect to a DC supply of any other voltage or frequency.

Potential high voltages are present when this receiver is operating.
Operation of the receiver outside the cabinet or with the back cover removed involves a shock hazard from the receiver.
Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment.

Keep wires away from high voltage or high temperature component.

When replacing a high wattage resistor (oxide metal film resistor) in circuit board, keep the resistor body 10mm away from the circuit board.

Many electrical and mechanical parts in this equipment have special safety-related characteristics.
Replacement parts which have such features are identified by designated symbol on the parts list.
Before replacing any of these components, read the parts list carefully.
If the fuse is blown, replace it with the fuse specified in the Parts List.

SPECIFICATIONS

- Key parts

	Device	Use	Remark
1	LC201V1-A3 [LG Philips LCD]	20.1" TFT LCD panel	
2	TCPQ9091PD27E [SEM]	Tuner with IF	
3	PW164B [Pixelworks]	Image processor + u-Controller	
4	DS1817-10 [Dallas]	Reset (PW164B, SAA5264)	
5	8Mbits	Flash ROM	
6	24C16 (16Kbits)	EEPROM	
7	FSTD3306	Level shifter (I2C bus line)	
8	74LVC541	Buffer/Driver (Local key control)	
9	VPC3230D [Micronas]	Video processing	
10	SDA9400 [Micronas]	SRC	Option
11	MSP3410G [Micronas]	Sound processing	
12	TDA8944J [Philips]	Audio Amp.	
13	SAA5264 [Philips]	Teletext	Option
14	IRF7314 [IR]	MOSFET (LCD panel Vcc on/off)	
15	LA7217 [Sanyo]	Sync. detect	

-Channel table

CH	CCIR	GB	OIRT	Ireland	France	Australia	China
C00						46.25	
C01			49.75	45.75	47.75	57.25	49.75
C02	48.25		59.25	53.75	55.75	64.25	57.75
C03	55.25		77.25	61.75	60.5	86.25	65.75
C04	62.25		85.25	175.25	63.75	95.25	77.25
C05	175.25		93.25	183.25	176	102.25	85.25
C06	182.25		175.25	191.25	184	138.25	168.25
C07	189.25		183.25	199.25	192	175.25	176.25
C08	196.25		191.25	207.25	200	182.25	184.25
C09	203.25		199.25	215.25	208	189.25	192.25
C10	210.25		207.25	223.25	216	196.25	200.25
C11	217.25		215.25	231.25	189.25	209.25	208.25
C12	224.25		223.25	239.25	69.25	216.25	216.25
C13	82.25			247.25	76.25		471.25
C14				49.75	83.25		479.25
C15				57.75	90.25		487.25
C16				65.75	97.25		495.25
C17				77.75			503.25
C18				85.75			511.25
C19							519.25
C20							527.25
C21	471.25	←	←	←	←	←	535.25
C22	479.25	←	←	←	←	←	543.25
C23	487.25	←	←	←	←	←	551.25
C24	495.25	←	←	←	←	←	559.25
C25	503.25	←	←	←	←	←	607.25
C26	511.25	←	←	←	←	←	615.25
C27	519.25	←	←	←	←	←	623.25
C28	527.25	←	←	←	←	←	631.25
C29	535.25	←	←	←	←	534.25	639.25
C30	543.25	←	←	←	←	541.25	647.25
C31	551.25	←	←	←	←	548.25	655.25
C32	559.25	←	←	←	←	555.25	663.25
C33	567.25	←	←	←	←	562.25	671.25
C34	575.25	←	←	←	←	569.25	679.25
C35	583.25	←	←	←	←	576.25	687.25
C36	591.25	←	←	←	←	583.25	695.25
C37	599.25	←	←	←	←	590.25	703.25
C38	607.25	←	←	←	←	597.25	711.25
C39	615.25	←	←	←	←	604.25	719.25
C40	623.25	←	←	←	←	611.25	727.25
C41	631.25	←	←	←	←	618.25	735.25
C42	639.25	←	←	←	←	625.25	743.25
C43	647.25	←	←	←	←	632.25	751.25
C44	655.25	←	←	←	←	639.25	759.25
C45	663.25	←	←	←	←	646.25	767.25
C46	671.25	←	←	←	←	653.25	775.25
C47	679.25	←	←	←	←	660.25	783.25
C48	687.25	←	←	←	←	667.25	791.25
C49	695.25	←	←	←	←	674.25	799.25
C50	703.25	←	←	←	←	681.25	807.25
C51	711.25	←	←	←	←	688.25	815.25
C52	719.25	←	←	←	←	695.25	823.25
C53	727.25	←	←	←	←	702.25	831.25
C54	735.25	←	←	←	←	709.25	839.25
C55	743.25	←	←	←	←	716.25	847.25
C56	751.25	←	←	←	←	723.25	855.25
C57	759.25	←	←	←	←	730.25	863.25
C58	767.25	←	←	←	←	737.25	871.25
C59	775.25	←	←	←	←	744.25	879.25

CH	CCIR	GB	OIRT	Ireland	France	Australia	China
C60	783.25	←	←	←	←	751.25	887.25
C61	791.25	←	←	←	←	758.25	895.25
C62	799.25	←	←	←	←	765.25	903.25
C63	807.25	←	←	←	←	772.25	911.25
C64	815.25	←	←	←	←	779.25	919.25
C65	823.25	←	←	←	←	786.25	927.25
C66	831.25	←	←	←	←	793.25	935.25
C67	839.25	←	←	←	←	800.25	943.25
C68	847.25	←	←	←	←	807.25	951.25
C69	855.25	←	←	←	←	814.25	
C70	863.25						
C71	69.25						
C72	76.25						
C73	83.25						
C74	90.25						
C75	97.25						
C76	59.25						
C77	93.25						
S01	105.25		105.25	103.25	104.75		112.25
S02	112.25		112.25	111.25	116.75		120.25
S03	119.25		119.25	119.25	128.75		128.25
S04	126.25		126.25	127.25	140.75		136.25
S05	133.25		133.25	135.25	152.75		144.25
S06	140.25		140.25	143.25	164.75		152.25
S07	147.25		147.25	151.25	176.75		160.25
S08	154.25		154.25	159.25	188.75		224.25
S09	161.25		161.25	167.25	200.75		232.25
S10	168.25		168.25		212.75		240.25
S11	231.25		231.25		224.75		248.25
S12	238.25		238.25		236.75		256.25
S13	245.25		245.25	255.25	248.75		264.25
S14	252.25		252.25	263.25	260.75		272.25
S15	259.25		259.25	271.25	272.75		280.25
S16	266.25		266.25	279.25	284.75		288.25
S17	273.25		273.25	287.25	296.75		296.25
S18	280.25		280.25	295.25	136		304.25
S19	287.25		287.25	303.25	160		312.25
S20	294.25		294.25				320.25
S21	303.25		303.25		←		328.25
S22	311.25		311.25	←	←		336.25
S23	319.25		319.25	←	←		344.25
S24	327.25		327.25	←	←		352.25
S25	335.25		335.25	←	←		360.25
S26	343.25		343.25	←	←		368.25
S27	351.25		351.25	←	←		376.25
S28	359.25		359.25	←	←		384.25
S29	367.25		367.25	←	←		392.25
S30	375.25		375.25	←	←		400.25
S31	383.25		383.25	←	←		408.25
S32	391.25		391.25	←	←		416.25
S33	399.25		399.25	←	←		424.25
S34	407.25		407.25	←	←		432.25
S35	415.25		415.25	←	←		440.25
S36	423.25		423.25	←	←		448.25
S37	431.25		431.25	←	←		456.25
S38	439.25		439.25	←	←		
S39	447.25		447.25	←	←		
S40	455.25		455.25	←	←		
S41	463.25		463.25	←	←		

-CNI code
VPS data

Country	C	NI	Name	Network
	0x0D	0xC1	'A' 'R' 'D'	ARD bundesweit, Erstes Deutsches Fernsehen
	0x0D	0xC4		ARD-TV-Sternpunkt
	0x0D	0xC5		ARD-TV-Sternpunkt-Fehlersieb, interne Störfallkennung
	0x0D	0xC3	'A' 'R' 'Z' 'D'	ARD-ZDF Common program
	0x0D	0xC2	'Z' 'D' 'F'	ZDF bundesweit, Zweites Deutsches Fernsehen
	0x0D	0xE5	'W' 'D' 'R' 'L' '1'	WDR-1 / Regionalprogramm
	0x0D	0xE6	'W' 'D' 'R' 'L' '3'	WDR-3 / landesweit (split at times)
	0x0D	0xE7		WDR-3 / Bielefeld
	0x0D	0xE8		WDR-3 / Dortmund
	0x0D	0xE9		WDR-3 / Düsseldorf
	0x0D	0xEA		WDR-3 / Köln
	0x0D	0xEB		WDR-3 / Münster
	0x0D	0x9A	'R' 'T' 'L'	RTL / Regional
	0x0D	0x9B		RTL / Schleswig-Holstein
	0x0D	0x9C		RTL / Hamburg
	0x0D	0x9D		RTL / Berlin
	0x0D	0x9E		RTL / Niedersachsen
	0x0D	0x9F		RTL / Bremen
	0x0D	0xA0		RTL / Nordrhein-Westfalen
	0x0D	0xA1		RTL / Hessen
	0x0D	0xA2		RTL / Rheinland-Pfalz
	0x0D	0xA3		RTL / Baden-Württemberg
	0x0D	0xA4		RTL / Bayern
	0x0D	0xA5		RTL / Saarland
	0x0D	0xA6		RTL / Sachsen-Anhalt
	0x0D	0xA7		RTL / Mecklenburg-Vorpommern
	0x0D	0xA8		RTL / Sachsen
	0x0D	0xA9		RTL / Thüringen
	0x0D	0xAA		RTL / Brandenburg
	0x0D	0xAB		RTL Plus
	0x0D	0x8F	'R' 'T' 'L' '2'	RTL 2
	0x0D	0x90		RTL 2 / regional
	0x0D	0x95	'S' 'A' 'T' '1'	SAT 1 / Brandenburg
	0x0D	0x96		SAT 1 / Thüringen D96
	0x0D	0x97		SAT 1 / Sachsen
	0x0D	0x98		SAT 1 / Mecklenburg-Vorpommern
	0x0D	0x99		SAT 1 / Sachsen-Anhalt
	0x0D	0xAD		SAT 1 / Regional
	0x0D	0xAE		SAT 1 / Schleswig-Holstein
	0x0D	0xAF		SAT 1 / Hamburg
	0x0D	0xB0		SAT 1 / Berlin
	0x0D	0xB1		SAT 1 Niedersachsen
	0x0D	0xB2		SAT 1 / Bremen
	0x0D	0xB3		SAT 1 Nordrhein-Westfalen
	0x0D	0xB4		SAT 1 / Hessen
	0x0D	0xB5		SAT 1 / Rheinland-Pfalz
	0x0D	0xB6		SAT 1 / Baden-Württemberg

