

SAMSUNG

液晶电视

底板

GTR27KS

GTR32KS

型号

LA27T51B

LA32T51B

维修手册

液晶电视



时尚特点

- DVI、PC（模拟）、2 个分量、2 个视频、S-Video
- 亮度：500cd/m²
- 对比度：
27"：1000：1，32"：800：1
- 响应时间：16ms
- 动态对比度
- 画中画（仅限于在 PC 上）



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URL: <http://itself.sec.samsung.co.kr/>

14 参考信息

14-1 技术术语

-TFT-LCD

（薄膜晶体管液晶显示器）

ADC（模数变换器）

这是将模拟信号转换为数字信号的电路。

-PLL（锁相回路）

在进行模数变换时，设备使时钟同步 HSYNC 与视频时钟同步。

-变换器

向液晶显示屏灯供电的设备，该设备产生约 1,500~2,000V。

-AC 适配器

将交流(90V~240V)转换为直流(+12V 或 14V)的设备。

-SMPS（切换模式电源）

切换模式电源。该设计技术用于通过开/关逐步升高/降低输入供电。

-FRC（帧速控制器）

改变屏幕上一秒内显示的图像帧数的技术。实际上，TFT-LCD 屏要求每秒 60 帧。因此，需要该技术将输入图像转为 60 帧，与输入帧数无关。

-图像换算器

将不同的输入分辨率转换为其他分辨率（例如 640*480 转为 1024*768）的技术。

-自动配置（自动调节）

这是按下一键即将显示器调到最佳状态的算法。

-OSD（屏幕显示）

屏幕显示，客户可用该项轻松控制屏幕。

-图像锁定

该项系指在液晶显示器上进行“精细调节”，功能有“精细”和“粗糙”。

-精细

“精细”调节用于通过控制相差调节可见度。

-粗糙

通过用视频时钟和 PLL 时钟调谐，进行调节。

-DVI（数字视频接口）

该项为与显示技术无关的视频数据类型提供高速数字连接。该接口主要是为了在计算机和显示设备之间提供接口。

-L.V.D.S.（低压差分信令）

一种数字传输方法。可用于从主 PBA 传输到显示屏。

-DVI（数字视频接口）

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-T.M.D.S

（最小过渡差分信令）

一种数字传输方法。可用于从视频卡传输到主 PBA。

-DDC（显示数据通道）

该项是主机和相关设备之间的通信方法。
在计算机和显示器之间可即插即用。

-EDID

扩展显示识别数据 PC 可通过与 PC 和显示器通信的 DDC 线路将显示器信息识别为产品数据、产品名称、显示模式、系列号和信号源等等。

-点距

显示器上的图像由红色、绿色和蓝色点组成。点越近，分辨率越高。相同颜色的两点之间的距离被秒为“点距”。单位：mm

-竖直频率

每秒必须对屏幕重画几次，以便产生和显示供用户观看的图像。每秒重复频率被称为竖直频率和刷新速率。单位：Hz
例如：如果相同的光每秒重复 60 次，该项将被视为 60Hz。

-水平频率

水平扫描连接屏幕右边至左边的一行的时间被称为水平周期。水平周期的倒数被称为水平频率。单位：kHz

-隔行扫描和非隔行扫描方法

从上至下依次显示屏幕水平行被称为非隔行扫描方法，而依次显示奇数行然后显示偶数行被称为隔行扫描方法。非隔行扫描方法用于大多数显示器，以保证图像清晰。隔行扫描方法与电视中采用的相同。

-即插即用

该功能通过允许计算机和显示器自动交换信息来向用户提供最佳质量的屏幕画面。本显示器遵循即插即用功能的国际标准 VESA DDC。

-分辨率

用于构成屏幕图像的水平 and 竖直点数被称为“分辨率”。该数表示显示精度。因屏幕上可显示更多的图像信息，所以高分辨率适用于执行多项任务。

示例：如果分辨率为 1280×1024 ，系指屏幕是由 1280 个水平点（水平分辨率）和 1024 个竖直点（竖直分辨率）构成的。

-BTSC

广播电视制式委员会

采用 NTSC 制式的大多数国家（包括美国、加拿大、智利、委内瑞拉和中国台湾）采用立体声广播制式。该术语还指为促进该制式的开发和管理而组建的组织机构。

-EIAJ

日本电子工业协会。

-射频电缆

通常用于电视天线的圆形信号电缆。

-卫星广播

通过卫星提供广播服务。在全国各地都可收到优质画质和清楚的声音，与观看者所在位置无关。

-声音平衡

在具有两个扬声器的电视机上平衡来自各扬声器的音量。

-有线电视

使用无线电通过频率信号传输地面广播，而通过有线网络传输有线广播。如欲观看有线电视，必须购买有线接收器并将接收器接在有线网上。

-CATV

“CATV”指除地面广播公司的 VHF 或 UHF 广播之外，在酒店、学校和其它大楼通过自己的广播系统提供的广播服务。闭路电视节目可能包括电影、娱乐和教育节目。（与有线电视不同）

只有在提供闭路电视服务的地区内才可以收看闭路电视。

-S-Video

“超级视频”的缩写。S-Video 允许多达 800 行的水平分辨率，可以播放优质图像。

-VHF/UHF

VHF 指电视频道 2 至 13，而 UHF 指频道 14 至 69。

-频道细调

通过本功能，观看者可以微调电视频道，以获得最佳观看条件。三星液晶电视具有自动和手动频道微调功能，使观看者能够调节所需设置。

-外部设备输入

外部设备输入指从录像机、摄录一体机和 DVD 放像机等电视广播之外的外部视频设备输入的视频。

14-2 管脚配置

14-2-1 DVI-D

同步 类型 管脚编号	24 针 DVI-D			
1	Rx2-	13	NC	
2	Rx2+	14	DDC 输入电源 (+5V)	
3	GND	15	IDENT-DVI	
4	NC	16	输出信号 (HDCP 控制)	
5	NC	17	Rx0-	
6	DDC-SCL	18	Rx0+	
7	DDC-SDA	19	GND	
8	NC	20	NC	
9	Rx1-	21	NC	
10	Rx2+	22	GND	
11	GND	23	RxC+	
12	NC	24	RxC-	

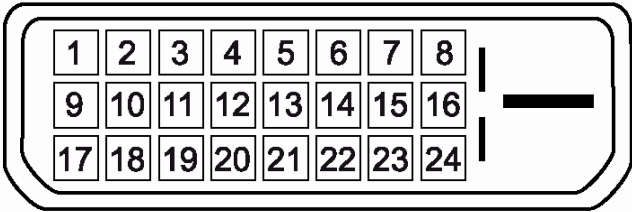


图 1

14-2-2 分量 1, 2

RCA 绿色	Y
	GND
RCA 蓝色	Pb (Cb)
	GND
RCA 红色	Pr (Cr)
	GND
RCA 白色	Audio L
	GND
RCA 红色	Audio R
	GND

14-2-4 A/V 1, 2

RCA 黄色	CVBS
RCA 白色	Audio L
	GND
RCA 红色	Audio R
	GND

14-2-3 S-Video

管脚	单独分开
1	GND
2	Y
3	C
4	GND
5	GND

14-2-5 D-SUB

管脚	单独分开
1	红色
2	绿色
3	蓝色
4	GND
5	GND
6	GND 红色
7	GND 绿色
8	GND 蓝色
9	DDC 电源输入 (+5V)
10	IDENT PC
11	GND
12	DDC 数据 (SDA)
13	水平同步
14	竖直同步
15	DDC 时钟 (SCL)

14-2-6 PC 显示模式

屏幕位置和尺寸随 PC 显示器的类型及其分辨率而异。
推荐表中的分辨率。(支持支持极限之间的所有分辨率)

模式	分辨率	水平频率 (kHz)	竖直频率 (Hz)	像素时钟频率 (MHz)	同步极性(H/V)
IBM	640 x 480	31.469	59.940	25.175	- / -
	720 x 400	31.469	70.087	28.322	- / +
VESA	640 x 480	37.861	72.809	31.500	- / -
	640 x 480	37.500	75.000	31.500	- / -
	800 x 600	37.879	60.317	40.000	+ / +
	800 x 600	48.077	72.188	50.000	+ / +
	800 x 600	46.875	75.000	49.500	+ / +
	1024 x 768	48.364	60.000	65.000	- / -
	1024 x 768	56.476	70.069	75.000	- / -
	1024 x 768	60.023	75.029	78.750	+ / +
	1360 x 768	47.712	60.015	85.800	+ / +

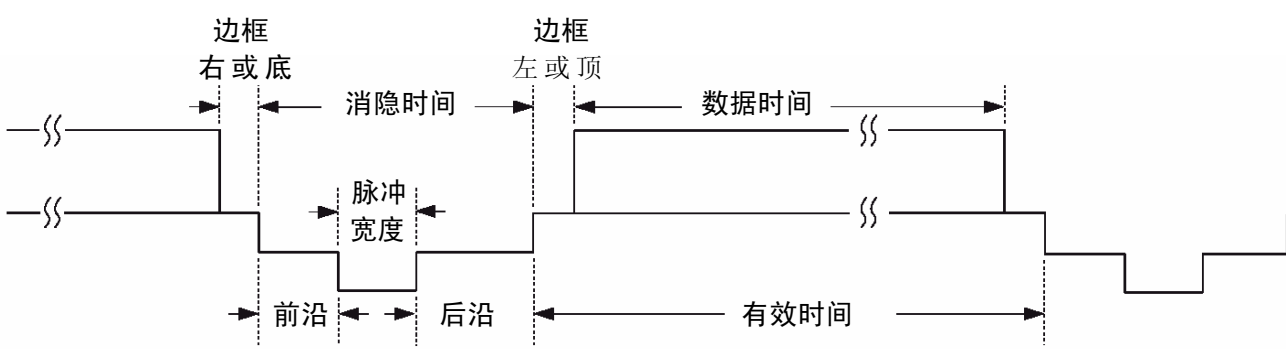
- 不支持隔行扫描模式。
- 如果选择非标视频格式，本机可能运行异常。
- DVI 不支持 PC 功能。

14-3 同步图

维修手册中本章叙述计算机行业公认为计算机生成的视频信号标准的同步情况。

14-3-1 液晶显示屏模式 1

同步编号	LTA400W2
创始公司	VESA
型号名称	1366/60Hz
分辨率（水平×竖直）	1366×768
水平 频率	47.712kHz
总计时间	20.959μs
有效时间	15.906μs
消隐时间	5.053μs
边界（左/右）	0.000μs
数据时间	15.906μs
前沿	0.749μs
同步宽度	1.702μs
后沿	2.994μs
同步极性	正
竖直 频率	60.015Hz
总计时间	16.662ms
有效时间	16.097ms
消隐时间	0.566ms
边界（顶/底）	0.000ms
数据时间	16.097ms
前沿	0.063ms
同步宽度	0.105ms
后沿	0.377ms
同步极性	正
点时钟	85.500MHz
同步类型	单独分开
扫描类型	N/I



14-3-2 支持的模式 (1)

同步编号	2	3	11	17	32
创始公司	IBM	IBM	VESA	VESA	MAC
型号名称	VGA2	VGA3	640/72Hz	640/75Hz	640/67Hz
分辨率 (水平×竖直)	720×400	640×480	640×480	640×480	640×480
水平 频率	31.469kHz	31.469kHz	37.861kHz	37.500kHz	35.000kHz
总计时间	31.777μs	31.778μs	26.413μs	26.667μs	28.571μs
有效时间	26.058μs	26.058μs	20.825μs	20.317μs	21.164μs
消隐时间	5.720μs	5.720μs	5.588μs	6.350μs	7.407μs
边界 (左/右)	0.318μs	0.318μs	0.254μs	0.000μs	0.000μs
数据时间	25.422μs	25.422μs	20.317μs	20.317μs	21.164μs
前沿	0.318μs	0.318μs	0.508μs	0.508μs	2.116μs
同步宽度	3.813μs	3.813μs	1.270μs	2.032μs	2.116μs
后沿	1.589μs	1.589μs	3.810μs	3.810μs	3.175μs
同步极性	负	负	负	负	负
竖直 频率	70.087Hz	59.940Hz	72.809Hz	75.000Hz	66.667Hz
总计时间	14.268ms	16.683ms	13.735ms	13.333ms	15.000ms
有效时间	13.155ms	15.761ms	13.100ms	12.800ms	13.714ms
消隐时间	1.113ms	0.922ms	0.635ms	0.533ms	1.286ms
边界 (顶/底)	0.222ms	0.254ms	0.211ms	0.000ms	0.000ms
数据时间	12.711ms	15.253ms	12.678ms	12.800ms	13.714ms
前沿	0.191ms	0.064ms	0.026ms	0.027ms	0.086ms
同步宽度	0.064ms	0.064ms	0.079ms	0.080ms	0.086ms
后沿	0.858ms	0.794ms	0.528ms	0.427ms	1.114ms
同步极性	正	负	负	负	负
点时钟	28.322MHz	25.175MHz	31.500MHz	31.500MHz	30.240MHz
同步类型	单独分开	单独分开	单独分开	单独分开	单独分开
扫描类型	N/I	N/I	N/I	N/I	N/I

14-3-3 支持的模式 (2)

同步编号	13	14	18
创始公司	VESA	VESA	VESA
型号名称	800/60Hz	800/72Hz	800/75Hz
分辨率 (水平×竖直)	800×600	800×600	800×600
水平			
频率	37.879kHz	48.077kHz	46.875kHz
总计时间	26.400μs	20.800μs	21.333μs
有效时间	20.000μs	16.000μs	16.162μs
消隐时间	6.400μs	4.800μs	5.171μs
边界 (左/右)	0.000μs	0.000μs	0.000μs
数据时间	20.000μs	16.000μs	16.162μs
前沿	1.000μs	1.120μs	0.323μs
同步宽度	3.200μs	2.400μs	1.616μs
后沿	2.200μs	1.280μs	3.232μs
同步极性	正	正	正
竖直			
频率	60.317Hz	72.188Hz	75.000Hz
总计时间	16.579ms	13.853ms	13.333 ms
有效时间	15.840ms	12.480ms	12.800 ms
消隐时间	0.739ms	1.373ms	0.533 ms
边界 (顶/底)	0.000ms	0.000ms	0.000 ms
数据时间	15.840ms	12.480ms	12.800 ms
前沿	0.026ms	0.770ms	0.021 ms
同步宽度	0.106ms	0.125ms	0.064 ms
后沿	0.607ms	0.478ms	0.448 ms
同步极性	正	正	正
点时钟	40.000MHz	50.000MHz	49.500MHz
同步类型	单独分开	单独分开	单独分开
扫描类型	N/I	N/I	N/I

14-3-4 支持的模式 (3)

同步编号	15	16	19	
创始公司	VESA	VESA	VESA	VESA
型号名称	1024/60Hz	1024/70Hz	1024/75Hz	1360/60Hz
分辨率 (水平×竖直)	1024x768	1024x768	1024x768	1360x768
水平				
频率	48.363kHz	56.476kHz	60.023kHz	47.712kHz
总计时间	20.677μs	17.707μs	16.660μs	20.959μs
有效时间	15.754μs	13.653μs	13.003μs	15.906μs
消隐时间	4.923μs	4.053μs	3.777μs	5.053μs
边界 (左/右)	0.000μs	0.000μs	0.000μs	0.000μs
数据时间	15.754μs	13.653μs	13.003μs	15.906μs
前沿	0.369μs	0.320μs	0.323μs	0.749μs
同步宽度	2.092μs	1.813μs	1.219μs	1.702μs
后沿	2.462μs	1.920μs	2.235μs	2.994μs
同步极性	负	负	正	正
竖直				
频率	60.004Hz	70.069Hz	75.029Hz	60.015Hz
总计时间	16.666ms	14.272ms	13.328ms	16.662ms
有效时间	15.880ms	13.599ms	12.795ms	16.097ms
消隐时间	0.786ms	0.672ms	0.533ms	0.566ms
边界 (顶/底)	0.000ms	0.000ms	0.000ms	0.000ms
数据时间	15.880ms	13.599ms	12.795ms	16.097ms
前沿	0.062ms	0.053ms	0.017ms	0.063ms
同步宽度	0.124ms	0.106ms	0.050ms	0.105ms
后沿	0.600ms	0.513ms	0.466ms	0.377ms
同步极性	负	负	正	正
点时钟	65.000MHz	75.000MHz	78.750MHz	85.500MHz
同步类型	单独分开	单独分开	单独分开	单独分开
扫描类型	N/I	N/I	N/I	N/I

14-4 屏面说明

制造商	供货商P/N	屏面代码	屏面ABB	标签代码	备注
SEC	LT140X1-002	BN07-00004A	SA	BN68-00239H	-
SEC	LT150XS-L01	BN07-00009A	SB		-
SEC	LT150XS-L01-B	BN07-00022A	SC		-
SEC	LTM150XS-L02	BN07-00005A	SD		-
SEC	LT181E2-132	BN07-00001A	SE		-
SEC	LT150XS-T01	BN07-00010A	SF		-
SEC	LTM181E3-132	BN07-00019A	SG		-
SEC	LT170E2-131	BN07-10001D	SH		-
SEC	LT181E2-131	BN07-10001E	SJ		-
SEC	LTM170E4-L01	BN07-00018A	SK		-
SEC	LTM240W1-L01	BN07-00015A	SL		-
SEC	LTM213U3-L01	BN07-00016A	SM		-
SEC	LTM150XH-L01	BN07-00026A	SN		-
SEC	LTM150XH-L03	BN07-00027A	SP		-
SEC	LTM150XS-L01	BN07-00032A	SQ		DELL(ZPD)
SEC	LTM181E4-L01	BN07-00034A	SR		PVA
SEC	LTM170EH-L01	BN07-00036A	SS		TN
SEC	LTM170E5-L01	BN07-00037A	SU		PVA
SEC	LTM150XH-L11	BN07-00041A	SV		-
SEC	LTM213U4-L01	BN07-00039A	SW		PVA
SEC	LTM150XH-L01(ZPD)	BN07-00045A	SX		ZPD
SEC	LTM150XH-L04	BN07-00046A	SY		New panel with high brightness
SEC	LTM170W1-L01	BN07-00047A	SZ		Panel for TV
SEC	LTM150XH-L06	BN07-00053A	EA		Panel for TV/ High luminance for 450cd _ SONY&EOS Team Panel for TV
SEC	LTM153W1-L01	BN07-00054A	EB		Use NIKE MODEL
SEC	LTM170EH-L05	BN07-00055A	EC		Panel EOS proj. for high brightness of 17" EH-L05
SEC	LTM170E5-L03	BN07-00056A	ED		Dell 1702FP pro. E4. EH mechanical Compatible
SEC	LTM190E1-L01	BN07-00057A	EE		DELL 1900 FP
SEC	LTM181E5-L01	BN07-00061A	EF		18" narrow bezel GH18PS
SEC	LTM150XP-L01	BN07-00065A	EG		AMLCD PVA PANEL
SEC	LTM240W1-L02	BN07-00062A	EH		Panel for 15" Wide TV
SEC	LTM170EU-L01	BN07-00071A	EJ		Slim design, TN
SEC	LTM170E5-L04	BN07-00072A	EK		E5-L04 6 bits FRC... for IBM
SEC	LTA220W1-L01	BN07-00074A	EL		Panel for 22" TV
SEC	LTM170E6-L02	BN07-00075A	EM		AMLCD Narrow & slim design 17" PVA mode
SEC	LTM170W1-L01	BN07-00082A	EN		LTM170W1-L01 ZPD panel
SEC	LTM170EH-L01	BN07-00080A	EP		LTM170EH-L01 ZPD panel
SEC	LTM170E5-L01	BN07-00081A	EQ		LTM170E5-L01 ZPD panel
SEC	LTM170EH-L05	BN07-00083A	ER		LTM170EH-L05 ZPD panel
SEC	LTM170E5-L03	BN07-00084A	ES		LTM170E5-L03 ZPD panel
SEC	LTM170EU-L01	BN07-00085A	ET		LTM170EU-L01 ZPD panel
SEC	LTM170E5-L04	BN07-00086A	EU		LTM170E5-L04 ZPD panel
SEC	LTM170E6-L02	BN07-00087A	EV		LTM170E6-L02 ZPD panel
SEC	LTM150XH-L06	BN07-00091A	EW		Color coordinates change for LCD TV
SEC	LTM153W1-L01	BN07-00092A	EX		AMLCD WIDE 15",9/10
SEC	LTM170W1-L01	BN07-00100A	EY		Color Coordinates change code management
SEC	LTM170EH-L05	BN07-00097A	EZ		LTM170E5-L05 Color Coordinates Change Panel Code

