



TFT-LCD TV

Chassis GFM40SRU
 GFM46SRU

Model LE40F71B
 LE46F71B

SERVICE Manual

TFT-LCD TV



Fashion Feature

- Luxurious Slim Design
- Supreme Picture Quality
- Supreme Sound Quality
- Supreme Convenience Quality
- Convenience for Users

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LE40F71B / LE46F71B Service Manual

First edition June 2006.

Printed in Korea.

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Gyeonggi-Do, Korea, 443-742
Printed in Korea
P/N : BN82-00145B-00
URL : <http://itself.sec.samsung.co.kr/>

3 Alignments and Adjustments

3-1 Service Instruction

1. Usually, a color TV-VCR needs only slight touch-up adjustment upon installation.
Check the basic characteristics such as height, horizontal and vertical sync.
2. Use the specified test equipment or its equivalent.
3. Correct impedance matching is essential.
4. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV. When inserting signal markers, do not allow the marker generator to distort test result.
5. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.
6. Do not attempt to connect or disconnect any wire while the TV is turned on. Make sure that the power cord is disconnected before replacing any parts.
7. To protect against shock hazard, use an isolation transform.

3-2 How to Access Service Mode

3-2-1 Entering Factory Mode

1. To enter "Service Mode" Press the remote -control keys in this sequence :

- If you do not have Factory remote - control



- If you have Factory remote - control



- The buttons are active in the service mode.

1. Remote - Control Key : Power, Arrow Up, Arrow Down, Arrow Left
Arrow Right, Menu, Enter, Number Key(0~9)
2. Function - Control Key : Power, CH +, CH -, VOL +, VOL -,
Menu, TV/VIDEO(Enter)

3-3 Factory Data

1. Calibration
 2. Option Table XXXX XXXX
 3. White Balance
 4. SVP-PX
 5. Option Block
 6. STV8257/STA323W
 7. YC Delay
 8. Adjust
 9. I2C Check
 10. W/B MOVIE
 11. Checksum
 12. Reset
 13. Spread Spectrum
- T-FHDMPEU-0000
T-BRDMPEUS-0000
T-MSLMPEUW-0000

1. Calibration
 - 1) AV Calibration
 - 2) Comp Calibration
 - 3) PC Calibration
 - 4) HDMI Calibration

2. Option Table XXXX XXXX

Inch Option	40"	Carrier Mute	OFF	TTX Group	Auto
Gamma	AMLCD	Language	English	Auto Power	ON
Panel Option	AMLCD_INT	Auto FM	ON	Magazine LNA	OFF
2HDMI	ON	High Deviation	OFF	VOL MODE	SMALL
Brт.Sensor	OFF	TTX	ON	----	OFF
EnergySave	OFF	TTX List	Flof	Debug	OFF
LBE/FBE	ON	ACR	OFF	Ch.Table	SUWON
FRC(Micronas)	OFF	Dynamic CE	ON	iDTV_Cntry	UK
FRC 2X	OFF	Dynamic Dimming	ON	Dynamic Contrast	OFF
LNA	ON	Tuner TOP	8		

3 Alignments and Adjustments

3. White Balance

No.	Item	TV/AV	Component	DVI (HDMI)
1	Sub-Briteness		130	
2	R-offset		128	
3	G-offset		128	
4	B-offset		128	
5	Sub-Contrast		145	
6	R-Gain		128	
7	G-Gain		128	
8	B-Gain		128	

4. SVP-PX

1) ComB Filter

No	Item	Range	EEPROM	NTSC	PAL	SECAM	Control IC	Remark
1	Y-Filter	0 ~ 255			80h			x

2) Sharpness

H2 Gain	05H	Sl2 gain	02H
H4 Gain	02H	Sl4 gain	08H
V2 Gain	0CH	Peakth 1	04H
V4 Gain	04H	Peakth 2	2FH
Sr2 Gain	02H	Peakth 3	3FH
Sr4 Gain	00H		

3) NR

Y_NR_OFF	80H
C_NR_OFF	
Y_NR_ON	
C_NR_ON	

4) RGB Calibration

R-offset	48H
G-offset	48H
B-offset	48H
R-Gain	39H
G-Gain	39H
B-Gain	39H

5) ADC Calibration

TCD3	Contrast	78H
TCD3	CR	20H
TCD3	CB	80H
TCD3	Delay	00H
Analog	Y offset	3DH

Analog	PB offset	80H
	PR offset	80H
	Y-Gain	B7H
	PB-Gain	9AH
	PR-Gain	9AH
Black level		00H
SVP Brightness		00H

6) Calibration Target

	low	high	delta
AV ADC	17	D5H	02H
COMP ADC	0FH	EBH	02H
PC ADC	17H	D5H	04H
ALL RGB	00H	DDH	08H

7) Color Management

Skin Direction	Reddish
Skin Enhance	40H
Green Stretch	00H
Blue Stretch	00H

5. Option Block

FRC (Micronas)

FRC 2X

LBE / FBE

6. STV 8257 / STA 323W

Ch1 Volume	4BH	AV delay	41H
Ch2 Volume	4BH	Comp delay	41H
AGC Gain	07H	HDMI delay	41H
AV-Prescale	00H	PC delay	41H
		L1 Att / Rel Thres	7FH

7. YC Delay(TV)

RF PAL - B/G	AAH	RF NTSC 3.58	66H
RF PAL - D/K	99H	RF NTSC 4.43	CCH
RF PAL - I	99H	AV PAL	AAH
RF SECAM B/G	RF SECAM -B/G	AV SECAM	88H
RF SECAM D/K	44H	AV NTSC 3.58	BBH
RF SECAM L/L'	88H	AV NTSC 4.43	AAH
		AV PAL 60	77H

8. Adjust

Video mute time 10

Melody volume 9

Ana_Dimm_Max FEH

LNA PLUS

Hotel Option

9. I2C Check

3 Alignments and Adjustments

10. W/B movie

WB movie Off	W2 R Gain 142	Movie sharpness 35
color mode Movie	W2 B Gain 48	Movie colortone warm 2
	W2 R Offset 129	
W1 R Gain 157	W2 B Offset 143	
W1 B Gain 157	Movie contrast 80	
W1 R Offset 157	Movie Brightness 65	
W1 B Offset 157	Movie color 35	

11. Checksum

12. Reset

13. Spread Spectrum

Spectrum on
Delta 0
Positive 8
Negative 2

3-4 Service Adjustment

3-4-1 White Balance - Calibration

If picture color is wrong, do calibration first.

Equipment : CA210, Patten : chess pattern

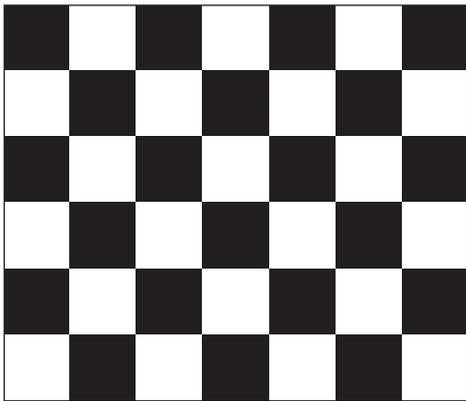
Execute calibration in Factory Mode

Source AV: PAL composite, Component : 1280 x 720/60Hz

Component: 720P

PC: 1024*768/60Hz

HDMI: 720P



(chess patten)

3-4-2 White Balance - Adjustment

If picture color is wrong, check White Balance condition.

Equipment : CA210, Patten : New W/B Pattern

Adjust W/B in Factory Mode

Sub brightness and R/G/B Offset controls low light region

Sub contrast and R/G/B Gain controls high light region

Source AV : PAL composite, Component : 1280 x 720/60Hz

HDMI[DVI] : 1280 x 720/60Hz



[Test Pattern : MSPG-945 Series Pattern #92]

*Color temperature

1500K +/-500, -6 ~-20 MPCD

*Color coordinate

H/L : 272/278 +/- 5

L/L : 272/278 +/-5 3.8ft +/- 0.2ft

New W/B Pattern

3 Alignments and Adjustments

3-4-3 Conditions for Measurement

1. On the basis of toshiba ABL pattern : High Light level (57 IRE)

- INPUT SIGNAL GENERATOR

* Mode NO 2 : 744X484 @ 60 Hz

NO 6 : 1280X720 @ 60 Hz

NO 21 : 1024X768 @ 60 Hz

* Pattern NO 17 : 16 Gray Pattern

NO 92 : Combination Pattern

2. Optical measuring device : CA210 (FL)

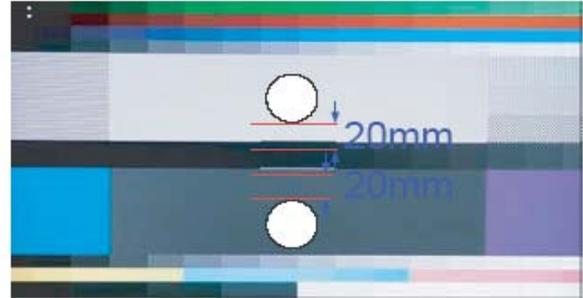
Please use the generator for model LE40F71B.

3-5 White Ratio (Balance) Adjustment

1. You can adjust the white ratio in factory mode (1:Calibration, 3:White-Balance).
2. Since the adjustment value and the data value vary depending on the input source, you have to adjust these in AV, Component 1 and HDMI 1 modes.
3. The optimal values for each mode are configured by default. (Refer to Table 1, 2.)

It varies with Panel's size and Specification.

- Equipment : CS-210
- Pattern: MIK K-7256 #92 "Flat W/B Pattern" as standard
 - Use other equipment only after comparing the result with that of the Master equipment.
- Set Aging time : 60min ↑
- Calibration and Manual setting for WB adjustment.



HDMI : Calibration at #24 Chessboard Pattern → Manual adjustment #92 pattern (720p)

COMP: Calibration at #24 Chessboard Pattern → Manual adjustment at #92 pattern (720p)

AV Calibration at #24 Chessboard Pattern → Manual adjustment at #92 pattern

- If finishing in HDMI mode, adjustment coordinate is almost same in AV/COMP mode.

- White Balance Manual Adjustment

	Adjustment Coordinate (LE40F71B)				
		x	y	Y (cd/m ²)	T(K) ± MPCD
AV	H/L	272	278	-	12,000
	L/L	272	278	-	12,000
Component (720P)	H/L	272	278	-	12,000
	L/L	272	278	-	12,000
HDMI (720P)	H/L	272	278	-	12,000
	L/L	272	278	13.2cd/m ²	12,000

- Adjustment Specification

White Balance : High light (± 2), Low light (± 3)

Luminance : High light (Don't care), Low light (± 0.2 Ft/L)

3 Alignments and Adjustments

	Adjustment Coordinate (LE46F71B)				
		x	y	Y (cd/m ²)	T(K) ± MPCD
AV	H/L	268	283	-	12,000
	L/L	268	283	-	12,000
Component (720P)	H/L	268	283	-	12,000
	L/L	268	283	-	12,000
HDMI (720P)	H/L	268	283	-	12,000
	L/L	268	283	13.2cd/m ²	12,000

- Adjustment Specification

White Balance : High light (± 2), Low light (± 3)

Luminance : High light (Don't care), Low light (± 0.2 Ft/L)

3-6 Servicing Information

3-6-1 USB Download Method

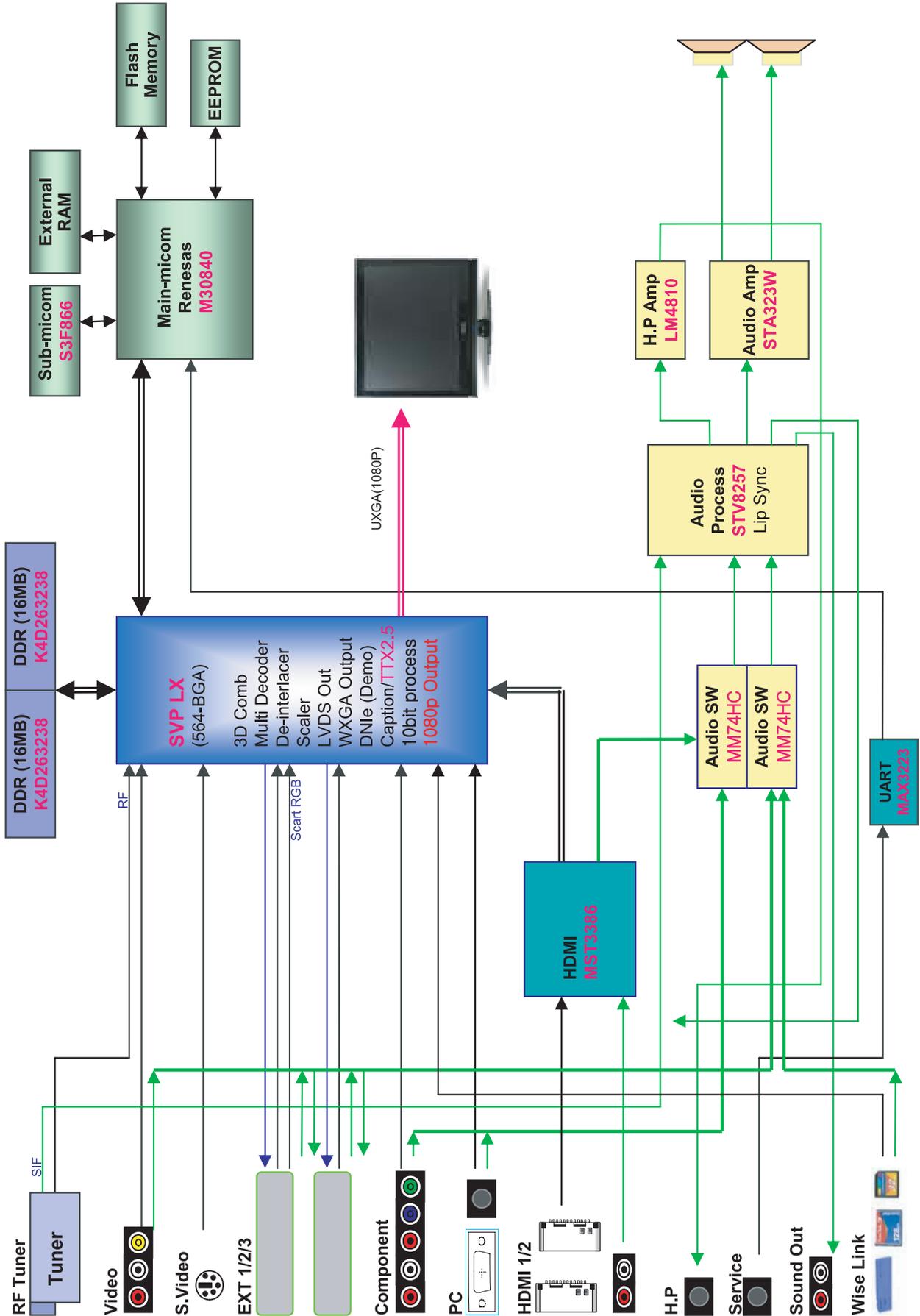
- (1) Copy the Software file into the USB flash driver.
- (2) Turn on your LCD TV and check the source is 'Analog TV Mode'.
- (3) Insert the USB flash driver into the USB Jack of LCD TV.
- (4) Press 'Mute'+ '7'+ '8'+ '9'+ 'Exit' keys of your remote control.
- (5) The banner osd "Updating SW..." is displayed.
- (6) The banner osd "Completed..." is displayed when the updating is completed.
- (7) Remove the USB flash driver from LCD TV.
- (8) Check the program version.

* How to check Program Version

1. Press " MENU "
2. Select " SET UP "
3. Select " INFORMATION HELP "
4. Highlight " ON " option
5. Press " INFO " button on the remote control

7 Block Diagram

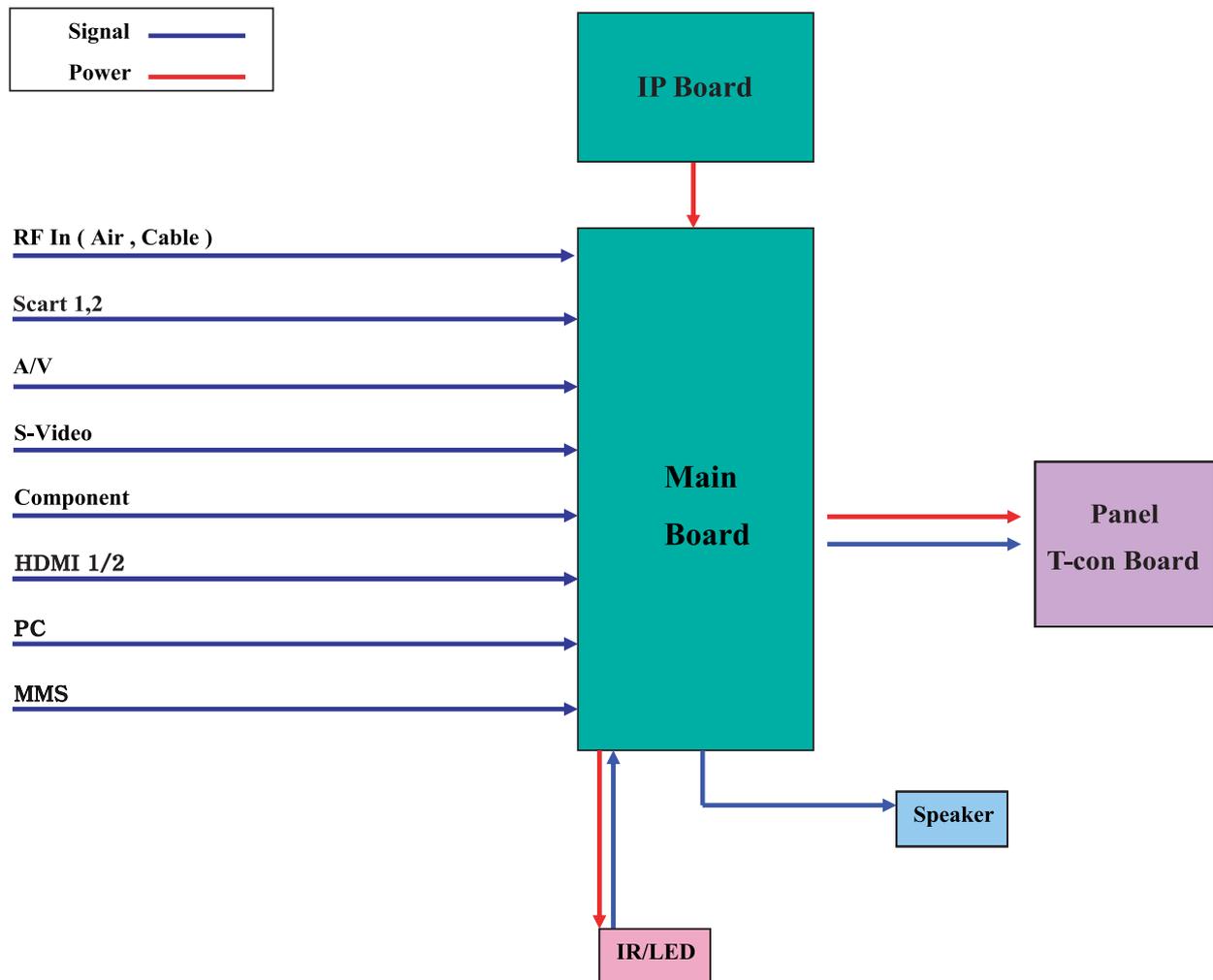
- This Document can not be used without Samsung's authorization