Country	C	NI	Name	Network
	0x0D	0xB7		SAT 1 / Bayern
	0x0D	0xB8		SAT 1 / Saarland
	0x0D	0xB9		SAT 1
	0x0D	0x94	'P' 'R' 'O' '7'	PRO 7
	0x0D	0xAC	'P' 'R' 'E' 'M' '1'	Premiere
	0x0D	0x92	'K' 'A' 'B' '1' '1'	Kabel 1
	0x0D	0xC7	'3' 'S' 'A' 'T'	Satelliten-Programm "3sat" (ARD/ZDF/ORF/SRG common programme)
	0x0D	0xCA	'B' 'R' '1' '1'	BR-1 / Regionalprogramm
	0x0D	0xCB	'B' 'R' '1' '3'	BR-3 / landesweit (split at times)
	0x0D	0xCC		BR-3 / Süd
	0x0D	0xCD		BR-3 / Nord
	0x0D	0xCE	'H' 'R' '1' '1'	HR-1 / Regionalprogramm
	0x0D	0xE0	'S' 'W' '1' '3'	SW 3 (Südwest 3), Verbund 3 Programme SDR, SR, SWF
	0x0D	0xE1		SW 3 / Regionalprogramm Baden-Württemberg
	0x0D	0xE2		SW 3 / Regionalprogramm Saarland
	0x0D	0xE3		SW 3 / Regionalprogramm Baden-Württemberg Süd
	0x0D	0xE4		SW 3 / Regionalprogramm Rheinland-Pfalz
	0x0D	0xDB	'S' 'F' 'B' '1' '1'	SFB-1 / Regionalprogramm
	0x0D	0xDC	'S' 'F' 'B' '1' '3'	SFB-3 (separation from Nord 3)
	0x0D	0xF7	'W' 'D' 'R'	Lokal-Programm WDR-Dortmund
	0x0D	0xF5	'M' 'D' 'R'	MDR / Dresden
	0x0D	0xF9		MDR / Magdeburg
	0x0D	0xFC		MDR / Erfurt
	0x0D	0xF3	'M' 'D' 'R' '1' '1'	MDR-1 / Landesprogramm Sachsen
	0x0D	0xF6		MDR-1 / Landesprogramm Sachsen-Anhalt
	0x0D	0xFA		MDR-1 / Landesprogramm Thüringen
	0x0D	0xFD		MDR-1 / Regionalprogramm
	0x0D	0xF4	'M' 'D' 'R' '1' '3'	MDR-3 / Sachsen
	0x0D	0xF8		MDR-3 / Sachsen-Anhalt
	0x0D	0xFB		MDR-3 / Thüringen
	0x0D	0xFE		MDR-3 / landesweit
	0x0D	0xD9	'R' 'B' '1' '1'	RB-1 / Regionalprogramm
	0x0D	0xDA	'R' 'B' '1' '3'	RB-3 (separation from Nord 3)
	0x0D	0x8E	'V' 'O' 'X'	VOX Fernsehen
	0x0D	0x8C	'N' '1' 'T' 'V'	n-tv
	0x0D	0x91	'E' 'U' 'R' 'S'	Eurosport
	0x0D	0x88	'V' 'I' 'V' 'A'	VIVA
	0x0D	0x89	'V' 'I' 'V' 'A' '2'	VIVA 2
	0x0D	0x85	'A' 'R' 'T' 'E'	Arte
	0x0D	0x8A	'S' '1' 'R' 'T' 'L'	Super RTL
	0x0D	0x8B	'R' 'T' 'L' 'C'	RTL Club
	0x0D	0xBA	'T' 'M' '3'	TM3 Fernsehen
	0x0D	0xC9	'K' 'I' 'N' 'D'	Kinderkanal ARD/ZDF
	0x0D	0xC8	'P' 'H' 'O' 'E' 'N'	Phoenix ARD/ZDF
	0x0D	0xCF	'H' 'E' 'S' 'S' '3'	Hessen 3 / landesweit
	0x0D	0xD0	'N' 'D' 'R' '1' '1'	NDR-1 / Landesprogramm dreiländerweit (split at times)
	0x0D	0xD1		NDR-1 / Landesprogramm Hamburg

Country	C	NI	Name	Network
	0x0D	0xD2		NDR-1 / Landesprogramm Niedersachsen
	0x0D	0xD3		NDR-1 / Landesprogramm Schleswig-Holstein
	0x0D	0xD4	'N' 'O' 'R' 'D' '3'	Nord-3 (common 3 Programme NDR, SFB, RB, split at times)
	0x0D	0xD5	'N' 'D' 'R' 'L' '3'	NDR-3 / dreiländerweit
	0x0D	0xD6		NDR-3 / Hamburg
	0x0D	0xD7		NDR-3 / Niedersachsen
	0x0D	0xD8		NDR-3 / Schleswig-Holstein
	0x0D	0xDD	'S' 'D' 'R' 'W' 'F'	SDR-1 + SWF-1 / Regionalprogramm Baden-Württemberg
	0x0D	0xDE	'S' 'W' 'F' 'L' '1'	SWF-1 / Regionalprogramm Rheinland-Pfalz
	0x0D	0xDF	'S' 'R' 'L' '1'	SR-1 / Regionalprogramm
	0x0D	0xEC	'S' 'D' 'R' 'L' '1'	SDR -1 / Regionalprogramm
	0x0D	0xED	'S' 'W' 'L' '3'	SW 3 / Regionalprogramm Baden-Württemberg Nord
	0x0D	0xEE		SW 3 / Regionalprogramm Mannheim
	0x0D	0xEF	'S' 'D' 'R' 'W' 'F'	SDR-1 + SWF-1 / Regionalprogramm Baden Württemb und Rhld-Pfalz
	0x0D	0xF0	'S' 'W' 'F' 'L' '1'	SWF-1 / Regionalprogramm
	0x0D	0xF1	'N' 'D' 'R' 'L' '1'	NDR-1 / Landesprogramm Mecklenburg-Vorpommern
	0x0D	0xF2	'N' 'D' 'R' 'L' '3'	NDR-3 / Mecklenburg-Vorpommern
	0x0D	0x81	'O' 'R' 'B' 'L' '1'	ORB-1 / Regionalprogramm
	0x0D	0x82	'O' 'R' 'B' 'L' '3'	ORB-3 / landesweit
	0x0D	0x87	'1' 'A'	1A-Fernsehen
	0x0D	0x8D	'D' 'S' 'F'	Deutsches Sportfernsehen
	0x0D	0xBB	'D' 'W' 'T' 'V'	Deutsche Welle Fernsehen Berlin
	0x0D	0xBD	'O' 'L' 'K' 'A' 'N'	Berlin-Offener Kanal
	0x0D	0xBE	'B' 'M' 'I' 'X' '2'	Berlin-Mix-Channel II
	0x0D	0xBF	'B' 'M' 'I' 'X' '1'	Berlin-Mix-Channel 1
	0x0D	0x41	'F' 'E' 'S' 'T' 'L'	FESTIVAL
	0x0D	0x42	'M' 'U' 'X' 'X'	MUXX
	0x0D	0x43	'E' 'X' 'T' 'R' 'A'	EXTRA
	0x0D	0x7C	'O' 'N' 'Y' 'X'	ONYX-TV
	0x0D	0x7D	'Q' 'V' 'C'	QVC-Teleshopping
	0x0D	0x7E	'O' 'D' 'E' 'O' 'N'	Nickelodeon
	0x0D	0x7F	'H' 'O' 'T'	Home Shopping Europe
Switzerland	0x04	0xC1	'S' 'F' '1'	SRG, Schweizer Fernsehen DRS, SF 1
	0x04	0xC2	'T' 'S' 'R' '1'	SSR, Télévision Suisse Romande, TSR 1
	0x04	0xC3	'T' 'S' 'I' '1'	SSR, Televisione svizzera di lingua italiana, TSI 1
	0x04	0xC7	'S' 'F' '2'	SRG, Schweizer Fernsehen DRS, SF 2
	0x04	0xC8	'T' 'S' 'R' '2'	SSR, Télévision Suisse Romande, TSR 2
	0x04	0xC9	'T' 'S' 'I' '2'	SSR, Televisione svizzera di lingua italiana, TSI 2
	0x04	0xCA	'S' 'R' 'G' 'S' 'A'	SRG SSR Sat Access
	0x04	0x81	'T' 'E' 'L' '2' '4'	TeleZüri
	0x04	0x82	'T' 'C'	Teleclub Abonnements-Fernsehen
	0x04	0x84	'T' 'E' 'L' 'B' 'E'	TeleBern
	0x04	0x85	'T' 'E' 'L' 'M' '1'	Tele M1
	0x04	0x86	'S' 'T' 'A' 'R'	Star TV
	0x04	0x87	'P' 'R' 'O' '7'	Pro 7
	0x04	0x88	'T' 'O' 'P' 'T' 'V'	TopTV