制造商	供货商P/N	屏面代码	屏面ABB	标签代码	备注
SEC	LTA400W1-L01	BN07-00109A	S1		PANEL of AMLCD 40" TV
SEC	LTM153W1-L01	BN07-00110A	S2		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM150XH-L06	BN07-00111A	S3		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM170W1-L01	BN07-00112A	S4		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM170EH-L05	BN07-00113A	S5		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM220W1-L01	BN07-00114A	S6		ZPD Panel for AMLCD 22" TV
SEC	LTM150XH-L06	BN07-00117A	S7		ZPD Panel code
SEC	LTM153W1-L01	BN07-00118A	S8		ZPD Panel code
SEC	LTM170WP-L01	BN07-00119A	S9		PVA Panel for NIKE
SEC	LTM213U4-L01	BN07-00039A	E1		21.3" NARROW
SEC	LTA260W1-L01	BN07-00121A	E2		VENUS
SEC	LTA220W1-L01	BN07-00074B	E3		"Panel B-level panel code for 22"" TV Panel "
SEC	LTA320W1-L01	BN07-00108A	E4		"Panel for AMLCD 32"" TV"
SEC	LTM213U4-L01	BN07-00124A	E5		NARROW BEZEL 21 " PANEL
SEC	LTM170E6-L04	BN07-00129A	E6		"HIGHLAND 17"" LOW PANEL (Panel only for TCO03)"
SEC	LTM190E1-L01	BN07-00088A	E7		LTM190E1-L01 ZPD panel
SEC	M150X4-L06	BN07-00137A	E8		15" Narrow & Slim panel
SEC	LTA170V1	BN07-00139A	E9		"17"" Panel for Muse 4:3 VGA TV"
SEC	LTM190E1-L02	BN07-00128A	E10		"New Panel from AMLCDI, Specification : 6bit Driver IC"
SEC	LTM170EX-L01	BN07-00143A	E11		"Development new Panel from AMLCD"
SEC	LTM170E8-L01	BN07-00144A	E12		"Development new Panel from AMLCD"
SEC	LTM170E6-L04	BN07-00129B	E13		"ZPD panel for AMLCD (Panel only for TCO03)"
SEC	LTA320W1-L02	BN07-00108B	E14		"Creat B-level Panel code for AMLCD 32"" TV"
SEC	LTM190E1-L03	BN07-00151A	E15		"Development new 19"" Panel form AMLCD (Panel only for TCO03)"
SEC	LTM240W1-L03	BN07-00134A	E16		"AMLCD 24"" panel development"
SEC	LTM190E1-L02	BN07-00128B	E17		"New Panel from AMLCD, Specification : 6bit Driver IC(ZPD)"
SEC	LTM190E4-L01	BN07-00145A	E18		"AMLCD 24"" new panel development"
SEC	LTM170E8-L01	BN07-00158A	E19		"ZPD code derivation"
SEC	LTM170EX-L01	BN07-00159A	E20		"ZPD code derivation"
SEC	LTM190E1-L03	BN07-00151B	E21		"Creat new panel code for AMLCD 19"" (Panel only for TCO03)"
SEC	LTA460H1-L01	BN07-00157A	E22		"creat panel code for AMLCD 46"" TV "
SEC	LTM170EU-L11	BN07-00160A	E23		"creat new panel code for AMLCD 17"" (Panel only for TCO03)"
SEC	LTM240W1-L03	BN07-00134B	E24		"24"" panel ZPD code derivation"
SEC	LTM190E4-L01	BN07-00145B	E25		"AMLCD 19"" ZPD Panel code derivation"
SEC	LTM240W1-L03	BN07-00134B	E26		"24"" panel ZPD code derivation"
SEC	LTM150XO-L01	BN07-00164A	E27		"AMLCD 15"" XO-L01 new panel development"
SEC	LTM150XO-L01	BN07-00164B	E28		"AMLCD 15"" XO-L01 ZPD code derivation"
SEC	LTM170EU-L11	BN07-00160B	E29		"AMLCD 17"" NEW panel code derivation"
SEC	LTA320W2-L01	BN07-00172A	SPZ		AMLCD 32" NEW panel
SEC	LTM213U4-L01	BN07-00124B	SPZ		21.3" Narrow PANEL ZPD Panel derivation
SEC	LTM170EU-L11	BN07-00189A	STH		AMLCD EU-L11 Pb free panel code derivation
SEC	LTM170EU-L11	BN07-00189B	STZ		AMLCD EU-L11 Pb free panel ZPD code derivation
SEC	LTM240W1-L04	BN07-00188A	SPH		24" A-DCC new panel development
SEC	LTM240W1-L04	BN07-00188B	SPZ		24" A-DCC panel ZPD code derivation
SEC	LTM190EX-L01	BN07-00191A	STH		AMLCD 19" TN new Panel
SEC	LTM190EX-L02	BN07-00191B	STZ		AMLCD 19" TN new Panel ZPD derivation
SEC	LTA230W1-L02	BN07-00184A	SPZ		AMLCD 23" 16:9 new Panel

14 参考信息

制造商	供货商P/N	屏面代码	屏面ABB	标签代码	备注
SEC	LTA260W2-L01	BN07-00185A	SPZ		AMLCD 26" 16:9 new Panel
SEC	LTM240M1-L01	BN07-00195A	SPH		24" panel with high brightness deveiopment
SEC	LTA400W2-L01	BN07-00186A	SPZ		AMLCD 40" 16:9 new Panel
SEC	LTM150XO-L01	BN07-00197A	STH		AMLCD 15" XO-L01 Pb free panel code
SEC	LTM150XO-L01	BN07-00197B	STZ		AMLCD 15" XO-L01 Pb free panel ZPD code
SEC	LTM170EU-L21	BN07-00202A	STZ		AMLCD EU-L21 ZPD new code derivation
SEC	LTA460W2-L03	BN07-00187A	SPZ		BEETOVEN 46"ZPD new panel
SEC	LTM240M1-L01	BN07-00195B	SPZ		24" igh brightness panel ZPD code derivation
SEC	M170EX-L21	BN07-00206A	STZ		AMLCD LTM170EX-L21 ZPD new code derivation
SEC	LTA460H3-L01	BN07-00200A	SPZ		AMLCD 46" LED BLU panel
SEC	LTM170EU-L15	BN07-00214A	STZ		AMLCD EU-L15 TV high brightness ZPD new code derivation
SEC	LTM170E8-L21	BN07-00218A	SPZ		AMLCD LTM170E8-L21 PVA ZPD new code derivation
SEC	LTM190EX-L21	BN07-00222A	STZ		DISPLAY LCD
SEC	LTM201U1-L01	BN07-00190B	SPZ		AMLCD 20.1" Normal panel ZPD code derivation
SEC	LTM190E4-L21	BN07-00223A	SPZ		HAYDN 17" PZD code PANEL derivation
SEC	LTA570H1-L01	BN07-00196A	SPZ		AMLCD 57" new panel development
SEC	LTM150XO-L21	BN07-00229A	STZ		AMLCD 15" XO-L21 8ms panel code
SEC	LTA260W2-L11	BN07-00239A	SPZ		AMLCD 26" 16:9 7Line new Panel
SEC	LTA400WS-LH1	BN07-00245A	SPZ		AMLCD 40" 16:9 SPVA 90% new Panel
SEC	LTM213U6-L01	BN07-00231A	SPZ		AMLCD 21.3" PVA new Panel Code
SEC	LTA320WS-LH2	BN07-00244A	SPZ		AMLCD 32" 16:9 SPVA 90% new Panel
SEC	LTA400WS-LH1	BN07-00245A	SPZ		AMLCD 40" 16:9 SPVA 90% new Panel
CPT	CLAA150XG09	BN07-00141A	PA		"CPT 15"" Monitor new panel development"
CPT	CLAA170EA02	BN07-00148A	PB		"17"" CPT NEW development panel"
CPT	CLAA170EA02	BN07-00148B	PC		"17"" CPT ZPD panel code derivation"
CPT	CLAA150XG09	BN07-00141B	PTZ		"CPT 15"" panel ZPD code derivation (GOYA-PJT)"
CPT	CLAA150XP01	BN07-00173A	PTH		CPT 15" PSWG code derivation
CPT	CLAA150XP01	BN07-00173B	PTZ		CPT 15" PSWG panel ZPD code
CPT	CLAA170EA07	BN07-00174A	PTH		"CPT 17"" PSWG panel code derivation
CPT	CLAA170EA07	BN07-00174B	PTZ		CPT 17"" PSWG type new Panel code""
CPT	CLAA170EA07	BN07-00174B	PTZ		CPT 17" PSWG type new Panel code
CPT	CLAA170EA07Q	BN07-00220A	PTZ		CPT 17" PSWG R/T 8msec code derivation
CPT	CLAA170EA07Q	BN07-00220B	PTH		CPT 17" PSWG R/T 8msec HPD code derivation
CPT	CLAA150XP01F	BN07-00236A	PTZ		CPT 15" PSWG panel ZPD & Lead free code derivation
TOSHIBA	LTM15C419(A)	BN07-00002A	TA		-
TOSHIBA	LTM15C423(B)	BN07-00006A	TB		-
TOSHIBA	LTM18C161	BN07-00008A	TC		-
TOSHIBA	LTM15C443	BN07-00031A	TD		-
TOSHIBA	LTM15C458	BN07-00043A	TE		-
TOSHIBA	LTM15C458S	BN07-00077A	TF		"TSB 15"" high brightness Panel"
TOSHIBA	LTM15C458	BN07-00078A	TG		Toshiba ZPD panel
TOSHIBA	LTM15C458S	BN07-00099A	TH		TSB LTM15C458S (ZPD)
HANNSTAR	HSD150MX41A(A)	BN07-00020A	NA		"TTL type"
HANNSTAR	HSD150MX12	BN07-00030A	NB		"TTL type"
HANNSTAR	HSD170ME13	BN07-00180A	NTH		Hannstar 17" TN new panel development
HANNSTAR	HSD170ME13	BN07-00180B	NTZ		Hannstar 17" TN new panel development ZPD code derivation
HANNSTAR	HSD190ME12	BN07-00210A	NTZ		Hannstar 19" TN new panel development

制造商	供货商P/N	屏面代码	屏面ABB	标签代码	备注
HANNSTAR	HSD150MX17-A	BN07-00226A	NTZ		Hannstar 15" slim panel ZPD code derivation
TORISAN	TM150XG-22L03(A)	BN07-00021A	RA		-
TORISAN	TM150XG-26L06	BN07-00042A	RB		-
TORISAN	TM181SX-76N01	BN07-00048A	RC		-
TORISAN	TM150XG-26L06	BN07-00059A	RD		15" XGA TN MODE(ZPD)
TORISAN	TM290WX-71N31	BN07-00063A	RE		"RS24NS (TORISAN 29"" NEW PANEL)"
TORISAN	TM396WX-71N31	BN07-00064A	RF		"RS24NS (TORISAN 40"" NEW PANEL)"
TORISAN	TM150XG-26L09	BN07-00073A	RG		"Panel for 15"" TV"
TORISAN	TM150XG-26L10	BN07-00089A	RH		"L10(change except D/IC) ZPD"
TORISAN	TM150XG-26L10	BN07-00090A	RJ		L10 NORMAL
TORISAN	TM190SX-70N01	BN07-00098A	RK		Torisan 19" Panel
TORISAN	TM181SX-76N01	BN07-00106A	RL		ZPD Panel code
TORISAN	TM190SX-70N01	BN07-00107A	RM		ZPD Panel code
TORISAN	TM290WX-71N31	BN07-00115A	RN		"Color Coordinates change panel for TORISAN 29"" TV"
TORISAN	TM396WX-71N31	BN07-00116A	RP,Q		"Color Coordinates change panel for TORISAN 40"" TV"
TORISAN	TM220WX-71N31	BN07-00125A	RR		"Development TORISAN 22"" TV PANEL (ZPD)"
TORISAN	TM220WX-71N31	BN07-00127A	RS		"Development TORISAN 22"" TV PANEL (HPD)"
TORISAN	TM396WX-71N32A	BN07-00150A	RT		120V inverter Exclusive panel
TORISAN	TM190SX-70N02	BN07-00154A	RMH		Torisan 6bit panel code Derivation
TORISAN	TM190SX-70N02	BN07-00154B	RMZ		Torisan 6bit panel code Derivation
TORISAN	TM150XG-A01	BN07-00162A	RTH		Torisan 15" Narrow & Slim panel development
TORISAN	TM150XG-A01	BN07-00162B	RTZ		Torisan 15" N&S panel ZPD code Derivation
SHARP	LQ181E1DG11(A)	BN07-10001C	PA		-
SHARP	LQ150X1LW71	BN07-00067A	PB		SHARP 15" PVA PANEL
SHARP	LQ370T3LZ41	BN07-00216A	FAZ		Rome2
HITACHI	TX38D12VC0CAA(A)	BN07-00003A	HA		-
HITACHI	TX43DVCOCAB	BN07-00060A	HB		17" SXGA PVA MODE
HITACHI	TX43D15VC0CAB	BN07-00101A	HC		ZPD Panel
HITACHI	TX51D11VC0CAB	BN07-00122A	HD		20.1" NARROW
HITACHI	TX54D11VC0CAB	BN07-00123A	HE		21.3" NARROW
HITACHI	TX80D12VC0CAB	BN07-00169A	HIZ		"Development new panel for Hitachi 32"" TV (ZPD)"
HITACHI	TX54D11VC0CAB	BN07-00123B	HIZ		Hitachi 21.3"ZPD panel
IBM	ITSX94S	BN07-00017A	IA		-
UNIPAC	UM170E0	BN07-00028A	UA		Loaded by cisdba
HYUNDAI	HT15X13	BN07-00035A	DA		-
HYUNDAI	HT17E11-200	BN07-00049A	DB		TN MODE
HYUNDAI	HT17E11-300	BN07-00093A	DC		HT17E11-300 ZPD panel
HYUNDAI	HT17E11-400	BN07-00094A	DD		HT17E11-400 normal panel
HYUNDAI	HT17E11-400	BN07-00095A	DE		HT17E11-400 ZPD panel code
HYUNDAI	HT17E12	BN07-00096A	DF		HT17E12 (Narrow & slim Design)
HYUNDAI	HT17E12	BN07-00105A	DG		ZPD Panel code
HYUNDAI	HT15X15-D00	BN07-00146A	DH		"Development for Ares 15"" Hydys TV"
HYUNDAI	HT15X15-D01	BN07-00146B	DJ		"Derivation panel HPD for Ares 15"" Hydys TV "
HYUNDAI	HT17E13-100	BN07-00167A	DTH		"PINEHURST-2(IBM) PJT 17"" HYDIS PANEL Derivation"
HYUNDAI	HT17E13-100	BN07-00167B	DTZ		"PINEHURST-2(IBM) Hydys 17"" ZPD code Derivation"
ACER	L170E3	BN07-00044A	AA		TN(ADT)
ACER	M170EN05	BN07-00076A	AB		AU 17" Panel (Narrow & slim design)

14 参考信息

制造商	供货商P/N	屏面代码	屏面ABB	标签代码	备注
ACER	M170EN05	BN07-00102A	AC		ZPD Panel code
ACER	M190EN02	BN07-00170A	AMH		"AU Monitor 19"" new panel development (P19-1S)"
ACER	M190EN02	BN07-00170B	AMZ		"AU 19"" ZPD code derivation (ZPD)"
ACER	M170EN06	BN07-00171A	ATH		"AU Monitor 17"" New panel development "
ACER	T260XW01	BN07-00163A	AMZ		"AU 26"" new panel development (NF26EO)"
ACER	A201SN01	BN07-00177A	ATZ		"AU TV panel 20.1"" TN SVGA new panel development"
ACER	M170EN06	BN07-00171B	ATZ		AU Monitor 17" ZPD code derivation
ACER	T315XW01	BN07-00194A	AMZ		AU 32" new
ACER	M170EG01	BN07-00192A	ATH		AU TN PSWG type new Panel code
ACER	M170EG01	BN07-00192B	ATZ		AU TN PSWG type NEW panel code derivation
ACER	M190EN04	BN07-00203A	ATH		AU Monitor 19" ZPD new Panel code
ACER	T260XW02	BN07-00208A	AMZ		AUO 26" ZPD panel
ACER	M170EG01 V8	BN07-00221A	ATZ		AU TN PSWG type new Panel (8msec) ZPD code derivation
ACER	T260XW02	BN07-00233A	AMZ		AUO 26" Panel new (Cosmetic spec down grade)
ACER	T315XW01	BN07-00234A	AMZ		AUO 32" Grade new (Cosmetic spec down grade)
ACER	M190EN03	BN07-00224A	AMZ		AU Monitor 19" MVA new code derivation
ACER	T315XW01	BN07-00237A	AMZ		LCD TV VE project new
ACER	T315XW01	BN07-00238A	AMZ		LCD TV VE project new
ACER	M201UN02 V3	BN07-00168A	AMZ		
CHIMEI	M170E3-L01	BN07-00050A	CA		TN PANEL
CHIMEI	M150X3-L01	BN07-00051A	CB		COMPATIBLE
CHIMEI	M170E4-L01	BN07-00052A	CC		MVA PANEL
CHIMEI	M150X2-L01	BN07-00066A	CD		CHIMEI 15" PVA PANEL
CHIMEI	M150X3-L01	BN07-00079A	CE		Chimei ZPD panel
CHIMEI	M170E3-L01	BN07-00103A	CF		ZPD Panel code
CHIMEI	M170E4-L01	BN07-00104A	CG		ZPD Panel code
CHIMEI	V296W1-L01	BN07-00120A	CH		MVA
CHIMEI	M170E6-L02	BN07-00126A	CJ		HIGHLAND 17" LOW PANEL
CHIMEI	M190E2-L01	BN07-00131A	CK		GH19AS,BS CHIMEI PANEL
CHIMEI	M150X4-L06	BN07-00137A	CL		15" Narrow & Slim panel
CHIMEI	M170E6-L01	BN07-00133A	CM		"2003-03-11 vendor change"
CHIMEI	M170E6-L01	BN07-00133B	CN		ZPD derivation panel
CHIMEI	V201V1-T01	BN07-00135A	CP		CHIMEI 20.1" panel development
CHIMEI	M170E6-L02	BN07-00126B	CQ		"HIGHLAND 17"" LOW PANEL ZPD derivation panel"
CHIMEI	M170E6-L05	BN07-00152A	CR		"CMO 17"" new panel development code"
CHIMEI	M170E6-L05	BN07-00152B	CS		"CMO 17"" ZPD panel code derivation"
CHIMEI	M150X4-L06	BN07-00137B	CT		Chimei 15" Narrow & Slim panel ZPD derivation
CHIMEI	M170E5-L05	BN07-00165A	CTH		CMO 17" new panel development code (GOYA2-PJT)
CHIMEI	M170E5-L05	BN07-00165B	CTZ		CMO 17" ZPD panel(GOYA2-PJT)
CHIMEI	V230W1-L02	BN07-00209A	CMZ		CMO 23" development
CHIMEI	V320B1-L01	BN07-00207A	CMZ		CMO 32" development
CHIMEI	V270W1-L01	BN07-00136A	CMZ		CHI MEI 27" panel development
NEC	SVA150XG04TB	BN07-00225A	BTZ		SVA NEC 15" panel ZPD code

2 产品规格

2-1 时尚特点

-DVI、PC（模拟）、2 个分量、2 个视频、S-Video

-亮度：500cd/m²

-对比度：

27”：1000：1，32”：800：1

-响应时间：16ms

-动态对比度

-画中画（仅限于在 PC 上）

2-2 规格

2-2-1 LA27T51B 规格

项目	说明	
液晶显示屏	薄膜晶体管液晶显示屏、RGB 竖条纹、正常白色、27 英寸可视，0.1460（水平）×0.4365（竖直） mm 像素点距	
扫描频率	水平：30 kHz~61 kHz（自动） 竖直：60 Hz~75 Hz（自动）	
显示颜色	16.7 百万种颜色	
最大分辨率	水平：1360 像素 竖直：768 像素	
视频输入信号	75Ω 时，模拟 0.7Vp-p±5%，正，内部端接	
输入同步信号	类型：单独分开的H/V 电平：TTL 电平	
最大像素时钟率	80 MHz	
有效显示 水平/竖直	596.259 mm/335.232 mm	
交流电源电压和频率	AC 100~240 伏，50Hz	
功耗	<140W（<2W，待机）	
尺寸（宽×深×高） 本机	30.18 x 3.78 x 18.07英寸（766.5 x 96.0 x 459.0 mm）机身 30.18 x 6.02 x 19.90英寸（766.5 x 203.8 x 505.5 mm）带底座	
重量 本机（带底座）	24.46 lbs（12.0kg）	
环境因素	工作温度：50°F~104°F（10°C~40°C） 工作湿度：10%~80% 存放温度：-4°F~113°F（-20°C~45°C） 存放湿度：5%~95%	
电视制式	调谐	频率合成
	制式	PAL/SECAM/NT4.43, 3.58
	声音	BG/DK/I/M
天线输入	75 欧姆	
声音特点	-最大内部扬声器输出：右=>5W，左=>5W	
	-低音控制范围：-8 dB~+8dB -高音控制范围：-8 dB~+8dB -耳机输出：10mW 最大 -输出频率：RF: 80Hz ~ 15 kHz A/V: 80Hz ~ 20 kHz	

2-2-2 LA32T51B 规格

项目	说明	
液晶显示屏	薄膜晶体管液晶显示屏、RGB 竖条纹、正常白色、32 英寸可视，0.511（水平）×0.511（竖直） mm 像素点距	
扫描频率	水平：30 kHz~61 kHz（自动） 竖直：60 Hz~75 Hz（自动）	
显示颜色	16.7 百万种颜色	
最大分辨率	水平：1360 像素 竖直：768 像素	
视频输入信号	75Ω 时，模拟 0.7Vp-p±5%，正，内部端接	
输入同步信号	类型：单独分开的H/V 电平：TTL 电平	
最大像素时钟率	80 MHz	
有效显示 水平/竖直	697.69 mm/392.26 mm	
交流电源电压和频率	AC 100~240 伏，50Hz	
功耗	<170W（<2W，待机）	
尺寸（宽×深×高） 本机	36.00 x 4.09 x 20.82英寸（914.5 x 104.0 x 528.8 mm）带底座 36.00 x 9.74 x 23.29英寸（914.5 x 247.5 x 591.5 mm）机身	
重量 本机（带底座）	33.07 lbs（15.0kg）	
环境因素	工作温度：50°F~104°F（10°C~40°C） 工作湿度：10%~80% 存放温度：-4°F~113°F（-20°C~45°C） 存放湿度：5%~95%	
电视制式	调谐	频率合成
	制式	PAL/SECAM/NT4.43, 3.58
	声音	BG/DK/I/M
天线输入	75 欧姆	
声音特点	-最大内部扬声器输出：右=>7.5W，左=>7.5W	
	-低音控制范围：-8 dB~+8dB -高音控制范围：-8 dB~+8dB -耳机输出：10mW 最大 -输出频率：RF: 80Hz ~ 15 kHz A/V: 80Hz ~ 20 kHz	

2-2-4 规格比较

型号	LA27T51B/LA32T51B	LN23R51B/LN26R51B/LN32R51
设计		
频率		
水平	30~61 kHz	30~61 kHz
竖直	60~75 Hz	60~75 Hz
显示颜色	16,777,216 种颜色	16,777,216 种颜色
PC 分辨率		
最大模式	1366×768 / 60Hz	1360×768 / 60Hz
输入信号		
同步信号	单独分开的 H/V、TTL、P 或 N	单独分开的 H/V、TTL、P 或 N
视频信号	0.7 Vp-p, 75 欧姆	0.7 Vp-p, 75 欧姆
功耗		
普通	140W/170W	100W/140W/170W
省电	<2W	<1W
输入源差别	DVI-D	HDMI
画中画	画中画（仅限于 PC）	画中画，POP
声音	5W/7.5W	3W/5W/10W

2-3 选装件规格

项目	项目名称	代号	备注
	遥控器和 电池（AAA×2）	BN59-00488A	中国： BN59-00487C
	电源线	3903-000067	中国： 3903-000082
	底盖	BN63-02177A	
	底座	27" : BN96-02639A 32" : BN96-02633A	
	底座螺钉（4 个）	6002-001294	
	使用说明书	BN68-00860J	中国： BN68-00860H