Memo

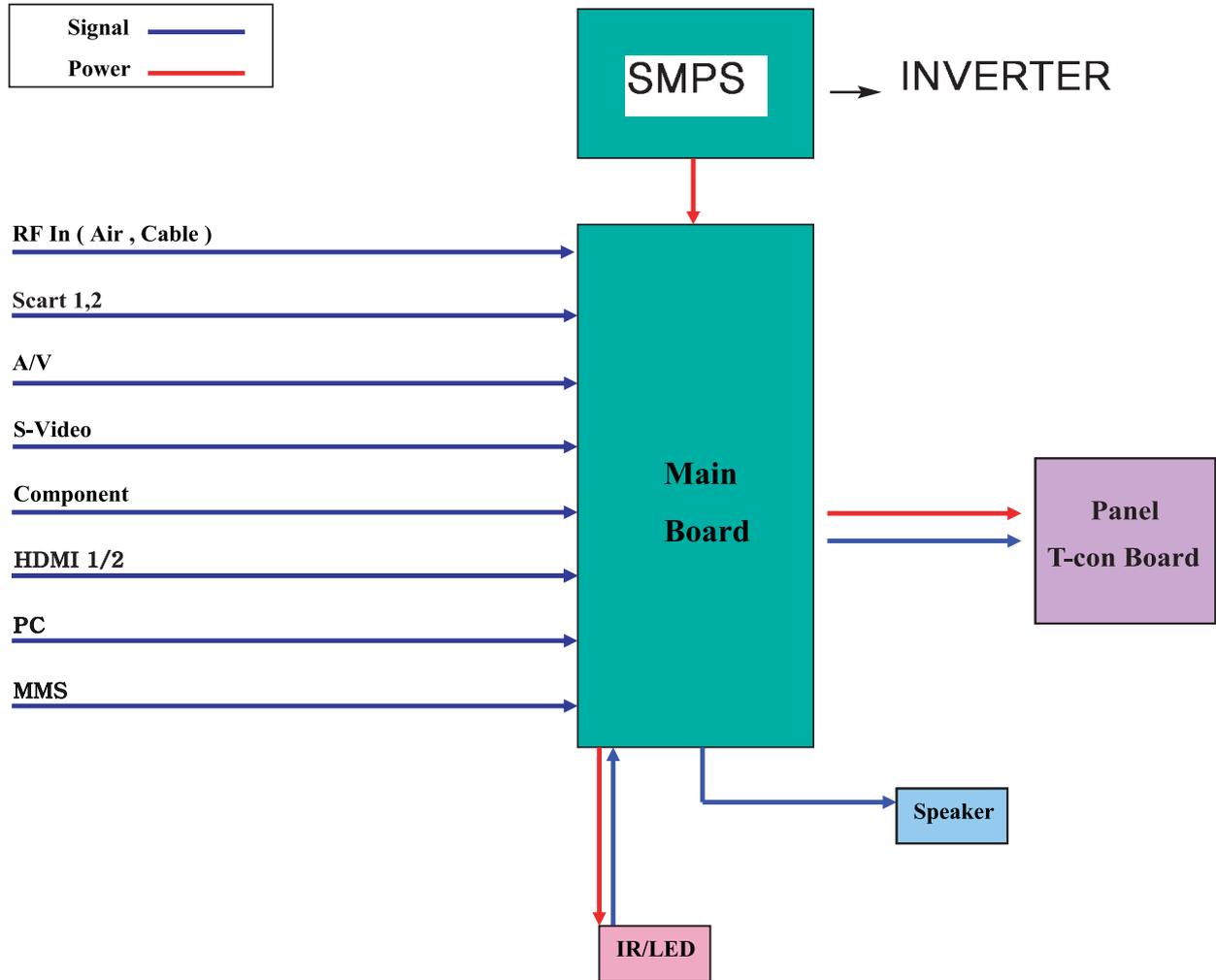
13 Circuit Descriptions

13-1 Block description



Mosel consists of three main blocks

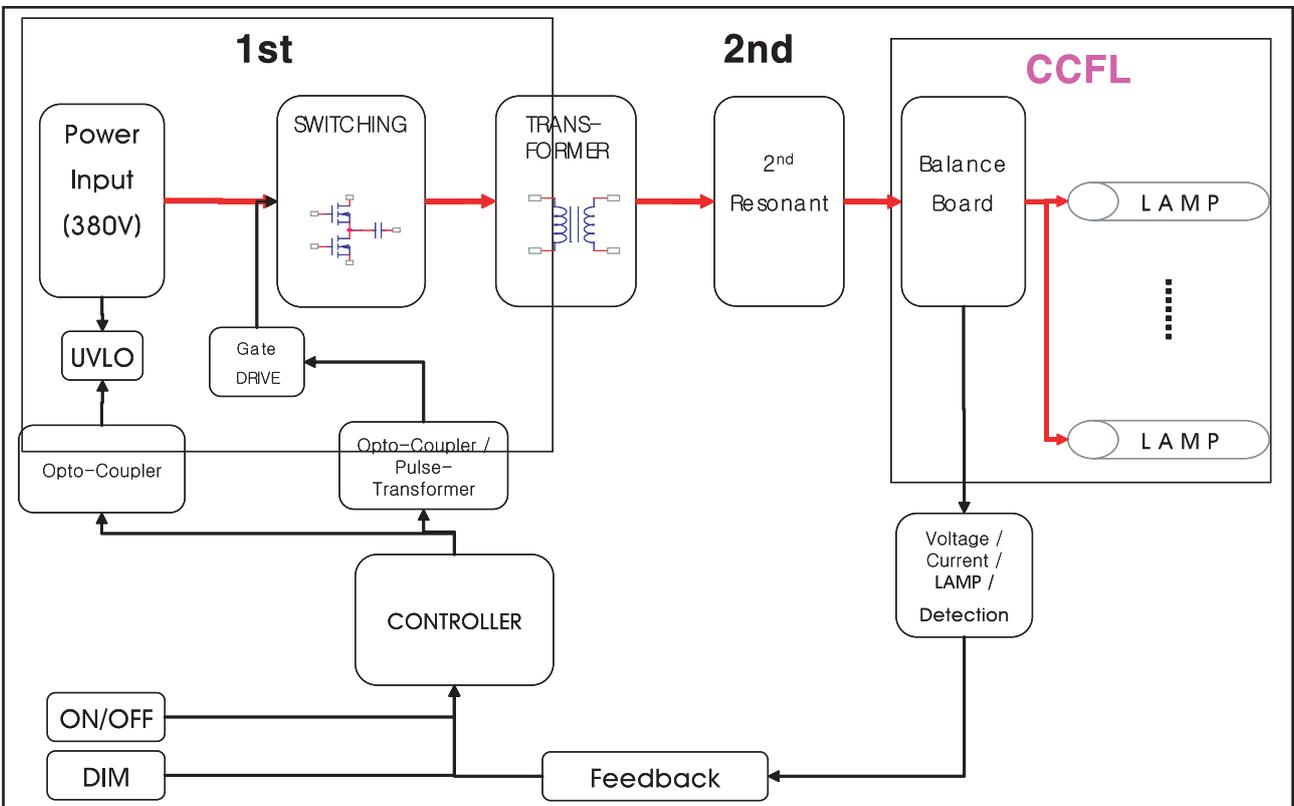
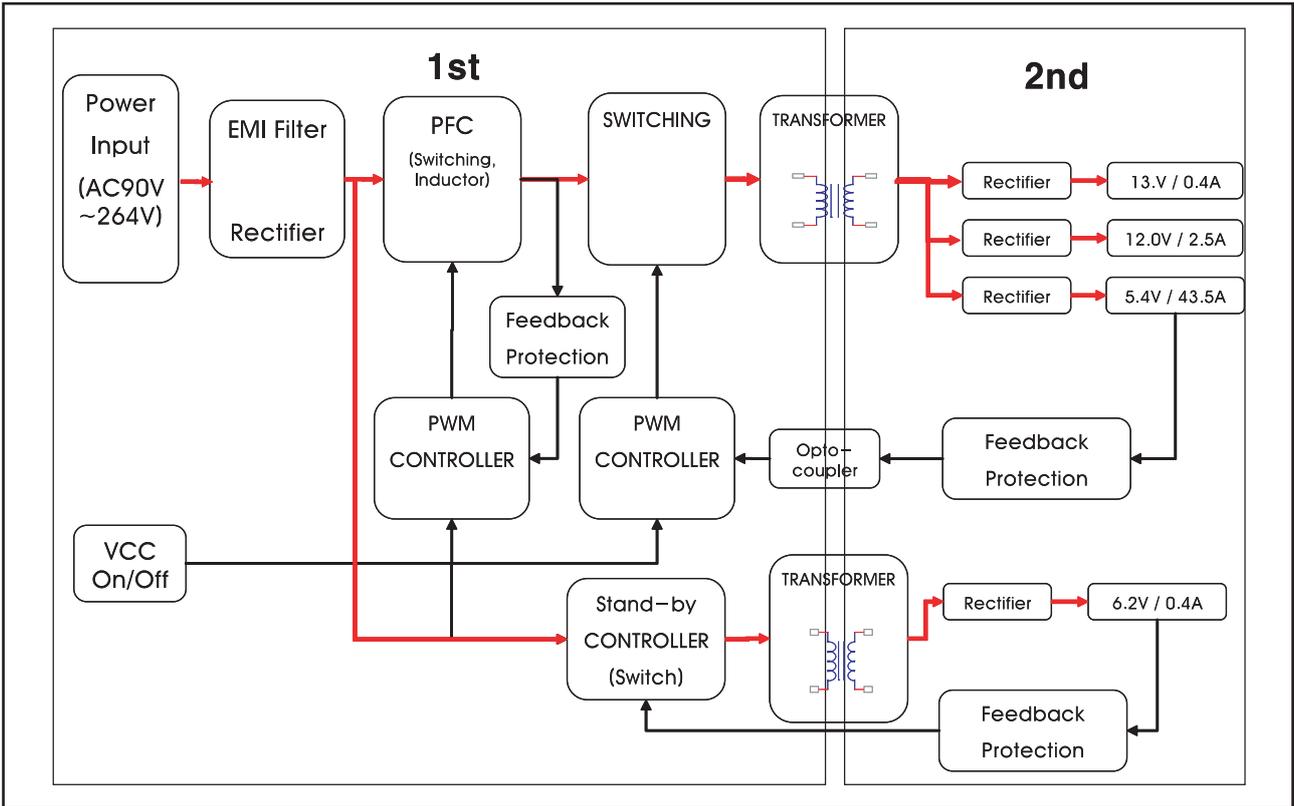
1. Main board : Video signal processing
2. IP board : Power supply & Inverter
3. T-con board : LCD Panel control



Mosel consists of three main blocks

1. Main board : Video signal processing
2. SMPS : Power supply
3. T-con board : LCD Panel control

13-3 IP Board



11 Disassembly and Reassembly

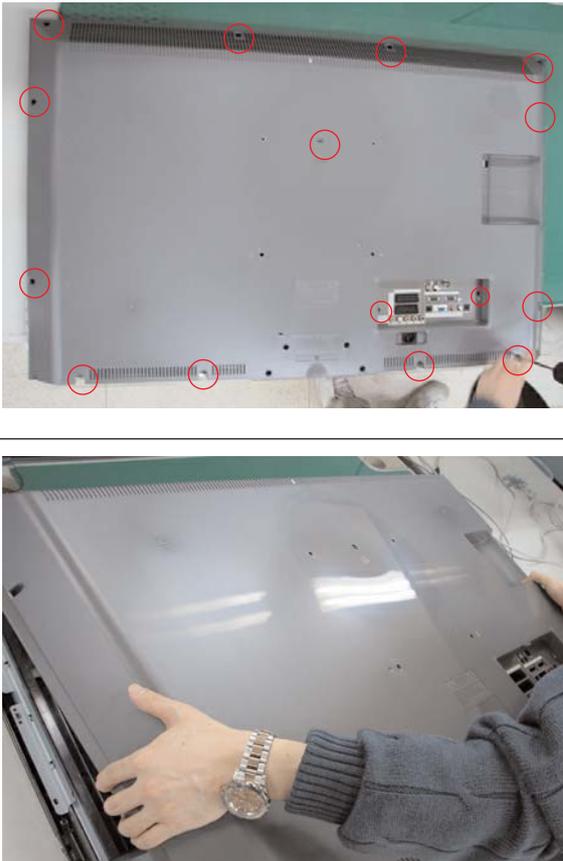
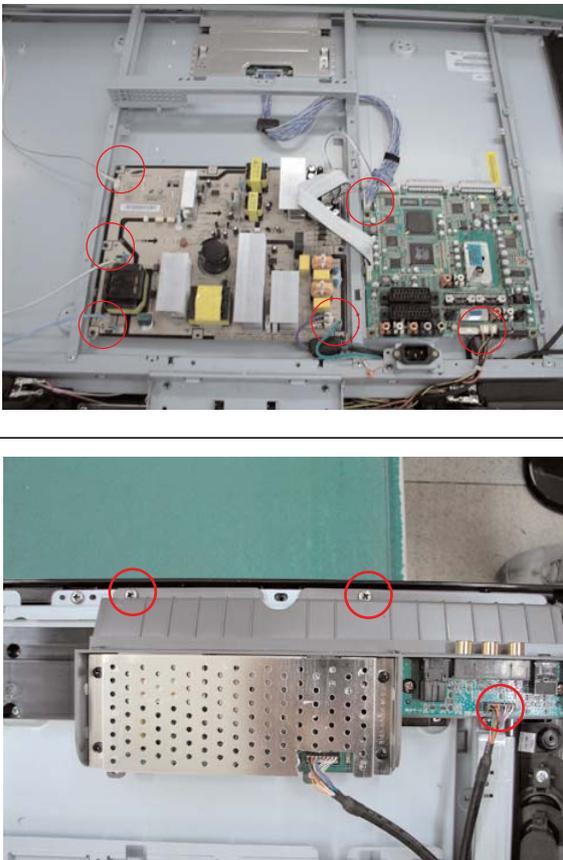
This section of the service manual describes the disassembly and reassembly procedures for the TFT-LCD TV.

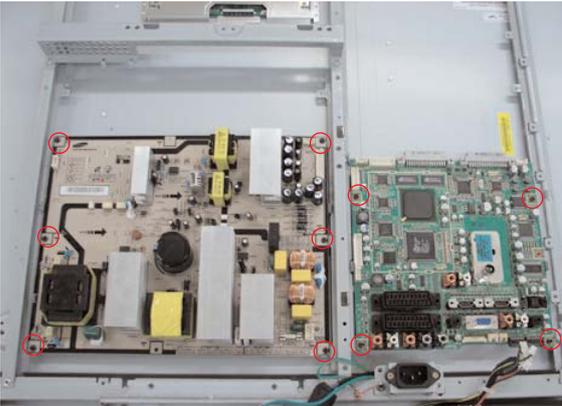
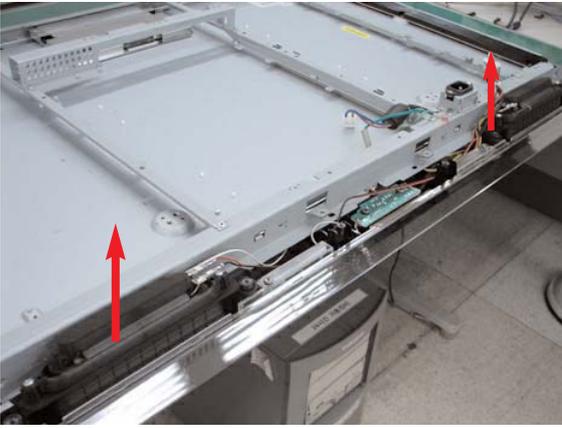
⚠ WARNING : This monitor contains electrostatically sensitive devices. Use caution when handling these components.

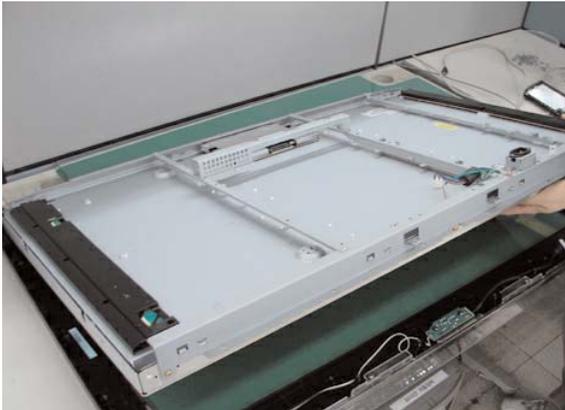
11-1 Disassembly (LE40F71BX)

⚠ Cautions : 1. Disconnect the monitor from the power source before disassembly.
2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.

Description	Picture Description
<p>1. Place monitor face down on cushioned table. Remove screws from the Stand. Remove stand.</p>	

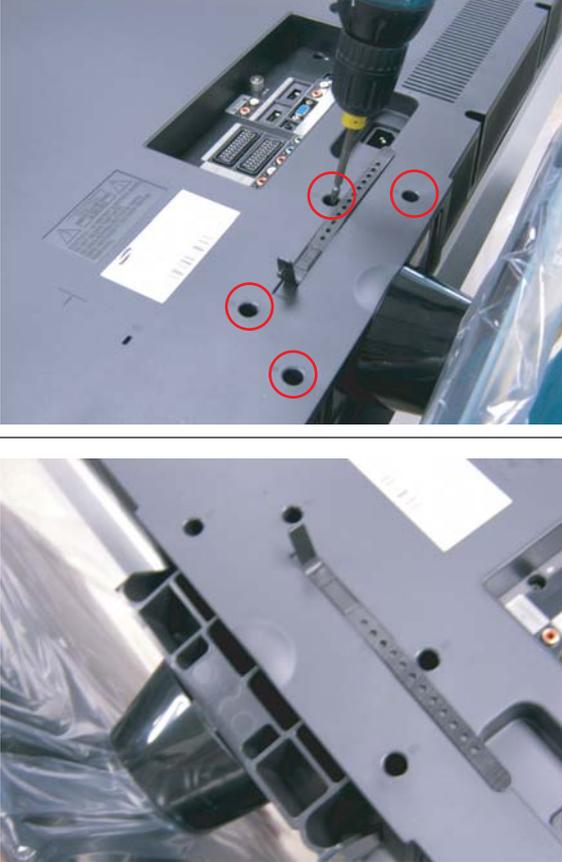
Description	Picture Description
<p>2. Remove screws from the rear-cover and lift up the rear-cover.</p>	
<p>3. Disconnct cables from the main and power boards Remove screws from the side AV jack.</p>	

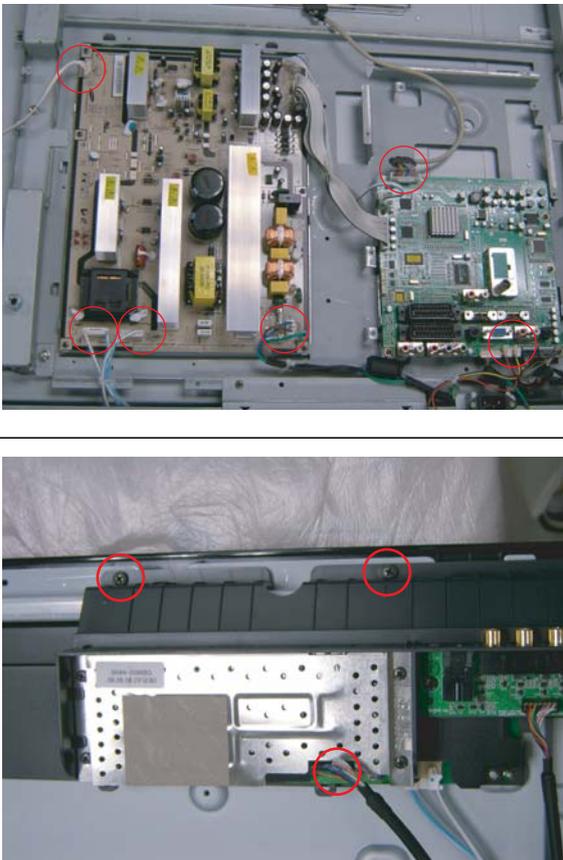
Description	Picture Description
<p>4. Remove screws from the boards and stand BRKT.</p>	 
<p>5. Lift up the speakers. Remove screws from the BRKT.</p>	 