Country	C	NI	Name	Network
Austria	0x0A	0xC1	'O' 'R' 'F' '1'	ORF - FS 1
	0x0A	0xC2	'O' 'R' 'F' '2'	ORF - FS 2
	0x0A	0xCB		ORF- FS 2 / Lokalprogramm Burgenland
	0x0A	0xCC		ORF- FS 2 / Lokalprogramm Kärnten
	0x0A	0xCD		ORF- FS 2 / Lokalprogramm Niederösterreich
	0x0A	0xCE		ORF- FS 2 / Lokalprogramm Oberösterreich
	0x0A	0xD0		ORF- FS 2 / Lokalprogramm Steiermark
	0x0A	0xD1		ORF- FS 2 / Lokalprogramm Tirol
	0x0A	0xD2		ORF- FS 2 / Lokalprogramm Vorarlberg
	0x0A	0xD3		ORF- FS 2 / Lokalprogramm Wien
	0x0A	0xC3	'O' 'R' 'F' '3'	ORF - FS 3
	0x0A	0xCF		ORF- FS 2 / Lokalprogramm Salzburg

PKT8/30 data

Country	8/30 format 1		8/30 format 2		Name	Network
France	0x33	0xF1	0x2F	0x01	'T' 'F' '1'	TF1
	0x33	0xF2	0x2F	0x02	'F' 'R' '2'	France 2
	0x33	0xF3	0x2F	0x03	'F' 'R' '3'	France 3
	0x33	0xF4	0x2F	0x04	'C' '+'	Canal +
	0x33	0x0A	0x2F	0x0A	'F' R' '5'	Arte / La Cinquième -> France 5
	0x33	0xF6	0x2F	0x06	'M' '6'	M6
	0xFE	0x01	0x2F	0xE1	'E' 'U' 'R' ' ' 'N'	Euronews
	0x33	0xC4	0x2F	0xC4	'L' 'C' 'I'	LCI
	0xF1	0x01	0x2F	0xE2	'E' 'U' 'R' ' ' 'S'	Eurosport
	0xF5	0x00	0x2F	0xE5	'T' 'V' '5'	TV5
	0x33	0xC7	0x2F	0xC7	'T' 'M' 'C'	TMC Monte-Carlo
	0x33	0xC6	0x2F	0xC6	'M' 'C' 'M'	MCM
	0x33	0xC8	0x2F	0xC8	'P' 'R' 'E' 'M' ' '	Paris Première
	0x33	0xC9	0x2F	0xC9	'P' 'L' 'A' 'N' ' '	Planète
	0x33	0xC2	0x2F	0xC2	'C' 'J'	Canal J
	0x33	0xC3	0x2F	0xC3	'C' 'J' 'I' 'M'	Canal Jimmy
	0x33	0xC5	0x2F	0xC5	'M' 'E' 'T' 'E' 'O'	La Chaîne Météo
	0x33	0xC1	0x2F	0xC1	'A' 'B' '1'	AB1
	0x33	0x11	0x2F	0x11	'R' 'F' 'O' '1'	RFO1
	0x33	0x12	0x2F	0x12	'R' 'F' 'O' '2'	RFO2
	0x33	0xCA	0x2F	0xCA	'C' 'L' 'U' 'B'	Série Club
	0x33	0xCB	0x2F	0xCB	'T' 'T' 'O' 'O' 'N'	Télétoon
	0x33	0xCC	0x2F	0xCC	'T' 'E' 'V' 'A'	Téva
	0x33	0x21	0x2F	0x21	'T' 'L' 'M'	TLM
	0x33	0x22	0x2F	0x22	'T' 'L' 'T'	TLT
	0x33	0x20	0x2F	0x20	'A' 'Q' 'U' 'I'	Aquí TV
GB	0x44	0x7F	0x2C	0x7F	'B' 'B' 'C' '1'	BBC1
	0x44	0x41	0x2C	0x41		BBC1 NI
	0x44	0x7B	0x2C	0x7B		BBC1 Scotland
	0x44	0x7D	0x2C	0x7D		BBC1 Wales

Country	8/30 format 1		8/30 format 2		Name	Network
	0xFA	0x6F	0x2C	0x2F		/* BBC1 Wales - old code */
	0x44	0x40	0x2C	0x40	'B' 'B' 'C' '2'	BBC2
	0x44	0x7E	0x2C	0x7E		BBC2 NI
	0x44	0x44	0x2C	0x44		BBC1 Scotland
	0x44	0x42	0x2C	0x42		BBC1 Wales
	0xA2	0xFE	0x2C	0x3E		/* BBC2 - old code */
	0xC8	0xDE	0x2C	0x1E	'I' 'T' 'V'	ITV NETWORK
	0xFB	0x9C	0x2C	0x1C		ANGLIA TV
	0xB7	0xF7	0x2C	0x27		BORDER TV
	0xFC	0xE4	0x2C	0x24		CHANNEL TV
	0x25	0xD0	0x2C	0x30		WEST COUNTRY TV
	0xAD	0xD8	0x2C	0x18		GRANADA TV
	0xF3	0x3A	0x2C	0x3A		GRAMPIAN TV
	0xF9	0xD2	0x2C	0x12		SCOTTISH TV
	0x88	0x4B	0x2C	0x0B		LWT
	0x82	0xDD	0x2C	0x1D		CARLTON TV
	0x10	0xE4	0x2C	0x34		MERIDIAN TV
	0x5A	0xAF	0x2C	0x3F		HTV
	0x2F	0x27	0x2C	0x37		CENTRAL TV
	0xA8	0x2C	0x2C	0x2C		TYNE TEES TV
	0x83	0x3B	0x2C	0x3D		ULSTER TV
	0xFA	0x2C	0x2C	0x2D		YORKSHIRE TV
	0xAD	0xDC	0x5B	0xD2		GMTV
	0xFC	0xD1	0x2C	0x11	'C' 'H' '4'	CHANNEL 4
	0xB4	0xC7	0x2C	0x07		S4C
	0x96	0x02	0x2C	0x02	'C' 'H' '5'	CHANNEL 5 (1)
	0x16	0x09	0x2C	0x09		CHANNEL 5 (2)
	0x28	0xEB	0x2C	0x2B		CHANNEL 5 (3)
	0xC4	0x7B	0x2C	0x3B		CHANNEL 5 (4)
	0xFC	0xFD	0x2C	0x0D	'N' 'E' 'W' 'S'	SKY NEWS
	0x01	0xF2	0x5B	0xF1	'C' 'N' 'N' 'I'	CNNI
	0x37	0xE5	0x2C	0x25	'S' 'S' 'V' 'C'	SSVC
	0x44	0x01	0x5B	0xFA	'G' 'O' 'L' 'D'	UK GOLD
	0x44	0x02	0x2C	0x01	'L' 'I' 'V' 'N' 'G'	UK LIVING
	0x4D	0x58	0x2C	0x20	'V' 'H' '1'	VH-1
	0x4D	0x59	0x2C	0x21	'V' 'H' '1'	VH-1 (German Language)
	0x44	0x03	0x2C	0x3C	'W' 'I' 'R' 'E'	WIRE TV
	0x44	0x04	0x5B	0xF0	'T' 'C' 'C'	CHILDREN'S CH
	0x44	0x05	0x5B	0xEF	'B' 'R' 'A' 'V' 'O'	BRAVO
	0x44	0x06	0x5B	0xF7	'L' 'E' 'A' 'R' 'N'	LEARNING CH
	0x44	0x07	0x5B	0xF2	'D' 'I' 'S' 'C' 'V'	DISCOVERY
	0x44	0x08	0x5B	0xF3	'T' 'F' 'C'	FAMILY CH
	0x44	0x09	0x5B	0xF8	'L' 'I' 'V' 'E'	Live TV
	0xC4	0xF4	0x42	0xF4	'F' 'I' 'L' 'M' '4'	FilmFour
	0x44	0x57	0x2C	0x57	'W' 'O' 'R' 'L' 'D'	BBC WORLD
	0x44	0x68	0x2C	0x68	'P' 'R' 'I' 'M' 'E'	BBC Prime