备忘录

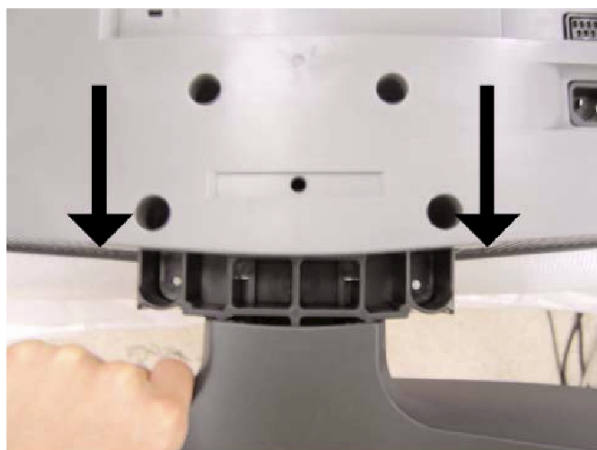
11 拆卸和重新组装

维修手册的这一章叙述 LA27T51B/LA32T51B 液晶电视的拆卸和重新组装步骤。

⚠ 警告：本显示器包含静电敏感器件。处理这些部件时应小心。

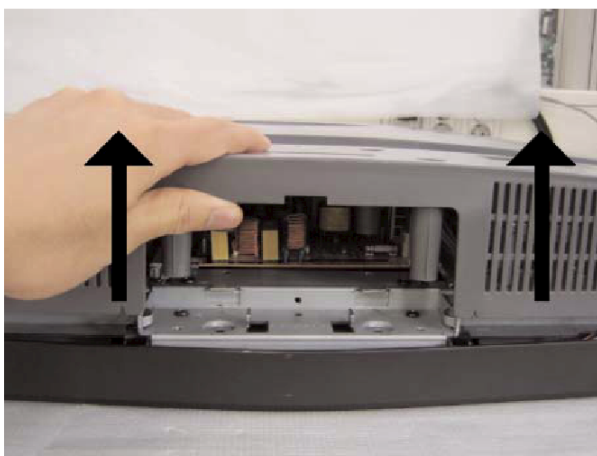
11-1 拆卸

⚠ 小心：1.拆卸前，断开液晶电视电源。



1. 将液晶电视面朝下放到铺有垫子的桌子上。

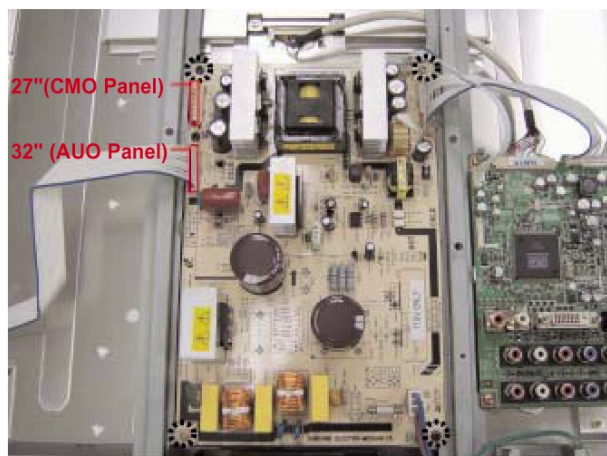
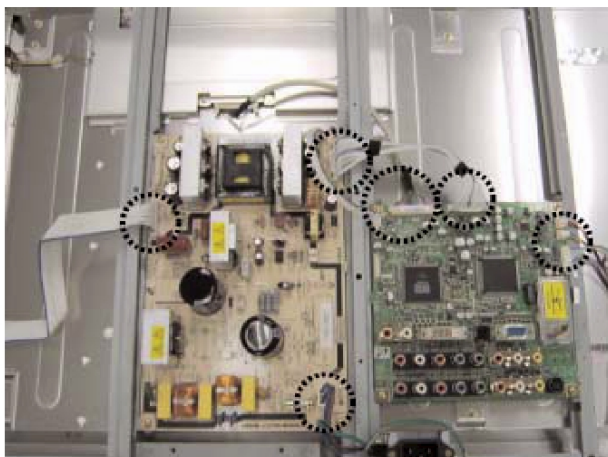
从后盖拆除 14 个螺钉并拆除底座。



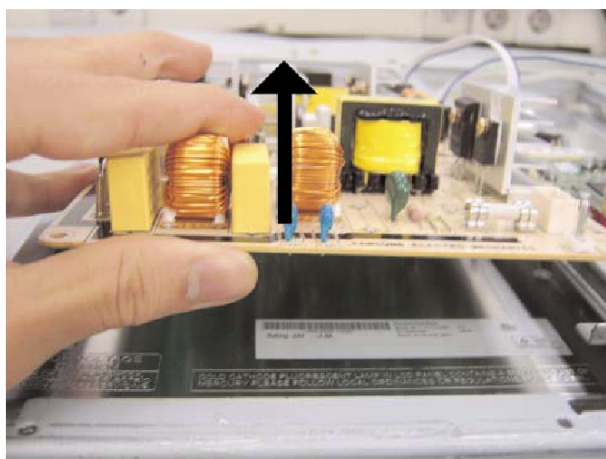
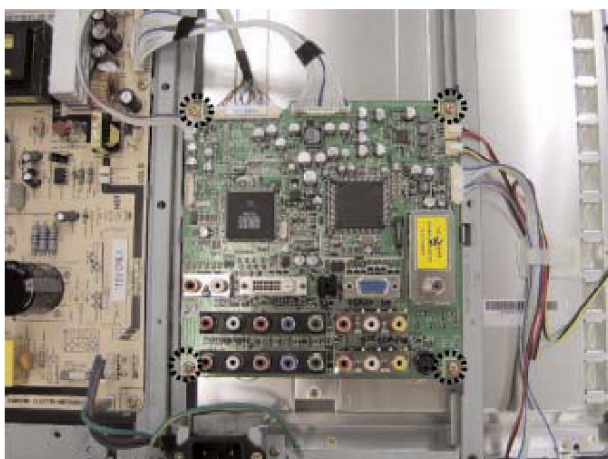
2. 从插口盖拆除 2 个螺钉。

提起后盖。

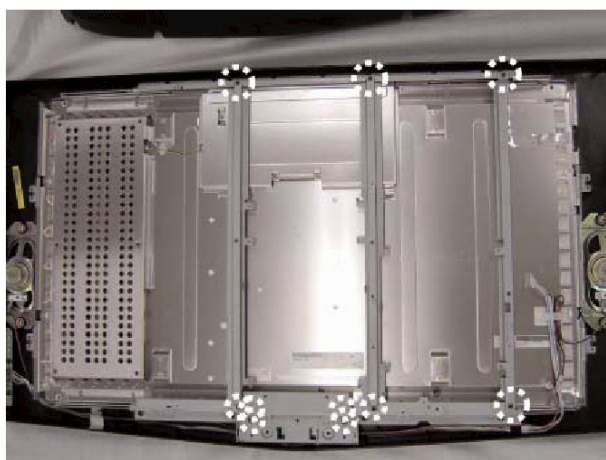
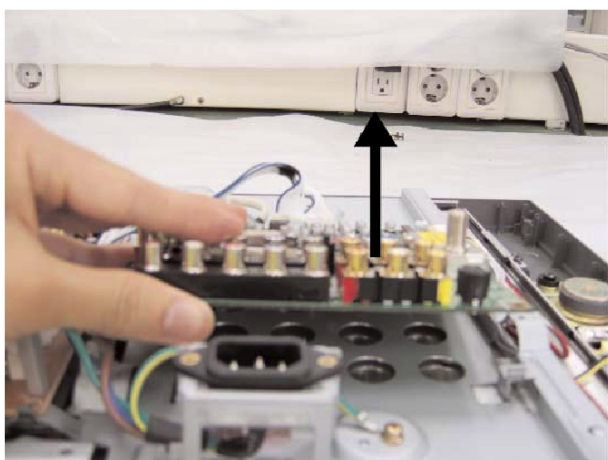
11 拆卸和重新组装



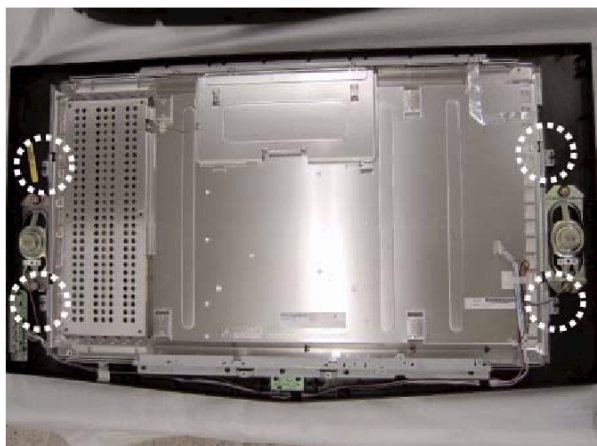
3. 拆开电缆并从电源板拆除 4 个螺钉。



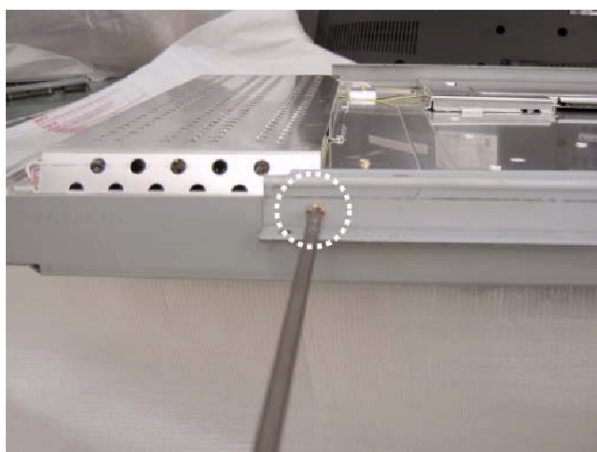
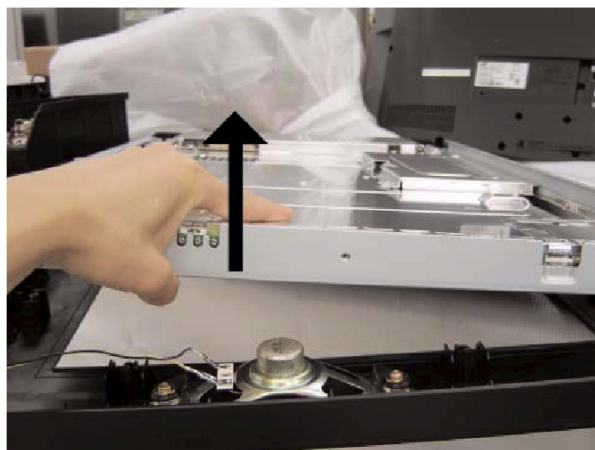
4. 从主板拆除 4 个螺钉。
提起电源板。