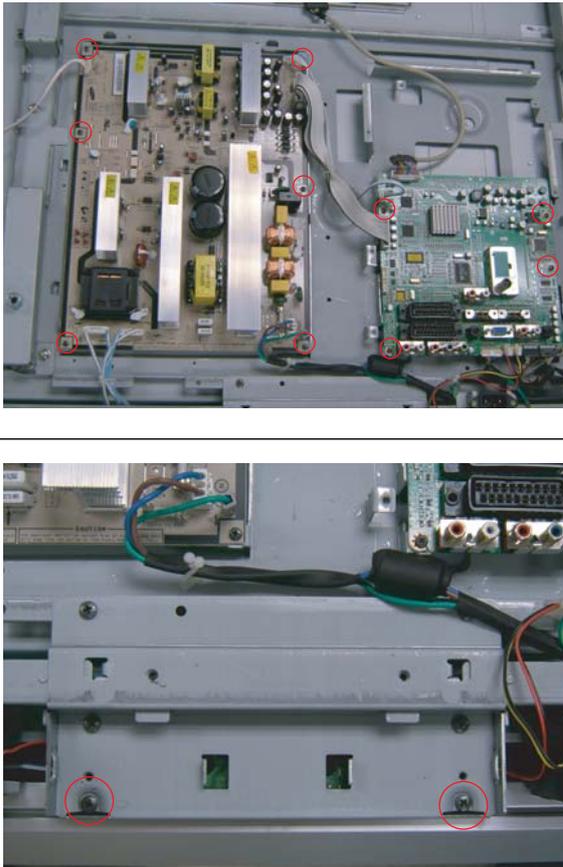
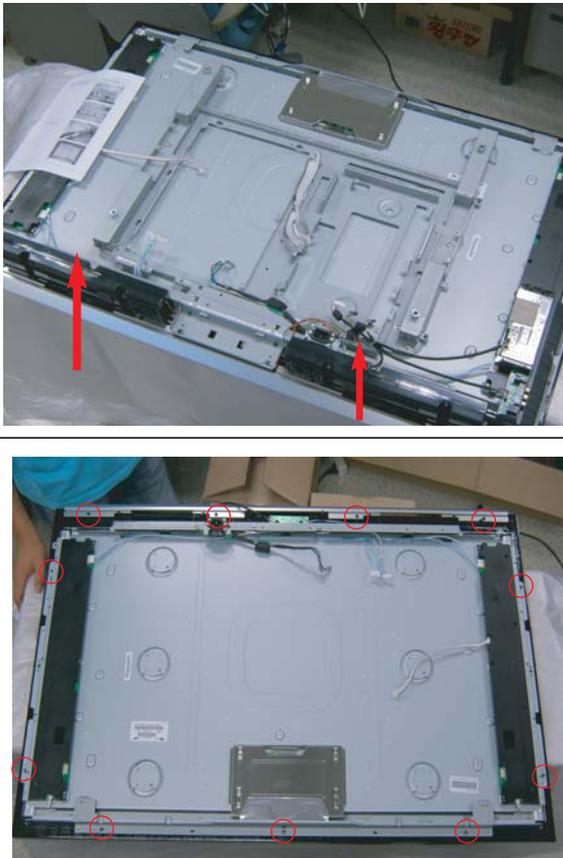
Description	Picture Description
<p>6. Lift up the Panel and remove screws.</p>	 
<p>7. Lift up the panel BRKT.</p>	 

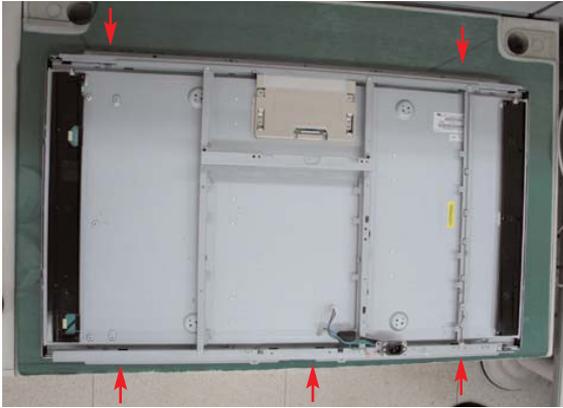
11-2 Disassembly (LE46F71BX)

- ⚠ **Cautions :** 1. Disconnect the monitor from the power source before disassembly.
2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.

Description	Picture Description
<p>1. Place monitor face down on cushioned table. Remove screws from the Stand. Remove stand.</p>	

Description	Picture Description
<p>2. Remove screws from the rear-cover and lift up the rear-cover.</p>	
<p>3. Disconnet cables from the main and power boards Remove screws from the side AV jack.</p>	

Description	Picture Description
<p>4. Remove screws from the boards and stand BRKT.</p>	 <p>The top photograph shows the internal components of a device, including a circuit board with various electronic components and a metal bracket. Several screws are circled in red, indicating the locations to be removed. The bottom photograph shows a close-up of the metal bracket, with two screws circled in red, indicating the locations to be removed.</p>
<p>5. Lift up the speakers. Remove screws from the BRKT.</p>	 <p>The top photograph shows the internal components of a device, with two red arrows pointing to the speaker area. The bottom photograph shows the internal components of a device, with several screws circled in red, indicating the locations to be removed.</p>

Description	Picture Description
<p>6. Lift up the Panel and remove screws.</p>	 
<p>7. Lift up the panel BRKT.</p>	 

11-3 Reassembly

Reassembly procedures are in the reverse order of disassembly procedures.

Memo

6 Electrical Parts List

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

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

6-1 LE40F71B Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
0		LE40F71BX/XEH	LE40F71B,Q56B/40F70-GFM,40,LCD-TV,HUNGAR	0	
0.1	M0001	BN90-00935G	ASSY COVER FRONT;40F71,EO,ABS+PMMA,HB,BK	1	S.N.A
..2	T0175	BN96-03271A	ASSY SPEAKER P;8ohm,Mosel 32,Left,10W,BA	1	S.A
..2	T0175	BN96-03272A	ASSY SPEAKER P;8ohm,Mosel 32,Right,10W,B	1	S.A
..2	T0003	BN96-03412F	ASSY COVER P-FRONT;40F71,EO,-,ABS+PMMA,H	1	S.A
...3	M0081	6003-001003	SCREW-TAPTITE;BH,+,B,M4,L12,ZPC(BLK),SWR	4	S.N.A
...3	M0081	6003-001003	SCREW-TAPTITE;BH,+,B,M4,L12,ZPC(BLK),SWR	2	S.N.A
...3	M0081	6003-001003	SCREW-TAPTITE;BH,+,B,M4,L12,ZPC(BLK),SWR	2	S.N.A
...3	T0060	BN61-01655A	SPRING ETC;STS-304 SUS,D8,L12,T0.5	1	S.N.A
...3		BN61-02667A	HOLDER-BOSS;MOSEL 40,ABS,VO, TOP	2	S.N.A
...3		BN61-02670A	HOLDER-BOSS;MOSEL 40,ABS,VO,BOTTOM,LEFT	1	S.N.A
...3		BN61-02671A	HOLDER-BOSS;MOSEL 40,ABS,VO,BOTTOM,RIGHT	1	S.N.A
...3		BN61-02771A	BOSS-BOND;MOSEL,ABS+PMMA,NATURAL,BOND	14	S.N.A
...3	CCM1	BN63-02183G	COVER-SHEET;Rhcm,PE Vinyl,T0.05,1100mm,2	1.983	S.N.A
...3	M0112	BN63-02488F	COVER-FRONT;40F71,EO,ABS+PMMA,-,-,HB,-	1	S.N.A
...3	T0023	BN64-00342A	KNOB POWER;ROME,40,PC,VIOLET	1	S.N.A
...3	T0054	BN64-00443A	KNOB-DECORATION;32R71,ABS,HB,GR503,VACUU	1	S.N.A
...3	T0061	BN64-00453A	WINDOW-REMOCON;32R71,PC,V0,VIOLET,DIFFUS	1	S.N.A
...3	T0022	BN64-00467A	KNOB CONTROL;SONOMA26,32,40,ABS,-,-,V0	1	S.N.A
...3	M0145	BN96-03466B	ASSY BOARD P-FUNCTION;LE40M71BX,CT5000-4	1	S.A
...3	T0056	BN63-02831A	COVER-DECORATION;40" MOSEL,AL,Extruding	1	S.N.A
...3	T0059	BN64-00366A	INDICATOR LED;ROME-I,PC,CLEAR,ALL MODEL	1	S.N.A
...3	M2893	BN39-00609A	LEAD CONNECTOR;VE20EO,UL1015#22 BLACK,1P	1	S.A
...3	M0020	BN96-04015C	ASSY BOARD P;LE40M91BX,CT5000-4330C,POWE	1	S.A
0.1	M0002	BN90-00938A	ASSY COVER REAR;40M70,EO,HIPS,HB,BK500	1	S.N.A
..2	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	2	S.A
..2	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	1	S.A
..2	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	14	S.A
..2	M0013	BN96-03415A	ASSY COVER P-REAR;40M71,EO,HIPS,HB,BK500	1	S.A
...3	M0006	BN63-02489A	COVER-REAR;40M71,EO,HIPS,-,-,HB,-,BK50	1	S.N.A
...3	T0071	BN64-00481A	INLAY-TERMINAL;MOSEL,40,EO,PS SHEET,T0.5	1	S.N.A
...3	T0064	BN65-00002A	CLAMPER CORE;BORDEAUX,PP,V0,BLK	1	S.N.A
...3	T0069	AA63-60122K	SPACER-FELT;SPD-42P3S,FELT,L60,D20,T0.35	4	S.N.A
...3	M0081	6003-001003	SCREW-TAPTITE;BH,+,B,M4,L12,ZPC(BLK),SWR	2	S.N.A
...3		BN61-02776A	HOLDER-WALL;32R7,ABS,HB,BLK	1	S.N.A
...3	T0069	AA60-00091G	SPACER-FELT;-FELT,200X10,-,-,BLK,T0.5,-	2	S.N.A
0.1	M0216	BN90-01023A	ASSY STAND;MOSEL-2,40,ABS+PMMA,HB,BK23,H	1	S.N.A
..2	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	4	S.A
..2	M0013	BN96-03989A	ASSY STAND P-BASE;MOSEL-2,40,ABS+PMMA,HB	1	S.A
...3	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	4	S.A
...3	M0081	6003-001239	SCREW-TAPTITE;FH,+,B,M4,L10,ZPC(YEL),SWR	6	S.A
...3		BN61-02247A	HOLDER-SWIVEL RING;40R71,ACETAL,BLK	1	S.N.A
...3		BN61-02248A	HOLDER-SWIVEL RING;40R71,ACETAL NATUAL,T	1	S.N.A
...3		BN61-02249A	HOLDER-SWIVEL RING;40R71,ACETAL NATUAL,B	1	S.N.A
...3		BN61-02260A	BRACKET-HINGE SWIVEL;BORDEAUX 40,SGHC,T3	1	S.N.A
...3	T0920	BN61-02410A	GUIDE-STAND;MOSEL,40,ABS,V0,-,-,BK07,-	1	S.N.A
...4	T0514	BN61-02368A	BRACKET-SUPPORT;BORDEAUX 40,SECC,T1.2	2	S.N.A
...3	MP1.4	BN61-02663A	BRACKET-BOTTOM;MOSEL2 40,SGHC,T3.0	1	S.N.A
...3		BN63-02495A	COVER-STAND SUB;40M70,ABS+PMMA,HB,BK23,H	1	S.N.A
...3	T0004	BN63-02761A	COVER-STAND BASE;MOSEL2 40,ABS+PMMA,HB,B	1	S.N.A
...3	T0132	BN73-00052A	RUBBER FOOT;ARES 17,SILICON,DIA 17 * T1.	6	S.N.A
...3	CCM1	BN63-02183E	COVER-SHEET;Rhcm,PE Vinyl,T0.05,750mm,20	0.5	S.N.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
0.1	T0852	BN91-01058Q	ASSY LCD-SPZ;LNS4096DX/XAA	1	S.N.A
..2	M0215	BN07-00288A	LCD-PANEL;LTA400HS-LH1,8bit,952*551*51.0	1	S.A
0.1	M0112	BN91-01172A	ASSY SHIELD;LE40F71BX/XEC	1	S.N.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	1	S.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	6	S.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	5	S.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	4	S.A
..2	T0076	BN39-00615D	CBF HARNESS;BORDEAUX,1617#22,3P,1P,RING,	1	S.A
..2	M2893	BN39-00716B	LEAD CONNECTOR;LE40R71BX/XEC,UL3239#24,2	1	S.A
..2	M2893	BN39-00717A	LEAD CONNECTOR;LE32R71BX/XEC,UL3443#28,5	1	S.A
..2	M2893	BN39-00741A	LEAD CONNECTOR;LE40M71BX,UL1007#26,UL/CS	1	S.A
..2	M0174	BN44-00140A	IP BOARD;PSIV280601A,40" MOSEL,44mA,86m	1	S.A
..2	M0115	BN61-02414A	BRACKET-STAND LINK;MOSEL 40",SECC,T1.6	1	S.N.A
..2	M0114	BN61-02500A	HOLDER-WIRE;NYLON6.6,NATURAL	2	S.N.A
..2	T0447	BN96-03421A	ASSY BRACKET P-PANEL;40M7,EO,MOSEL	1	S.N.A
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	1	S.A
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	2	S.A
...3	M0146	BN61-02251A	BRACKET-PANEL TOP;Bordeaux 40,SECC,T1.2	1	S.N.A
...3		BN61-02252A	BRACKET-PANEL BOTTOM;Bordeaux 40,SECC,T1	1	S.N.A
...3		BN61-02253A	BRACKET-GUIDE MAIN;Bordeaux 40,SECC,T1.2	1	S.N.A
...3		BN61-02254A	BRACKET-GUIDE POWER;Bordeaux 40,SECC,T1.	1	S.N.A
...3		BN61-02255A	BRACKET-GUIDE POWER;Bordeaux 40,SECC,T1.	1	S.N.A
...3	T0101	BN61-02438A	BRACKET-WALL;MOSEL 40,SECC T1.6	1	S.N.A
...3	M0131	BN63-02549A	GASKET;LE37R72B,Conductive Fabric,26mm,1	3	S.N.A
...3	M0131	BN63-02712A	GASKET;LE40M71BX,Conductive Fabric,8mm,1	1	S.N.A
...3	T0069	AA60-00091J	SPACER-FELT;-FELT,330X10,-,-,BLK,T0.5,-	1	S.N.A
...3	M0131	BN63-02628A	GASKET;Oxford,Conductive Fabric,8,12,300	1	S.N.A
...3	T0514	BN61-02778A	BRACKET-SUPPORT;40M7,SECC T1.2	1	S.N.A
..2	M0059	BN96-03431A	ASSY BOARD P-HOLDER AV;40M71,EO,CT5000-4	1	S.N.A
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	2	S.A
...3	T0578	BN64-00454A	INLAY AV;BORDEAUX,PS SHEET,T0.3,-,-,BLAC	1	S.N.A
...3		BN64-00484A	INLAY-MMS;MOSEL,40,PS SHEET,T0.3,-,-,-,-	1	S.N.A
...3	M0020	BN96-02439B	ASSY BOARD P-SIDE AV;LE40M71BX,CT5000-36	1	S.N.A
...3		BN61-02411B	HOLDER-SIDE AV;MOSEL,40,HIPS,HB,BK500	1	S.N.A
..2	M2893	BN39-00727D	LEAD CONNECTOR;LE40F71BX,UL1571#30,UL/CS	1	S.A
..2	M2893	BP39-00177B	LEAD CONNECTOR;RE40**,UL1007#26,5P,150mm	1	S.A
..2	M0146	BN61-02256A	BRACKET-PANEL SIDE;BORDEAUX 40,SECC,T1.2	1	S.N.A
..2	M0146	BN61-02257A	BRACKET-PANEL SIDE;BORDEAUX 40,SECC,T1.2	1	S.N.A
..2	M0081	6003-000337	SCREW-TAPTITE;BH,+,S,M4,L10,ZPC(BLK),SWR	5	S.A
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,YEL,SWRCH18A	2	S.N.A
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,YEL,SWRCH18A	9	S.N.A
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,YEL,SWRCH18A	2	S.N.A
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,YEL,SWRCH18A	2	S.N.A
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,YEL,SWRCH18A	1	S.N.A
..2	M0081	6003-001439	SCREW-TAPTITE;BH,+,S,M4,L8,ZPC(YEL)	1	S.N.A
..2	M2893	BN39-00725E	LEAD CONNECTOR;LE40F71BX,UL2835#28,UL/CS	1	S.A
0.1	M0017	BN91-01185A	ASSY CHASSIS;LE40F71BX/*	1	S.N.A
..2	T0862	BN94-00868G	ASSY PCB MISC-MMS;MOSEL,NEO MOSEL ALL	1	S.N.A
...3	T0245	0202-001492	SOLDER-WIRE FLUX;HSE-02 LFM48 SR-34 S,-,	0.003	S.N.A
...3	CN330	3711-003340	HEADER-BOARD TO CABLE;BOX,16P,2R,2mm,STR	1	S.A
...3	CN5	3722-001051	JACK-USB;4P/1C,AU,BLK,ANGLE,A TYPE	1	S.A
...3	SUB06	BN63-02530A	SHIELD-MMS;MOSEL,SPTA T0.2,-,-,-,-,-	1	S.N.A
...3	T0174	BN97-00842J	ASSY SMD;LE26R73BDX/XET	1	S.N.A
...4	SUB05	0202-001477	SOLDER-CREAM;LST309-M,-,-,D20-45\$,-.96.5Sn/	5.347	S.N.A
...4	D1	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D10	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D11	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D12	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	D13	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D14	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D15	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D16	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D17	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D18	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D19	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D2	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D20	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D21	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D4	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D5	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D6	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D7	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D8	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D9	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	Q1	0505-001217	FET-GAAS;FDN338P,-20V,+8V,-1.6A,500mW,S	1	SA
...4	Q2	0505-001217	FET-GAAS;FDN338P,-20V,+8V,-1.6A,500mW,S	1	SA
...4	Q3	0505-001217	FET-GAAS;FDN338P,-20V,+8V,-1.6A,500mW,S	1	SA
...4	Q4	0505-001217	FET-GAAS;FDN338P,-20V,+8V,-1.6A,500mW,S	1	SA
...4	Q5	0505-001217	FET-GAAS;FDN338P,-20V,+8V,-1.6A,500mW,S	1	SA
...4	Q6	0505-001217	FET-GAAS;FDN338P,-20V,+8V,-1.6A,500mW,S	1	SA
...4	L0405	0601-001313	LED;SMD,GRN,2X1.8MM,565NM,3.16X1.6X1.1MM	1	SA
...4	IC6	1203-001211	IC-VOL. DETECTOR;7027,SOT-89,3P,-,PLASTI	1	SA
...4	T0087	1203-002842	IC-POSI.FIXED REG.;AP1117D-33A,TO-252,3P	1	SA
...4	T0087	1203-002842	IC-POSI.FIXED REG.;AP1117D-33A,TO-252,3P	1	SA
...4	T0087	1203-002842	IC-POSI.FIXED REG.;AP1117D-33A,TO-252,3P	1	SA
...4	T0087	1203-002974	IC-POSI.FIXED REG.;AP1117D-25A,TO-252,3P	1	SA
...4	IC1	1204-002585	IC-DECODER;MP612,LFBGA,256P,17x17mm,PLAS	1	SA
...4	IC2	1205-002713	IC-CODEC;ALC202A,LQFP,48P,7X7MM,PLASTIC,	1	SA
...4	R11	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	SA
...4	R12	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	SA
...4	R120	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R138	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R148	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R149	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R150	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R163	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R164	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R165	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R166	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R167	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R168	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R19	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R32	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R33	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R35	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R36	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R10	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
...4	R9	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
...4	R107	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
...4	R108	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
...4	R109	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
...4	R110	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
...4	R111	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
...4	R112	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	SA
...4	R113	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	SA
...4	R1	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
...4	R117	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
...4	R140	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
...4	R146	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	R49	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R50	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R51	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R52	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R53	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R54	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R55	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R56	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R57	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R58	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R59	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R60	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R61	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R62	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R63	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R106	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	1	SA
...4	R114	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R48	2007-000475	R-CHIP;1Mohm,1%,1/10W,TP,1608	1	SA
...4	R151	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R152	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R153	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R13	2007-007526	R-CHIP;23.7Kohm,1%,1/10W,TP,1608	1	SA
...4	R39	2007-007947	R-CHIP;36ohm,1%,1/10W,TP,1608	1	SA
...4	R40	2007-007947	R-CHIP;36ohm,1%,1/10W,TP,1608	1	SA
...4	R105	2007-008595	R-CHIP;1.02Kohm,1%,1/10W,TP,1608	1	SA
...4	C106	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,C0G,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	C100	2203-000332	C-CER,CHIP;0.012nF,5%,50V,C0G,1608	1	SA
...4	C101	2203-000332	C-CER,CHIP;0.012nF,5%,50V,C0G,1608	1	SA
...4	C116	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
...4	C117	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
...4	C118	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
...4	C155	2203-000552	C-CER,CHIP;0.02nF,5%,50V,C0G,1608	1	SA
...4	C156	2203-000552	C-CER,CHIP;0.02nF,5%,50V,C0G,1608	1	SA
...4	C157	2203-000552	C-CER,CHIP;0.02nF,5%,50V,C0G,1608	1	SA
...4	C104	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	SA
...4	C105	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	SA
...4	C107	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	SA
...4	C108	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	SA
...4	C103	2203-001242	C-CER,CHIP;0.082nF,5%,50V,NP0,1608	1	SA
...4	C129	2203-001724	C-CER,CHIP;4700nF,+80-20%,16V,Y5V,3216	1	SA
...4	C123	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C124	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C125	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C126	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C127	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C128	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C135	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C136	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C137	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C138	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C139	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C140	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C141	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C142	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C143	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C144	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C145	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C146	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C160	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	C111	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	SA
...4	C112	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	SA
...4	C113	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	SA
...4	C10	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C11	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C119	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C120	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C147	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C148	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C149	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C150	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C151	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C152	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C153	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C154	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C161	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C172	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C173	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C174	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C175	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C21	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C22	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C23	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C24	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C25	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C26	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C27	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C28	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C29	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C3	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C30	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C31	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C32	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C33	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C34	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C35	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C36	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C37	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C38	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C39	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C4	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C40	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C41	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C42	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C43	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C5	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C8	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C9	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
...4	C122	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	SA
...4	C16	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	SA
...4	C162	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	SA
...4	C17	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	SA
...4	C19	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	SA
...4	C20	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	SA
...4	C163	2402-000209	C-AL,SMD;22uF,20%,16V,WT,TP,5.3x5.3mm	1	SA
...4	C7	2402-000209	C-AL,SMD;22uF,20%,16V,WT,TP,5.3x5.3mm	1	SA
...4	C133	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6.6x5.4	1	SA
...4	C134	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6.6x5.4	1	SA
...4	C1	2402-001059	C-AL,SMD;220UF,20%,6.3V,-,TP,6X6.6X6.6	1	SA
...4	C158	2402-001059	C-AL,SMD;220UF,20%,6.3V,-,TP,6X6.6X6.6	1	SA
...4	C159	2402-001059	C-AL,SMD;220UF,20%,6.3V,-,TP,6X6.6X6.6	1	SA