Country	8/30 format 1	8/30 format 2	Name	Network
	0x44 0x69	0x2C 0x69	'N' 'E' 'W' '2' '4'	BBC News 24
	0x44 0xC1		'T' 'N' 'T'	TNT/Cartoon Network
	0x44 0xD1	0x5B 0xCC	'D' 'I' 'S' 'N' 'Y'	DISNEY CHANNEL UK
	0x4D 0x54	0x2C 0x14	'M' 'T' 'V'	MTV
	0x4D 0x5A	0x5B 0xF4	'P' 'L' 'U' 'S'	GRANADA PLUS
	0x4D 0x5B	0x5B 0xF5	'T' 'I' 'M' 'E'	GRANADA Timeshare
	0x5C 0x44		'Q' 'V' 'C'	QVC UK
	0x82 0xE1	0x2C 0x05	'S' 'E' 'L' '.'	CARLTON SELECT
	0x8E 0x71	0x2C 0x31	'N' 'B' 'C'	NBC Europe
	0xA4 0x60		'N' 'I' 'C' 'K' '.'	NICKELODEON UK
	0xA4 0x65		'P' 'A' 'R' 'A' 'M'	
	0xFC 0xF3	0x2C 0x13	'R' 'A' 'C' 'E'	RACING CH
	0xFC 0xF4	0x5B 0xF6	'H' 'I' 'S' 'T' '.'	HISTORY CH
	0xFC 0xF5	0x2C 0x15	'S' 'C' 'I' 'F' 'I'	SCI FI CHANNEL
	0xFC 0xF6	0x5B 0xF9	'T' 'R' 'A' 'V' '.'	SKY TRAVEL
	0xFC 0xF7	0x2C 0x17	'S' 'O' 'A' 'P' 'S'	SKY SOAPS
	0xFC 0xF8	0x2C 0x08	'S' 'P' 'O' 'R' 'T' '2'	SKY SPORT2
	0xFC 0xF9	0x2C 0x19	'G' 'O' 'L' 'D'	SKY GOLD
	0xFC 0xFA	0x2C 0x1A	'S' 'P' 'O' 'R' 'T'	SKY SPORTS
	0xFC 0xFB	0x2C 0x1B	'M' 'O' 'V' 'I' 'E'	MOVIE CHANNEL
	0xFC 0xFC	0x2C 0x0C	'P' 'L' 'U' 'S'	SKY MOVIES PLUS
	0xFC 0xFE	0x2C 0x0E	'S' 'K' 'Y' '1'	SKY ONE
	0xFC 0xFF	0x2C 0x0F	'S' 'K' 'Y' '2'	SKY TWO
Italy	0x39 0x01		'R' 'A' 'I' '1'	RAI 1
	0x39 0x02		'R' 'A' 'I' '2'	RAI 2
	0x39 0x03		'R' 'A' 'I' '3'	RAI 3
	0xFA 0x04		'R' 'E' 'T' 'E' '4'	RETE 4
	0x39 0x04		'R' 'E' 'T' 'E' 'A'	RETE A
	0xFA 0x05		'C' 'A' 'N' '5'	CANALE 5
	0xFA 0x06		'I' 'T' 'A' '1'	ITALIA 1
	0xFA 0x08		'T' 'M' 'C'	TMC
	0x39 0x97		'T' 'E' 'L' '1'	TELE+1
	0x39 0x98		'T' 'E' 'L' '2'	TELE+2
	0x39 0x99		'T' 'E' 'L' '3'	TELE+3
	0x39 0x10		'T' 'R' 'S' 'T' 'V'	TRS TV
	0x39 0x0A		'A' 'R' 'T' 'E'	Arte
	0x39 0x38		'R' 'T' 'V' '3' '8'	RTV 38
Spain	0x3E 0x00		'T' 'V' 'E' '1'	TVE1
	0xE1 0x00		'T' 'V' 'E' '2'	TVE2
	0xCA 0x03		'T' 'V' '3'	TV3
	0xBA 0x01		'E' 'T' 'B' '1'	ETB1
	0x34 0x02		'E' 'T' 'B' '2'	ETB2
	0xCA 0x33		'C' '3' '3'	C33

Country	8/30 format 1		8/30 format 2		Name	Network
	0x34	0x0A			'A' 'R' 'T' 'E'	Arte
Belgium	0x32	0x01	0x16	0x01	'B' 'R' 'T' 'N'	BRT TV1
	0x32	0x02	0x16	0x02	'T' 'V' '2'	CANVAS
	0x32	0x03			'R' 'T' 'B' 'F' '1'	RTBF1
	0x32	0x04			'R' 'T' 'B' 'F' '2'	RTBF2
	0x32	0x05	0x16	0x05	'V' 'T' 'M'	VTM
	0x32	0x06	0x16	0x06	'K' 'A' '2'	Kanaal2
	0x04	0x04	0x16	0x04	'V' 'T' '4'	VT 4
Denmark	0x73	0x92	0x29	0x01	'D' 'R' '1'	DR1
	0x49	0xCF	0x29	0x03	'D' 'R' '2'	DR2
	0x45	0x02	0x29	0x02	'T' 'V' '2'	TV2
Finland	0x35	0x81	0x26	0x01	'Y' 'L' 'E' '1'	YLE1
	0x35	0x82	0x26	0x02	'Y' 'L' 'E' '2'	YLE2
	0x35	0x8F	0x26	0x0F	'O' 'W' 'L' '3'	OWL3
Netherlands	0x31	0x01	0x48	0x01	'N' 'E' 'D' '1'	Nederland 1
	0x31	0x02	0x48	0x02	'N' 'E' 'D' '2'	Nederland 2
	0x31	0x03	0x48	0x03	'N' 'E' 'D' '3'	Nederland 3
	0x31	0x04	0x48	0x04	'R' 'T' 'L' '4'	RTL4
	0x31	0x05	0x48	0x05	'R' 'T' 'L' '5'	RTL5
	0x31	0x06	0x48	0x06	'V' 'E' 'R' 'O' 'N'	// Veronica
Norway	0x47	0x01			'N' 'R' 'K' '1'	NRK1
	0x47	0x03			'N' 'R' 'K' '2'	NRK2
	0x47	0x02			'T' 'V' '2'	TV2
	0x47	0x04			'T' 'V' '' 'N'	TV Norge
Sweden	0x46	0x01	0x4E	0x01	'S' 'V' 'T' '1'	SVT 1
	0x46	0x02	0x4E	0x02	'S' 'V' 'T' '2'	SVT 2
	0x46	0x40	0x4E	0x40	'T' 'V' '4'	TV 4
Poland	0x48	0x01			'T' 'V' 'P' '1'	SVT 1
	0x48	0x02			'T' 'V' 'P' '2'	SVT 2
	0x48	0x10			'T' 'V' 'P' 'O' 'L'	TV Polonia
Hungary	0x36	0x01			'M' 'T' 'V' '1'	MTV1
	0x36	0x11				MTV1 regional, Budapest
	0x36	0x51				MTV1 regional, Debrecen
	0x36	0x61				MTV1 regional, Miskolc
	0x36	0x21				MTV1 regional, Pécs
	0x36	0x31				MTV1 regional, Szeged
	0x36	0x41				MTV1 regional, Szombathely
	0x36	0x02			'M' 'T' 'V' '2'	MTV2

Country	8/30 format 1		8/30 format 2		Name	Network
	0x36	0x36			'D' 'U' 'N' 'A'	// Duna Televizio
	0x36	0x22			'T' 'V' '2'	// tv2
Czech Republic	0x42	0x01	0x32	0xC1	'C' 'T' '1'	CT 1
	0x42	0x31	0x32	0xF1		CT1 Regional
	0x42	0x11	0x32	0xD1		CT1 Regional, Brno
	0x42	0x21	0x32	0xE1		CT1 Regional, Ostravia
	0x42	0x02	0x32	0xC2	'C' 'T' '2'	CT 2
	0x42	0x32	0x32	0xF2		CT2 Regional
	0x42	0x12	0x32	0xD2		CT2 Regional, Brno
	0x42	0x22	0x32	0xE2		CT2 Regional, Ostravia
	0x42	0x03	0x32	0xC3	'N' 'O' 'V' 'A'	NOVA TV
Ireland	0x35	0x31	0x42	0x01	'R' 'T' 'E' '1'	RTE1
	0x35	0x32	0x42	0x02	'N' 'E' 'T' '2'	Network 2
	0x35	0x33	0x42	0x03	'T' 'G' '4'	// Teilifis na Gaeilge
	0x35	0x33			'T' 'V' '3'	TV3
Germany	0x49	0x02			'Z' 'D' 'F'	ZDF
	0x49	0x0C			'V' 'O' 'X'	VOX Television
	0x49	0x0A			'A' 'R' 'T' 'E'	Arte
	0x49	0x49			'Q' 'V' 'C'	QVC D Gmbh
	0x49	0xE4			'W' 'D' 'R' '3'	WDR-3
Portugal	0x35	0x10			'R' 'T' 'P' '1'	RTP1
	0x35	0x11			'R' 'T' 'P' '2'	RTP2
	0x35	0x12			'R' 'T' 'P' 'A' 'F'	RTPAF
	0x35	0x14			'R' 'T' 'P' 'A' 'Z'	RTPAZ
	0x35	0x13			'R' 'T' 'P' 'I'	RTPI
	0x35	0x15			'R' 'T' 'P' 'M'	RTPM
Slovakia	0x42	0xA1	0x35	0xA1	'S' 'T' 'V' '1'	STV1
	0x42	0xA3	0x35	0xA3	'S' 'T' 'V' '1'	// STV1 Regional, Košice
	0x42	0xA5	0x35	0xA5		// STV1 Regional, B. Bystrica
	0x42	0xA2	0x35	0xA2	'S' 'T' 'V' '2'	STV2
	0x42	0xA4	0x35	0xA4		// STV2 Regional, Košice
	0x42	0xA6	0x35	0xA6		// STV2 Regional, B. Bystrica
Switzerland	0x41	0x01	0x24	0xC1	'S' 'F' '1'	SF1
	0x41	0x02	0x24	0xC2	'T' 'S' 'R' '1'	SF2
	0x41	0x03	0x24	0xC3	'T' 'S' 'I' '1'	TSI 1
	0x41	0x07	0x24	0xC7	'S' 'F' '2'	SF 2
	0x41	0x08	0x24	0xC8	'T' 'S' 'R' '2'	TSR 2
	0x41	0x09	0x24	0xC9	'T' 'S' 'I' '2'	TSI 2
	0x41	0x0A	0x24	0xCA	'S' 'R' 'G' 'S' 'A'	// SAT ACCESS