5. 提起主板，并从支架拆除 10 个螺钉。



6. 拆除 4 个螺钉并提起液晶显示屏。



7. 拆除 4 个螺钉。

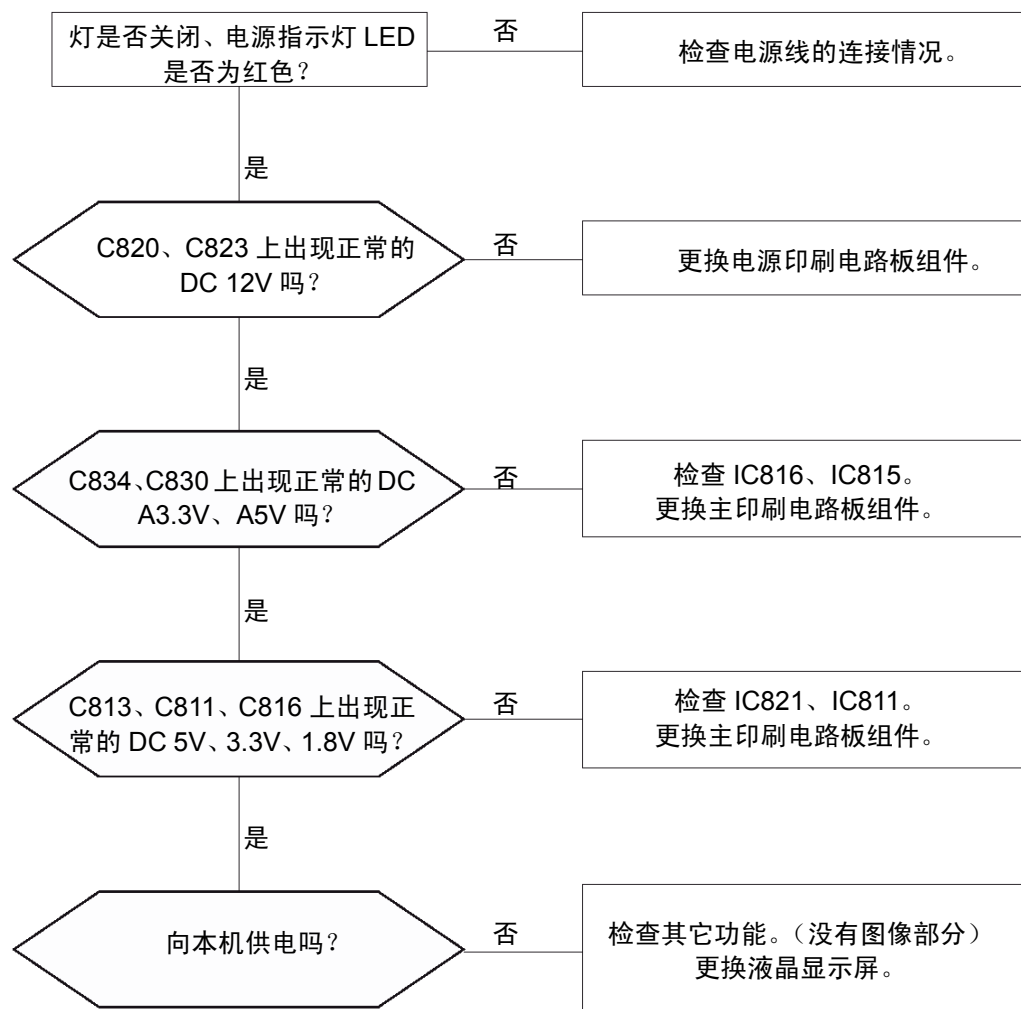
11-2 重新组装

重新组装步骤与拆卸步骤相反。

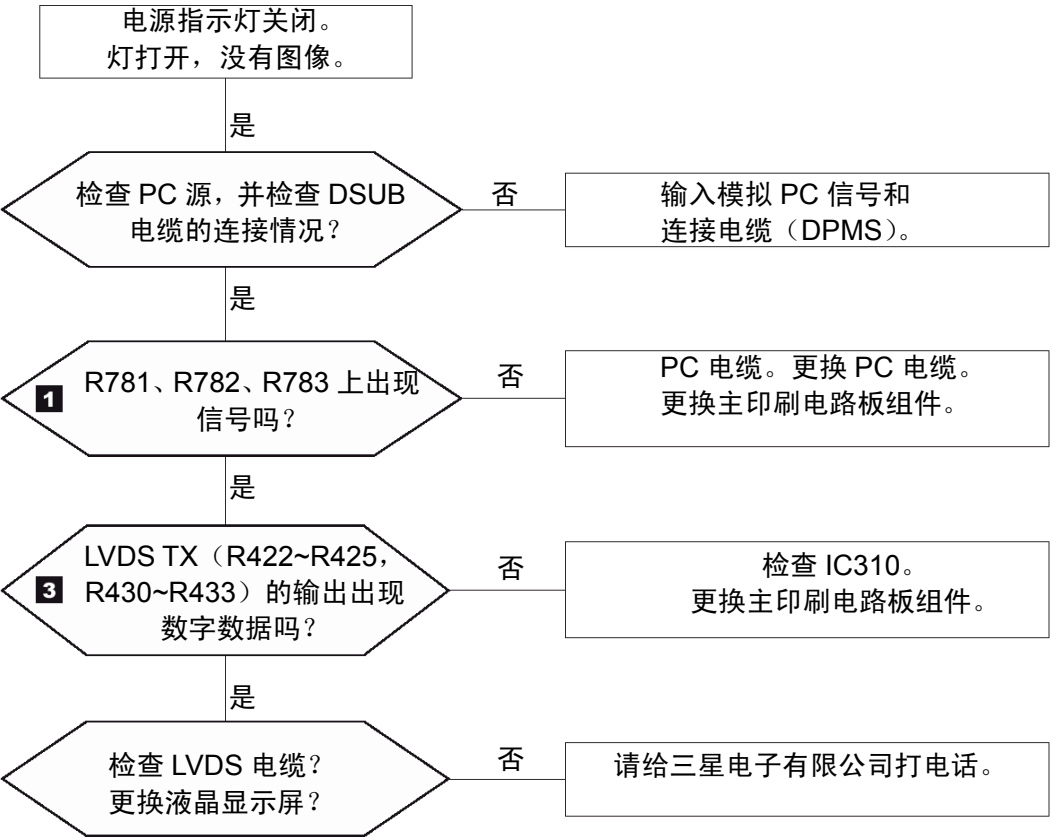
备忘录

4 故障排除

4-1 未通电

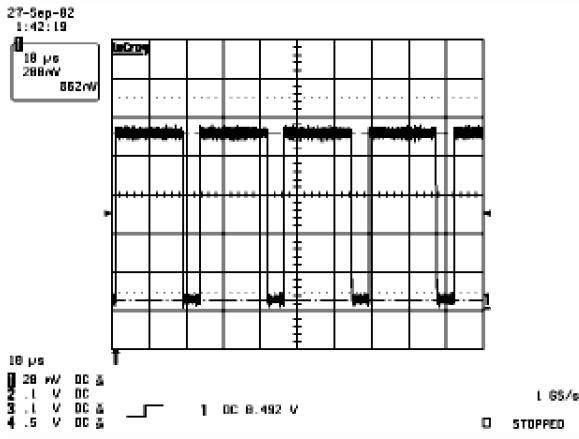


4-2-2 无图像（模拟 PC 信号）

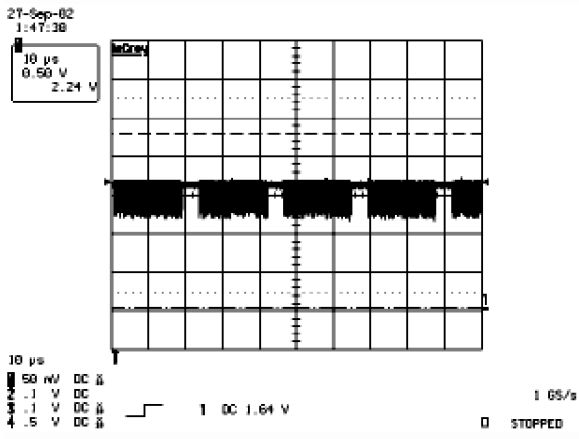


波形

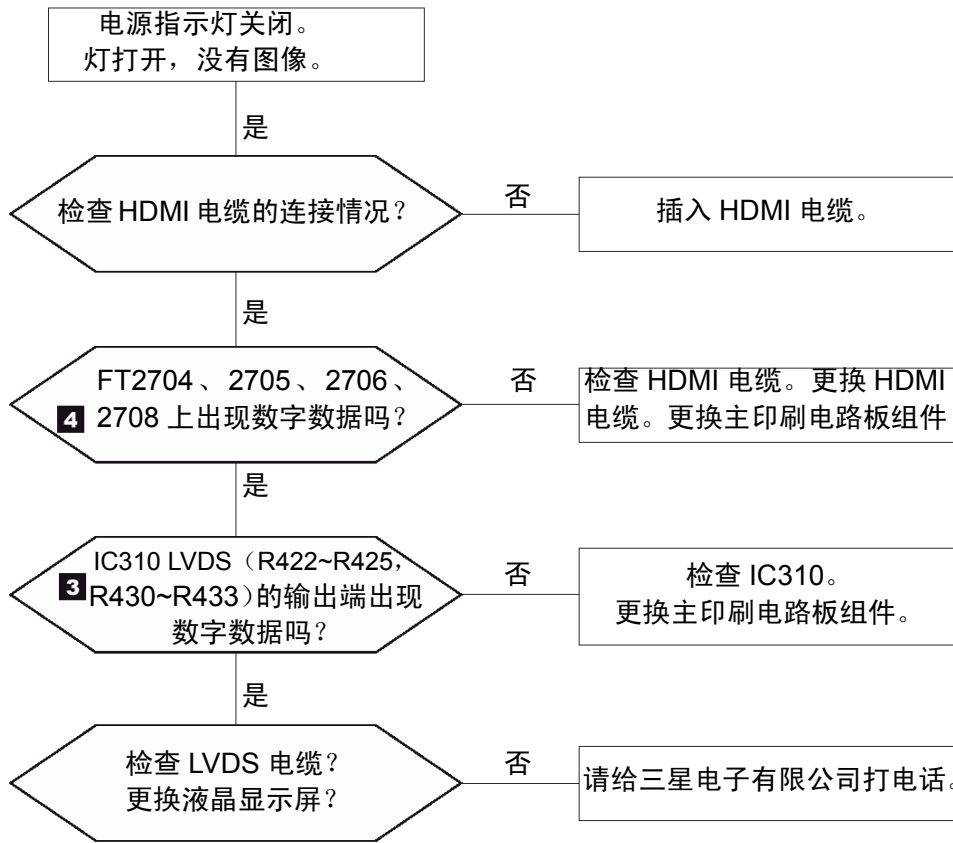
1 R,G,B Output Signal



3 Digital Output Data of IC310

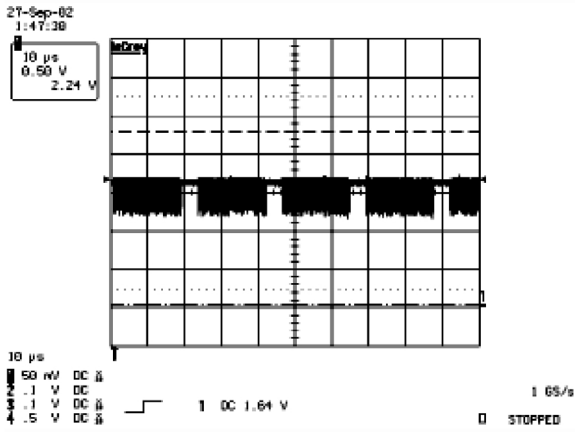


4-3 没有图像（DVI-数字信号）

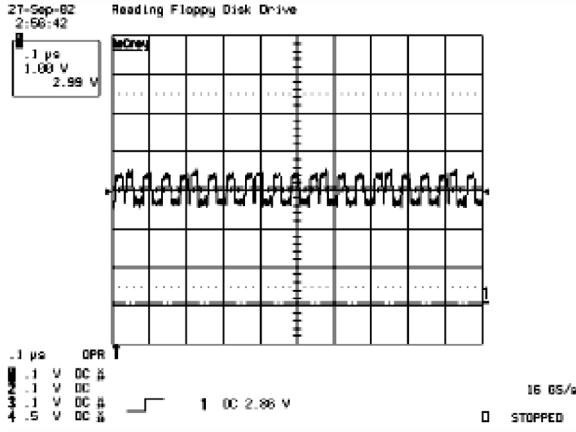


波形

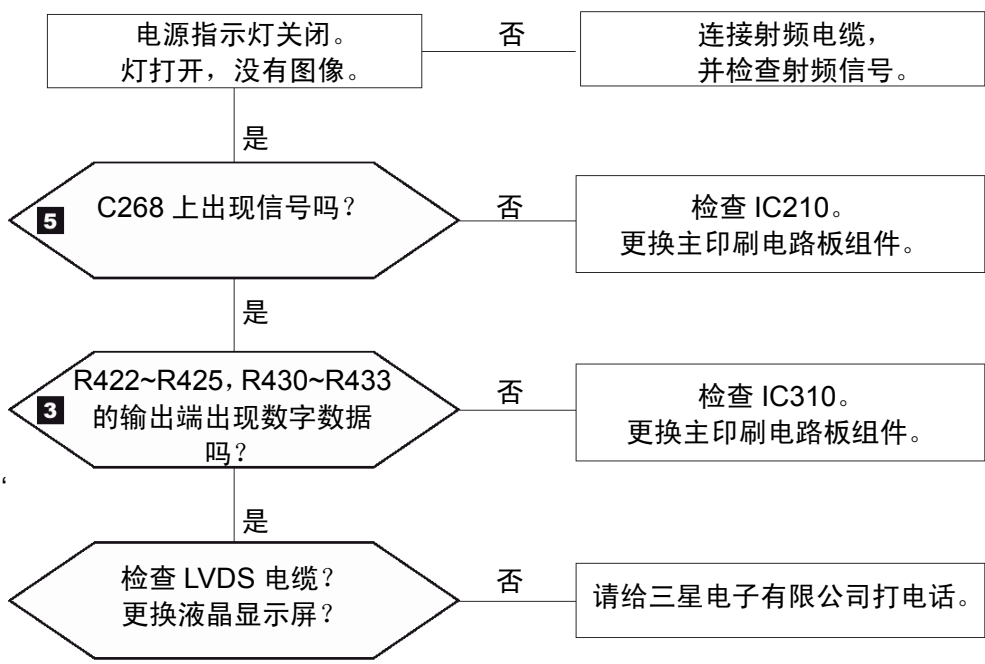
3 Digital Output Data of IC310



4 Signal of DVI(Data)

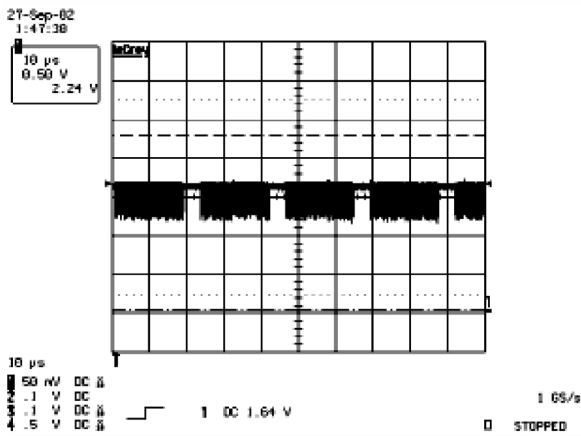


4-4 没有画面（Tuner_CVBS）

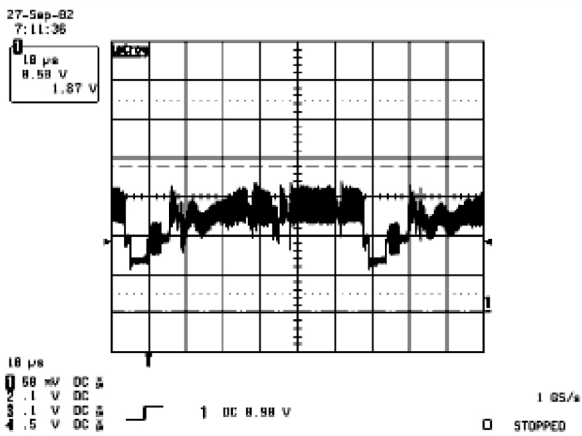


波形

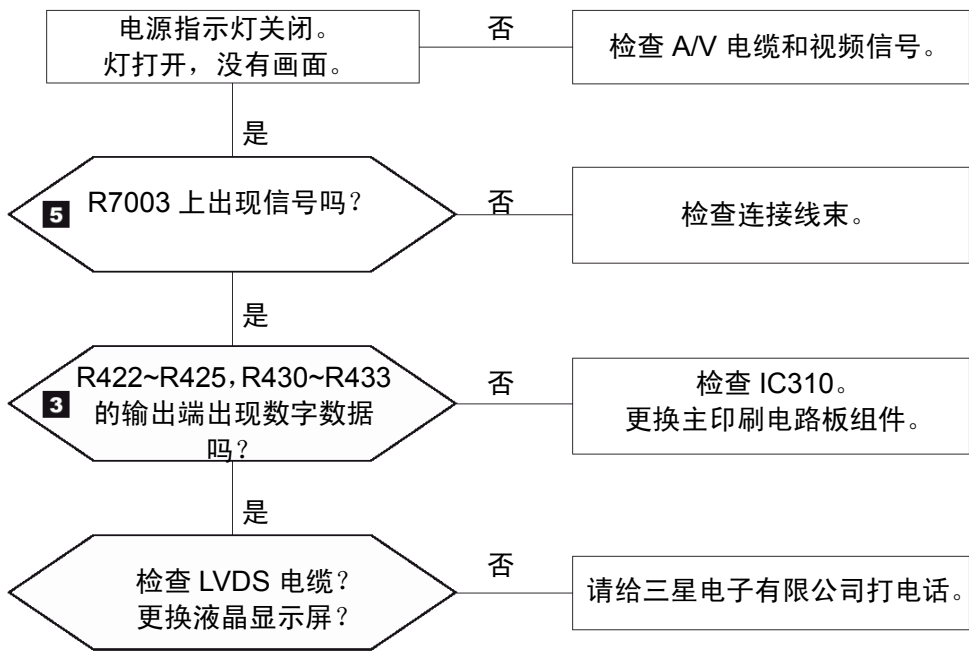
3 Digital Output Data of IC310



5 Tuner_CVBS Output Signal

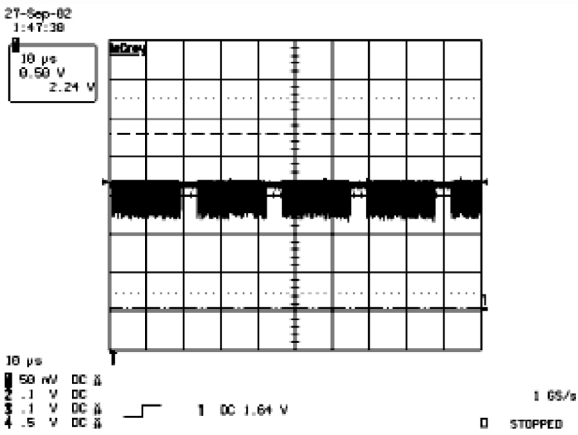


4-5 没有画面（Video_CVBS）

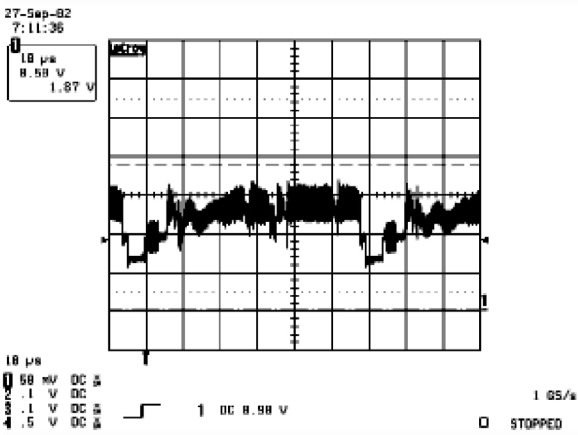


波形

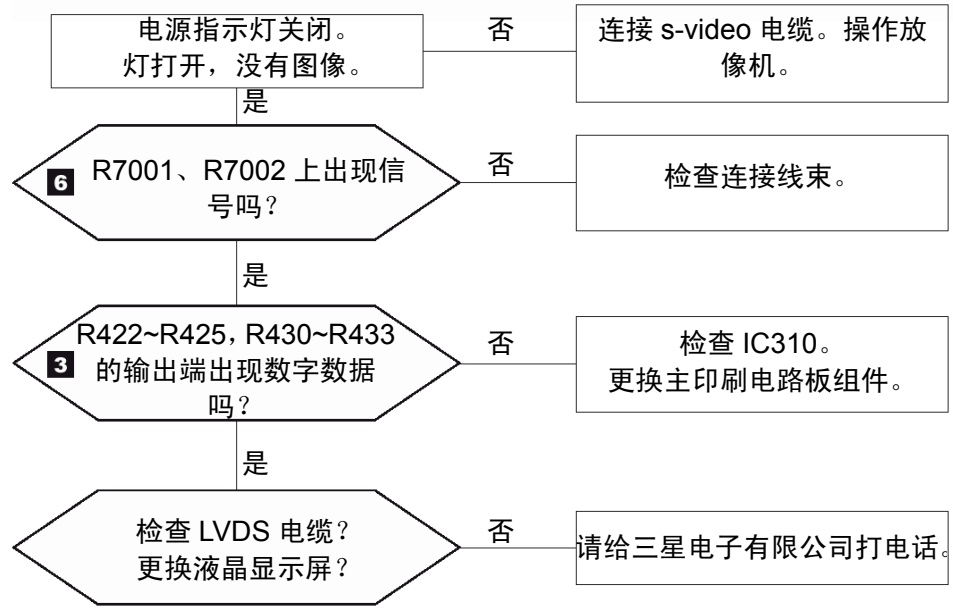
3 Digital Output Data of IC310



5 Tuner_CVBS Output Signal

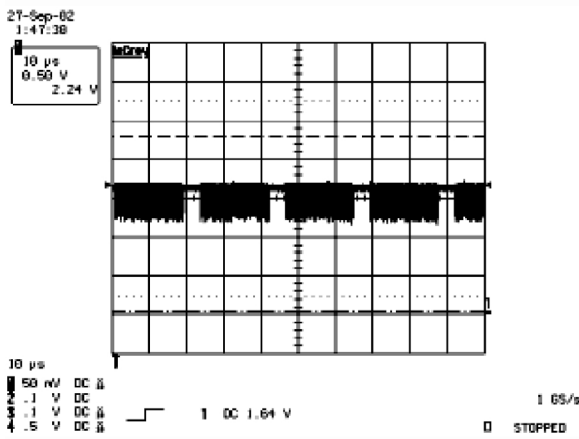


4-6 没有画面（S-VIDEO_Y, C）

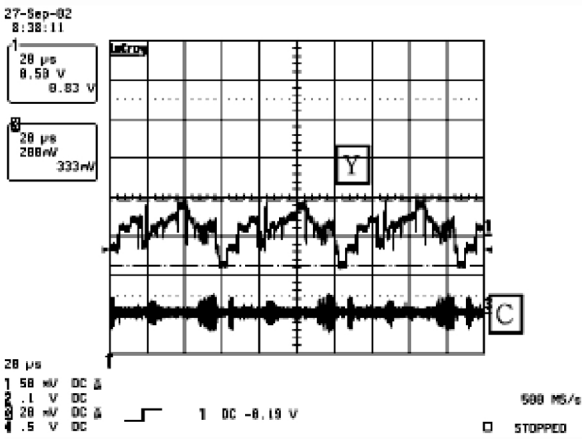


波形

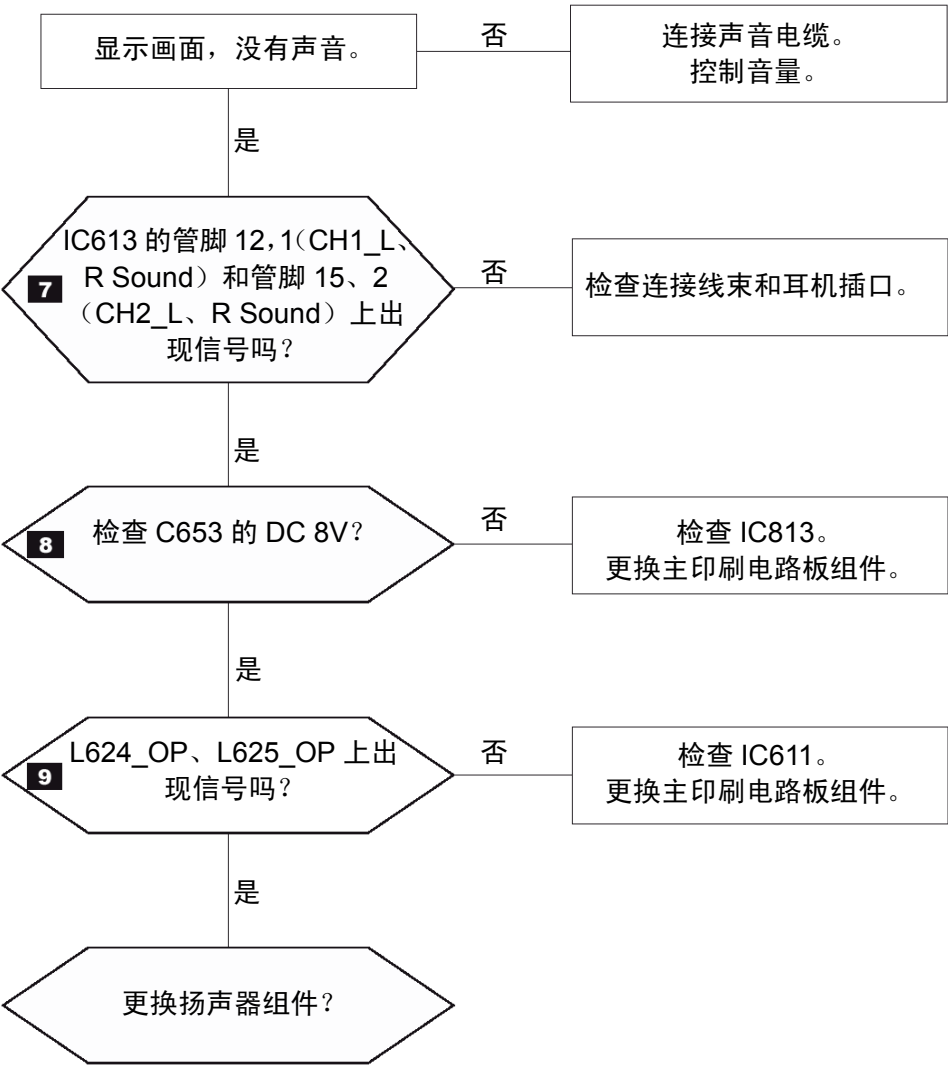
3 Digital Output Data of IC310



6 Analog Signal(Y,C)



4-7 没有声音



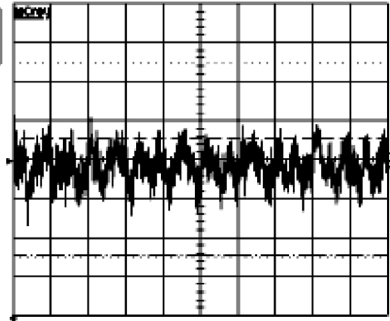
波形

7 The Signal are Inputed to IC610

26-Sep-82

22:26:26

10 ns
0.50 V
1.49 V



10 ns

50 mV AC #
1 V DC #
1 V DC #
1.5 V DC #

1 DC 0.65 V

1 MS/s

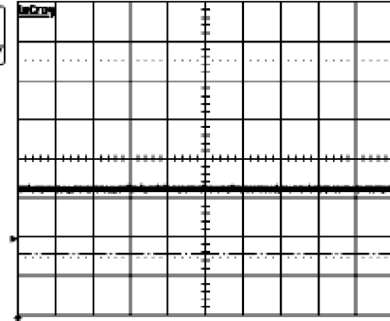
STOPPED

8 DC +8V

26-Sep-82

22:43:16

2 μ s
5.0 V
0.2 V



2 μ s

5 V DC #
1 V DC #
1 V DC #
1.5 V DC #

1 DC 1.9 V

4 65/s

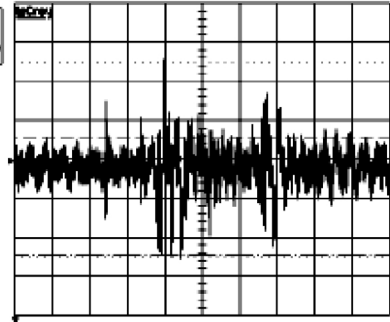
SINGLE

9 Output WaveForm

26-Sep-82

22:26:18

20 ns
0.50 V
1.49 V



20 ns

50 mV AC #
1 V DC #
1 V DC #
1.5 V DC #

1 DC 0.65 V

500 kS/s

STOPPED

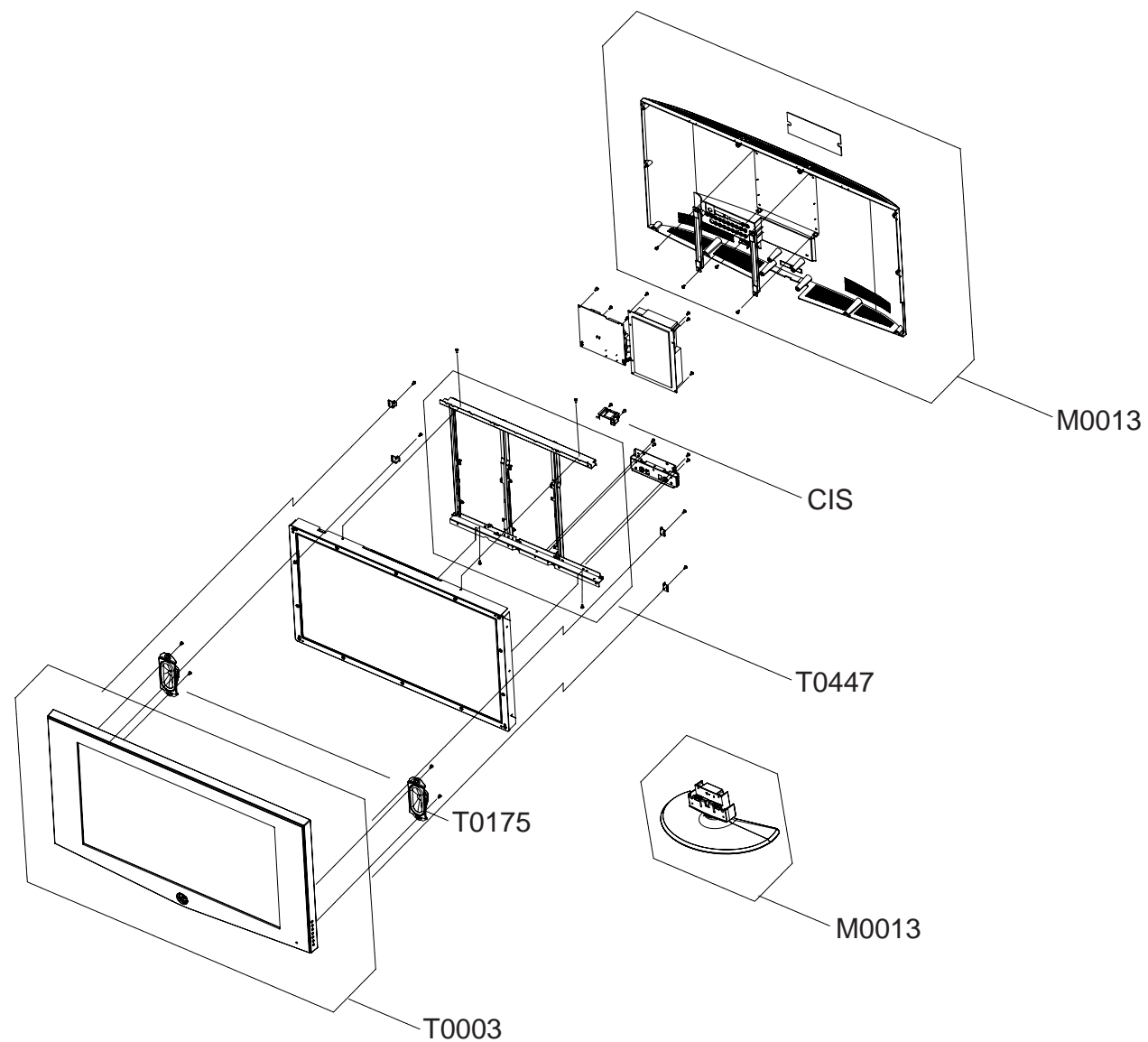
备忘录

5 Exploded View and Parts List

- You can search for updated part codes through ITSELF web site.