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	C2	2402-001059	C-AL,SMD;220UF,20%,6.3V,-,TP,6X6.6X6.6	1	S.A
...4	C6	2402-001059	C-AL,SMD;220UF,20%,6.3V,-,TP,6X6.6X6.6	1	S.A
...4	C166	2402-001222	C-AL,SMD;3.3UF,20%,50V,HR,TP,4.3X4.3X5.8	1	S.A
...4	X3	2801-003804	CRYSTAL-SMD;24.576MHz,30ppm,28-AAN,20pF,	1	S.A
...4	X1	2801-003948	CRYSTAL-SMD;12MHz,30ppm,28-AAN,12pF,60oh	1	S.A
...4	X2	2801-004355	CRYSTAL-SMD;13.5MHz,30ppm,28-AAN,20,40oh	1	S.A
...4	CN3	3709-001290	CONNECTOR-CARD SLOT;50P,1.27MM,SMD-A,AU1	1	S.A
...4	CN8	3709-001424	CONNECTOR-CARD SLOT;70pin,0.6,-,gold,car	1	S.A
...4	CN4	3722-002236	JACK-MINI USB;5P,AU30U,BLK,SMD-A,MINI US	1	S.A
...4	T0077	BN41-00746B	PCB MAIN;MOSEL,FR-4,6,1.0,1.6T,179*184,3	1	S.N.A
...4	M0018	BN97-01024A	ASSY MICOM;29LV320,T-MSLMPEUW-1008,2006/	1	S.A
...5	IC115	1107-001475	IC-FLASH MEMORY;29LV320,32MBIT,4MX8/2MX1	1	S.N.A
...4	T0087	1203-002844	IC-POSIFIXED REG.;AP1117D-18A,TO-252-3L	1	S.A
...4	D3	0403-001180	DIODE-ZENER;BZX84C6V2,5.8-6.6V,350mW,SOT	1	S.A
...4	IC113	1105-001571	IC-DRAM;K4D551638,GDDR,256Mbit,4x4Mx16,T	1	S.A
...3	T0069	AA63-60002W	SPACER-FELT;-,FELT,-,-,BLK,TO.5,-,30X1	1	S.N.A
...3	SUB09	AA63-01387A	GASKET-EMI,SPONGE;SP-P300M,Conductive Fa	1	S.N.A
..2	M0014	BN94-01088A	ASSY PCB MAIN;LE40F71BX*	1	S.A
...3	T0245	0202-001492	SOLDER-WIRE FLUX;HSE-02 LFM48 SR-34 S,-,	0.25	S.N.A
...3	JA302	3701-001294	CONNECTOR-DSUB;15P,3R,FEMALE,STRAIGHT,AU	1	S.A
...3	CN330	3711-002347	HEADER-BOARD TO CABLE;BOX,16P,2R,2MM,ANG	1	S.A
...3	CN330	3711-004484	HEADER-BOARD TO CABLE;BOX,5P,1R,2mm,STRA	1	S.A
...3	CN330	3711-004484	HEADER-BOARD TO CABLE;BOX,5P,1R,2mm,STRA	1	S.A
...3	CN330	3711-004484	HEADER-BOARD TO CABLE;BOX,5P,1R,2mm,STRA	1	S.A
...3	CN330	3711-004909	HEADER-BOARD TO CABLE;BOX,14P,2R,2MM,ANG	1	S.A
...3	CN330	3711-005606	HEADER-BOARD TO CABLE;BOX,30P,2R,2mm,STR	1	S.A
...3	CN330	3711-005607	HEADER-BOARD TO CABLE;BOX,32P,2R,2mm,STR	1	S.A
...3	JA200_EU	3722-000498	JACK-SCART;21P,-,SN,BLK,NO	1	S.A
...3	JA206_EU	3722-000498	JACK-SCART;21P,-,SN,BLK,NO	1	S.A
...3	JA330	3722-001061	JACK-PHONE;1P,3.6PI,AG,BLK,N	1	S.A
...3	JA330	3722-001061	JACK-PHONE;1P,3.6PI,AG,BLK,N	1	S.A
...3	JA333	3722-001903	JACK-PIN;2P,-,AU,WHT/RED,-	1	S.A
...3	JA333	3722-001903	JACK-PIN;2P,-,AU,WHT/RED,-	1	S.A
...3	JA333	3722-001903	JACK-PIN;2P,-,AU,WHT/RED,-	1	S.A
...3	JA333	3722-001938	JACK-PIN;3P,-,AU,GRN/BLU/RED,-	1	S.A
...3	T0562	6046-001013	STAND OFF;M3,L5,Ni PLT,SUM24L,#4-40	2	S.N.A
...3	CIS3	BN40-00078A	TUNER;TCLW3001PD32S(H),TCLW3001PD32S(H),	1	S.A
...3	T0174	BN97-01167A	ASSY SMD;LE40F71BX*	1	S.N.A
...4	SUB05	0202-001477	SOLDER-CREAM;LST309-M,-,D20-45\$,96.5Sn/	4.307	S.N.A
...4	D1100_ATV	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D208	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	D228	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D302	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D303	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D310	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D311	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D312	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D313	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D314	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D315	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	D319	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D320	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D321	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D322	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D323	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D324	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D325	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	D328	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D329	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D330	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D338	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D900	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D901	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D902	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D903	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D907	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D106	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	SA
...4	D107	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	SA
...4	D108	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	SA
...4	D110	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	SA
...4	D101	0402-000553	DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2	1	SA
...4	D103	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	SA
...4	D402	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	SA
...4	D450	0403-000614	DIODE-ZENER;RLZ5.6B,7.78-8.19V,500mW,LL	1	SA
...4	D304	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL	1	SA
...4	D305	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL	1	SA
...4	D306	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL	1	SA
...4	D307	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL	1	SA
...4	D326	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL	1	SA
...4	D327	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL	1	SA
...4	D333	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL	1	SA
...4	D334	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL	1	SA
...4	D335	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL	1	SA
...4	D336	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL	1	SA
...4	D337	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL	1	SA
...4	D403	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL	1	SA
...4	D405	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL	1	SA
...4	D620	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL	1	SA
...4	D300	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500mW,LL	1	SA
...4	D301	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500mW,LL	1	SA
...4	D1101_ATV	0403-001425	DIODE-ZENER;BZX84C33,31-35V,350mW,SOT-23	1	SA
...4	D200_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D201	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D202_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D203	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D204	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D205	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D206	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D207	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D213_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D214_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D219	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D220	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D221	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D222	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D223	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D224	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D225	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D226	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D227	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D229_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D230_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D233	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D234	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D308	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D309	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D331	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA
...4	D332	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	SA

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	D100	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D102	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D240	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D400	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D401	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D404_OP	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	Q108	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150MW,SOT-23	1	S.A
....4	Q230_EU	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150MW,SOT-23	1	S.A
....4	Q231	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150MW,SOT-23	1	S.A
....4	Q1100_ATV	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q113	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q116	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q117	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q119	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q120	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q232	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q233_EU	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q234_EU	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q235	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q236	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q300	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q301	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q400	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q402	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q403	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q404	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q501	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q111	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q118	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q220_EU	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q221_EU	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q903	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	0505-000110	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	0505-000110	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	IC104	0801-002095	IC-CMOS LOGIC;74LX245,TRANSCEIVER,TSSOP	1	S.A
....4	IC403	0903-001432	IC-MICROCOMPUTER;M30840SGP,16Bit,LQFP,10	1	S.N.A
....4	IC115	1001-000164	IC-ANALOG MULTIPLEX;74HC4052,CMOS,SOP,16	1	S.A
....4	IC117	1001-000164	IC-ANALOG MULTIPLEX;74HC4052,CMOS,SOP,16	1	S.A
....4	IC405	1001-001109	IC-ANALOG SWITCH;FST3125M,BUS SWITCH & C	1	S.A
....4	IC107	1002-001399	IC-D/A CONVERTER;PCM1754,24BIT,SSOP,16P,	1	S.A
....4	IC110	1006-001076	IC-DRIVER/RECEIVER;MAX232ECWE+T,SOP,16P,	1	S.A
....4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x	1	S.A
....4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x	1	S.A
....4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x	1	S.A
....4	IC112	1103-001279	IC-EEPROM;24C32,32Kbit,4Kx8Bit,SOP,8P,5x	1	S.A
....4	IC113	1105-001674	IC-DRAM;EM6A9320BI,-,128Mbit,4Mx32Bit,FB	1	S.A
....4	IC113	1105-001674	IC-DRAM;EM6A9320BI,-,128Mbit,4Mx32Bit,FB	1	S.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	1201-002246	IC-AUDIO AMP;STA323W,SO,36P,15.9x11mm,-,	1	S.A
....4	IC409	1203-001559	IC-RESET;DS1834A,SOIC,8P,150MIL,PLASTIC,	1	S.A
....4	IC503_OP	1203-001559	IC-RESET;DS1834A,SOIC,8P,150MIL,PLASTIC,	1	S.A
....4	T0087	1203-001815	IC-POSI.FIXED REG.;78M09,TO-252,3P,-,PLA	1	S.A
....4	T0087	1203-001816	IC-POSI.FIXED REG.;78M08,TO-252,3P,-,PLA	1	S.A
....4	IC113	1203-001824	IC-VOL. DETECTOR;7042,SOT-89,3P,-,PLASTI	1	S.A
....4	IC408_OP	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

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	T0087	1203-002855	IC-POSI.FIXED REG.;MC33269DTRK-5.0,DPRK,	1	SA
...4	T0087	1203-002974	IC-POSI.FIXED REG.;AP1117D-25A,TO-252,3P	1	SA
...4	T0087	1203-003060	IC-POSI.FIXED REG.;AP1084,TO-263,3P,9.97	1	SA
...4	IC107	1203-004379	IC-DC/DC CONVERTER;AP1530SA,SOP,8P,5x3.9	1	SA
...4	IC105	1204-002464	IC-AUDIO PROCESSOR;STV8257DSX,TQFP,80P,1	1	SA
...4	IC118	1204-002484	IC-VIDEO PROCESS;SVP-LX64-7164,BGA,564P,	1	S.N.A
...4	IC604	1205-002929	IC-RECEIVER;MST3386M-LF-170,PQFP,128P,20	1	SA
...4	R6008	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	SA
...4	R6009	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	SA
...4	R6010	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	SA
...4	R6011	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	SA
...4	R4071	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
...4	R4104	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
...4	R4105	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
...4	R4106	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
...4	R4107	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
...4	R4108	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
...4	R4109	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
...4	R4110	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
...4	R4111	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
...4	R4117	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
...4	R1006	2007-000060	R-CHIP;100Kohm,1%,1/10W,TP,1608	1	SA
...4	R937_ATV	2007-000060	R-CHIP;100Kohm,1%,1/10W,TP,1608	1	SA
...4	40_	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R1087	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R1100	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R1101	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R1102	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R1114	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R1115	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R2033	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R318	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R319	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R363	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R371	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R4000	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R4005	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R4013	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R4014	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R4015	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R4019	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R4020	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R4044	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R4045	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R4048	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R4101	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R4103	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R4112	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R4113	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R4500	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R5000	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R5002_OP	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R5004	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R5008	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R5009	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R5011	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R5014	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R5020	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R5034_OP	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R5035_OP	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
...4	R5084_OP	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA

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Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R310	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R317	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R340	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R342	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R4118	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R5015	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R6036	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R6037	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R6042	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R1108	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2121_EU	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2124_EU	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2208_EU	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2209_EU	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2210	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2211	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2250	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2251	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R305	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R307	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R336	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R337	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4034	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4039	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4050	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4051	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4114	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4120	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R5001_OP	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R5005	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R5017	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R5019	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R926_ATV	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1104	2007-000081	R-CHIP;2.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4032	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4033	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4053	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4056	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4092	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4093	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R5013	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R5016	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1020	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1021	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1079	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1086	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4002	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4007	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4008	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4021	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4022	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4024	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4029	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4031	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4058	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4089	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4090	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4091	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4095	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4096	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4097	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A

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Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	R4200	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
...4	R5012	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
...4	R5021	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
...4	R5090	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
...4	R5091	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
...4	R5095	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
...4	R5159	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
...4	R5305	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
...4	R5306	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
...4	R5307	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
...4	R5308	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
...4	R946	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
...4	R2011	2007-000087	R-CHIP;6.8Kohm,5%,1/10W,TP,1608	1	SA
...4	R2046	2007-000087	R-CHIP;6.8Kohm,5%,1/10W,TP,1608	1	SA
...4	R1091	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R1117	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R1118	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R1146	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R1147	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R1148	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R1149	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R1162	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R1163	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R1164	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R1165	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R2200	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R2201	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R300	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R301	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R302	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R303	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R313	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R314	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R346	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R347	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R367	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R378	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R4026	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R4027	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R4028	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R4047	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R4068	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R4098	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R4099	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R4119	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R6043	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R6044	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R6047	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
...4	R2120_EU	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	1	SA
...4	R2123_EU	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	1	SA
...4	R1093	2007-000093	R-CHIP;20Kohm,5%,1/10W,TP,1608	1	SA
...4	R1094	2007-000093	R-CHIP;20Kohm,5%,1/10W,TP,1608	1	SA
...4	R1201_ATV	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	SA
...4	R4023	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	SA
...4	R1009	2007-000096	R-CHIP;30Kohm,5%,1/10W,TP,1608	1	SA
...4	R2000_EU	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R2001_EU	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R2203	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R2204	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R308	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R309	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R4094	2007-00097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
....4	R5130_OP	2007-00097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
....4	R1089	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1092	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1095	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1116	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1122	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1123	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1124	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1125	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1126	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1127	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1128	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1129	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1138	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1139	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1140	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1141	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1142	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1143	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1144	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1145	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1150	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1151	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1152	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1153	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1154	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1155	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1156	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1157	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1158	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1159	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1160	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1161	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R1202_ATV	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R380	2007-000106	R-CHIP;220Kohm,5%,1/10W,TP,1608	1	SA
....4	R932	2007-000106	R-CHIP;220Kohm,5%,1/10W,TP,1608	1	SA
....4	R940_ATV	2007-000106	R-CHIP;220Kohm,5%,1/10W,TP,1608	1	SA
....4	R941_ATV	2007-000106	R-CHIP;220Kohm,5%,1/10W,TP,1608	1	SA
....4	R1096	2007-000107	R-CHIP;470Kohm,5%,1/10W,TP,1608	1	SA
....4	R6041	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA
....4	R1072	2007-000119	R-CHIP;560ohm,5%,1/10W,TP,1608	1	SA
....4	R943	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	SA
....4	R944	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	SA
....4	R945	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	SA
....4	R1080	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	SA
....4	R1105	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	SA
....4	R4116	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	SA
....4	R1110	2007-000125	R-CHIP;3.9Kohm,5%,1/10W,TP,1608	1	SA
....4	R2122_EU	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	SA
....4	R2125_EU	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	SA
....4	R1010	2007-000219	R-CHIP;1.2Kohm,1%,1/10W,TP,1608	1	SA
....4	R1007	2007-000239	R-CHIP;1.5Kohm,1%,1/10W,TP,1608	1	SA
....4	R2006	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
....4	R2012_EU	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
....4	R2031	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
....4	R2042	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
....4	R2045_EU	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
....4	R2052	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
....4	R2055	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
....4	R2059	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	R320	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R321	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R322	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R323	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R324	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R325	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R326	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R327	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R328	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R329	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R330	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R331	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R332	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R333	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R334	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R335	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4046	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4052	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4054_1M	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4055_1M	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4066	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4072	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4074	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4075	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4076	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4077	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4078	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4080	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4081	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4082	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4083	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4084	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4085	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4086	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4087	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4088	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R6038	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R6039	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R6040	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R6045	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R6046	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R6048	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R2008	2007-000458	R-CHIP;18Kohm,5%,1/10W,TP,1608	1	SA
...4	R2043_OP	2007-000458	R-CHIP;18Kohm,5%,1/10W,TP,1608	1	SA
...4	R4017	2007-000704	R-CHIP;3.6Kohm,5%,1/10W,TP,1608	1	SA
...4	R4030	2007-000704	R-CHIP;3.6Kohm,5%,1/10W,TP,1608	1	SA
...4	R1008	2007-000857	R-CHIP;4.3Kohm,1%,1/10W,TP,1608	1	SA
...4	R2007	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
...4	R2009	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
...4	R2010	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
...4	R2030	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
...4	R2032	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
...4	R2034	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
...4	R2053	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
...4	R2054	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
...4	R2056	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
...4	R2060	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
...4	R2061	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
...4	R6030	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	SA
...4	R6031	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	SA
...4	R6032	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	SA