- SCART connector



At the TV (Female) At the cable (Male)

Pin	Description	Signal Level	Impedance
1	Audio Out Right	0.5 V rms	<1k ohm
2	Audio In Right	0.5 V rms	>10k ohm
3	Audio Out Left	0.5 V rms	<1k ohm
4	Audio Ground		
5	RGB Blue Ground		
6	Audio In Left	0.5 V rms	>10k ohm
7	RGB Blue In	0.7 V±3 dB	75 ohm
8	Slow switch In	TV: 0-2 V AV: 4.5-12 V	>10k ohm
9	RGB Green Ground		
10	N.C		
11	RGB Green In	0.7 V±3 dB	75 ohm
12	N.C		
13	RGB Red Ground		
14	RGB status Ground		
15	RGB Red In	0.7 V ±3 dB	75 ohm
16	Blanking Signal (RGB status)	RGB: 1-3 V TV/AV: 0-0.4 V	75 ohm
17	Composite Video Ground (Sync Ground)		
18	Blanking Signal Ground		
19	Composite Video Out	1 V±3 dB	75 ohm
20	Composite Video In (Luminance In)	1 V±3 dB	75 ohm
21	Ground/Shield (Chassis)		

- S-Video connector



At the TV (Female)

Pin	Name	Description
1	GND	Ground (Y)
2	GND	Ground (C)
3	Y	Intensity (Luminance)
4	C	Color (Chrominance)

ALIGNMENT INSTRUCTION

Service Mode

- If you replace the EEPROM by a new (blank) one, the EEPROM data will be initialized as follows;

Item	Default values
BLU brightness	0
Teletext	W-Euro
SCART	Yes

- You can change the values in the Service mode, if necessary.

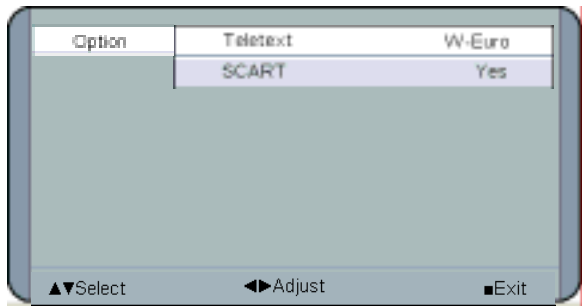
- To switch the TV set into Service mode, press the
Digit 1 key → Mute key → Status key → Mute key
in sequence within 5 seconds.
In the Service mode, the OSD “Service” will be displayed.
- To exit Service mode, press and hold (for 1.5 second) the **Mute key**.

Digit 4 KEY (Picture adjustment)



1. Press the Digit 4 key to call up the Picture adjustment menu.
2. Set the BLU(back Light Unit) brightness to “0”.

Digit 5 key (Option setting)



1. Press the Digit 5 key to call up the Option setting menu.
2. Set the Options as follow;

■ **Teletext option**

You must select the Teletext language according to your country.
Select one of the following: **W-Euro**, **E-Euro**, **RUS**, **GR-TR**, **Arab**, **No**.

	Teletext language	Area
W-Euro	West European	West/North Europe, Australia, Asia, Africa
E-Euro	East European	East Europe
RUS	Cyrillic	Russia / Bulgaria
GR-TR	Greek/Turkish	Greece/Turkey
Arab	Arabic/French	Middle East/Africa
No	I301 (SAA6264) is not used	Without Teletext

■ **SCART option**

Choose **Yes** if J503 is SCART connector, and **No** if RCA connector.

	J503 (Connector)	Area
Yes	SCART	Europe, <i>Russia</i>
No	RCA	China, Asia, Middle East, Australia, <i>Africa</i>

Digit 8 key, LEFT + UP + AV key (EEPROM clear)

This key is used to perform control/system lock up reset.
Use this key to clear EEPROM data if TV have malfunctioned, e.g. local control lock up.
Note that the stored data will be erased and initialized to default values after initializing EEPROM.

You can clear EEPROM data by pressing the **LEFT(VOLUME DOWN), (PR) UP and AV key** on the TV set at the same time in the Stand-by mode.
Use this, if you can not switch your TV set on in the Stand-by mode.

Factory Mode

Remark: These modes are used for factory only.

Digit 1 Key (Heat-run & Test pattern mode)

- Pressing this key, the Test pattern will be displayed as follow;
Normal → Red pattern→ Green pattern→ Blue pattern→ White pattern →Normal
- Note that you can exit from this mode with this key only.

Digit 2 key (Picture Control Checking)

- Pressing this key, the Picture control value will be changed in sequence automatically.
Brightness (min max center) →Contrast (min max center) →Colour (min max center) →Sharpness (min max center) →Tint (left right center) →Normal

Digit 3 Key (Sound Control Checking)

- Pressing this key, the Sound control value will be changed in sequence automatically.
Treble (min max center) → Bass (min max center) →Balance (left right center) → Volume (min max center)

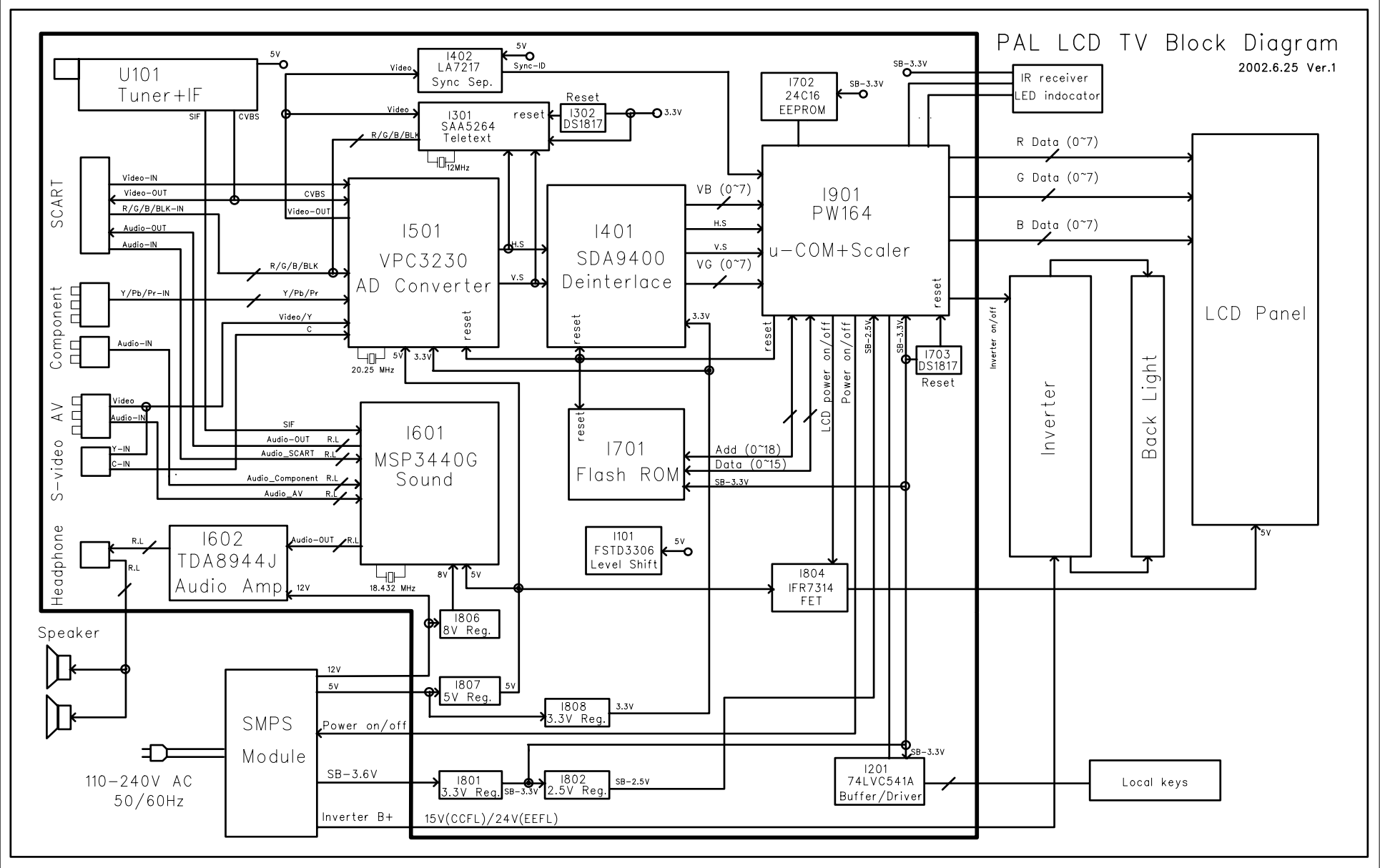
Digit 6 key (Outgoing)

- Pressing this key, OSD “Outgoing” will be displayed during initializing the EEPROM data, and then the set will be turned off automatically.