URL : <http://itself.sec.samsung.co.kr/>

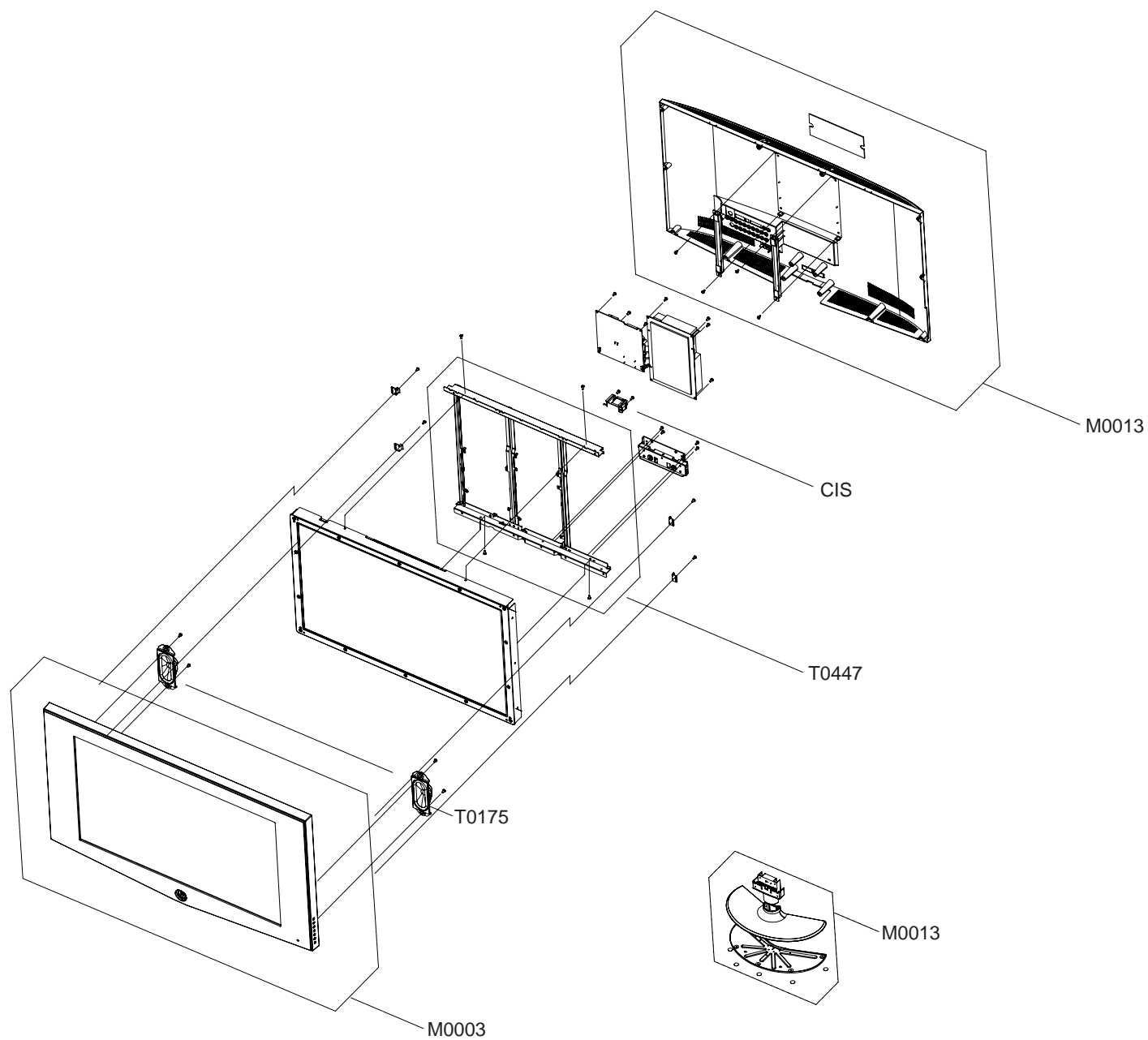
5-1 LA27T51B Exploded View



5-2 LA27T51B Parts List

Location.No	CODE-NO	SPECIFICATION & DESCRIPTION	Q'TY	SA/SNA	REMARK
T0003	BN96-02642B	ASSY COVER P-FRONT;27T50,UO,HIPS,V0,GR50	1	SNA	
T0175	BN96-02589A	ASSY SPEAKER P;16ohm,Torino 26",Right,5W	1	SNA	
T0447	BN96-02640A	ASSY BRACKET P-PANEL;TORINO 27,SECC	1	SNA	
CIS	BN39-00693A	CBF HARNESS-IN-LET;TORINO,1617#22,3P,1P,	1	SA	
M0013	BN96-02639A	ASSY STAND P-BASE;TORINO,23,27,HIPS,HB,G	1	SNA	
M0013	BN96-02639A	ASSY STAND P-BASE;TORINO,23,27,HIPS,HB,G	1	SNA	

5-3 LA32T51B Exploded View



5-4 LA32T51B Parts List

Location.No	CODE-NO	SPECIFICATION & DESCRIPTION	Q'TY	SA/SNA	REMARK
T0003	BN96-02625A	ASSY COVER P-FRONT;32T50,UO,HIPS,V0,GR50	1	SNA	
T0175	BN96-02591A	ASSY SPEAKER P;8ohm,Torino 32",Right,10W	1	SNA	
T0447	BN96-02628A	ASSY BRACKET P-PANEL;TORINO 32",SECC	1	SNA	
CIS	BN39-00693A	CBF HARNESS-IN-LET;TORINO,1617#22,3P,1P,	1	SA	
M0013	BN96-02627A	ASSY COVER P-REAR;TORINO,32UO,HIPS,V0,GR	1	SNA	
M0013	BN96-02633A	ASSY STAND P-BASE;TORINO,32,HIPS,HB,GR50	1	SNA	

6 Electrical Parts List

-You can search for updated part codes through ITSELF web site.

URL : <http://itself.sec.samsung.co.kr/>

6-1 LA32T51BX/XTT Parts list

Level	Loc. No.	Code No.	Description & Specification	EA	SA/SNA
0		LA32T51BX/XTT	LA32T51B,Q54C/32T50-GTR,32,LCD-TV,CHINA		
0.1	M0001	BN90-00785C	ASSY COVER FRONT;TORINO,32CO,32T50	1	S.NA
..2	M0081	6006-001096	SCREW-TAPTITE;BH,+,WP,B,M4.0,L12,ZPC(BLK)	4	S.NA
..2	T0175	BN96-02590A	ASSY SPEAKER P;8ohm,Torino 32",Left,10W	1	S.A
..2	T0175	BN96-02591A	ASSY SPEAKER P;8ohm,Torino 32",Right,10W	1	S.A
..2	T0003	BN96-02625C	ASSY COVER P-FRONT;32T50,CO,HIPS,HB,BK50	1	S.A
...3	M0081	6003-001003	SCREW-TAPTITE;BH,+,B,M4,L12,ZPC(BLK),SWR	2	S.NA
...3	M0081	6003-001003	SCREW-TAPTITE;BH,+,B,M4,L12,ZPC(BLK),SWR	2	S.NA
...3	M0162	6502-001067	CABLE CLAMP;DAFC-1300,ID2.2,T5.2,NYLIN6/	1	S.NA
...3	T0069	AA60-00171W	SPACER-FELT;GTR32K*,FELT,460,T0.35,10	2	S.NA
...3	T0060	BN61-01655A	SPRING ETC;STS-304 SUS,D8,L12,T0.5	1	S.A
...3	M0112	BN63-02174C	COVER-FRONT;32T50,CO,HIPS,HB,BK500,BKN-1	1	S.NA
...3	T0023	BN64-00342A	KNOB POWER;ROME,40,PC+ABS,VIOLET	1	S.NA
...3	T0071	BN64-00366A	INDICATOR-LED;ROME-I,PC,CLEAR,ALL MODEL	1	S.NA
...3		BN64-00413A	KNOB-DECORATION;MGM,ABS,V0,GR70,SV012P	1	S.NA
...3	T0022	BN64-00416A	KNOB CONTROL;MGM,ABS,V0,BK500	1	S.NA
...3	T0014	BN67-00078A	LENS-IR;VENUS32",ACRYL,CLEAR,VENUS32"	1	S.NA
...3	M0145	BN96-02626D	ASSY BOARD P-FUNCTION;TORINO-27/32,SJ05-	1	S.A
0.1	M0002	BN90-00786C	ASSY COVER REAR;TORINO,32CO,32T50	1	S.NA
..2	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	10	S.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	2	S.NA
..2	M0013	BN96-02627C	ASSY COVER P-REAR;32T50,CO,HIPS,HB,GR503	1	S.A
...3	M0081	6003-001003	SCREW-TAPTITE;BH,+,B,M4,L12,ZPC(BLK),SWR	4	S.NA
...3	T0069	AA60-00091K	SPACER-FELT;FELT,330X10,-,BLK,T0.35,	4	S.NA
...3	T0064	AA65-00003A	CLAMPER CORE;SIR-T100,PE BLACK	1	S.NA
...3	T0101	BN61-02032A	BRACKET-WALL;32,MGM,SECC,T1.6	2	S.NA
...3	M0006	BN63-02175C	COVER-REAR;32T50,SO,HIPS,HB,GR503,NT	1	S.NA
...3		BN64-00414B	INLAY-JACK;TORINO,23,27,32,PS,SHEET,T0.3	1	S.NA
0.1	M0216	BN90-00787A	ASSY STAND;TORINO,32,32T50	1	S.NA
..2	M0013	BN96-02633A	ASSY STAND P-BASE;TORINO,32,HIPS,HB,GR50	1	S.A
...3	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	3	S.A
...3	M0081	6003-001239	SCREW-TAPTITE;FH,+,B,M4,L10,ZPC(YEL),SWR	3	S.A
...3		BN61-01524A	BRACKET-STAND BOTTOM;32,ROME,SECC,T2.0	1	S.NA
...3	M0111	BN63-01673C	COVER-STAND;TORINO,32,HIPS,HB,GR503,DM-B	1	S.NA
...3	T0132	BN73-00052A	RUBBER FOOT;ARES 17,SILICON,DIA 17 * T1.	5	S.NA
...3		BN61-02024A	GUIDE-STAND;TORINO,32,HIPS,HB,GR503	1	S.NA
..2	T0524	6902-000520	BAG PE;HDPE/NITRON(DOUBLE),T0.015/T0.5(D	1	S.NA
0.1	T0852	BN91-00407K	ASSY LCD-SPZ;DU32EO	1	S.NA
..2	M0215	BN07-00243A	LCD-PANEL;LTA320W2-L03,8bit,760*450*50.0	1	S.A
0.1	M0017	BN91-00946G	ASSY CHASSIS;LA32T51BX/XTT,TORINO,Q54C	1	S.A
..2	M0014	BN94-00752G	ASSY PCB MAIN-AM LCD;LA32T51BX/XTT,Q54C	1	S.A
...3	T0245	0202-001366	SOLDER-WIRE FLUX;-RS60S,D1.2,63Sn/37Pb,	0.01	S.NA
...3	FT230	2904-001179	FILTER-SAW;36.125MHz,-,32.65-39.6MHz/0.5	1	S.A
...3	JA719	3701-001292	CONNECTOR-DVI;24P,3R,FEMALE,STRAIGHT,AU1	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	EA	SA/SNA
...3	JA722	3701-001294	CONNECTOR-DSUB;15P,3R,FEMALE,STRAIGHT,AU	1	S.A
...3	CN815	3711-004484	HEADER-BOARD TO CABLE;BOX,5P,1R,2mm,STRA	1	S.A
...3	CN801	3711-005942	HEADER-BOARD TO CABLE;BOX,16P,1R,2mm,STR	1	S.A
...3	JA723	3722-001061	JACK-PHONE;1P,3.6PI,AG,BLK,N	1	S.A
...3	JA717	3722-001734	JACK-VHS;4P,SN,BLK,STRAIGHT	1	S.A
...3	JA721	3722-001903	JACK-PIN;2P,-,AU,WHT/RED,-	1	S.A
...3	JA716_NT	3722-002063	JACK-PIN;3P,AU,YEL/WHT/RED,STRAIGHT	1	S.A
...3	JA718	3722-002063	JACK-PIN;3P,AU,YEL/WHT/RED,STRAIGHT	1	S.A
...3	JA712_NT	3722-002143	JACK-PIN;5P,NI,GRN/BLU/RED/WHT/RED,STRAI	1	S.A
...3	JA713_NT	3722-002143	JACK-PIN;5P,NI,GRN/BLU/RED/WHT/RED,STRAI	1	S.A
...3	T0562	6046-001013	STAND OFF;M3,L5,NI PLT,SUM24L,#4-40	4	S.N.A
...3	M0131	AA63-01304A	GASKET;TORINO,Conductive Fabric,1mm,14mm	1	S.N.A
...3	CIS3	BN40-00072A	TUNER;TECH0949PG46A(S),TECH0949PG46A(S),	1	S.A
...3	M0107	BN63-02176A	SHIELD-COVER;MGM,SPT,0.5	1	S.N.A
...3	T0120	BN97-00658G	ASSY SMD-AM LCD;LA32T51BX/XTT,Q54C	1	S.N.A
....4	CIS5	0202-001375	SOLDER-CREAM;RMA-20-21L,S63,-,Sn63/Pb36.	8.48	S.N.A
....4	D120	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D210	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D211	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D212	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D213	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D214	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D215	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D216	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D217	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D218	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D219	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D220	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D221	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D222	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D310_NT	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D311_NT	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D312_NT	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D316	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D317	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D318	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D612	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D613	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D614	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D615	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D616	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D617	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D618	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D619	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D621	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D711	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D715	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D716_NT	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D717_NT	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D7719	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D7720	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D7721	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D7722	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D7723	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D7724	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A

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Level	Loc. No.	Code No.	Description & Specification	EA	SA/SNA
....4	D7725	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D7726	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D7727	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D7730	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D7731	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D7733	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D7734	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D7740	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D7741	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D7742	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D7743	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D910	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D911	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D912	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D913	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D800	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	S.A
....4	D917	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	S.A
....4	D620	0403-000314	DIODE-ZENER;RLZJ9.1B,8.8-9.3V,500MW,LL-3	1	S.A
....4	D7728	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
....4	D7729	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
....4	D7735	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
....4	D7736	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
....4	D7737	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
....4	D7738	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
....4	D121	0403-001425	DIODE-ZENER;BZX84C33,31-35V,350MW,SOT-23	1	S.A
....4	D314	0407-000123	DIODE-ARRAY;DAN202K,80V,100MA,CA2-3,SOT-	1	S.A
....4	D319	0407-000123	DIODE-ARRAY;DAN202K,80V,100MA,CA2-3,SOT-	1	S.A
....4	D610	0407-000123	DIODE-ARRAY;DAN202K,80V,100MA,CA2-3,SOT-	1	S.A
....4	Q211	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23	1	S.A
....4	Q213	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23	1	S.A
....4	Q611	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23	1	S.A
....4	Q934	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23	1	S.A
....4	Q101	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q110_EU	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q111	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q212	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q214	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q310	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q312_NT	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q420	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q421	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q612	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q613	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q614	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q711	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q803	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q908	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q910	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q932	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q210	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A
....4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	S.A
....4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	S.A
....4	IC104	0801-002267	IC-CMOS LOGIC;74LCX14,-,SOIC,14P,150MIL,	1	S.A

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Level	Loc. No.	Code No.	Description & Specification	EA	SA/SNA
....4	IC105	0909-001036	IC-REAL TIME CLOCK;DS1337S+T&R,-,SO,8P,1	1	S.A
....4	IC613	1001-000164	IC-ANALOG MULTIPLEX;74HC4052,CMOS,SOP,16	1	S.A
....4	IC106	1001-001082	IC-VIDEO SWITCH;BA7657F,-,SOP,24P,300MIL	1	S.A
....4	IC310	1003-001857	IC-CRT CONTROLLER;FLI5921H-LF,PQFP,208P,	1	S.A
....4	IC112	1103-000129	IC-EEPROM;24C02,256x8,SOP,8P,5x4mm,4.5/5	1	S.A
....4	IC112	1103-000129	IC-EEPROM;24C02,256x8,SOP,8P,5x4mm,4.5/5	1	S.A
....4	IC112	1103-001279	IC-EEPROM;24C32,4Kx8,SOP,8P,5x4mm,2.5/5.	1	S.A
....4	IC112	1103-001314	IC-EEPROM;24C16,2Kx8,SOP,8P,5x4mm,2.7/5.	1	S.A
....4	IC113	1105-001284	IC-DRAM;636165,1Mx16Bit,TSOP,50P,467MIL,	1	S.N.A
....4	IC113	1105-001284	IC-DRAM;636165,1Mx16Bit,TSOP,50P,467MIL,	1	S.N.A
....4	DU410	1201-000166	IC-OP AMP;LM358,SOP,ST,8P,150MIL,DUAL,10	1	S.A
....4	T0085	1201-002136	IC-AUDIO AMP;LM4810,MSOP,8P,3x3mm,DUAL,-	1	S.A
....4	T0085	1201-002274	IC-AUDIO AMP;TPA3008D2,HTQFP,48P,7x7mm,D	1	S.A
....4	T0087	1203-001816	IC-POSI.FIXED REG.;78M08,TO-252,3P,-,PLA	1	S.A
....4	IC416	1203-001824	IC-VOL. DETECTOR;7042,SOT-89,3P,-,PLASTI	1	S.A
....4	T0087	1203-002842	IC-POSI.FIXED REG.;AP1117D-33A,TO-252,3P	1	S.A
....4	T0087	1203-002844	IC-POSI.FIXED REG.;AP1117D-18A,TO-252-3L	1	S.A
....4	T0087	1203-002844	IC-POSI.FIXED REG.;AP1117D-18A,TO-252-3L	1	S.A
....4	T0087	1203-002855	IC-POSI.FIXED REG.;MC33269DTRK-5.0,DPRK,	1	S.A
....4	T0170	1203-003059	IC-SWITCH VOL. REG.;MP1583,SOIC,8P,4.9x3	1	S.A
....4	R225	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R226	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R257	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R258	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R261	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R262	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R320	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R321	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R341	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R343	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R344	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R355	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R356	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R612	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R816	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R101	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R111	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R112	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R125	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R201	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R213	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R214	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R215	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R219	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R222	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R251	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R252	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R275	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R322	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R323	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R324	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R325	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R329	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R330	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R333	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A

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Level	Loc. No.	Code No.	Description & Specification	EA	SA/SNA
....4	R335	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R336	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R337	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R358	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R411	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R440	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R614	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R615	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R634	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R635	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R704_NT	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R740_NT	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R745_NT	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R746_NT	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R747_NT	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R748_NT	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R859	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R9665	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R9720	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R9721	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R9722	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R7004	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R7005	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R7006	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R7007	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R7008	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R7009	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R7010	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R7011	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R765	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R766	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R790	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R795	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R231	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R761	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R762	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R775	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R777	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R789	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R791	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R113	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R114	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R210	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R211	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R254	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R255	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R256	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R351	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R420	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R434	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R435	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R455	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R457	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R458	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R648	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A

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Level	Loc. No.	Code No.	Description & Specification	EA	SA/SNA
....4	R649	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R709	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R730_NT	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R743	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R749_NT	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R758	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R767	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R773	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R794	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R936	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R937	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R9703	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R328	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	1	S.A
....4	R439	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	1	S.A
....4	R126	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	S.A
....4	R232	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	S.A
....4	R366	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	S.A
....4	R266	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R271	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R417	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R728	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R729	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R741_NT	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R742_NT	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R756_NT	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R757_NT	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R768	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R769	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R774	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R776	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R798	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R799	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R901	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R218	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R224	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R326	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R327	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R345	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R413	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R419	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R463	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R645	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R646	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R778	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R779	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R917	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R9716	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R352_NT	2007-000080	R-CHIP;2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R9696	2007-000080	R-CHIP;2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R9697	2007-000080	R-CHIP;2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R263	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R264	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R414	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R416	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R418	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	EA	SA/SNA
....4	R9701	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R9702	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R212	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R220	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R259	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R310	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R311	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R346	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R354_NT	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R357_NT	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R365	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R415	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R647	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R650	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R660	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R661	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R662	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R705	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R803	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R804	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R805	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R812	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R813	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R820	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R821	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R913	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R920	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R9699	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R9700	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R9706	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R9714	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R9717	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R216	2007-000087	R-CHIP;6.8Kohm,5%,1/10W,TP,1608	1	S.A
....4	R217	2007-000087	R-CHIP;6.8Kohm,5%,1/10W,TP,1608	1	S.A
....4	R110	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R230	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R269	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R274	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R302	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R421	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R443	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R445	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R447	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R449	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R456	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R460	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R462	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R626	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R627	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R706	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R759	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R760	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R772	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R787	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R788	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	EA	SA/SNA
....4	R811	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R814	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R9710	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R9711	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R9712	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R9715	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R815	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	1	SA
....4	R613	2007-000093	R-CHIP;20Kohm,5%,1/10W,TP,1608	1	SA
....4	R618	2007-000093	R-CHIP;20Kohm,5%,1/10W,TP,1608	1	SA
....4	R124	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	SA
....4	R670	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	SA
....4	R671	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	SA
....4	R819	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
....4	R894	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
....4	R350_NT	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	SA
....4	R637	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	SA
....4	R638	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	SA
....4	R639	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	SA
....4	R640	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	SA
....4	R641	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	SA
....4	R642	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	SA
....4	R643	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	SA
....4	R644	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	SA
....4	R651	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	SA
....4	R652	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	SA
....4	R653	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	SA
....4	R654	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	SA
....4	R655	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	SA
....4	R656	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	SA
....4	R657	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	SA
....4	R658	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	SA
....4	R119	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R127	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R611	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R619	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R810	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R629	2007-000103	R-CHIP;120Kohm,5%,1/10W,TP,1608	1	SA
....4	R620	2007-000106	R-CHIP;220Kohm,5%,1/10W,TP,1608	1	SA
....4	R347_NT	2007-000107	R-CHIP;470Kohm,5%,1/10W,TP,1608	1	SA
....4	R817	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	SA
....4	R910	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	SA
....4	R911	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	SA
....4	R912	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	SA
....4	R116_EU	2007-000234	R-CHIP;1.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R7001	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
....4	R7002	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
....4	R7003	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
....4	R7012	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
....4	R7013	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
....4	R7014	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
....4	R7015	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
....4	R7016	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
....4	R7017	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
....4	R738	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
....4	R229	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	EA	SA/SNA
....4	R796	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R797	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R117_EU	2007-000402	R-CHIP;150ohm,5%,1/10W,TP,1608	1	S.A
....4	R267	2007-000402	R-CHIP;150ohm,5%,1/10W,TP,1608	1	S.A
....4	R272	2007-000402	R-CHIP;150ohm,5%,1/10W,TP,1608	1	S.A
....4	R265	2007-000458	R-CHIP;18Kohm,5%,1/10W,TP,1608	1	S.A
....4	R270	2007-000458	R-CHIP;18Kohm,5%,1/10W,TP,1608	1	S.A
....4	R268	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	R273	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	R412	2007-000608	R-CHIP;240ohm,5%,1/10W,TP,1608	1	S.A
....4	R120_EU	2007-000659	R-CHIP;27ohm,5%,1/10W,TP,1608	1	S.A
....4	R123_EU	2007-000882	R-CHIP;4.7ohm,5%,1/10W,TP,1608	1	S.A
....4	R438	2007-000903	R-CHIP;430ohm,1%,1/10W,TP,1608	1	S.A
....4	R122_EU	2007-001002	R-CHIP;510ohm,5%,1/10W,TP,1608	1	S.A
....4	R771	2007-001002	R-CHIP;510ohm,5%,1/10W,TP,1608	1	S.A
....4	R338	2007-001042	R-CHIP;56ohm,1%,1/10W,TP,1608	1	S.A
....4	R339	2007-001042	R-CHIP;56ohm,1%,1/10W,TP,1608	1	S.A
....4	R340	2007-001042	R-CHIP;56ohm,1%,1/10W,TP,1608	1	S.A
....4	R780	2007-001042	R-CHIP;56ohm,1%,1/10W,TP,1608	1	S.A
....4	R781	2007-001042	R-CHIP;56ohm,1%,1/10W,TP,1608	1	S.A
....4	R782	2007-001042	R-CHIP;56ohm,1%,1/10W,TP,1608	1	S.A
....4	R783	2007-001042	R-CHIP;56ohm,1%,1/10W,TP,1608	1	S.A
....4	R818	2007-001068	R-CHIP;6.8Kohm,1%,1/10W,TP,1608	1	S.A
....4	R121_EU	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	S.A
....4	R722	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R723	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R724	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R744	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R751	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R752	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R753	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R763	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R764	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R770	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R331	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R348	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R349	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R353	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R784	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R785	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R786	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R792	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R793	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	RA210	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	RA211	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	C701	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,C0G,1608	1	S.A
....4	C213	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	S.A
....4	C220	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	S.A
....4	C223	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	S.A
....4	C227	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	S.A
....4	C230	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	S.A
....4	C233	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	S.A
....4	C236	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	S.A
....4	C119	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C201	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A