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	R6033	2007-001014	R-CHIP;510HM,5%,1/10W,TP,1608	1	SA
...4	R2017_EU	2007-001101	R-CHIP;62ohm,5%,1/10W,TP,1608	1	SA
...4	R2044_EU	2007-001101	R-CHIP;62ohm,5%,1/10W,TP,1608	1	SA
...4	R2013_EU	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
...4	R2014	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
...4	R2015	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
...4	R2016	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
...4	R2018_EU	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
...4	R2035	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
...4	R2036	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
...4	R2037	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
...4	R2047_EU	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
...4	R311	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
...4	R312	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
...4	R315	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
...4	R316	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
...4	R939_ATV	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
...4	R338	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R339	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R341	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R343	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R344	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R345	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R362	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R364	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R397_MMS	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R398_MMS	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R399_MMS	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R5190	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R5191	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R5192	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R5193	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R5194	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R5195	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R5230	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R1097	2007-008720	R-CHIP;4.7ohm,1%,1/4W,TP,3216	1	SA
...4	R1103	2007-008720	R-CHIP;4.7ohm,1%,1/4W,TP,3216	1	SA
...4	R1109	2007-008720	R-CHIP;4.7ohm,1%,1/4W,TP,3216	1	SA
...4	R1113	2007-008720	R-CHIP;4.7ohm,1%,1/4W,TP,3216	1	SA
...4	RA480	2011-000515	R-NET;4.7Kohm,5%,1/16W,L,CHIP,8P,TP,3.2x	1	SA
...4	RA481	2011-000515	R-NET;4.7Kohm,5%,1/16W,L,CHIP,8P,TP,3.2x	1	SA
...4	RA618	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA619	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA620	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA621	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA622	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA623	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA624	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA403	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA404	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA406	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA407	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA408	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA410	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA520	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA521	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA522	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA510	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
...4	RA511	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
...4	RA512	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
...4	RA513	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	RA514	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA515	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA516	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA517	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA518	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA519	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA600	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA601	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA602	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA603	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA604	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA605	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA606	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA607	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA608	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA609	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA610	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA611	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA614	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA615	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA616	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA617	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
...4	RA400	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA401	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA402	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA405	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA409	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA411	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA412	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA413	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA414	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA415	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA416	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA417	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA418	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	RA419	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
...4	C1180	2203-000125	C-CER,CHIP;1.2nF,10%,50V,X7R,TP,1608,-	1	SA
...4	C1083	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	SA
...4	C1095	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	SA
...4	C1000	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1006	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1008	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1010	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1013	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1015	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1026	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1031	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1037	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1039	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1042	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1045	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1087	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1097	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1098	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1100	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1101	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1110	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1119	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1122	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1131	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1139	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	C5096	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C5099	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C5100	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C5102	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C5104	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C5106	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C5107	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C5108	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C5109	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C5110	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C5111	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C5112	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C5116	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C5117	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C6050	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C6051	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C6052	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C6053	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C947	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C950_ATV	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
...4	C1088	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C1153	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C1154	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C1178	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C1179	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C1181	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C200	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C201_EU	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C202	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C203_EU	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C210	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C211	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C212	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C213	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C214	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C215	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C280_EU	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C282_EU	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C317	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C318	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C319	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C320	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C424	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C425	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C941_ATV	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C942_ATV	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C1001	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C1007	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C1009	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C1014	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C1027	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C1029	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C1090	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C1302_ATV	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C1304_ATV	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C1305_ATV	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C436	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C5118	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C6001	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C6002	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C6003	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C6004	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C6009	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C6010	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C6011	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C6012	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C6013	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C6014	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C6026	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C6028	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C6054	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C6055	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C943	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C952	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C953	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C956	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C406	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C407	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C412	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C426	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C427	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C430	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C1307_ATV	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,1608	1	SA
....4	C5079	2203-000531	C-CER,CHIP;2.7nF,10%,50V,X7R,1608	1	SA
....4	C5086	2203-000531	C-CER,CHIP;2.7nF,10%,50V,X7R,1608	1	SA
....4	C5025	2203-000552	C-CER,CHIP;0.02nF,5%,50V,C0G,1608	1	SA
....4	C5036	2203-000552	C-CER,CHIP;0.02nF,5%,50V,C0G,1608	1	SA
....4	C1113	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	SA
....4	C1116	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	SA
....4	C413	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	SA
....4	C414	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	SA
....4	C431	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	SA
....4	C432	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	SA
....4	C6082	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	SA
....4	C6083	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	SA
....4	C1157	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C1168	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C281_EU	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C304	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C305	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C310	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C311	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C1133	2203-000798	C-CER,CHIP;33nF,10%,16V,X7R,TP,1608,-	1	SA
....4	C1134	2203-000798	C-CER,CHIP;33nF,10%,16V,X7R,TP,1608,-	1	SA
....4	C207_EU	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	SA
....4	C208_EU	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	SA
....4	C209_EU	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	SA
....4	C1147	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C1148	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C1172	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C1308_ATV	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C6017	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C6018	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C6019	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C6020	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C1099	2203-000972	C-CER,CHIP;47nF,10%,16V,X7R,1608	1	SA
....4	C1303_ATV	2203-000972	C-CER,CHIP;47nF,10%,16V,X7R,1608	1	SA
....4	C204_EU	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	SA
....4	C216_EU	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	SA
....4	C954	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	SA
....4	C1092	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA
....4	C8092	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	C8093	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA
...4	C8094	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA
...4	C8095	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA
...4	C8096	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA
...4	C8097	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA
...4	C8098	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA
...4	C8099	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA
...4	C8100	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA
...4	C8101	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA
...4	C8102	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA
...4	C8103	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA
...4	C8104	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA
...4	C8105	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA
...4	C8106	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA
...4	C8107	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA
...4	C1182	2203-001607	C-CER,CHIP;0.22nF,5%,50V,NP0,1608	1	SA
...4	C1306_ATV	2203-001607	C-CER,CHIP;0.22nF,5%,50V,NP0,1608	1	SA
...4	C1143	2203-001652	C-CER,CHIP;470nF,+80-20%,16V,Y5V,1608	1	SA
...4	C1145	2203-001652	C-CER,CHIP;470nF,+80-20%,16V,Y5V,1608	1	SA
...4	C1084	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA
...4	C1094	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA
...4	C1146	2203-001724	C-CER,CHIP;4700nF,+80-20%,16V,Y5V,3216	1	SA
...4	C5001	2203-001724	C-CER,CHIP;4700nF,+80-20%,16V,Y5V,3216	1	SA
...4	C1002	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1022	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1023	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1033	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1035	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1036	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1064	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1066	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1067	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1106	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1107	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1108	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1109	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1129	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1138	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1186	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1188	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1200	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1211	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1215	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C1218	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C325_MMS	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C402	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C408	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C415	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C416	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C418	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C420	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C421	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C422	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C423	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C428	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C433	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C5000	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C5005	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C6005	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C6006	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C6007	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA

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Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C6008	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C6021	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C6022	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C6025	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C6027	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C6063	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C6077	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C933_ATV	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C934_ATV	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C935_ATV	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C951	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1163	2203-005030	C-CER,CHIP;470nF,+80-20%,50V,Y5V,TP,3216	1	S.A
....4	C1171	2203-005030	C-CER,CHIP;470nF,+80-20%,50V,Y5V,TP,3216	1	S.A
....4	C1028	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C1173	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C1189	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C306	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C307	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C417	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C435	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C5115	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6056	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6057	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6058	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6059	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6060	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6061	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6065	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6066	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6067	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6068	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6069	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6070	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6071	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6073	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6075	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6078	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6079	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6080	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C6084	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C1152	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1155	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1158	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1159	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1160	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1164	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1165	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1166	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1167	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1169	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1170	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1174	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1175	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1176	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1184	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1038	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1086	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1089	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1091	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1093	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1103	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A

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Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C6064	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6072	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6074	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6076	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6081	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6085	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6090	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6091	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6092	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6093	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6094	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6095	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6096	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6097	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C931_ATV	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C932_ATV	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1021	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2m	1	S.A
....4	C1025	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2m	1	S.A
....4	C5006	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2m	1	S.A
....4	C5119	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2m	1	S.A
....4	C5130	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2m	1	S.A
....4	C1141	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6.6x5.4	1	S.A
....4	C1144	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6.6x5.4	1	S.A
....4	C1005	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A
....4	C1011	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A
....4	C1151	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A
....4	C1183	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A
....4	C1004	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1024	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1030	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1034	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1085	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1142	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1214	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C292	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C360_MMS	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1003	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1012	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1102	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1135	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C938_ATV	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C946	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1140	2402-001160	C-AL,SMD;330UF,20%,16V,WT,TP,1008	1	S.A
....4	C1032	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C1063	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C1065	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C1300_ATV	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C1187	2402-001218	C-AL,SMD;22UF,20%,35V,WT,TP,6.6X6.6X5.8M	1	S.A
....4	C1301_ATV	2402-001238	C-AL,SMD;1uF,20%,50V,HR,TP,4.3x4.3x5.2mm	1	S.A
....4	C1041	2402-001257	C-AL,SMD;470uF,20%,16V,-,TP,8.3*10	1	S.A
....4	C1043	2402-001257	C-AL,SMD;470uF,20%,16V,-,TP,8.3*10	1	S.A
....4	C8074	2402-001257	C-AL,SMD;470uF,20%,16V,-,TP,8.3*10	1	S.A
....4	T0052	2703-000274	INDUCTOR-SMD;2.2uH,10%,2012	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

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...3	T0268	3903-000145	CBF-POWER CORD;DT,EU,FP3/YES,U(IEC C13-R	1	S.A
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	2	S.N.A
...3	ACCESSORY	AA68-03242E	MANUAL FLYER-01,SAFETY GUIDE;All Model,S	1	S.N.A
...3	T0074	BN59-00530A	REMOCON;Mosel,TM87A,SAMSUNG,55key,38mArm	1	S.A
...3	ACCESSORY	BN63-01798A	CLOTH-CLEAN;RE40**,CLOTH,310,320,RHCM	1	S.N.A
...3	T0531	BN63-02491A	COVER-BOTTOM;MOSEL 40",HIPS,HB	1	S.N.A
...3	T0238	BN68-00514C	MANUAL FLYER-WARRANTY CARD;comm,Samsung,	1	S.N.A
...3	T0511	BN68-01047T	MANUAL USERS;COMM,SAMSUNG,8Langs,E.Europ	1	S.N.A
...3	ACCESSORY	BN69-00350A	BOX ACCESSORY-00;AL29NO/AO,CB SW-1,YEL,K	1	S.N.A
...3	ACCESSORY	AA68-03575H	MANUAL-02,REGISTRATION CARD;XEH,Hungaria	1	S.N.A