No.	Item	Data	No	Item	Data
1	CH data (PR0–99)	CH52	2	Station Name	- - - - -
3	SKIP (PR2–99)	Yes	4	System	- -
5	Colour	- - -	6	Fine tune	center
7	Bri /Cont/Col/Sharp	Normal	8	Treble/Bass/Balance	Center
9	Sound Spatial	No	10	Sound Forced Mono	Off
11	Volume	30/100	12	Child lock	No
13	OSD	Opaque	14	Language	English
15	TV shape	4:3			

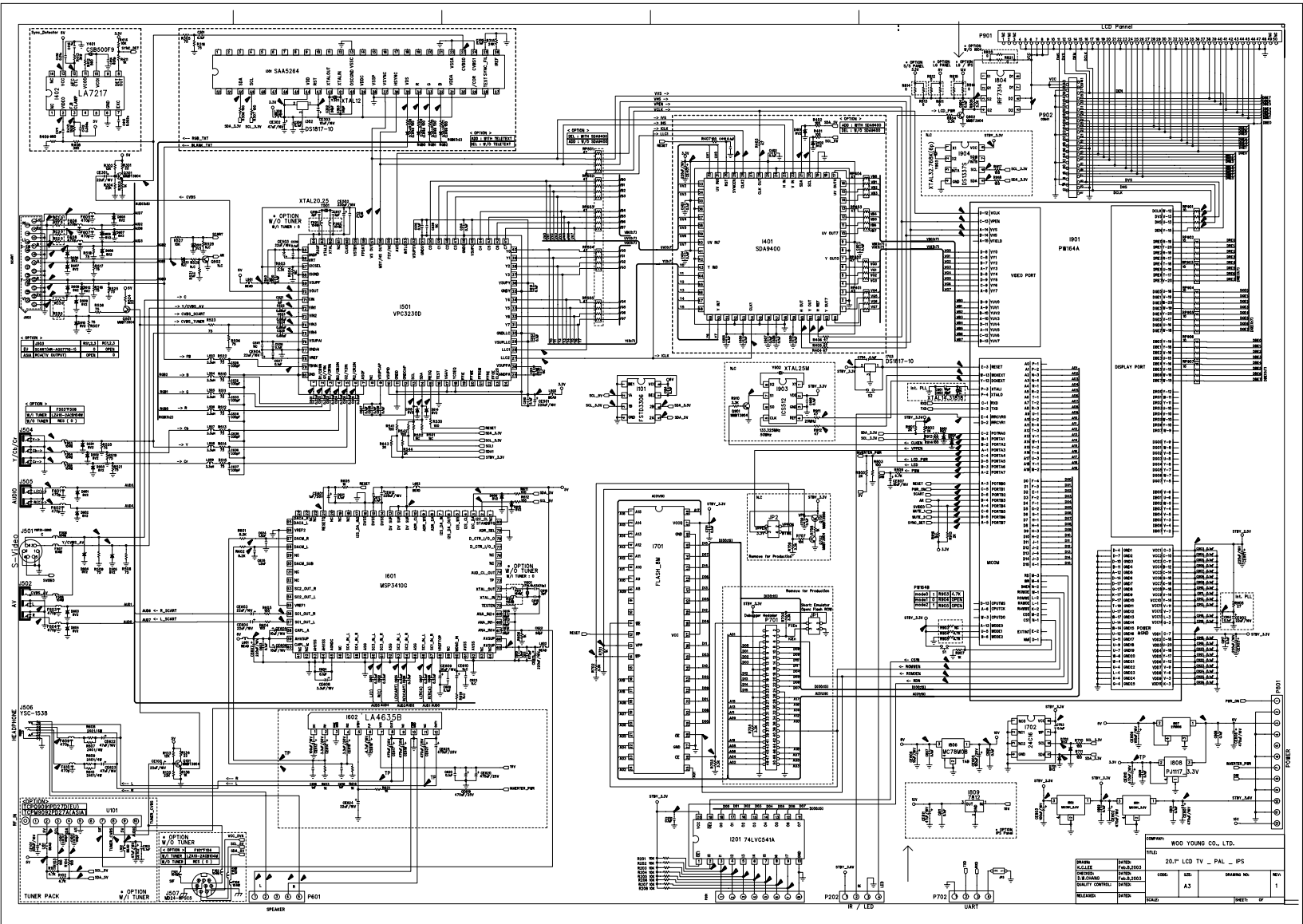
- When you turn on the TV set for the first time, the **Language** menu for the on-screen display appears.