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Level	Loc. No.	Code No.	Description & Specification	EA	SA/SNA
....4	C214	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C248	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C250	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C251	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C252	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C253	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C255	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C259	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C260	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C261	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C262	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C263	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C264	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C265	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C266	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C271	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C616	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C622	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C627	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C637	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C642	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C643	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C702	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C734	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C812	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C818	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C823	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C827	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C841	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C880	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C901	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C912	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C925	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C926	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C927	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C114	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	SA
....4	C115	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	SA
....4	C710	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	SA
....4	C711	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	SA
....4	C713	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	SA
....4	C716	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	SA
....4	C729	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	SA
....4	C733	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	SA
....4	C745	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	SA
....4	C746	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	SA
....4	C110_EU	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C116_EU	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C117	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C118_EU	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C122	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C124	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C354	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C355	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C356	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C368_NT	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA

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Level	Loc. No.	Code No.	Description & Specification	EA	SA/SNA
....4	C416	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C738	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C739	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C740	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C741	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C824	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C825	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C838	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C915	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C917	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C918	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C850	2203-000405	C-CER,CHIP;0.18nF,5%,50V,C0G,1608	1	SA
....4	C301	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C610	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C611	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C640	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C641	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C650	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C651	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C916	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C929	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C125	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,1608	1	SA
....4	C257	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	SA
....4	C258	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	SA
....4	C840	2203-000715	C-CER,CHIP;3.3nF,10%,50V,X7R,1608	1	SA
....4	C707	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C725	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C726	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C730	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C731	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C732	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C736	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C742	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C747	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C748	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C126	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C631	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C632	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C743	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C744	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C127	2203-000972	C-CER,CHIP;47nF,10%,16V,X7R,TP,1608	1	SA
....4	C618	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	SA
....4	C621	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	SA
....4	C645	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	SA
....4	C646	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	SA
....4	C202	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	SA
....4	C203	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	SA
....4	C373	2203-001086	C-CER,CHIP;0.0050nF,0.25pF,50V,NP0,1608	1	SA
....4	C374	2203-001086	C-CER,CHIP;0.0050nF,0.25pF,50V,NP0,1608	1	SA
....4	C613	2203-001391	C-CER,CHIP;150nF,10%,25V,X7R,TP,2012,-	1	SA
....4	C615	2203-001391	C-CER,CHIP;150nF,10%,25V,X7R,TP,2012,-	1	SA
....4	C648	2203-001391	C-CER,CHIP;150nF,10%,25V,X7R,TP,2012,-	1	SA
....4	C649	2203-001391	C-CER,CHIP;150nF,10%,25V,X7R,TP,2012,-	1	SA
....4	C123	2203-001607	C-CER,CHIP;0.22nF,5%,50V,NP0,1608	1	SA
....4	C638	2203-001607	C-CER,CHIP;0.22nF,5%,50V,NP0,1608	1	SA

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Level	Loc. No.	Code No.	Description & Specification	EA	SA/SNA
....4	C623	2203-001652	C-CER,CHIP;470nF,+80-20%,16V,Y5V,1608	1	S.A
....4	C626	2203-001652	C-CER,CHIP;470nF,+80-20%,16V,Y5V,1608	1	S.A
....4	C212	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	S.A
....4	C219	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	S.A
....4	C222	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	S.A
....4	C226	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	S.A
....4	C229	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	S.A
....4	C232	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	S.A
....4	C235	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	S.A
....4	C372_NT	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	S.A
....4	C628	2203-001724	C-CER,CHIP;4700nF,+80-20%,16V,Y5V,3216	1	S.A
....4	C366	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C410	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C652	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C700	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C728	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C735	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C810	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C814	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C822	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C829	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C831	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C833	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C835	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C837	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C844	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C846	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C911	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	R464	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C614	2203-005030	C-CER,CHIP;470nF,+80-20%,50V,Y5V,TP,3216	1	S.A
....4	C647	2203-005030	C-CER,CHIP;470nF,+80-20%,50V,Y5V,TP,3216	1	S.A
....4	C113	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C211	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C218	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C221	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C225	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C228	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C231	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C234	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C239	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C254	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C311	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C312	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C313	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C314	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C315	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C316	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C317	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C318	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C320	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C321	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C322	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C323	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C325	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C326	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A

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Level	Loc. No.	Code No.	Description & Specification	EA	SA/SNA
....4	C327	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C328	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C329	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C330	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C331	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C333	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C334	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C335	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C336	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C337	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C340	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C341	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C342	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C343	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C344	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C345	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C346	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C347	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C350	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C351	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C352	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C353	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C359	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C360	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C361	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C362	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C363	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C364	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C385	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C412	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C418	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C419	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C630	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C633	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C634	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C635	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C636	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C703	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C769	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C847	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C848	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C849	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C920	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C921	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C922	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C923	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C924	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C930	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C931	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C414	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C928	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C639	2203-006036	C-CER,CHIP;680NF,+80-20%,16V,Y5V,TP,1608	1	S.A
....4	C678	2203-006036	C-CER,CHIP;680NF,+80-20%,16V,Y5V,TP,1608	1	S.A
....4	C679	2203-006036	C-CER,CHIP;680NF,+80-20%,16V,Y5V,TP,1608	1	S.A
....4	C375	2203-006170	C-CER,CHIP;220nF,10%,16V,X7R,1608	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	EA	SA/SNA
....4	C377	2203-006170	C-CER,CHIP;220nF,10%,16V,X7R,1608	1	SA
....4	C378	2203-006170	C-CER,CHIP;220nF,10%,16V,X7R,1608	1	SA
....4	C380	2203-006170	C-CER,CHIP;220nF,10%,16V,X7R,1608	1	SA
....4	C210	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C224	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C237	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C238	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C240	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C241	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C242	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C243	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C244	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C245	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C249	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C369_NT	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C371_NT	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C379_NT	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C382	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C384	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C387	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C654	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C655	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C656	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C657	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C658	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C659	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C660	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C661	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C890	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C417	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2mm	1	SA
....4	C112	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C121	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C267	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C268	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C415	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C620	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C624	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C625	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C644	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C671	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C677	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C811	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C813	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C819	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C820	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C826	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C828	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C845	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C367_NT	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	SA
....4	C612	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	SA
....4	C111_EU	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8mm	1	SA
....4	C413	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8mm	1	SA
....4	C365	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	SA
....4	C653	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	SA
....4	C821	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	SA

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	EA	SA/SNA
....4	C830	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C832	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C834	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C932	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C270	2402-001222	C-AL,SMD;3.3UF,20%,50V,HR,TP,4.3X4.3X5.8	1	S.A
....4	C246	2402-001226	C-AL,SMD;4.7UF,20%,35V,HR,TP,4.3X4.3X5.8	1	S.A
....4	C247	2402-001226	C-AL,SMD;4.7UF,20%,35V,HR,TP,4.3X4.3X5.8	1	S.A
....4	C256	2402-001226	C-AL,SMD;4.7UF,20%,35V,HR,TP,4.3X4.3X5.8	1	S.A
....4	C120	2402-001238	C-AL,SMD;1uF,20%,50V,HR,TP,4.3x4.3x5.2mm	1	S.A
....4	C816	2402-001257	C-AL,SMD;470uF,20%,16V,-,TP,8.3*10	1	S.A
....4	C843	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
....4	C836	2409-001065	C-ORGANIC;82uF,20%,16V,WT,TP,8X6.9mm,-	1	S.A
....4	T0052	2703-000185	INDUCTOR-SMD;3.3uH,10%,2012	1	S.A
....4	T0052	2703-000185	INDUCTOR-SMD;3.3uH,10%,2012	1	S.A
....4	T0052	2703-000185	INDUCTOR-SMD;3.3uH,10%,2012	1	S.A
....4	T0052	2703-000222	INDUCTOR-SMD;560nH,10%,2012	1	S.A
....4	T0052	2703-000392	INDUCTOR-SMD;10uH,5%,4532	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052				

6 Electrical Parts List

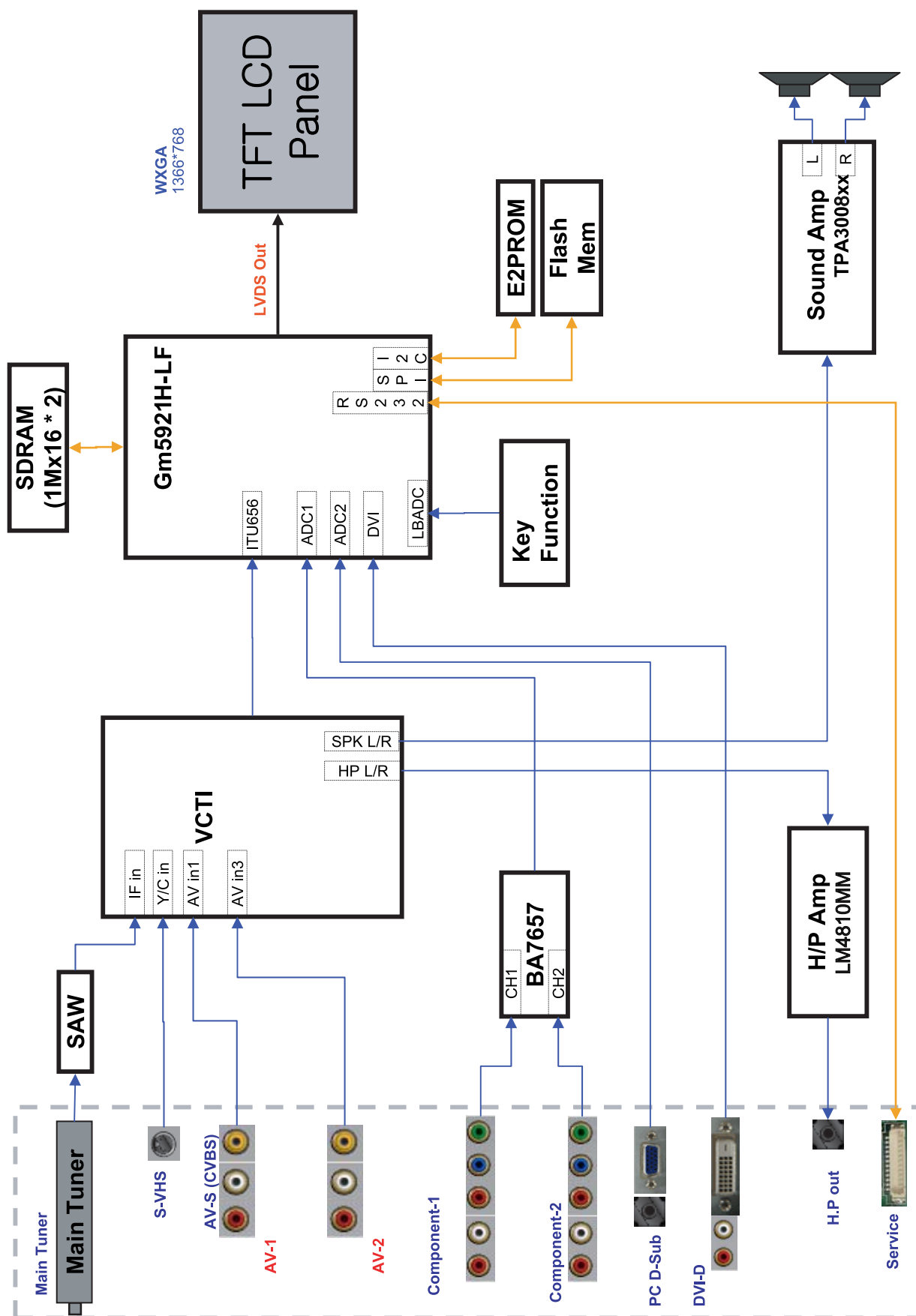
Level	Loc. No.	Code No.	Description & Specification	EA	SA/SNA
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001236	BEAD-SMD;60ohm,1608,-,-,	1	S.N.A
....4	T0568	3301-001236	BEAD-SMD;60ohm,1608,-,-,	1	S.N.A
....4	T0568	3301-001236	BEAD-SMD;60ohm,1608,-,-,	1	S.N.A
....4	T0568	3301-001236	BEAD-SMD;60ohm,1608,-,-,	1	S.N.A
....4	T0568	3301-001236	BEAD-SMD;60ohm,1608,-,-,	1	S.N.A
....4	TEST4	3711-002046	HEADER-BOARD TO CABLE;BOX,12P,1R,1.25mm,	1	S.A
....4	CN622	3711-005291	HEADER-BOARD TO CABLE;BOX,2P,1R,2MM,SMD-	1	S.A
....4	CN621	3711-005292	HEADER-BOARD TO CABLE;BOX,3P,1R,2MM,SMD-	1	S.A
....4	CN701	3711-005470	HEADER-BOARD TO CABLE;BOX,30P,1R,1.25mm,	1	S.A
....4	CN802	3711-005497	HEADER-BOARD TO CABLE;BOX,15P,1R,1.25MM,	1	S.A
....4	L805	BN27-00008A	COIL CHOKE-SMD;SMD12*12*8.5,GH15/17PS,22	1	S.A
....4	L623_OP	BN27-00017A	COIL CHOKE-SMD;PO5845-330,LT17N2,33uH,10	1	S.A
....4	L624_OP	BN27-00017A	COIL CHOKE-SMD;PO5845-330,LT17N2,33uH,10	1	S.A
....4	L625_OP	BN27-00017A	COIL CHOKE-SMD;PO5845-330,LT17N2,33uH,10	1	S.A
....4	L626_OP	BN27-00017A	COIL CHOKE-SMD;PO5845-330,LT17N2,33uH,10	1	S.A
....4	T0077	BN41-00636C	PCB MAIN;TORINO,FR-4,4,MP1.2,1.6,160 * 1	1	S.N.A
....4	M0018	BN97-00657D	ASSY MICOM;:0000,20050810,BN09-00014A,Q5	1	S.A
....5	T0119	BN09-00014A	IC MICOM;VCT4973,VCT49X3F,XX,F2,144,3.3V	1	S.N.A
....4	M0018	BN97-00657E	ASSY MICOM;GTR32KC-Q54C/T50T50,20050913,	1	S.A
....5	IC115	1107-001580	IC-FLASH MEMORY;MX25L4005,4Mbit,512Kx8Bi	1	S.A
....4	R622	2007-000381	R-CHIP;13Kohm,5%,1/10W,TP,1608	1	S.A
....4	R625	2007-000381	R-CHIP;13Kohm,5%,1/10W,TP,1608	1	S.A
....4	R115_OP	2007-000416	R-CHIP;15ohm,5%,1/10W,TP,1608	1	S.A
...3	MICOM3	BN97-00688A	ASSY HDCP;BN46-00018A,PS-42V6S,D73A,GENE	1	S.N.A
....4		BN46-00018A	KEY CODE-CERTIFICATE;(HDCP KEY)PPM42M5S,	1	S.N.A
0.1	M0019	BN92-01044C	ASSY LABEL;NF26EO	1	S.N.A
0.1	M0003	BN92-01550E	ASSY BOX;LA32T51BX/XTT	1	S.N.A
..2	T0376	BN69-01163C	BOX-00,MONITOR;32T5(TTSEC),DW3,AB,YEL,A1	1.01	S.N.A
0.1	M0113	BN92-01551A	ASSY P/MATERIAL;TORINO,32,32T50	1	S.N.A
..2	T0376	6902-000061	BAG AIR;LDPE,T0.2,L1000,W500,TRP,,,	0.019	S.N.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	EA	SA/SNA
..2	T0376	6902-000379	BAG AIR;LDPE,T0.2,W1000,L1800,TRP,-,--	0.004	S.N.A
..2		6902-000604	BAG WRAPPING;LDPE,T0.02,W500,L10000,TRP,	7.23	S.N.A
..2	T0524	6902-000524	BAG PE;HDPE/NITRON(DOUBLE),T0.015/T0.5/D	1	S.N.A
0.1	M0045	BN92-01623U	ASSY ACCESSORY;LA32T51BX/XTT	1	S.N.A
..2	M0045	BN96-02905U	ASSY ACCESSORY;LA32T51BX/XTT	1	S.A
...3	T0268	3903-000082	CBF-POWER CORD;DT,CN,IP3/YES(A),I(IEC C1	1	S.A
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	2	S.N.A
...3	T0511	AA68-03242H	MANUAL FLYER-SAFETY GUIDE;All Model,SAMS	1	S.A
...3	T0074	BN59-00487C	REMOCON;TORINO-CO,TM79,Single Micom,37,E	1	S.A
...3	T0531	BN63-02177A	COVER-BOTTOM;MGM,23,27,32,HIPS,V0,GR503	1	S.N.A
...3	T0511	BN68-00860H	MANUAL USERS;COMM,SAMSUNG,CHINESE,CHINA,	1	S.N.A
...3	ACCESSORY	BN69-01086A	BOX ACCESSORY-00;COMM,SW1,YEL,W573,D632,	1	S.N.A
...3	M0045	BN96-01800A	ASSY ACCESSORY;ROME32,SCREW	1	S.A
....4	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	4	S.A
....4	ACCESSORY	6902-000128	BAG ZIPPER;LDPE,T0.05,W200,L150,TRP,8,2-	1	S.N.A
0.1	M0112	BN91-00998A	ASSY SHIELD;LE32T51BX/*,Q54A	1	S.N.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	2	S.N.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	1	S.N.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	4	S.N.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	6	S.N.A
..2	M0081	6003-000133	SCREW-TAPTITE;BH,+,S,M4,L8,ZPC(BLK),SW	2	S.A
..2	M0081	6003-000133	SCREW-TAPTITE;BH,+,S,M4,L8,ZPC(BLK),SW	2	S.A
..2	M0081	6003-001003	SCREW-TAPTITE;BH,+,B,M4,L12,ZPC(BLK),SWR	4	S.N.A
..2	M0081	6003-001003	SCREW-TAPTITE;BH,+,B,M4,L12,ZPC(BLK),SWR	5	S.N.A
..2	M0081	6003-001003	SCREW-TAPTITE;BH,+,B,M4,L12,ZPC(BLK),SWR	4	S.N.A
..2	M0081	6003-001003	SCREW-TAPTITE;BH,+,B,M4,L12,ZPC(BLK),SWR	2	S.N.A
..2	M0081	6003-001003	SCREW-TAPTITE;BH,+,B,M4,L12,ZPC(BLK),SWR	2	S.N.A
..2	CCM1	6006-000245	SCREW-MACHINE;WSP,PH,+,M4,L8,ZPC(YEL),SW	1	S.N.A
..2	T0069	AA60-00091K	SPACER-FELT;-,FELT,330X10,-,BLK,T0.35,	2	S.N.A
..2	M2893	BH39-00362B	LEAD CONNECTOR;RE32**,UL1007#26,5P,150mm	1	S.A
..2	M2893	BN39-00603A	LEAD CONNECTOR;RE40**,UL1007#26,UL,14P,2	1	S.A
..2	M2893	BN39-00614A	LEAD CONNECTOR;RE40**,UL20276#30,30P,300	1	S.A
..2	M2893	BN39-00691A	LEAD CONNECTOR;Torino-32,UL1007#26,16P,1	1	S.A
..2	T0076	BN39-00693B	CBF HARNESS-INLET;TORINO,1617#22,3P,1P,R	1	S.A
..2	M0114	BN61-01778A	HOLDER-WIRE;NYLON-66,NATURAL or GRAY,DAF	1	S.N.A
..2		BN61-01944A	BRACKET-PANEL SIDE;23 ROMEII,SECC,T1.2	4	S.N.A
..2		BN61-02031A	BRACKET-GUIDE STAND;32,MGM,SECC,T1.6	1	S.N.A
..2	T0159	BN96-02583A	ASSY PCB P-SMPS;Free Voltage SMPS,GTR32K	1	S.A
..2	T0447	BN96-02628A	ASSY BRACKET P-PANEL;TORINO 32",SECC	1	S.N.A
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	6	S.N.A
...3		BN61-02025A	BRACKET-PANEL TOP;32" MGM,SECC,T1.2	1	S.N.A
...3		BN61-02026A	BRACKET-GUIDE POWER;32" MGM,SECC,T1.2,LE	1	S.N.A
...3		BN61-02027A	BRACKET-PANEL BOTTOM;32" MGM,SECC,T1.6	1	S.N.A
...3		BN61-02029A	BRACKET-GUIDE POWER;32" MGM,SECC,T1.2,RI	1	S.N.A
...3		BN61-02030A	BRACKET-GUIDE MAIN;32" MGM,SECC,T1.2	1	S.N.A
...3	M0131	AA63-01289A	GASKET;TORINO 32",Conductive Fabric,18mm	1	S.N.A