6 Electrical Parts List

6-2 LE46F71B Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
0		LE46F71BX/XEH	LE46F71B,Q56B/46F70-GFM,46,LCD-TV,HUNGAR	0	
0.1	M0001	BN90-00934F	ASSY COVER FRONT;46F71,EO,ABS+PMMA,HB,BK	1	S.N.A
..2	M0081	6006-001096	SCREW-TAPTITE;BH,+,WP,B,M4,0,L12,ZPC(BLK)	2	S.N.A
..2	T0003	BN96-03411G	ASSY COVER P-FRONT;46F71,EO,ABS+PMMA,HB,	1	S.A
...3	M0081	6003-001003	SCREW-TAPTITE;BH,+,B,M4,L12,ZPC(BLK),SWR	4	S.N.A
...3	M0081	6003-001003	SCREW-TAPTITE;BH,+,B,M4,L12,ZPC(BLK),SWR	2	S.N.A
...3	M0081	6003-001003	SCREW-TAPTITE;BH,+,B,M4,L12,ZPC(BLK),SWR	2	S.N.A
...3	M0162	6502-001067	CABLE CLAMP;DAFC-1300,ID2.2,T5.2,NYLIN6/	1	S.N.A
...3	M2893	BN39-00609A	LEAD CONNECTOR;VE20EO,UL1015#22 BLACK,1P	1	S.A
...3	T0060	BN61-01655A	SPRING ETC;STS-304 SUS,D8,L12,T0.5	1	S.N.A
...3		BN61-02666A	HOLDER-BOSS;MOSEL 46,ABS,VO, TOP	2	S.N.A
...3		BN61-02672A	HOLDER-BOSS;MOSEL 46,ABS,VO, BOTTOM,LEFT	1	S.N.A
...3		BN61-02673A	HOLDER-BOSS;MOSEL 46,ABS,VO, BOTTOM,RIGHT	1	S.N.A
...3		BN61-02771A	BOSS-BOND;MOSEL,ABS+PMMA,NATURAL,BOND	14	S.N.A
...3	CCM1	BN63-02183H	COVER-SHEET;RhcM,PE Vinyl,T0.05,1300mm,2	2.21	S.N.A
...3	M0112	BN63-02621G	COVER-FRONT;46F71,EO,ABS+PMMA,HB,BK23,S/	1	S.N.A
...3	T0056	BN63-02854A	COVER-DECORATION;46" MOSEL,AL, Extruding	1	S.N.A
...3	T0023	BN64-00342A	KNOB POWER;ROME,40,PC,VIOLET	1	S.N.A
...3	T0059	BN64-00366A	INDICATOR LED;ROME-I,PC,CLEAR,ALL MODEL	1	S.N.A
...3	T0054	BN64-00443A	KNOB-DECORATION;32R71,ABS,HB,GR503,VACUU	1	S.N.A
...3	T0061	BN64-00453A	WINDOW-REMOCON;32R71,PC,VO,VIOLET,DIFFUS	1	S.N.A
...3	T0022	BN64-00467A	KNOB CONTROL;SONOMA26,32,40,ABS,-,-,V0	1	S.N.A
...3	M0145	BN96-03466B	ASSY BOARD P-FUNCTION;LE40M71BX,CT5000-4	1	S.A
...3	M0146	BN96-04015B	ASSY BOARD P-POWER & IR;LNS4695DX,CT5000	1	S.A
..2	T0175	BN96-03593C	ASSY SPEAKER P;8ohm,Mosel 46inch,Right,1	1	S.A
..2	T0175	BN96-03591C	ASSY SPEAKER P;8ohm,Mosel 46inch,LEFT,10	1	S.A
0.1	M0002	BN90-00937C	ASSY COVER REAR;46N7,EO,HIPS,HB,BK500,NE	1	S.N.A
..2	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	2	S.A
..2	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	12	S.A
..2	M0013	BN96-04116A	ASSY COVER P-REAR;46M71,EO,HIPS,HB,BK500	1	S.A
...3	M0006	BN63-02622A	COVER-REAR;46M7 EO,HIPS HB,BK500	1	S.N.A
...3	T0071	BN64-00481A	INLAY-TERMINAL;MOSEL,40,EO,PS SHEET,T0.5	1	S.N.A
...3	T0064	BN65-00002A	CLAMPER CORE;BORDEAUX,PP,VO,BLK	1	S.N.A
...3	T0069	AA63-60122K	SPACER-FELT;SPD-42P3S,FELT,L60,D20,T0.35	2	S.N.A
..2	C/R+B/W	6011-001610	BOLT-ETC;M8,L18,ZPC(BLK),SWRCH18A,WSP,PH	4	S.N.A
0.1	M0216	BN90-01033A	ASSY STAND;MOSEL-2,46,-,ABS+PMMA,HB,BK23	1	S.N.A
..2	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	4	S.A
..2	M0013	BN96-04057A	ASSY STAND P-BASE;46M7,-,ABS+PMMA,HB,BK2	1	S.A
...3	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	7	S.A
...3	M0081	6003-001239	SCREW-TAPTITE;FH,+,B,M4,L10,ZPC(YEL),SWR	6	S.A
...3	T0920	BN61-02531A	GUIDE-STAND;46M7,ABS VO,-,-,BK07,-	1	S.N.A
....4	T0514	BN61-02537A	BRACKET-SUPPORT;46M7,SECC,T2.0	2	S.N.A
...3	T0010	BN61-02532A	HOLDER;46M7 EO,ACETAL,BLK, TOP	1	S.N.A
...3		BN61-02533A	HOLDER-SWIVEL RING;46M7 EO,ACETAL,NATUAL	1	S.N.A
...3	T0010	BN61-02534A	HOLDER;46M7 EO,ACETAL,NATUAL,BOTTOM	1	S.N.A
...3		BN61-02536A	BRACKET-HINGE SWIVEL;46M7 EO,HG,T3.0	1	S.N.A
...3		BN61-02664A	BRACKET-STAND BOTTOM;MOSEL2 46,SGHC,T3.0	1	S.N.A
...3	CCM1	BN63-02183F	COVER-SHEET;RhcM,PE Vinyl,T0.05,900mm,20	0.45	S.N.A
...3		BN63-02625A	COVER-STAND SUB;46M7 EO,ABS+PMMA,HB,BK23	1	S.N.A
...3	T0004	BN63-02762A	COVER-STAND BASE;MOSEL2 46,ABS+PMMA,HB,B	1	S.N.A
...3	T0132	BN73-00052A	RUBBER FOOT;ARES 17,SILICON,DIA 17 * T1.	8	S.N.A
0.1	T0852	BN91-01058R	ASSY LCD-SPZ;LNS4696DX/XAA	1	S.N.A
..2	M0215	BN07-00291A	LCD-PANEL;LTA460HS-LH1,8bit,1083*627*56.	1	S.A
0.1	M0112	BN91-01172B	ASSY SHIELD;LE40S73BDX/XEU	1	S.N.A
..2	T0081	6001-001920	SCREW-MACHINE;PH,+,WWP,M5,L12,NI PLT,SWR	8	S.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	5	S.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	4	S.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	6	S.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	6	S.A
..2	M2893	BN39-00615M	LEAD CONNECTOR;LNS4696DX,UL1617#22,UL/CS	1	S.A
..2	M2893	BN39-00725C	LEAD CONNECTOR;LE46N71BX,UL2835#28,UL/CS	1	S.A
..2	M2893	BN39-00741D	LEAD CONNECTOR;NEO MOSEL,UL1007#26,UL/CS	1	S.A
..2	M2893	BN39-00751A	LEAD CONNECTOR;LNS4096DX,UL3443#28,UL/CS	1	S.A
..2	M2893	BN39-00763A	LEAD CONNECTOR;LNS4696DX,UL3239#24,UL/CS	1	S.A
..2	M2893	BN39-00764A	LEAD CONNECTOR;LNS4696DX,UL3239#24,UL/CS	1	S.A
..2	M0174	BN44-00141A	IP BOARD;PSIV350801A,46" MOSEL,44mA,86m	1	S.A
..2	M0115	BN61-02538A	BRACKET-STAND LINK;46M7,SECC,T1.6	1	S.N.A
..2	M0146	BN61-02539A	BRACKET-PANEL TOP;46M7,SECC,T1.6	1	S.N.A
..2		BN61-02540A	BRACKET-PANEL BOTTOM;46M7,SECC,T1.6	1	S.N.A
..2	M0146	BN61-02541A	BRACKET-PANEL SIDE;46M7,SECC,T1.6,LEFT	1	S.N.A
..2	M0146	BN61-02542A	BRACKET-PANEL SIDE;46M7,SECC,T1.6,RIGHT	1	S.N.A
..2	M0146	BN63-02642A	SHIELD-PCB SMPS;46M7 UO,SECC,T0.5	1	S.N.A
..2	M0059	BN96-03431C	ASSY BOARD P-HOLDER AV;46N71,EO,CT5000-4	1	S.N.A
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	2	S.A
...3	T0578	BN64-00454A	INLAY AV;BORDEAUX,PS SHEET,T0.3,-,-,BLAC	1	S.N.A
...3		BN64-00484A	INLAY-MMS;MOSEL,40,PS SHEET,T0.3,-,-,-	1	S.N.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...3	M0020	BN96-02439C	ASSY BOARD P-SIDE AV;LE46N71BX,CT5000-36	1	S.N.A
...3		BN61-02411B	HOLDER-SIDE AV;MOSEL,40,HIPS,HB,BK500	1	S.N.A
..2	M0081	6003-000337	SCREW-TAPTITE;BH,+,S,M4,L10,ZPC(BLK),SWR	4	S.A
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,YEL,SWRCH18A	2	S.N.A
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,YEL,SWRCH18A	2	S.N.A
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,YEL,SWRCH18A	2	S.N.A
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,YEL,SWRCH18A	12	S.N.A
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,YEL,SWRCH18A	1	S.N.A
..2	M0081	6003-001439	SCREW-TAPTITE;BH,+,S,M4,L8,ZPC(YEL)	1	S.N.A
..2	M2893	BN39-00727E	LEAD CONNECTOR-LVDS;LE46F71BX,UL1571#30,	1	S.A
..2	M0081	6003-001003	SCREW-TAPTITE;BH,+,B,M4,L12,ZPC(BLK),SWR	2	S.N.A
..2	M0162	6502-001027	CABLE CLAMP;DAWH-5NA,ID11.5,T3,NYLON66,N	5	S.N.A
..2	M0131	BN63-03008A	GASKET;LN46M71BD,Conductive Fabric,18mm,	1	S.N.A
..2	T0447	BN96-04118C	ASSY BRACKET P-PANEL;46F71,EO,SECC,T1.2,	1	S.N.A
..3	M0081	6003-000133	SCREW-TAPTITE;BH,+,-,S,M4,L8,ZPC(BLK),SW	4	S.A
..3	M0107	BN61-02543A	BRACKET-PCB;46M7,SECC,T1.2	1	S.N.A
..3	T0101	BN61-02544A	BRACKET-WALL;46M7,SECC,T2.0,R,L	2	S.N.A
...4		BN61-02428H	STUD-PEM;PNA,M8,D14,L16,ZPC(SIL),SUM24L	4	S.N.A
..3	M0131	AA63-01046A	GASKET;ROMR 40",Conductive Fabric,11mm,1	4	S.N.A
..2	M2893	BN39-00789A	LEAD CONNECTOR;LA46F71BX,UL1007#26,UL100	1	S.A
0.1	M0017	BN91-01185B	ASSY CHASSIS;LE46F71BX*	1	S.N.A
..2	T0862	BN94-00868G	ASSY PCB MISC-MMS;MOSEL,NEO MOSEL ALL	1	S.N.A
..3	T0245	0202-001492	SOLDER-WIRE FLUX;HSE-02 LFM48 SR-34 S,-,	0.003	S.N.A
..3	CN330	3711-003340	HEADER-BOARD TO CABLE;BOX,16P,2R,2mm,STR	1	S.A
..3	CN5	3722-001051	JACK-USB;4P/1C,AU,BLK,ANGLE,A TYPE	1	S.A
..3	SUB06	BN63-02530A	SHIELD-MMS;MOSEL,SPT2 TO.2,-,-,-,-	1	S.N.A
..3	T0174	BN97-00842J	ASSY SMD;LE26R73BDX/XET	1	S.N.A
...4	SUB05	0202-001477	SOLDER-CREAM;LST309-M,-,D20-45\$,96.55n/	5.347	S.N.A
...4	D1	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D10	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D11	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D12	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D13	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D14	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D15	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D16	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D17	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D18	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D19	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D2	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D20	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D21	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D4	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D5	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D6	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D7	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D8	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D9	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	Q1	0505-001217	FET-GAAS;FDN338P,-20V,+8V,-1.6A,500mW,S	1	S.A
...4	Q2	0505-001217	FET-GAAS;FDN338P,-20V,+8V,-1.6A,500mW,S	1	S.A
...4	Q3	0505-001217	FET-GAAS;FDN338P,-20V,+8V,-1.6A,500mW,S	1	S.A
...4	Q4	0505-001217	FET-GAAS;FDN338P,-20V,+8V,-1.6A,500mW,S	1	S.A
...4	Q5	0505-001217	FET-GAAS;FDN338P,-20V,+8V,-1.6A,500mW,S	1	S.A
...4	Q6	0505-001217	FET-GAAS;FDN338P,-20V,+8V,-1.6A,500mW,S	1	S.A
...4	L0405	0601-001313	LED;SMD,GRN,2X1.8MM,565NM,3.16X1.6X1.1MM	1	S.A
...4	IC6	1203-001211	IC-VOL. DETECTOR;7027,SOT-89,3P,-,PLASTI	1	S.A
...4	T0087	1203-002842	IC-POSIFIXED REG.;AP1117D-33A,TO-252,3P	1	S.A
...4	T0087	1203-002842	IC-POSIFIXED REG.;AP1117D-33A,TO-252,3P	1	S.A
...4	T0087	1203-002842	IC-POSIFIXED REG.;AP1117D-33A,TO-252,3P	1	S.A
...4	T0087	1203-002974	IC-POSIFIXED REG.;AP1117D-25A,TO-252,3P	1	S.A
...4	IC1	1204-002585	IC-DECODER;MP612,LFBGA,256P,17x17mm,PLAS	1	S.A
...4	IC2	1205-002713	IC-CODEC;ALC202A,LQFP,48P,7X7MM,PLASTIC,	1	S.A
...4	R11	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A
...4	R12	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A
...4	R120	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R138	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R148	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R149	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R150	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R163	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R164	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R165	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R166	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R167	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R168	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R19	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R32	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R33	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R35	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R36	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	R56	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R57	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R58	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R59	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R60	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R61	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R62	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R63	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	SA
...4	R106	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	1	SA
...4	R114	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R48	2007-000475	R-CHIP;1Mohm,1%,1/10W,TP,1608	1	SA
...4	R151	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R152	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R153	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
...4	R13	2007-007526	R-CHIP;23.7Kohm,1%,1/10W,TP,1608	1	SA
...4	R39	2007-007947	R-CHIP;36ohm,1%,1/10W,TP,1608	1	SA
...4	R40	2007-007947	R-CHIP;36ohm,1%,1/10W,TP,1608	1	SA
...4	R105	2007-008595	R-CHIP;1.02Kohm,1%,1/10W,TP,1608	1	SA
...4	C106	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,COG,1608	1	SA
...4	C114	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C115	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C100	2203-000332	C-CER,CHIP;0.012nF,5%,50V,COG,1608	1	SA
...4	C101	2203-000332	C-CER,CHIP;0.012nF,5%,50V,COG,1608	1	SA
...4	C116	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
...4	C117	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
...4	C118	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
...4	C155	2203-000552	C-CER,CHIP;0.02nF,5%,50V,COG,1608	1	SA
...4	C156	2203-000552	C-CER,CHIP;0.02nF,5%,50V,COG,1608	1	SA
...4	C157	2203-000552	C-CER,CHIP;0.02nF,5%,50V,COG,1608	1	SA
...4	C104	2203-000626	C-CER,CHIP;0.022nF,5%,50V,COG,1608	1	SA
...4	C105	2203-000626	C-CER,CHIP;0.022nF,5%,50V,COG,1608	1	SA
...4	C107	2203-000815	C-CER,CHIP;0.033nF,5%,50V,COG,1608	1	SA
...4	C108	2203-000815	C-CER,CHIP;0.033nF,5%,50V,COG,1608	1	SA
...4	C103	2203-001242	C-CER,CHIP;0.082nF,5%,50V,NP0,1608	1	SA
...4	C129	2203-001724	C-CER,CHIP;4700nF,+80-20%,16V,Y5V,3216	1	SA
...4	C123	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C124	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C125	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C126	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C127	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C128	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C135	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C136	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C137	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C138	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C139	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C140	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C141	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C142	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C143	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C144	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C145	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C146	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C160	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C164	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C165	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C167	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C168	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C169	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C170	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C171	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C176	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C44	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C45	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C46	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C47	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C48	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C49	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C50	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C51	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C52	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C53	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C54	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C55	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C56	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C57	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C58	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C59	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C60	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C61	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
...4	C62	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	C9	2203-006333	C-CER,CHIP;1000nF,20%,16V,X5R,TP,3216	1	SA
...4	C122	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	SA
...4	C16	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	SA
...4	C162	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	SA
...4	C17	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	SA
...4	C19	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	SA
...4	C20	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	SA
...4	C163	2402-000209	C-AL,SMD;22uF,20%,16V,WT,TP,5.3x5.3mm	1	SA
...4	C7	2402-000209	C-AL,SMD;22uF,20%,16V,WT,TP,5.3x5.3mm	1	SA
...4	C133	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6.6x5.4	1	SA
...4	C134	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6.6x5.4	1	SA
...4	C1	2402-001059	C-AL,SMD;220UF,20%,6.3V,-,TP,6X6.6X6.6	1	SA
...4	C158	2402-001059	C-AL,SMD;220UF,20%,6.3V,-,TP,6X6.6X6.6	1	SA
...4	C159	2402-001059	C-AL,SMD;220UF,20%,6.3V,-,TP,6X6.6X6.6	1	SA
...4	C2	2402-001059	C-AL,SMD;220UF,20%,6.3V,-,TP,6X6.6X6.6	1	SA
...4	C6	2402-001059	C-AL,SMD;220UF,20%,6.3V,-,TP,6X6.6X6.6	1	SA
...4	C166	2402-001222	C-AL,SMD;3.3UF,20%,50V,HR,TP,4.3X4.3X5.8	1	SA
...4	X3	2801-003804	CRYSTAL-SMD;24.576MHz,30ppm,28-AAN,20pF,	1	SA
...4	X1	2801-003948	CRYSTAL-SMD;12MHz,30ppm,28-AAN,12pF,60oh	1	SA
...4	X2	2801-004355	CRYSTAL-SMD;13.5MHz,30ppm,28-AAN,20,40oh	1	SA
...4	CN3	3709-001290	CONNECTOR-CARD SLOT;50P,1.27MM,SMD-A,AU1	1	SA
...4	CN8	3709-001424	CONNECTOR-CARD SLOT;70pin,0.6,-,gold,car	1	SA
...4	CN4	3722-002236	JACK-MINI USB;5P,AU30U,BLK,SMD-A,MINI US	1	SA
...4	T0077	BN41-00746B	PCB MAIN;MOSEL,FR-4,6,1.0,1.6T,179*184.3	1	S.N.A
...4	M0018	BN97-01024A	ASSY MICOM;29LV320,T-MSLMPEUW-1008,2006/	1	SA
...5	IC115	1107-001475	IC-FLASH MEMORY;29LV320,32MBIT,4MX8/2MX1	1	S.N.A
...4	T0087	1203-002844	IC-POSIFIXED REG.;AP1117D-18A,TO-252-3L	1	SA
...4	D3	0403-001180	DIODE-ZENER;BZX84C6V2,5,8-6.6V,350mW,SOT	1	SA
...4	IC113	1105-001571	IC-DRAM;K4D551638,GDDR,256Mbit,4x4Mx16,T	1	SA
...3	T0069	AA63-60002W	SPACER-FELT;-FELT,-,-,BLK,T0.5,-,30X1	1	S.N.A
...3	SUB09	AA63-01387A	GASKET-EMI,SPONGE;SP-P300M,Conductive Fa	1	S.N.A
...2	M0014	BN94-01089A	ASSY PCB MAIN;LE46F71BX/*	1	SA
...3	T0245	0202-001492	SOLDER-WIRE FLUX;HSE-02 LFM48 SR-34 S,-,	0.25	S.N.A
...3	JA302	3701-001294	CONNECTOR-DSUB;15P,3R,FEMALE,STRAIGHT,AU	1	SA
...3	CN330	3711-002347	HEADER-BOARD TO CABLE;BOX,16P,2R,2MM,ANG	1	SA
...3	CN330	3711-004484	HEADER-BOARD TO CABLE;BOX,5P,1R,2mm,STRA	1	SA
...3	CN330	3711-004484	HEADER-BOARD TO CABLE;BOX,5P,1R,2mm,STRA	1	SA
...3	CN330	3711-004484	HEADER-BOARD TO CABLE;BOX,5P,1R,2mm,STRA	1	SA
...3	CN330	3711-004909	HEADER-BOARD TO CABLE;BOX,14P,2R,2MM,ANG	1	SA
...3	CN330	3711-005606	HEADER-BOARD TO CABLE;BOX,30P,2R,2mm,STR	1	SA
...3	CN330	3711-005607	HEADER-BOARD TO CABLE;BOX,32P,2R,2mm,STR	1	SA
...3	JA200_EU	3722-000498	JACK-SCART;21P,-,SN,BLK,NO	1	SA
...3	JA206_EU	3722-000498	JACK-SCART;21P,-,SN,BLK,NO	1	SA
...3	JA330	3722-001061	JACK-PHONE;1P,3.6PI,AG,BLK,N	1	SA
...3	JA330	3722-001061	JACK-PHONE;1P,3.6PI,AG,BLK,N	1	SA
...3	JA333	3722-001903	JACK-PIN;2P,-,AU,WHT/RED,-	1	SA
...3	JA333	3722-001903	JACK-PIN;2P,-,AU,WHT/RED,-	1	SA
...3	JA333	3722-001903	JACK-PIN;2P,-,AU,WHT/RED,-	1	SA
...3	JA333	3722-001938	JACK-PIN;3P,-,AU,GRN/BLU/RED,-	1	SA
...3	T0562	6046-001013	STAND OFF;M3,L5,Ni PLT,SUM24L,#4-40	2	S.N.A
...3	CIS3	BN40-00078A	TUNER;TCLW3001PD32S(H),TCLW3001PD32S(H),	1	SA
...3	T0174	BN97-01167B	ASSY SMD;LE46F71BX/*	1	S.N.A
...4	SUB05	0202-001477	SOLDER-CREAM;LST309-M,-,D20-45\$,96.5Sn/	4.307	S.N.A
...4	D1100_ATV	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D208	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D218	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D228	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D302	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D303	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D310	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D311	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D312	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D313	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D314	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D315	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D316	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D317	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D318	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D319	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D320	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D321	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D322	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D323	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D324	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D325	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D328	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D329	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D330	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D338	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D900	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4	D901	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	D902	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D903	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D907	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D106	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
....4	D107	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
....4	D108	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
....4	D110	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
....4	D101	0402-000553	DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2	1	S.A
....4	D103	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A
....4	D402	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A
....4	D450	0403-000614	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D304	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D305	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D306	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D307	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D326	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D327	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D333	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D334	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D335	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D336	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D337	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D403	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D405	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D620	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D300	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500mW,LL-	1	S.A
....4	D301	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500mW,LL-	1	S.A
....4	D1101_ATV	0403-001425	DIODE-ZENER;BZX84C33,31-35V,350mW,SOT-23	1	S.A
....4	D200_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D201	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D202_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D203	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D204	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D205	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D206	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D207	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D213_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D214_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D219	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D220	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D221	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D222	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D223	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D224	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D225	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D226	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D227	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D229_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D230_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D233	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D234	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D308	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D309	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D331	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D332	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D100	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D102	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D240	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D400	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D401	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D404_OP	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	Q108	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150MW,SOT-23	1	S.A
....4	Q230_EU	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150MW,SOT-23	1	S.A
....4	Q231	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150MW,SOT-23	1	S.A
....4	Q1100_ATV	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q113	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q116	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q117	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q119	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q120	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q232	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q233_EU	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q234_EU	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q235	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q236	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q300	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q301	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q400	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q402	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q403	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q404	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	Q501	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
...4	Q111	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
...4	Q118	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
...4	Q220_EU	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
...4	Q221_EU	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
...4	Q903	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	0505-000110	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	0505-000110	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	IC104	0801-002095	IC-CMOS LOGIC;74LCX245,TRANSCEIVER,TSSOP	1	S.A
...4	IC403	0903-001432	IC-MICROCOMPUTER;M308405GP,16Bit,LQFP,10	1	S.N.A
...4	IC115	1001-000164	IC-ANALOG MULTIPLEX;74HC4052,CMOS,SOP,16	1	S.A
...4	IC117	1001-000164	IC-ANALOG MULTIPLEX;74HC4052,CMOS,SOP,16	1	S.A
...4	IC405	1001-001109	IC-ANALOG SWITCH;FST3125M,BUS SWITCH & C	1	S.A
...4	IC107	1002-001399	IC-D/A CONVERTER;PCM1754,24BIT,SSOP,16P,	1	S.A
...4	IC110	1006-001076	IC-DRIVER/RECEIVER;MAX232ECWE+T,SOP,16P,	1	S.A
...4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x	1	S.A
...4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x	1	S.A
...4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x	1	S.A
...4	IC112	1103-001279	IC-EEPROM;24C32,32Kbit,4Kx8Bit,SOP,8P,5x	1	S.A
...4	IC113	1105-001674	IC-DRAM;EM6A9320BI,-,128Mbit,4Mx32Bit,FB	1	S.A
...4	IC113	1105-001674	IC-DRAM;EM6A9320BI,-,128Mbit,4Mx32Bit,FB	1	S.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	1201-002246	IC-AUDIO AMP;STA323W,SO,36P,15.9x11mm,-,	1	S.A
...4	IC409	1203-001559	IC-RESET;DS1834A,SOIC,8P,150MIL,PLASTIC,	1	S.A
...4	IC503_OP	1203-001559	IC-RESET;DS1834A,SOIC,8P,150MIL,PLASTIC,	1	S.A
...4	T0087	1203-001815	IC-POS.FIXED REG.;78M09,TO-252,3P,-,PLA	1	S.A
...4	T0087	1203-001816	IC-POS.FIXED REG.;78M08,TO-252,3P,-,PLA	1	S.A
...4	IC113	1203-001824	IC-VOL. DETECTOR;7042,SOT-89,3P,-,PLASTI	1	S.A
...4	IC408_OP	1203-001824	IC-VOL. DETECTOR;7042,SOT-89,3P,-,PLASTI	1	S.A
...4	T0087	1203-002842	IC-POS.FIXED REG.;AP1117D-33A,TO-252,3P	1	S.A
...4	T0087	1203-002855	IC-POS.FIXED REG.;MC33269DTRK-5.0,DPRK,	1	S.A
...4	T0087	1203-002974	IC-POS.FIXED REG.;AP1117D-25A,TO-252,3P	1	S.A
...4	T0087	1203-003060	IC-POS.FIXED REG.;AP1084,TO-263,3P,9.97	1	S.A
...4	T0087	1203-003696	IC-POS.FIXED REG.;NCP1117DT18T5G,DPAK,3	1	S.A
...4	IC107	1203-004379	IC-DC/DC CONVERTER;AP1530SA,SOP,8P,5x3.9	1	S.A
...4	IC105	1204-002464	IC-AUDIO PROCESSOR;STV8257DSX,TQFP,80P,1	1	S.A
...4	IC118	1204-002484	IC-VIDEO PROCESS;SVP-LX64-7164,BGA,564P,1	1	S.N.A
...4	IC604	1205-002929	IC-RECEIVER;MST3386M-LF-170,PQFP,128P,20	1	S.A
...4	R6008	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A
...4	R6009	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A
...4	R6010	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A
...4	R6011	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A
...4	R4071	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
...4	R4104	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
...4	R4105	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
...4	R4106	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
...4	R4107	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
...4	R4108	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
...4	R4109	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
...4	R4110	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
...4	R4111	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
...4	R4117	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
...4	R1006	2007-000060	R-CHIP;100Kohm,1%,1/10W,TP,1608	1	S.A
...4	R937_ATV	2007-000060	R-CHIP;100Kohm,1%,1/10W,TP,1608	1	S.A
...4	46	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R1087	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R1100	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R1101	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R1102	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R1114	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R1115	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R2033	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R318	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R319	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R363	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R371	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R4000	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R4005	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R4013	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R4014	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R4015	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R4019	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R4020	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R4044	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R4045	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
...4	R4048	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	R1151	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
...4	R1152	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
...4	R1153	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
...4	R1154	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
...4	R1155	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
...4	R1156	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
...4	R1157	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
...4	R1158	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
...4	R1159	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
...4	R1160	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
...4	R1161	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
...4	R1202_ATV	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
...4	R380	2007-000106	R-CHIP;220Kohm,5%,1/10W,TP,1608	1	SA
...4	R932	2007-000106	R-CHIP;220Kohm,5%,1/10W,TP,1608	1	SA
...4	R940_ATV	2007-000106	R-CHIP;220Kohm,5%,1/10W,TP,1608	1	SA
...4	R941_ATV	2007-000106	R-CHIP;220Kohm,5%,1/10W,TP,1608	1	SA
...4	R1096	2007-000107	R-CHIP;470Kohm,5%,1/10W,TP,1608	1	SA
...4	R6041	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA
...4	R1072	2007-000119	R-CHIP;560ohm,5%,1/10W,TP,1608	1	SA
...4	R943	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	SA
...4	R944	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	SA
...4	R945	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	SA
...4	R1080	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	SA
...4	R1105	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	SA
...4	R4116	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	SA
...4	R1110	2007-000125	R-CHIP;3.9Kohm,5%,1/10W,TP,1608	1	SA
...4	R2122_EU	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	SA
...4	R2125_EU	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	SA
...4	R1010	2007-000219	R-CHIP;1.2Kohm,1%,1/10W,TP,1608	1	SA
...4	R1007	2007-000239	R-CHIP;1.5Kohm,1%,1/10W,TP,1608	1	SA
...4	R2006	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
...4	R2012_EU	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
...4	R2031	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
...4	R2042	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
...4	R2045_EU	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
...4	R2052	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
...4	R2055	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
...4	R2059	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA
...4	R320	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R321	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R322	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R323	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R324	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R325	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R326	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R327	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R328	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R329	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R330	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R331	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R332	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R333	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R334	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R335	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4046	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4052	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4054_1M	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4055_1M	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4066	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4072	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4074	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4075	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4076	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4077	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4078	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4080	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4081	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4082	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4083	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4084	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4085	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4086	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4087	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R4088	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R6038	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R6039	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R6040	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R6045	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R6046	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R6048	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
...4	R2008	2007-000458	R-CHIP;18Kohm,5%,1/10W,TP,1608	1	SA