BLOCK DIAGRAM



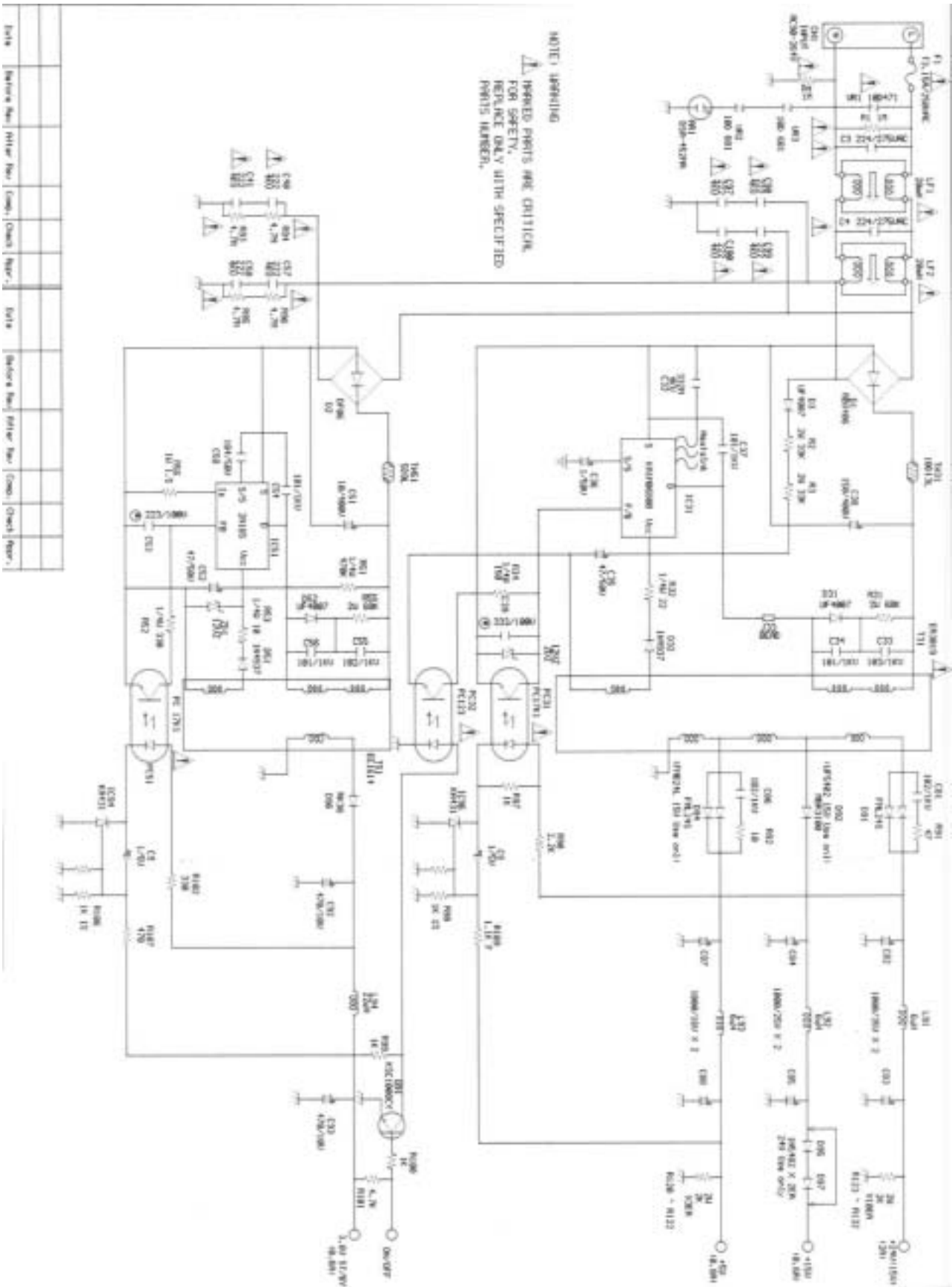
SCHEMATIC DIAGRAM

Main Board



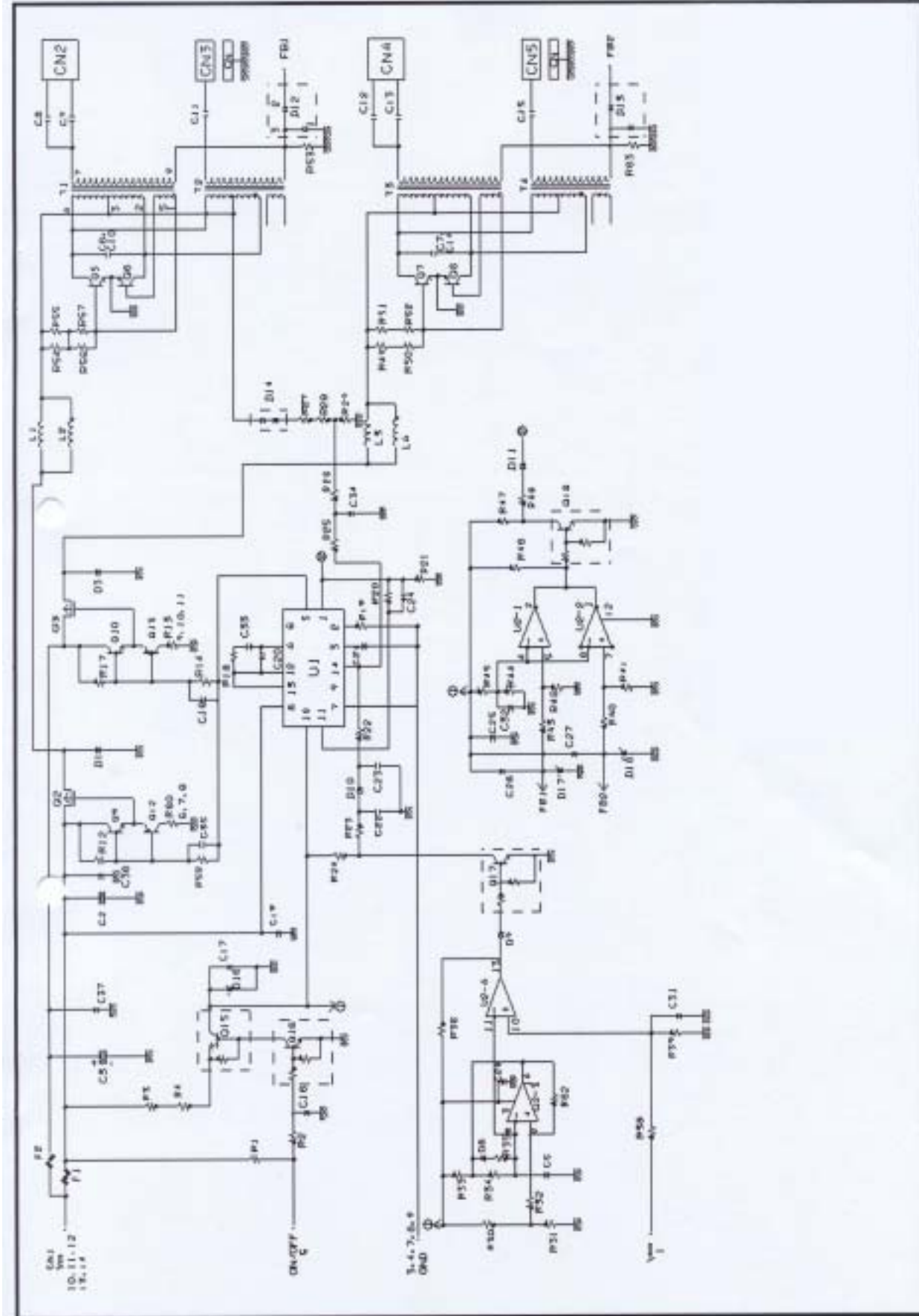
SCHEMATIC DIAGRAM

Power board



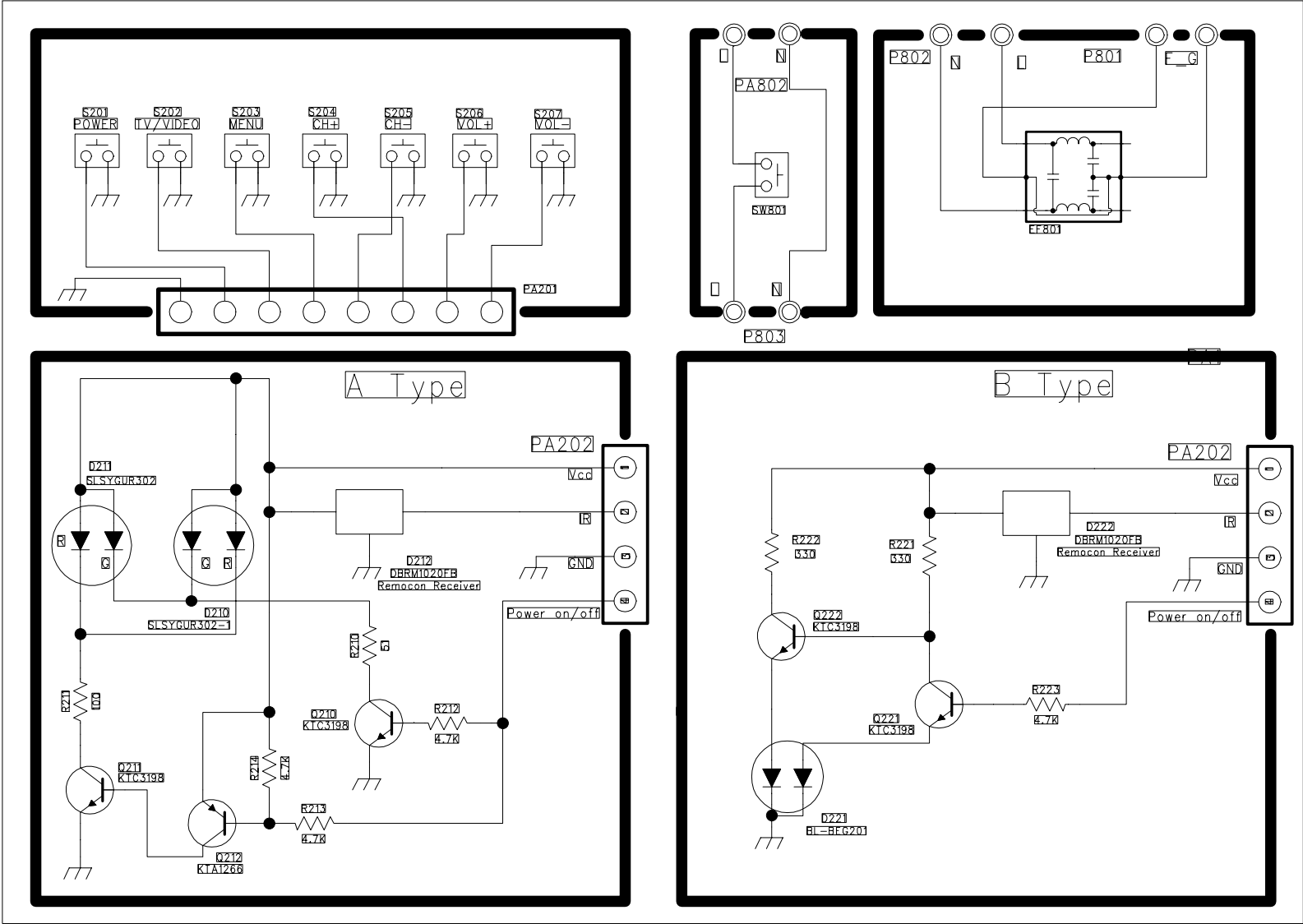
SCHEMATIC DIAGRAM

Inverter (CCFL)