7 Block Diagram

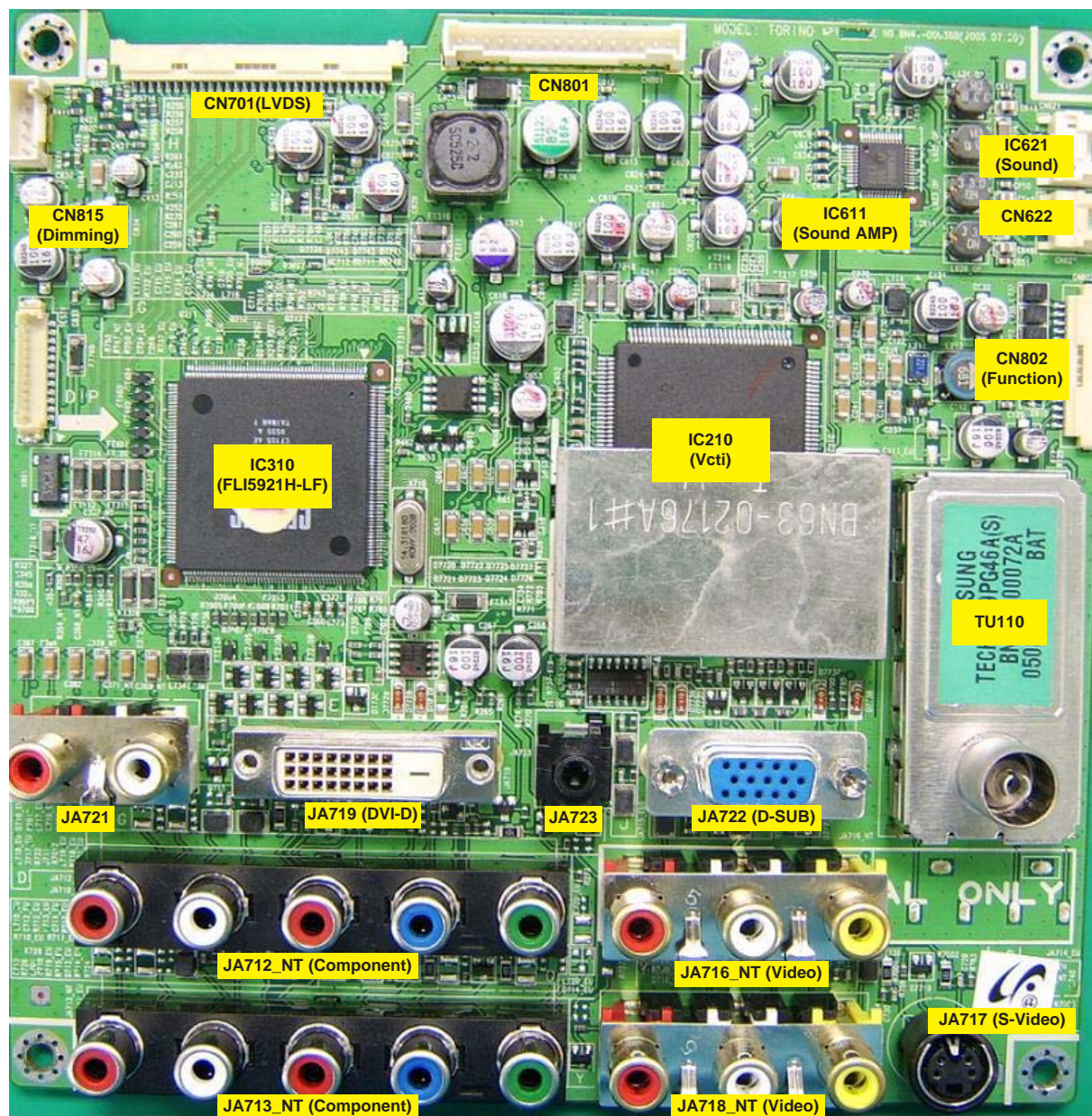
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12 PCB Layout

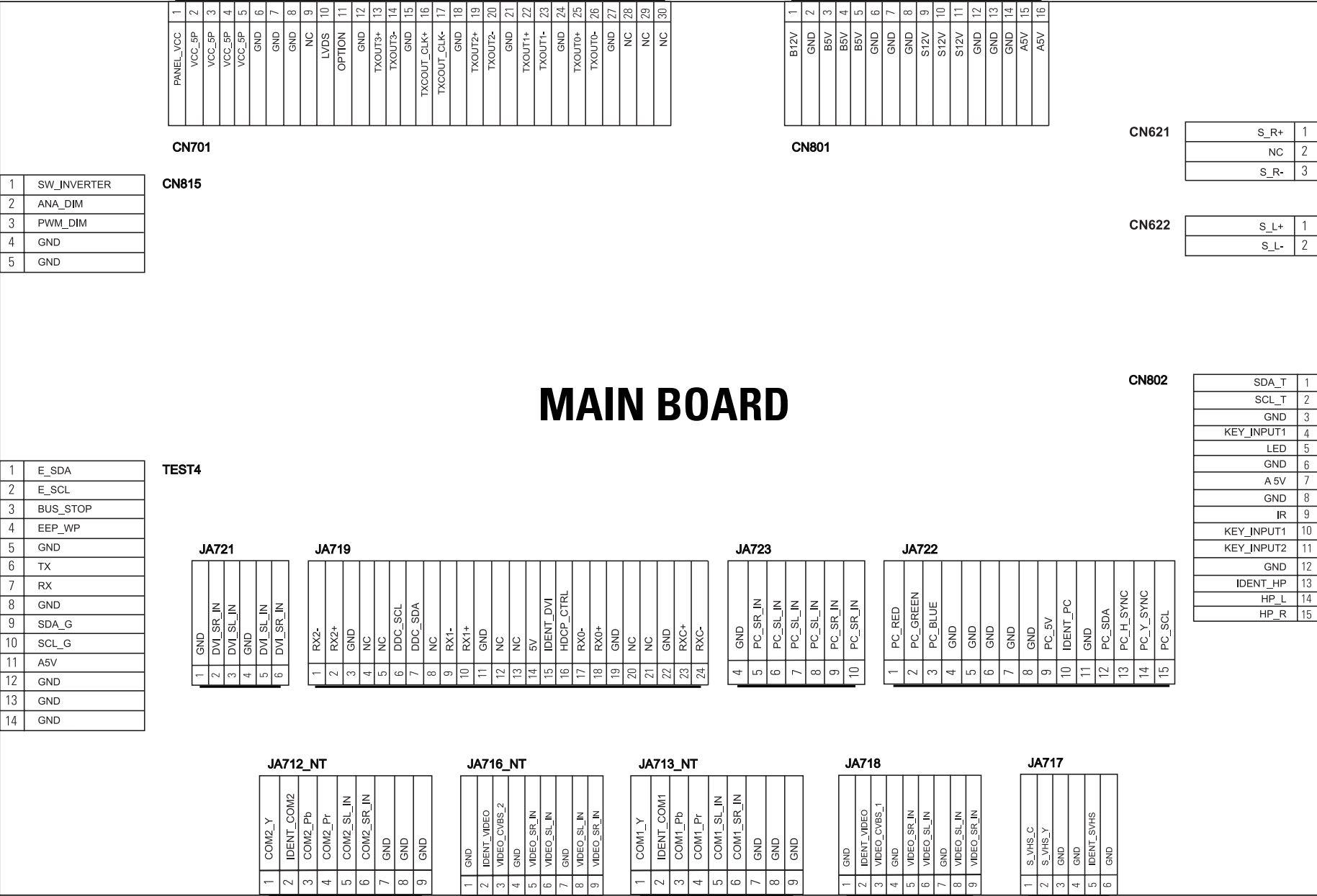
12-1 Main PCB Layout



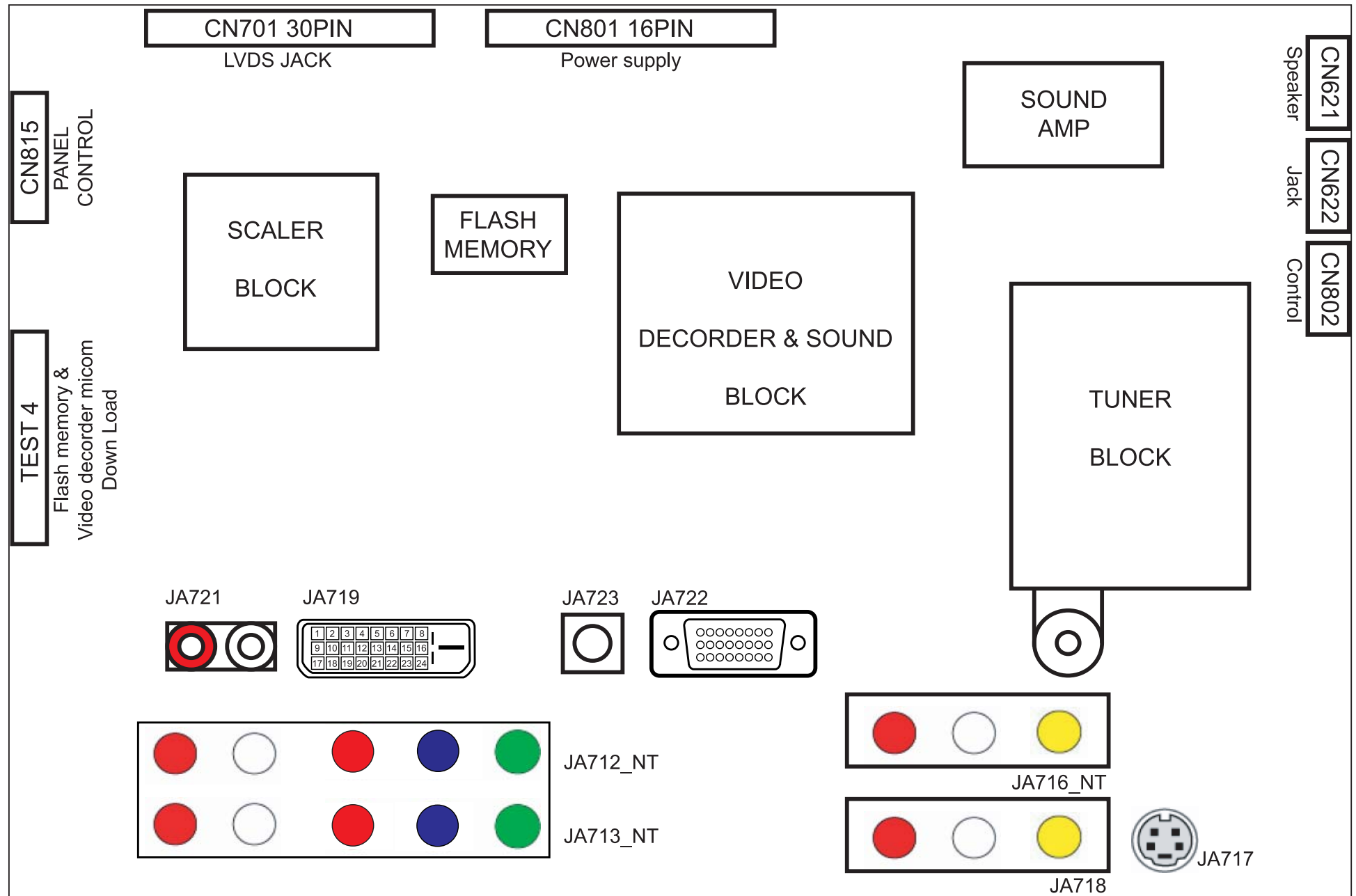
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8 Wiring Diagram

8-1 LA27T51B / LA32T51B Wiring Diagram



8-2 Main Board Layout



8-3 PIN characteristic

CN801 - Main Board power supply

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
NAME	B12V	GND	B5V	B5V	B5V	GND	GND	GND	B12VS	B12VS	B12VS	GND	GND	GND	A5V	A5V

Function Define

- B12V B8V, B5V-T
- B5V B5V-1, B5V, 5V-P, B1.8V
- B12VS B12VS
- A5V A5V, A3.3V-3, A3.3V, A3.3V-1, B3.3V, A1.8V

CN621 / CN622 - SPEAKER CONNECTOR

PIN	1	2	3
NAME	R+	NC	R-

PIN	1	2
NAME	L+	L-

CN802 - Front control

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
NAME	SDA-T	SCL-T	GND	KEY INPUT1	LED	GND	A5V	GND	IR	KEY INPUT1	KEY INPUT2	GND	IDENT HP	HP-L	HP-R

Function Define

- A5V Front control board poewr supply
- KEY INPUT1,2/SDA/SCL Key control, from the memu, change up/down Etc.
- IR Remote control signal
- LED Control the timing and stand by LED color

CN815 - Panel control

PIN	1	2	3	4	5
NAME	SW_inverter	Ana_dimming	PWM_dimming	GND	GND

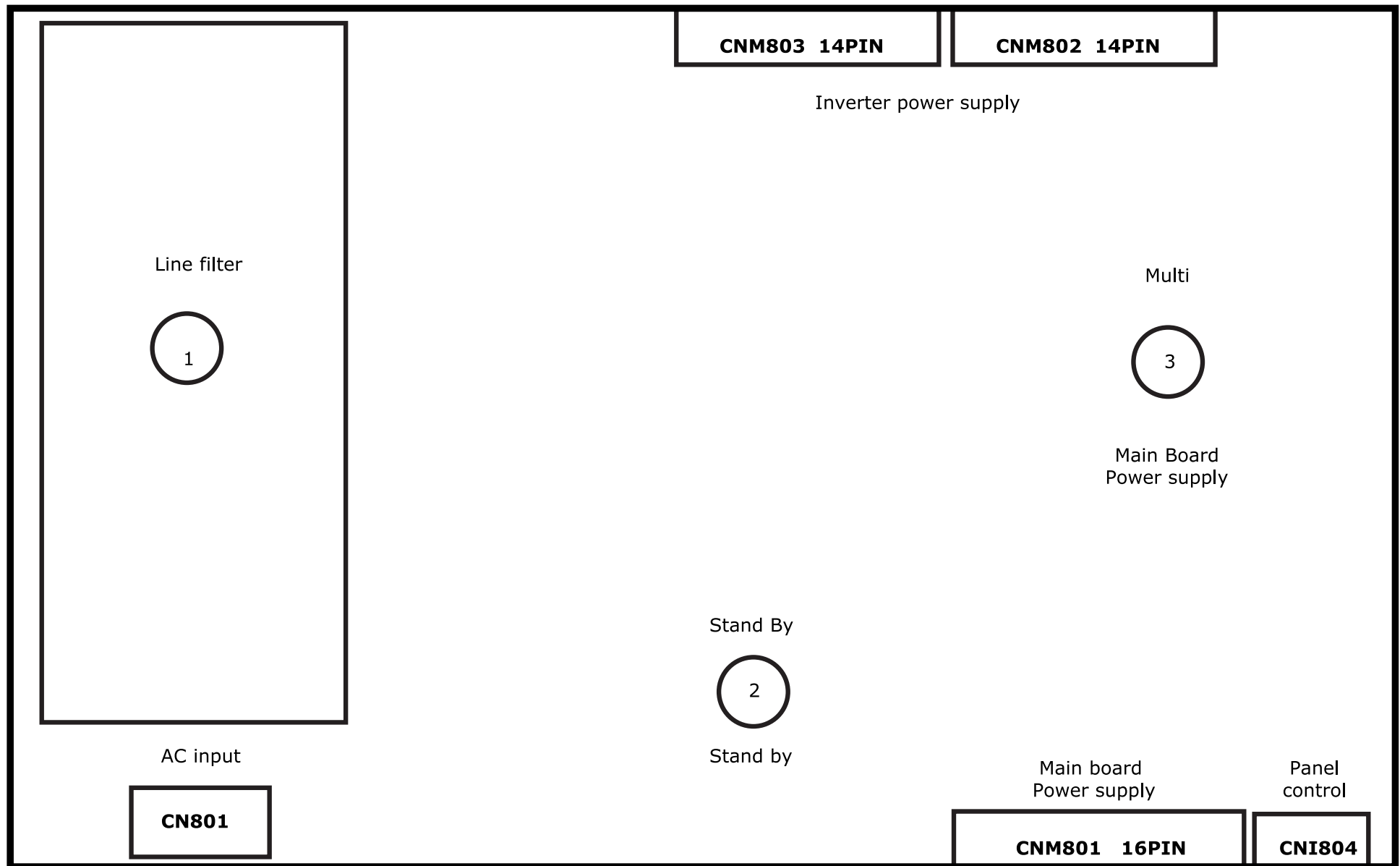
Function Define

- SW_inverter panel inverter control, about 3.3V
- Ana_dimming panel dimming control
- PWM_dimming panel PWM control, duty 40% ~ 90%

CN702-LVDS Signal

PIN	NAME	PIN	NAME
1	VCC	16	TXOUTCLK+
2	VCC5P	17	TXOUTCLK-
3	VCC5P	18	GND
4	VCC5P	19	TXOUT2+
5	VCC5P	20	TXOUT2-
6	GND	21	GND
7	GND	22	TXOUT1+
8	GND	23	TXOUT1-
9	NC	24	GND
10	LVDS_option	25	TXOUT0+
11	NC	26	TXOUT0-
12	GND	27	GND
13	TXOUT3+	28	NC
14	TXOUT3-	29	NC
15	GND	30	NC

8-4 Power Board Layout



CN801 - AC Input

PIN	1	2
NAME	Live	Netural
VOLTAGE	AC	AC

Functioning Define

- Refer to : AC Input

CN801 - Main Board power supply

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
NAME	13V	GND	5.4V	5.4V	5.4V	GND	GND	GND	12V	12V	12V	GND	GND	GND	ST7V	PWR

Functioning Define

- ST7V Stand-By Output
- PWR Power On/Off Control

- Refer to : CN801 function define

CNM804 - Panel control

PIN	1	2	3	4	5
NAME	SW_inverter	Ana_dimming	PWM_dimming	GND	SENSOR POWER

Functioning Define

- Refer to : CN815 function define

CN802 - Inverter power supply

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
NAME	24V	24V	24V	24V	24V	GND	GND	GND	GND	GND	GND	B/L	A_D	P_D

Functioning Define

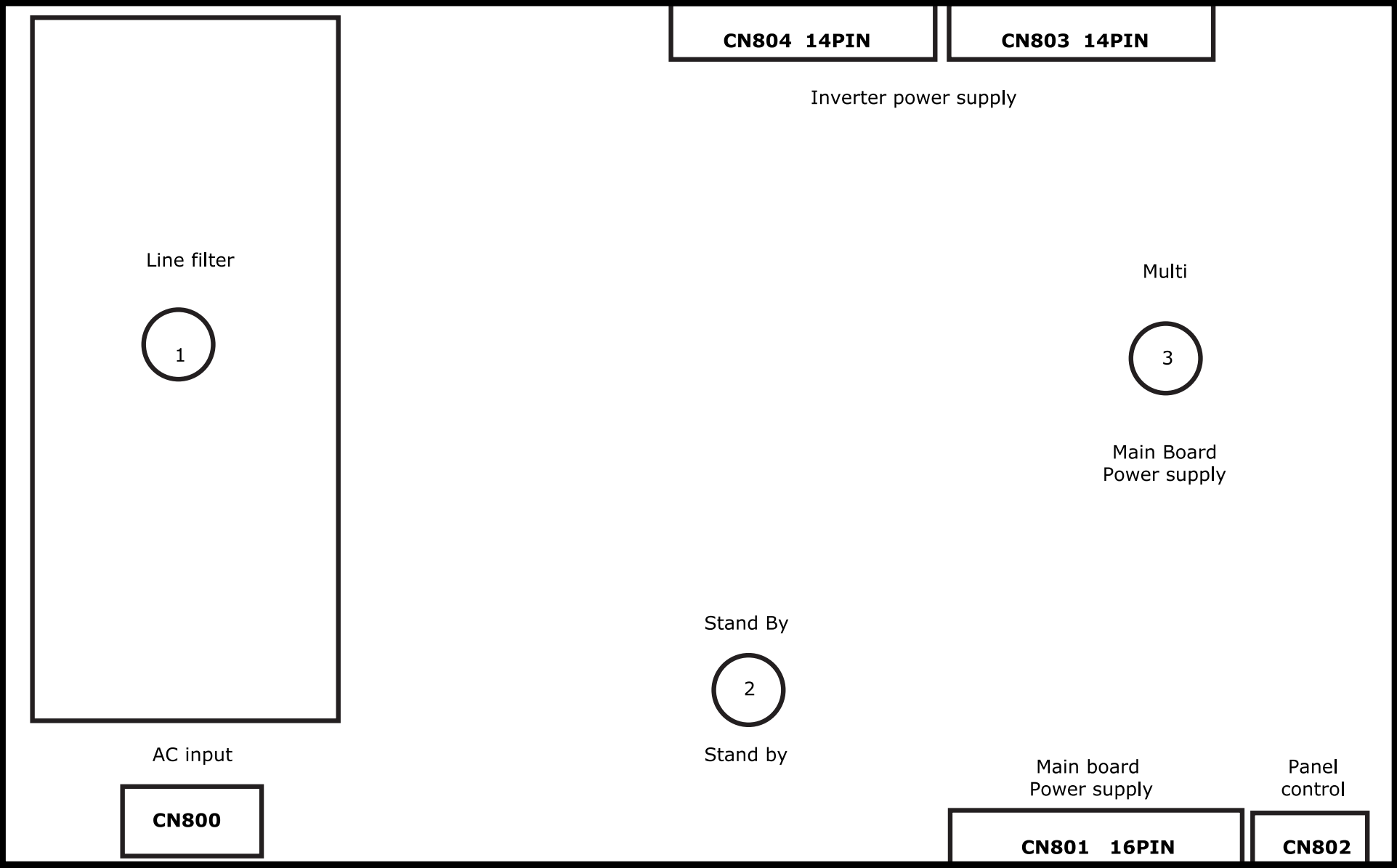
- AMLCD Panel Inverter Power
- 24V LAMP INVERTER Voltage
- B/L Brightness sensor power
- A_D ANA_DIMMING
- P_D PWM_DIMMING

CN803 - Inverter power supply

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
NAME	24V	24V	24V	24V	24V	GND	GND	GND	GND	GND	A_D	B/L	P_D	GND

Functioning Define

- AUO Panel Inverter Power
- 24V LAMP INVERTER Voltage
- B/L Brightness sensor power
- A_D ANA_DIMMING
- P_D PWM_DIMMING



CN801 - AC Input

PIN	I	2
NAME	Live	Netural
VOLTAGE	AC	AC

Functioning Define

- Refer to : AC Input

CN801 - Main Board power supply

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
NAME	13V	GND	5.4V	5.4V	5.4V	GND	GND	GND	12V	12V	12V	GND	GND	GND	ST7V	PWR

Functioning Define

- ST7V Stand-By Output
- PWR Power On/Off Control

- Refer to : CN801 function define

CNM804 - Panel control

PIN	1	2	3	4	5
NAME	SW_inverter	Ana_dimming	PWM_dimming	GND	SENSOR POWER

Functioning Define

- Refer to : CN815 function define

CN803 - Inverter power supply

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
NAME	24V	24V	24V	24V	24V	GND	GND	GND	GND	GND	GND	B/L	A_D	P_D