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R2043_OP	2007-000458	R-CHIP;18Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4017	2007-000704	R-CHIP;3.6Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4030	2007-000704	R-CHIP;3.6Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1008	2007-000857	R-CHIP;4.3Kohm,1%,1/10W,TP,1608	1	S.A
....4	R2007	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R2009	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R2010	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R2030	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R2032	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R2034	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R2053	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R2054	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R2056	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R2060	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R2061	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R6030	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R6031	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R6032	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R6033	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R2017_EU	2007-001101	R-CHIP;62ohm,5%,1/10W,TP,1608	1	S.A
....4	R2044_EU	2007-001101	R-CHIP;62ohm,5%,1/10W,TP,1608	1	S.A
....4	R2013_EU	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R2014	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R2015	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R2016	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R2018_EU	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R2035	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R2036	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R2037	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R2047_EU	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R311	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R312	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R315	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R316	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R939_ATV	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R338	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R339	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R341	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R343	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R344	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R345	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R362	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R364	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R397_MMS	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R398_MMS	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R399_MMS	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R5190	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R5191	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R5192	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R5193	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R5194	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R5195	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R5230	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R1097	2007-008720	R-CHIP;4.7ohm,1%,1/4W,TP,3216	1	S.A
....4	R1103	2007-008720	R-CHIP;4.7ohm,1%,1/4W,TP,3216	1	S.A
....4	R1109	2007-008720	R-CHIP;4.7ohm,1%,1/4W,TP,3216	1	S.A
....4	R1113	2007-008720	R-CHIP;4.7ohm,1%,1/4W,TP,3216	1	S.A
....4	RA480	2011-000515	R-NET;4.7Kohm,5%,1/16W,L,CHIP,8P,TP,3.2x	1	S.A
....4	RA481	2011-000515	R-NET;4.7Kohm,5%,1/16W,L,CHIP,8P,TP,3.2x	1	S.A
....4	RA618	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	RA619	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	RA620	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	RA621	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	RA622	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	RA623	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	RA624	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	RA403	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA404	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA406	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA407	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA408	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA410	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA520	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	RA521	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	RA522	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	RA510	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	S.A
....4	RA511	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	S.A
....4	RA512	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	S.A
....4	RA513	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	S.A
....4	RA514	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	RA515	2011-001087	R-NET;75ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	C424	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C425	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C941_ATV	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C942_ATV	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA
...4	C1001	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C1007	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C1009	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C1014	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C1027	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C1029	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C1090	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C1302_ATV	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C1304_ATV	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C1305_ATV	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C436	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C5118	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C6001	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C6002	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C6003	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C6004	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C6009	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C6010	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C6011	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C6012	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C6013	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C6014	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C6026	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C6028	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C6054	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C6055	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C943	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C952	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C953	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C956	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
...4	C406	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
...4	C407	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
...4	C412	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
...4	C426	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
...4	C427	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
...4	C430	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
...4	C1307_ATV	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,1608	1	SA
...4	C5079	2203-000531	C-CER,CHIP;2.7nF,10%,50V,X7R,1608	1	SA
...4	C5086	2203-000531	C-CER,CHIP;2.7nF,10%,50V,X7R,1608	1	SA
...4	C5025	2203-000552	C-CER,CHIP;0.02nF,5%,50V,COG,1608	1	SA
...4	C5036	2203-000552	C-CER,CHIP;0.02nF,5%,50V,COG,1608	1	SA
...4	C1113	2203-000626	C-CER,CHIP;0.022nF,5%,50V,COG,1608	1	SA
...4	C1116	2203-000626	C-CER,CHIP;0.022nF,5%,50V,COG,1608	1	SA
...4	C413	2203-000626	C-CER,CHIP;0.022nF,5%,50V,COG,1608	1	SA
...4	C414	2203-000626	C-CER,CHIP;0.022nF,5%,50V,COG,1608	1	SA
...4	C431	2203-000626	C-CER,CHIP;0.022nF,5%,50V,COG,1608	1	SA
...4	C432	2203-000626	C-CER,CHIP;0.022nF,5%,50V,COG,1608	1	SA
...4	C6082	2203-000626	C-CER,CHIP;0.022nF,5%,50V,COG,1608	1	SA
...4	C6083	2203-000626	C-CER,CHIP;0.022nF,5%,50V,COG,1608	1	SA
...4	C1157	2203-000783	C-CER,CHIP;0.33nF,5%,50V,COG,1608	1	SA
...4	C1168	2203-000783	C-CER,CHIP;0.33nF,5%,50V,COG,1608	1	SA
...4	C281_EU	2203-000783	C-CER,CHIP;0.33nF,5%,50V,COG,1608	1	SA
...4	C304	2203-000783	C-CER,CHIP;0.33nF,5%,50V,COG,1608	1	SA
...4	C305	2203-000783	C-CER,CHIP;0.33nF,5%,50V,COG,1608	1	SA
...4	C310	2203-000783	C-CER,CHIP;0.33nF,5%,50V,COG,1608	1	SA
...4	C311	2203-000783	C-CER,CHIP;0.33nF,5%,50V,COG,1608	1	SA
...4	C1133	2203-000798	C-CER,CHIP;33nF,10%,16V,X7R,TP,1608,-	1	SA
...4	C1134	2203-000798	C-CER,CHIP;33nF,10%,16V,X7R,TP,1608,-	1	SA
...4	C207_EU	2203-000815	C-CER,CHIP;0.033nF,5%,50V,COG,1608	1	SA
...4	C208_EU	2203-000815	C-CER,CHIP;0.033nF,5%,50V,COG,1608	1	SA
...4	C209_EU	2203-000815	C-CER,CHIP;0.033nF,5%,50V,COG,1608	1	SA
...4	C1147	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
...4	C1148	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
...4	C1172	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
...4	C1308_ATV	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
...4	C6017	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
...4	C6018	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
...4	C6019	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
...4	C6020	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
...4	C1099	2203-000972	C-CER,CHIP;47nF,10%,16V,X7R,1608	1	SA
...4	C1303_ATV	2203-000972	C-CER,CHIP;47nF,10%,16V,X7R,1608	1	SA
...4	C204_EU	2203-000998	C-CER,CHIP;0.047nF,5%,50V,COG,1608	1	SA
...4	C216_EU	2203-000998	C-CER,CHIP;0.047nF,5%,50V,COG,1608	1	SA
...4	C954	2203-000998	C-CER,CHIP;0.047nF,5%,50V,COG,1608	1	SA
...4	C1092	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA
...4	C8092	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA
...4	C8093	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	SA

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C409	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C411	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C419	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C429	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C5070	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C5077	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C5080	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C5082	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C5084	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C5087	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C5089	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C5091	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C5093	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C5095	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C5097	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C5098	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C5101	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C5103	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C5105	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6062	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6064	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6072	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6074	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6076	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6081	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6085	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6090	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6091	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6092	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6093	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6094	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6095	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6096	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6097	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C931_ATV	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C932_ATV	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1021	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2m	1	S.A
....4	C1025	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2m	1	S.A
....4	C5006	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2m	1	S.A
....4	C5119	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2m	1	S.A
....4	C5130	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2m	1	S.A
....4	C1141	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6.6x5.4	1	S.A
....4	C1144	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6.6x5.4	1	S.A
....4	C1005	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A
....4	C1011	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A
....4	C1151	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A
....4	C1183	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A
....4	C1004	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1024	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1030	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1034	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1085	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1142	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1214	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C292	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C360_MMS	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1003	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1012	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1102	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1135	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C938_ATV	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C946	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1140	2402-001160	C-AL,SMD;330UF,20%,16V,WT,TP,1008	1	S.A
....4	C1032	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C1063	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C1065	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C1300_ATV	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C1187	2402-001218	C-AL,SMD;22UF,20%,35V,WT,TP,6.6X6.6X5.8M	1	S.A
....4	C1301_ATV	2402-001238	C-AL,SMD;1uF,20%,50V,HR,TP,4.3x4.3x5.2mm	1	S.A
....4	C1041	2402-001257	C-AL,SMD;470uF,20%,16V,-,TP,8.3*10	1	S.A
....4	C1043	2402-001257	C-AL,SMD;470uF,20%,16V,-,TP,8.3*10	1	S.A
....4	C8074	2402-001257	C-AL,SMD;470uF,20%,16V,-,TP,8.3*10	1	S.A
....4	T0052	2703-000274	INDUCTOR-SMD;2.2uH,10%,2012	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

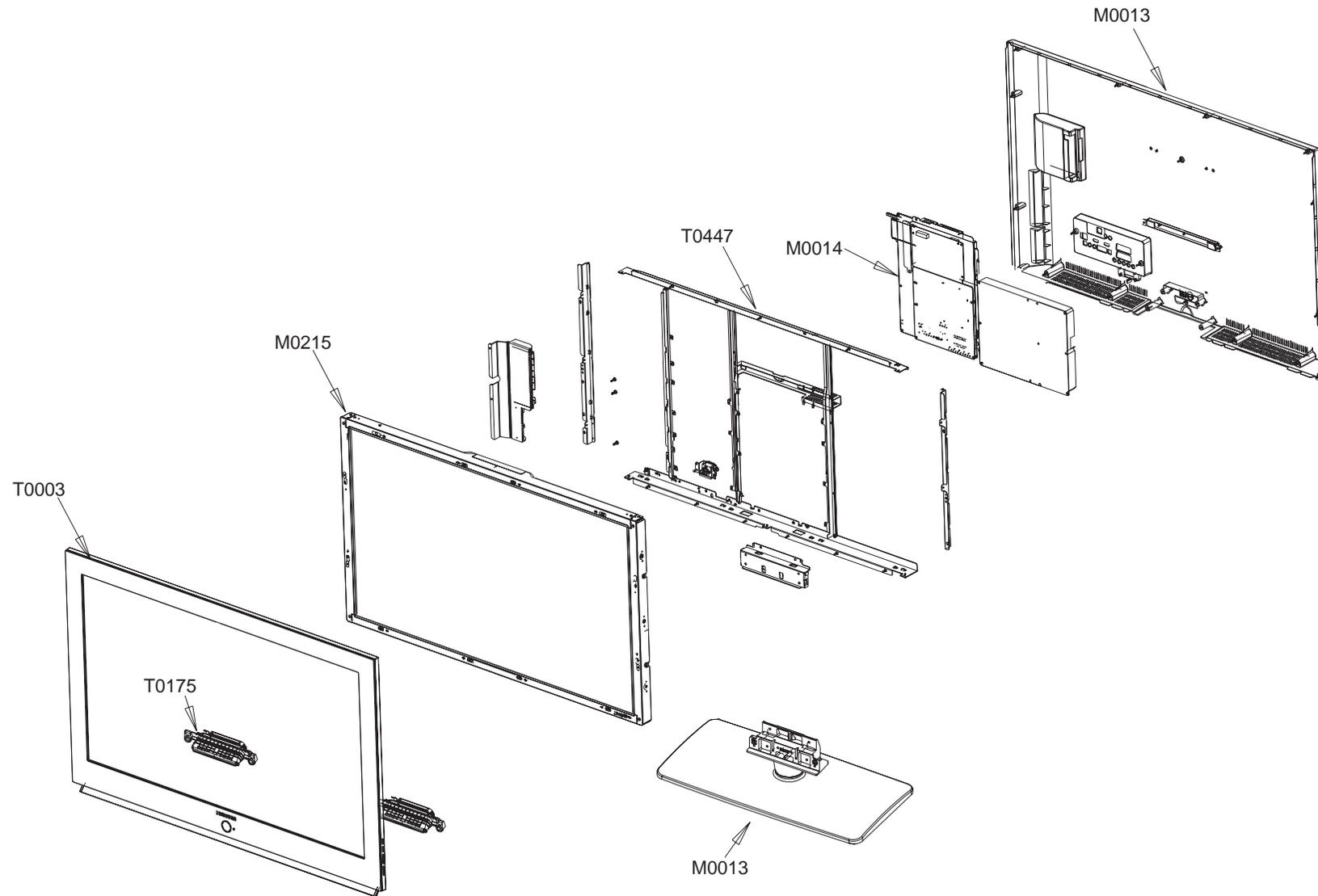
6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	M0018	BN97-01162A	ASSY MICOM;T-FMSLMPEU-1000,LE40F71BX,49B	1	S.N.A
....5	IC115	1107-001555	IC-FLASH MEMORY;49BV802A,8MBIT,1MX8/512K	1	S.N.A
....4	M0018	BN97-01162B	ASSY MICOM;T-BRDMPEUS-1000,LE40F71BX,IC-	1	S.N.A
....5	IC520	0903-001389	IC-MICROCONTROLLER;S3F866B,8Bit,QFP,44P,	1	S.N.A
....4	C8076	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C8077	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C8078	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C8079	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C8080	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C8081	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C8082	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C8083	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C8084	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C8085	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C8086	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C8087	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C8088	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C8089	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C8090	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C8091	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	T0077	BN41-00762B	PCB MAIN;FHD MOSEL,FR-4,4,MP1.1,1.6,192*	1	S.N.A
....3	CIS2	BN73-00024C	SILICON/RUBBER-BERGQUIST;VENUS 32,40*,SI	1	S.N.A
....3	T0603	BN63-02848B	SHIELD-PCB MAIN;FHD MOSEL 40,SPT E TO.3,-	1	S.N.A
0.1	M0113	BN92-01757A	ASSY P/MATERIAL;46M7,-,-,MOSEL,MOSEL2	1	S.N.A
..2	T0376	6902-000061	BAG AIR;LDPE,TO.2,L1000,W500,TRP,...	0.086	S.N.A
..2	T0376	6902-000379	BAG AIR;LDPE,TO.2,W1000,L1800,TRP,...	0.02	S.N.A
..2	T0214	AA60-40006A	PIN-STAPLE;AUTO,33X17.8X2.4,H18,33X17.8X	2	S.N.A
..2	T0214	AA61-20285A	HOLDER-BOX;CTV,PP,NTR,HB	2	S.N.A
..2	T0172	AA69-02609A	BAND-PP;W18,CLEA,1G	5.58	S.N.A
..2	T0524	6902-000684	BAG PE;HDPE/NITRON,TO.015/TO.5,W1400,L14	1	S.N.A
0.1	M0019	BN92-01981R	ASSY LABEL;LE40F71BX*	1	S.N.A
0.1	M0003	BN92-01993J	ASSY BOX;46F71,EO,-,-	1	S.N.A
..2		BN69-01415A	BOX INNER;46M7(MOSEL),DY-04,AB,YEL,C-01,	1.02	S.N.A
..2		BN69-01497B	BOX CARTON;46F71,DY-06,AB,YEL,C3,EUROPE	1.02	S.N.A
0.1	M0045	BN92-02020K	ASSY ACCESSORY;LE46F71BX/XEH	1	S.N.A
..2	M0045	BN96-04272K	ASSY ACCESSORY;LE46F71BX/XEH	1	S.A
...3	T0268	3903-000145	CBF-POWER CORD;DT,EU,FP3,YES,U(IEC C13-R	1	S.A
...3	T0524	6902-000110	BAG PE;LDPE,TO.05,W250,L400,TRP,28,2	2	S.N.A
...3	T0210	AA68-03242E	MANUAL FLYER-01,SAFETY GUIDE;All Model,S	1	S.N.A
...3	T0074	BN59-00530A	REMOCON;Mosel,TM87A,SAMSUNG,55key,38mArm	1	S.A
...3	ACCESSORY	BN63-01798A	CLOTH-CLEAN;RE40**,CLOTH,310,320,RHCM	1	S.N.A
...3	T0531	BN63-02624A	COVER-BOTTOM;46M7,HIPS HB,-,-,-,-,BK50	1	S.N.A
...3	T0238	BN68-00514C	MANUAL FLYER-WARRANTY CARD;comm,Samsung,	1	S.N.A
...3	T0511	BN68-01047T	MANUAL USERS;COMM,SAMSUNG,8Langs,E.Euro	1	S.N.A
...3	M0126	BN69-00350A	BOX ACCESSORY-00;AL29NO/AO,CB SW-1,YEL,K	1	S.N.A
...3	ACCESSORY	AA68-03575H	MANUAL-02,REGISTRATION CARD;XEH,Hungaria	1	S.N.A

5 Exploded View and Parts List

- You can search for updated part codes through ITSELF web site.
URL : <http://itself.sec.samsung.co.kr/>