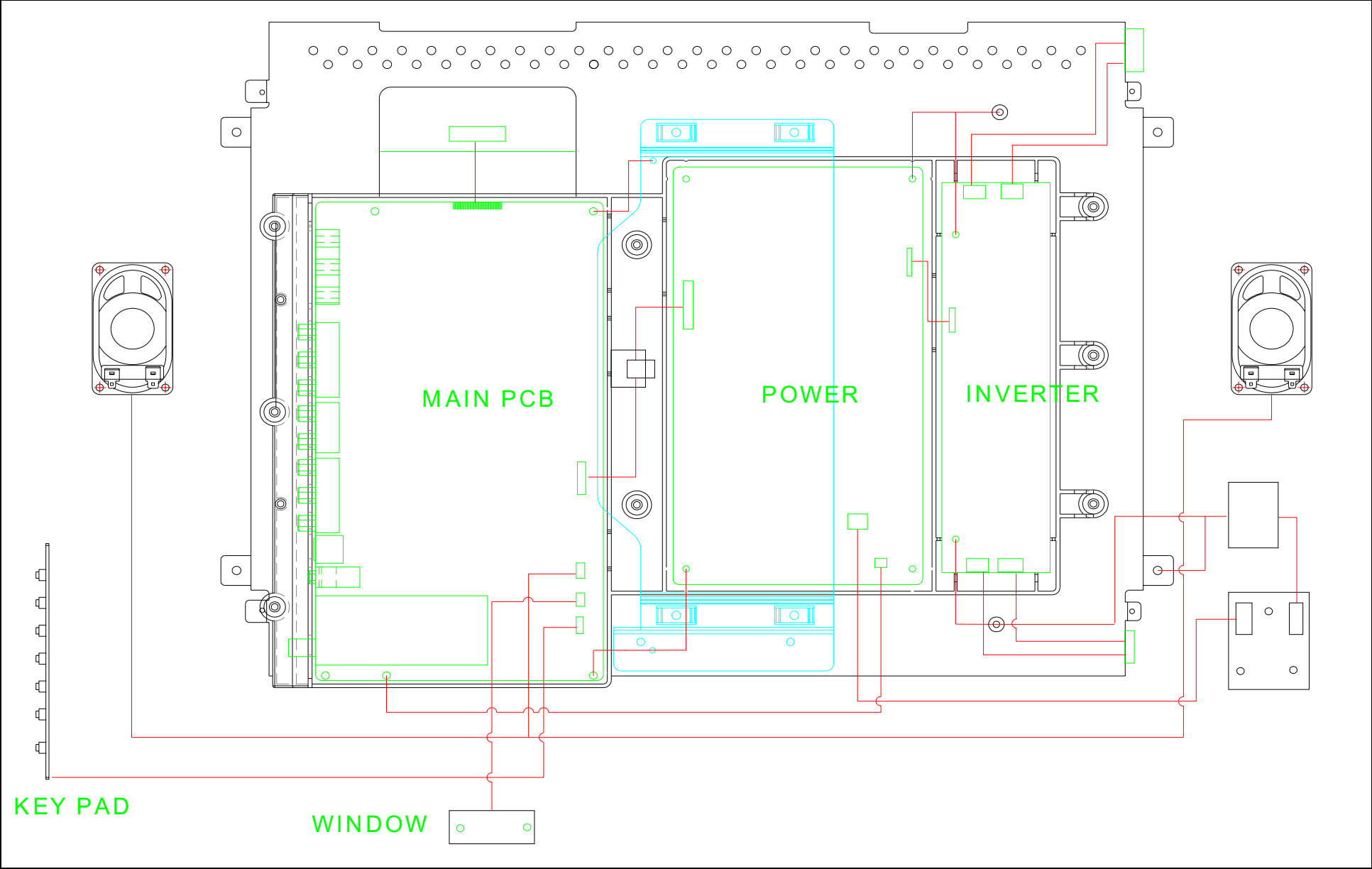


SCHEMATIC DIAGRAM

Sub board














WIRING DIAGRAM



POWER Board

No	Part No	Name	Desc	Remark
1	AR1	ARRESTOR	DSA-452M	⚠
2	C100	C CERA	4KV 2200PF	Y-CAP ⚠
3	C3	C MYLAR	275VAC 0.22UF	X-CAP ⚠
4	C32	C CERA	4KV 3300PF	Y-CAP ⚠
5	C33	C CERA	1KV 0.01UF	⚠
6	C34	C CERA	1KV 100PF	⚠
7	C35	C ELECTRO	50V 47UF	
8	C36	C ELECTRO	50V 1UF	
9	C37	C CERA	1KV 100PF	⚠
10	C38	C ELECTRO	400V 150UF	⚠
11	C39	C POLYESTER	100V 0.033UF	
12	C4	C MYLAR	275VAC 0.22UF	X-CAP ⚠
13	C40	C CERA	4KV 2200PF	Y-CAP ⚠
14	C41	C CERA	4KV 2200PF	Y-CAP ⚠
15	C51	C ELECTRO	400V 10UF	⚠
16	C52	C ELECTRO	50V 47UF	
17	C53	C POLYESTER	100V 0.022UF	
18	C54	C CERA	1KV 100PF	⚠
19	C56	C CERA	50V 0.1UF	
20	C57	C CERA	4KV 2200PF	Y-CAP ⚠
21	C58	C CERA	4KV 2200PF	Y-CAP ⚠
22	C81	C CERA	1KV 1000PF	⚠
23	C82	C ELECTRO	35V 1000UF	
24	C83	C ELECTRO	35V 1000UF	
25	C84	C ELECTRO	25V 1000UF	
26	C85	C ELECTRO	25V 1000UF	
27	C86	C CERA	1KV 1000PF	⚠
28	C87	C ELECTRO	16V 2200UF	
29	C88	C ELECTRO	16V 2200UF	
30	C92	C ELECTRO	10V 470UF	
31	C93	C ELECTRO	10V 470UF	
32	C94	C ELECTRO	50V 1UF	
33	C96	C ELECTRO	50V 1UF	
34	C97	C CERA	4KV 2200PF	Y-CAP ⚠
35	C98	C CERA	4KV 2200PF	Y-CAP ⚠
36	C99	C CERA	4KV 2200PF	Y-CAP ⚠
37	CN1	WAFER	FW2360-02	
38	CN91	CONNECTOR	12 PIN	
39	CN93	CONNECTOR	14 PIN	
40	D1	BRIDGE DIODE	RBV406	⚠
41	D2	BRIDGE DIODE	DF06M	⚠
42	D20	WIRE JUMPER	20MM	
43	D31	DIODE	UF4007	⚠
44	D32	DIODE	1N4937	⚠
45	D51	DIODE	1N4937	⚠
46	D52	DIODE	UF4007	⚠
47	D91	DIODE	FML24S	⚠
48	D92	DIODE	UF5402	⚠
49	D94	DIODE	FMB24L	⚠

No	Part No	Name	Desc	Remark
50	D96	DIODE	RK36	
51	F1	FUSE	250V 3.15A	
52	F1	FUSE BOX	FH51H	®
53	HS2	HEATSINK		
54	HS31	HEATSINK		
55	IC31	SMPS IC	KA1M0680-B	Fairchild 
56	IC51	ST-BY SMPS IC	ICE2A165	Infineon 
57	IC94	REGULATOR	KIA431A	
58	IC96	REGULATOR	KIA431A	
59	J100	WIRE JUMPER	15MM	
60	J101	WIRE JUMPER	25MM	
61	J102	WIRE JUMPER	8MM	
62	J103	WIRE JUMPER	15MM	
63	J33	COIL BEAD		
64	J34	WIRE JUMPER	25MM	
65	J35	WIRE JUMPER	15MM	
66	J4	WIRE JUMPER	15MM	
67	J5	WIRE JUMPER	15MM	
68	J90	WIRE JUMPER	8MM	
69	J92	WIRE JUMPER	15MM	
70	J93	WIRE JUMPER	8MM	
71	J94	WIRE JUMPER	8MM	
72	J95	WIRE JUMPER	20MM	
73	J97	WIRE JUMPER	20MM	
74	J97	WIRE JUMPER	15MM	
75	J98	WIRE JUMPER	8MM	
76	J99	WIRE JUMPER	8MM	
77	L91	COIL CHOKE	6UH	
78	L92	COIL CHOKE	6UH	
79	L93	COIL CHOKE	6UH	
80	L94	COIL CHOKE	22UH	
81	LF1	LINE FILTER	SQ2828	
82	LF2	LINE FILTER	SQ2828	
83	PC31	PHOTO COUPLER	PC817	
84	PC32	PHOTO COUPLER	PC123	
85	PC51	PHOTO COUPLER	PC817	
86	PE1	CONNECTOR	1 PIN	
87	Q91	TR	KSC1008C-Y	®
88	R1	R CARBON	1/2W 1M	
89	R100	R CARBON	1/8W 1K	
90	R101	R CARBON	1/8W 4.7K	
91	R102	R CARBON	1/8W 330	
92	R104	WIRE JUMPER	6MM	
93	R106	R CARBON	1/8W 1K	
94	R107	R CARBON	1/8W 470	
95	R109	R CARBON	1/8W 1.1K	
96	R120	R METAL	2W 2K	
97	R121	R METAL	2W 2K	
98	R122	R METAL	2W 2K	
99	R123	R METAL	2W 2K	
100	R124	R METAL	2W 2K	

No	Part No	Name	Desc	Remark
101	R125	R METAL	2W 2K	
102	R126	R METAL	2W 2K	
103	R127	R METAL	2W 2K	
104	R128	R METAL	2W 2K	
105	R129	R METAL	2W 2K	
106	R130	R METAL	2W 2K	
107	R131	R METAL	2W 2K	
108	R132	R METAL	2W 2K	
109	R20	WIRE JUMPER	15MM	
110	R31	R METAL	2W 68K	⚠
111	R33	R METAL	2W 150K	⚠
112	R34	R CARBON	1/4W 150	
113	R4	R COMPOSITION	1/2W 4.7M	⚠
114	R51	R CARBON	1/4W 470K	
115	R52	R CARBON	1/4W 330	
116	R53	R CARBON	1/4W 10	
117	R54	COIL BEAD		
118	R55	R METAL	2W 68K	®
119	R56	R WIREWOUND	1W 1	⚠
120	R88	WIRE JUMPER	6MM	
121	R89	R CARBON	1/8W 1K	
122	R91	R CARBON	1/4W 100	
123	R92	R CARBON	1/4W 10	
124	R93	R COMPOSITION	1/2W 4.7M	⚠
125	R94	R COMPOSITION	1/2W 4.7M	⚠
126	R95	R COMPOSITION	1/2W 4.7M	⚠
127	R96	R COMPOSITION	1/2W 4.7M	⚠
128	R97	R CARBON	1/8W 4.7K	
129	R98	R CARBON	1/8W 1K	
130	R99	R CARBON	1/8W 1K	
131	T31	MAIN TRANS	SW6500MA	⚠
132	T51	ST-BY TRANS	SW6500SB	⚠
133	TH31	THERMISTER	NTC10D-13	⚠
134	TH51	THERMISTER	NTC5D-9	⚠
135	VR1	VARISTOR	10D471	⚠
136	VR2	VARISTOR	10D561	⚠
137	VR3	VARISTOR	10D561	⚠

PARTS OF DIFFERENCE

SCART option

Option	J503	RS1-RS3	RC1-RC3
Yes	JACK SCART (HR-AG0771G-1)	R CHIP (0 ohm)	R CHIP (Open)
No	JACK RCA (YS01-0001)	R CHIP (Open)	R CHIP (0 ohm)

Teletext option

	I301
With Teletext	IC TELETEXT (SAA5264)
W/O Teletext	IC TELETEXT (open)

Power cord option

	Power cord	Remark
Europe	SP-023-IS14	
Swiss	SP-027-IS14	
Italy	SP-028-IS14	
Denmark	SP-029-IS14	
UK	SP-60-IS14	
Israel	SP-87-IS14	
Australia	SP502B-IS14	
China	SP-506-IS14	