Functioning Define

- AMLCD Panel Inverter Power
- 24V LAMP INVERTER Voltage
- B/L Brightness sensor power
- A_D ANA_DIMMING
- P_D PWM_DIMMING

CN804 - Inverter power supply

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
NAME	24V	24V	24V	24V	24V	GND	GND	GND	GND	GND	B/D	P_L	GND	B/L

Functioning Define

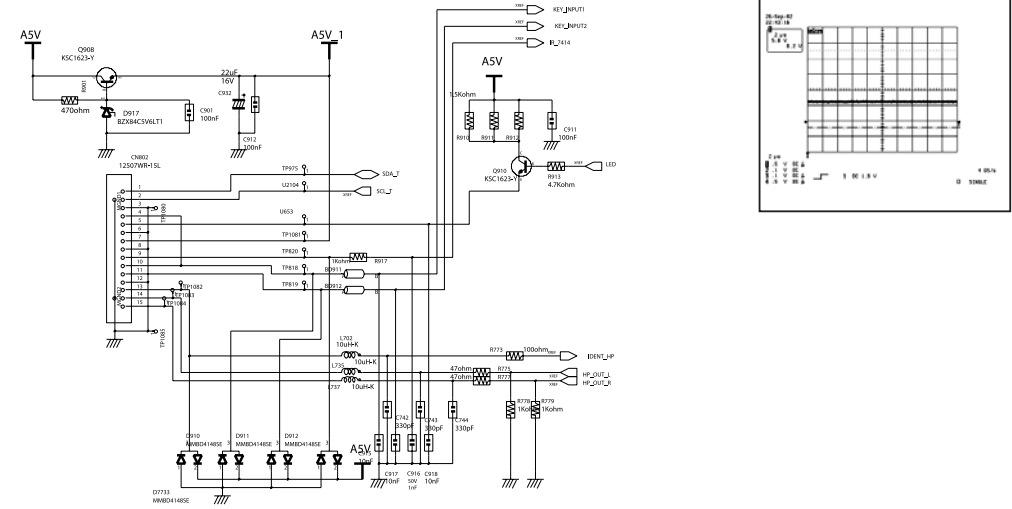
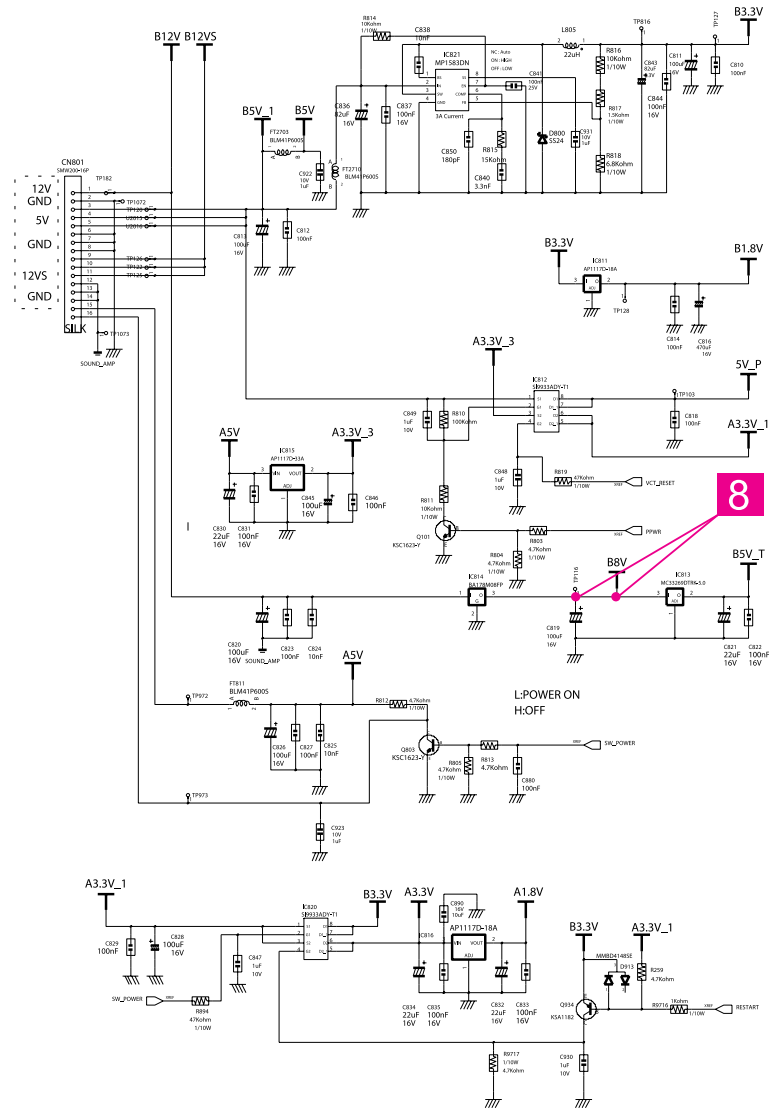
- CMO Panel Inverter Power
- 24V LAMP INVERTER Voltage
- B/L Brightness sensor power
- P_D PWM_DIMMING

Memo

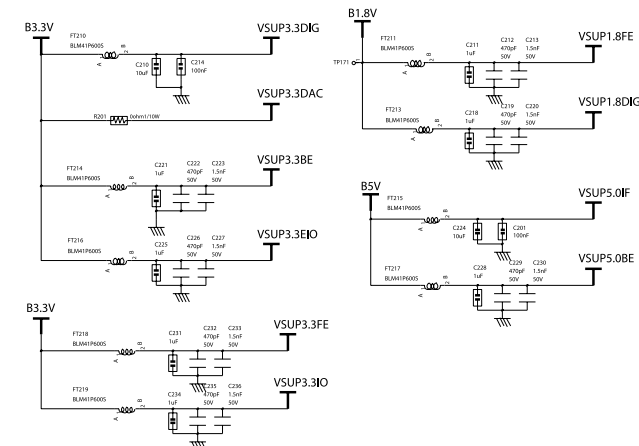
9 Schematic Diagrams

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9-1 Power & Function Schematic Diagram

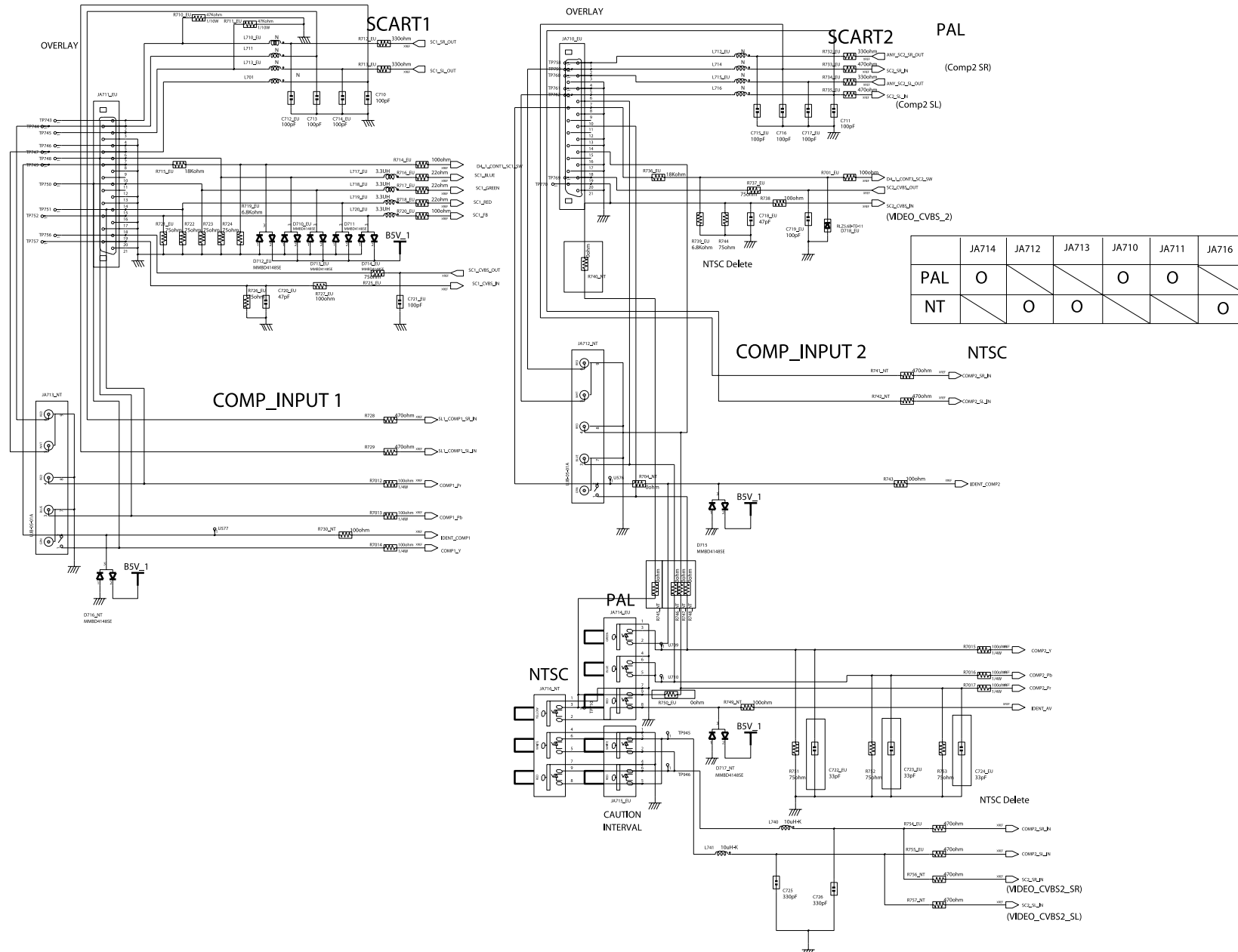


To front function Ass'y



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9-2 In_Out_Jack Schematic Diagram



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TTX only

5V

330k

ATAC16M19K07

VCC

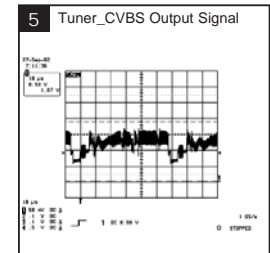
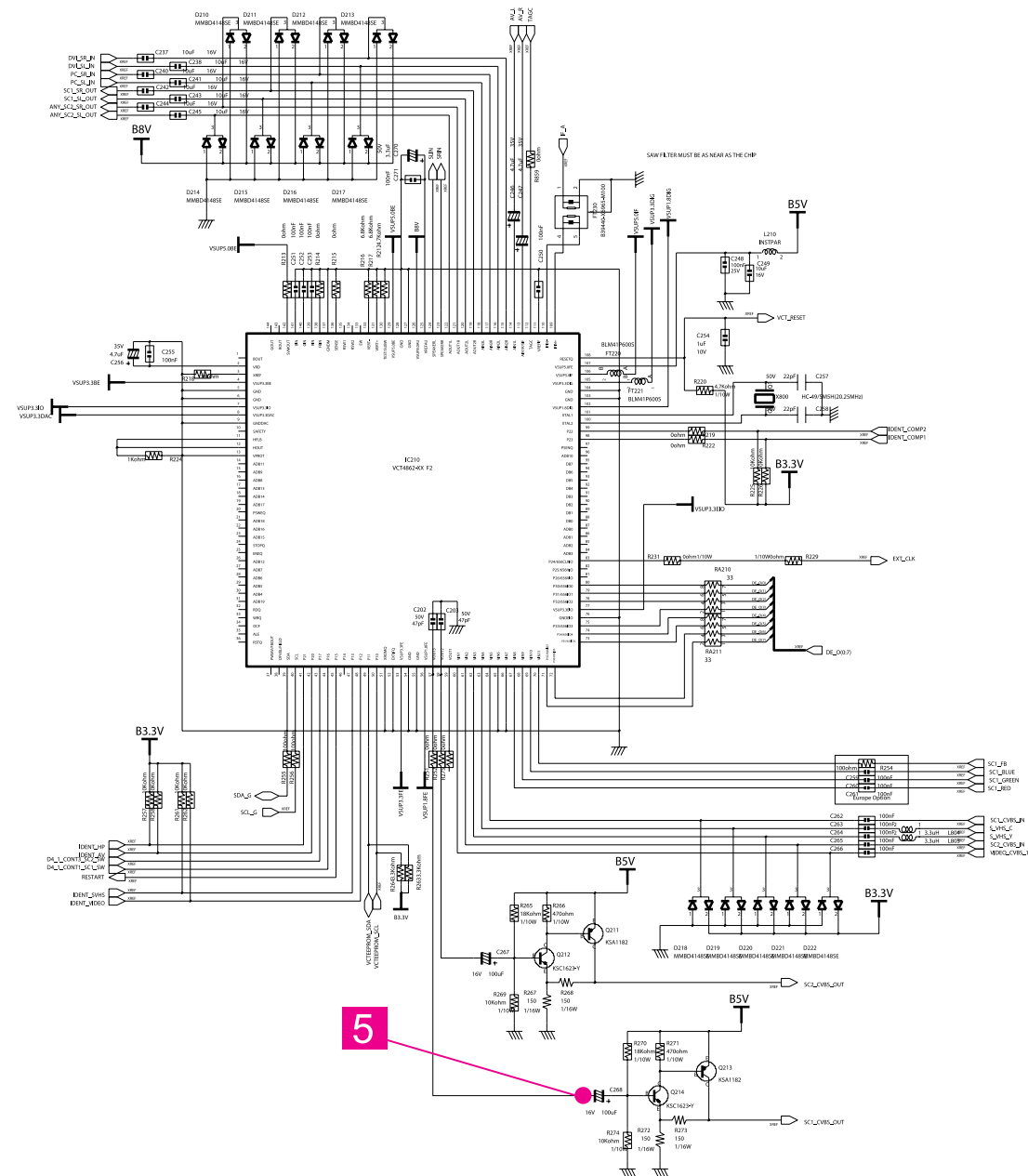
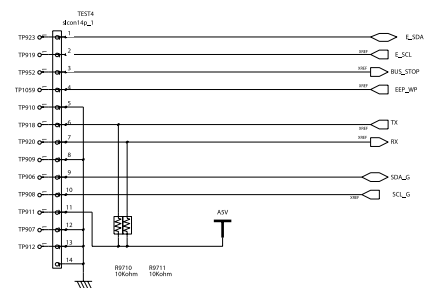
GND

I2C/SMB

10k

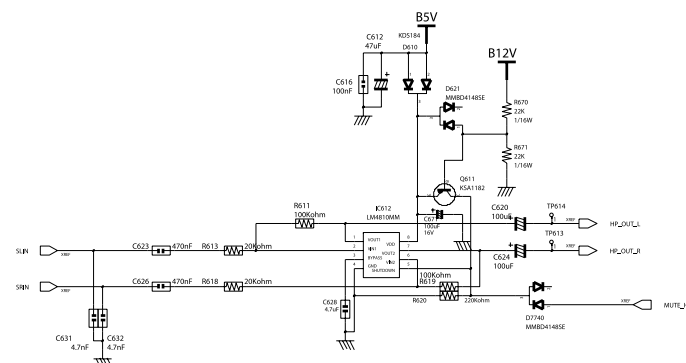
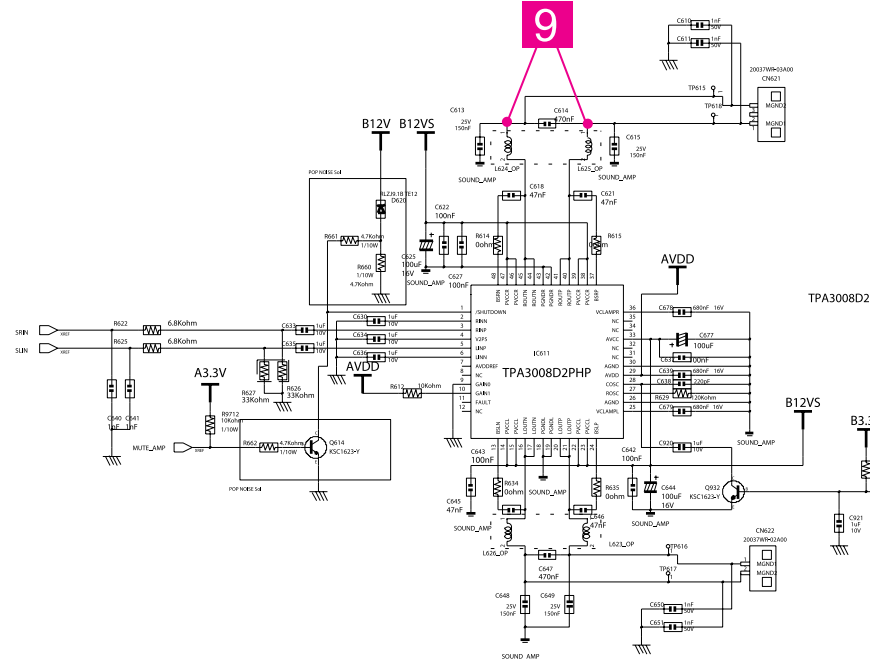
TTX module

TTX module



9-5 Sound Amp Schmetic Diagram

9



8 DC +8V

35-Amp 40
25-100 Hz

0.5 A
0.2 A
0.1 A

500 V

200 V

100 V

50 V

25 V

12.5 V

6.25 V

3.125 V

1.5625 V

0.78125 V

0.390625 V

0.1953125 V

0.09765625 V

0.048828125 V

0.0244140625 V

0.01220703125 V

0.006103515625 V

0.0030517578125 V

0.00152587890625 V

0.000762939453125 V

0.0003814697265625 V

0.00019073486328125 V

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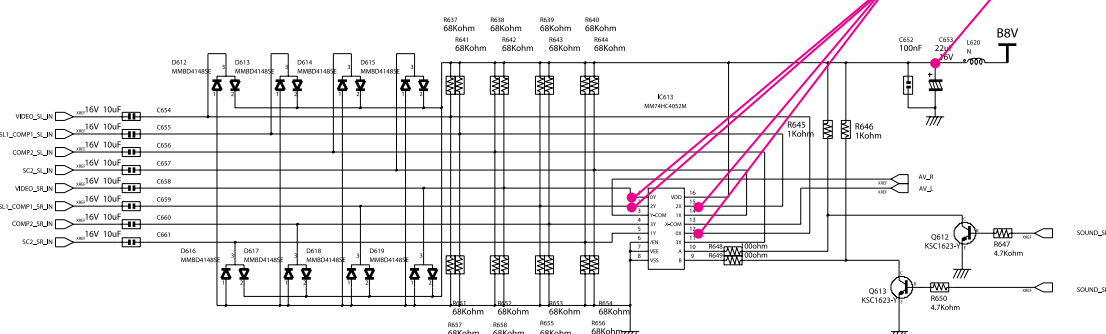
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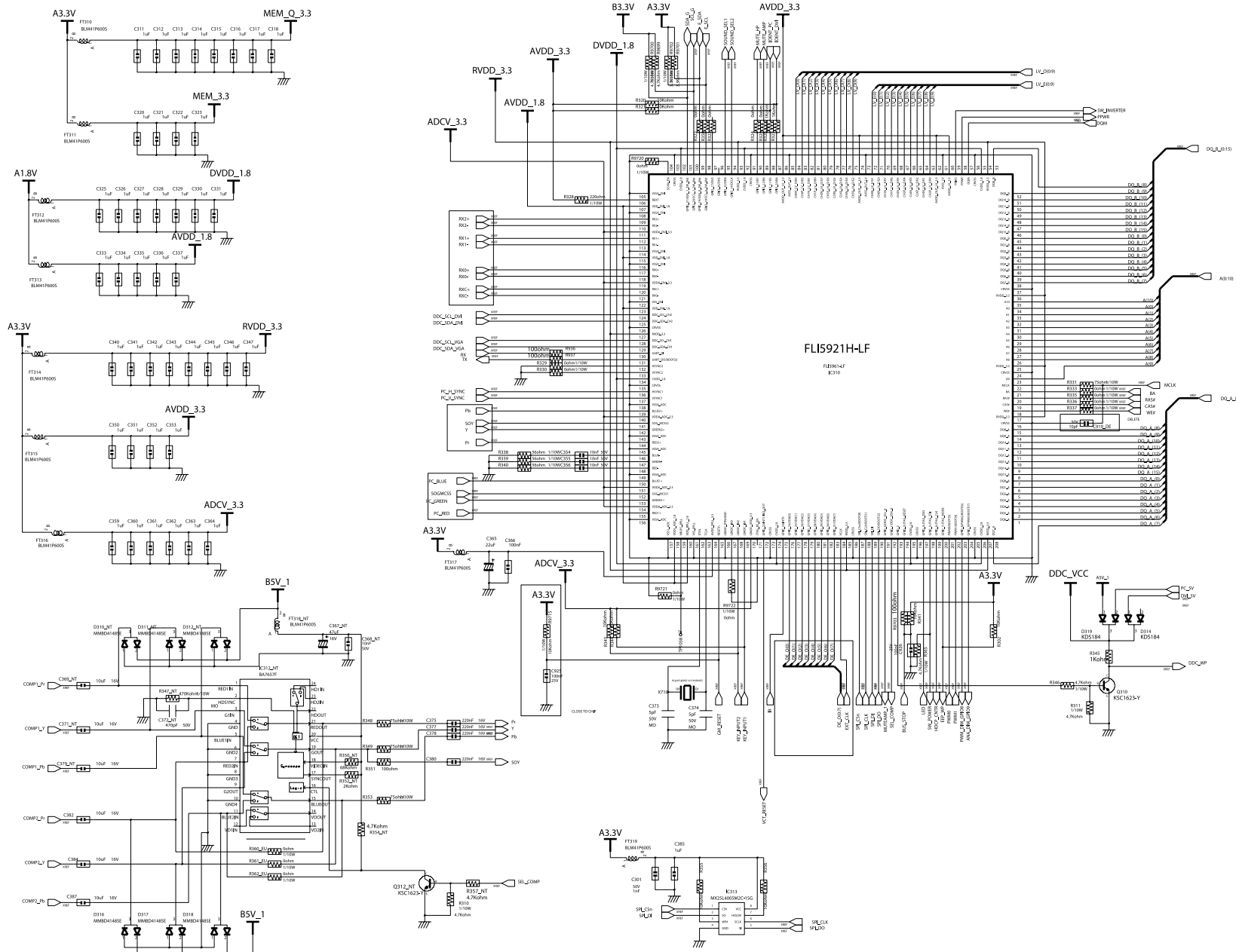
[illegible]

8



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9-6 Scaler IC Schmatic Diagram



Memo