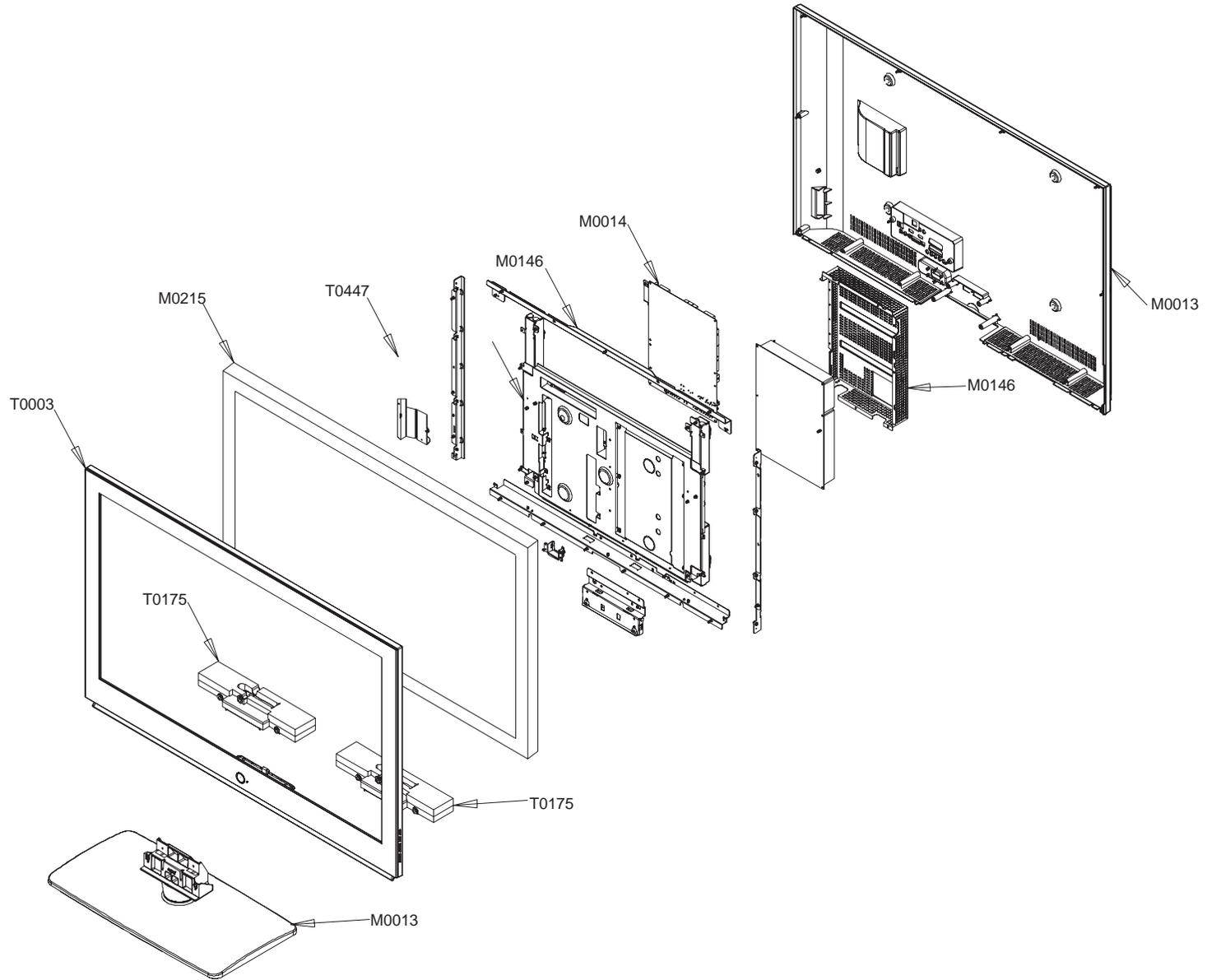
5-1 LE40F71B Exploded View



5-2 LE40F71B Parts list

Location	Code.No	Item & Specification	Q'ty	SA/SNA	Remark
T0003	BN96-03412F	ASSY COVER P-FRONT;40F71,EO,-,ABS+PMMA,H	1	S.A	
T0175	BN96-03271A	ASSY SPEAKER P;8ohm,Mosel 32,Left,10W,BA	1	S.A	
T0175	BN96-03272A	ASSY SPEAKER P;8ohm,Mosel 32,Right,10W,B	1	S.A	
M0215	BN07-00288A	LCD-PANEL;LTA400HS-LH1,8bit,952*551*51.0	1	S.A	
T0447	BN96-03421A	ASSY BRACKET P-PANEL;40M7,EO,MOSEL	1	S.N.A	
M0014	BN94-01088A	ASSY PCB MAIN;LE40F71BX/*	1	S.A	
M0013	BN96-03415A	ASSY COVER P-REAR;40M71,EO,HIPS,HB,BK500	1	S.A	
M0013	BN96-03989A	ASSY STAND P-BASE;MOSEL-2,40,ABS+PMMA,HB	1	S.A	

5-3 LE46F71B Exploded View

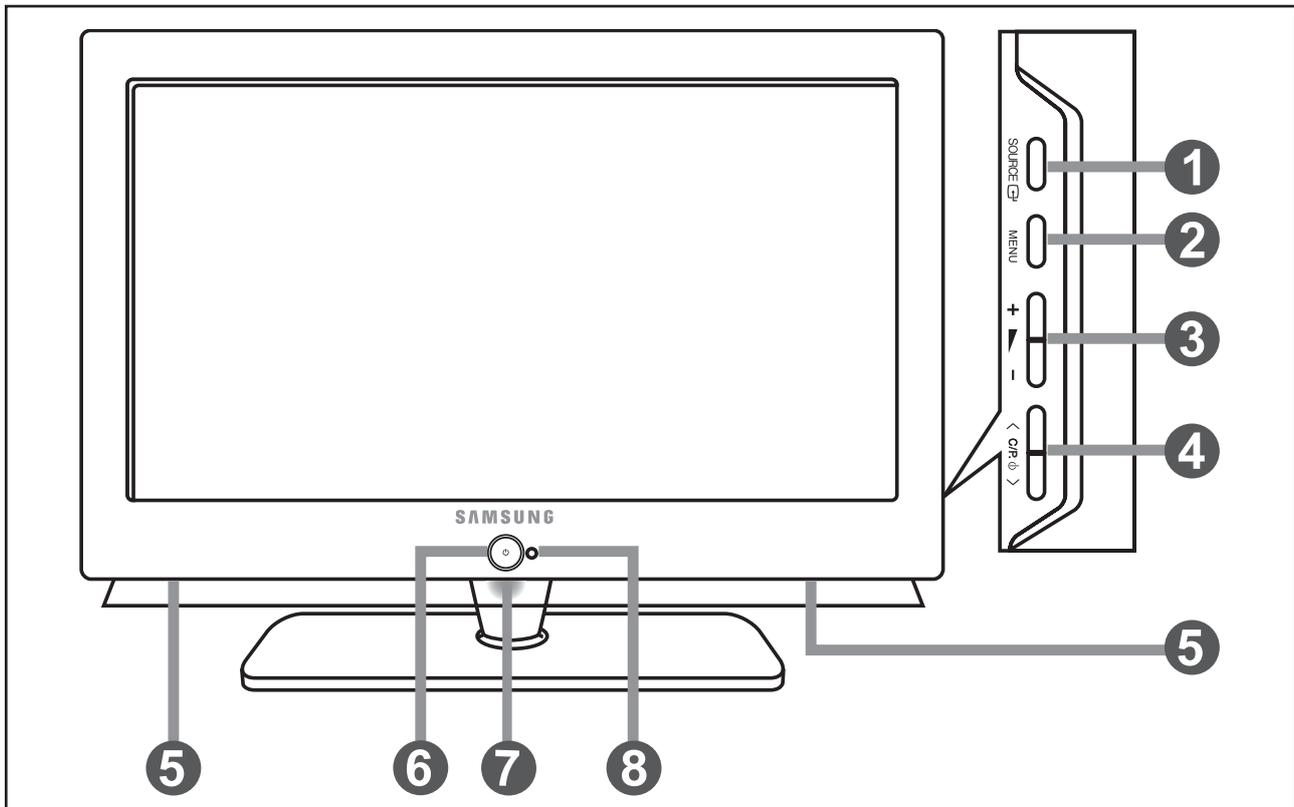


5-4 LE46F71B Parts list

Location	Code.No	Item & Specification	Q'ty	SA/SNA	Remark
T0003	BN96-03411G	ASSY COVER P-FRONT;46F71,EO,ABS+PMMA,HB,	1	S.A	
T0175	BN96-03593C	ASSY SPEAKER P;8ohm,Mosel 46inch,Right,1	1	S.A	
T0175	BN96-03591C	ASSY SPEAKER P;8ohm,Mosel 46inch,LEFT,10	1	S.A	
M0215	BN07-00291A	LCD-PANEL;LTA460HS-LH1,8bit,1083*627*56.	1	S.A	
T0447	BN96-04118C	ASSY BRACKET P-PANEL;46F71,EO,SECC,T1.2,	1	S.N.A	
M0014	BN94-01089A	ASSY PCB MAIN;LE46F71BX/*	1	S.A	
M0013	BN96-04116A	ASSY COVER P-REAR;46M71,EO,HIPS,HB,BK500	1	S.A	
M0013	BN96-04057A	ASSY STAND P-BASE;46M7,-,ABS+PMMA,HB,BK2	1	S.A	

10 Operating Instructions and Installation

10-1 Front



- The product colour and shape may vary depending on the model.

1. SOURCE

Toggles between all the available input sources (TV, Ext.1 , Ext.2, AV, S-Video, Component, PC, HDMI1, HDMI2).

In the on-screen menu, use this button as you use the ENTER  button on the remote control.

2. MENU

Press to see an on-screen menu of your TV's features.

3. + -

Press to decrease or increase the volume.

In the on-screen menu, use the +  - buttons as you use the  and  buttons on the remote control.

4. < C/P. >

Press to change channels.

In the on-screen menu, use the < C/P.  > buttons as you use the  and  buttons on the remote control.

(Without the Remote Control, you can turn on the TV by using the Channel buttons.)

5. SPEAKERS

6. (POWER)

Press to turn the TV on and off.

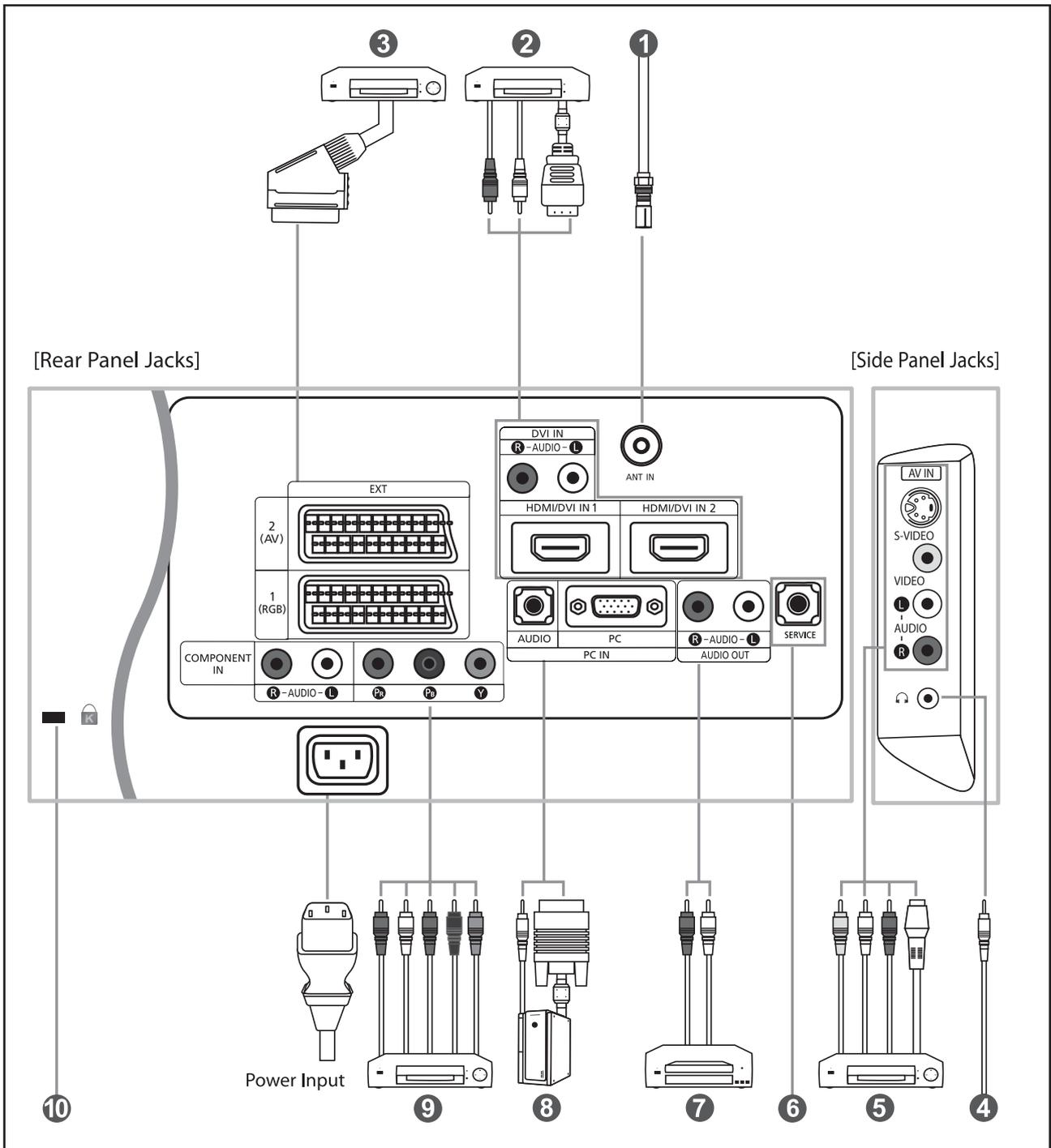
7. POWER INDICATOR

Blinks and turns off when the power is on and lights up in stand-by mode.

8. Rremote Control Sensor

Aim the remote control towards this spot on the TV.

10-2 Connection Panel



- Whenever you connect an external device to your TV, make sure that power on the unit is turned off.
- When connecting an external device, match the colour of the connection terminal to the cable.

1. Connecting an Aerial or Cable Television Network

To view television channels correctly, a signal must be received by the set from one of the following sources:

- An outdoor aerial / A cable television network / A satellite network

2. Connecting HDMI/DVI

- Supports connections between HDMI-connection-enabled AV devices (Set-Top Boxes, DVD players, AV receivers and digital TVs).

- No additional Audio connection is needed for an HDMI to HDMI connection.

- ▶ What is HDMI?

- "High Definition Multimedia interface" allows the transmission of high definition digital video data and multiple channels of digital audio (5.1 channels).

- The HDMI/DVI terminal supports DVI connection to an extended device with the appropriate cable (not supplied). The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed, and supports multi - channel digital audio.

- ▶ You should use the DVI-to-HDMI cable or DVI-HDMI Adapter for the connection, and the "R - AUDIO - L" terminal on DVI for sound output.

- When connecting this product via HDMI or DVI to a Set Top Box, DVD Player or Games Console etc, make sure that it has been set to a compatible video output mode as shown in the table below.

Failure to observe this may result in picture distortion, image breakup or no picture.

- ▶ Supported modes for DVI or HDMI

	480i	480p	576i	576p	720p	1080i	1080P
50Hz	X	O	X	O	O	O	X
60Hz	X	O	X	X	O	O	O
Component	O	O	O	O	O	O	O

- Do not attempt to connect the HDMI/DVI connector to a PC or Laptop Graphics Card.
(This will result in a blank screen being displayed)

3. Connecting Set-Top Box, VCR or DVD

- Connect the VCR or DVD SCART cable to the SCART connector of the VCR or DVD.

5. Connecting External A/V Devices

- Connect RCA or S-VIDEO cable to an appropriate external A/V device such as VCR, DVD or Camcorder.

- Connect RCA audio cables to "R - AUDIO - L" on the rear of your set and the other ends to corresponding audio out connectors on the A/V device.

- Headphone may be connected to the headphone output (4) on the rear of your set. While the headphone is connected, the sound from the built-in speakers will be disabled.

6. SERVICE

- Service connection for qualified service engineer.

7. Connecting AUDIO

- Connect RCA audio cables to "R - AUDIO - L" on the rear of your set and the other ends to corresponding audio in connectors on the Amplifier or DVD Home Theater.

8. Connecting Computer

- Connect the D- Sub cable (optional) to "PC (PC IN)" on the rear of your set and the other end to the Video Card of your computer.

- Connect the stereo audio cable (optional) to "AUDIO (PC IN)" on the rear of your set and the other end to "Audio Out" of the sound card on your computer.

9. Connecting Component Devices (DTV/DVD)

- Connect component video cables (optional) to component connector ("PR", "PB", "Y") on the rear of your set and the other ends to corresponding component video out connectors on the DTV or DVD.

- If you wish to connect both the Set-Top Box and DTV (or DVD), you should connect the Set-Top Box to the DTV (or DVD) and connect the DTV (or DVD) to component connector ("PR", "PB", "Y") on your set.

- The PR, PB and Y connectors on your component devices (DTV or DVD) are sometimes labeled Y, B-Y and R-Y or Y, Cb and Cr.

- Connect RCA audio cables (optional) to "R - AUDIO - L" on the rear of your set and the other ends to corresponding audio out connectors on the DTV or DVD.

- This LCD TV displays its optimum picture resolution in 720p mode.

- This LCD TV displays its maximum picture resolution in 1 080i mode.

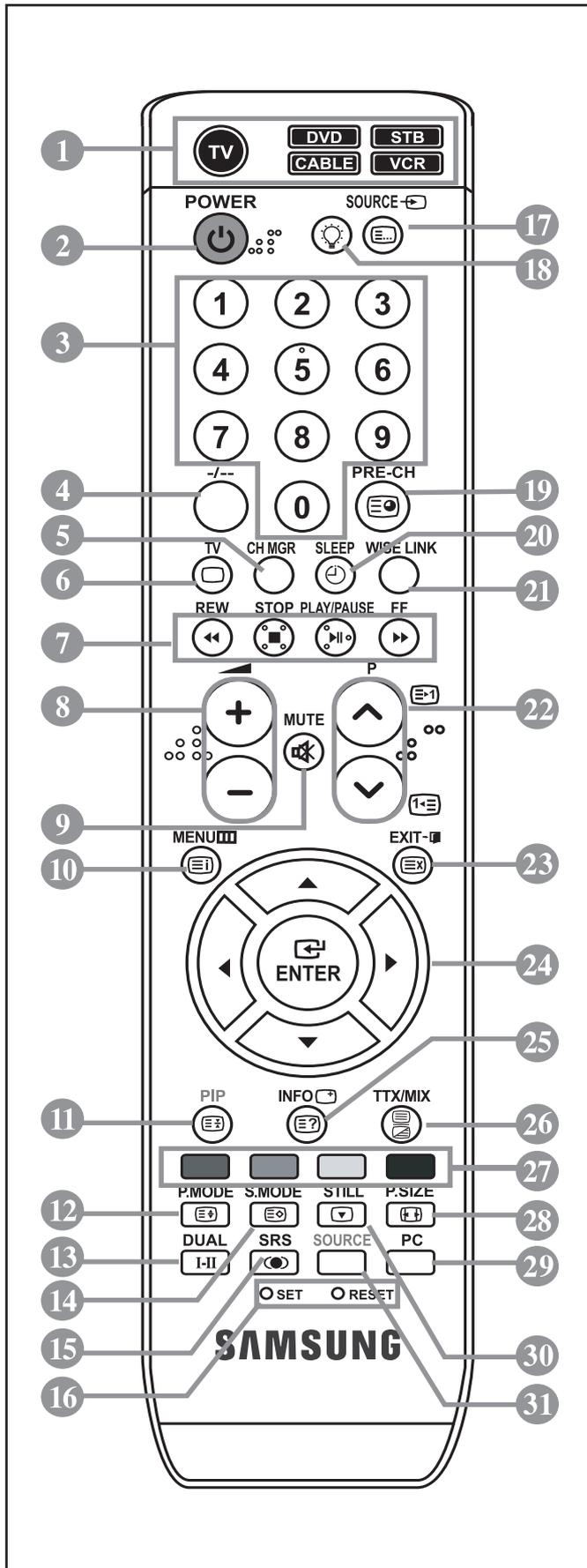
10. Kensington Lock

- The Kensington lock (optional) is a device used to physically fix the system when used in a public place.

- If you want to use a locking device, contact the dealer where you purchased the TV.

- The place of the Kensington Lock may be different depending on its model.

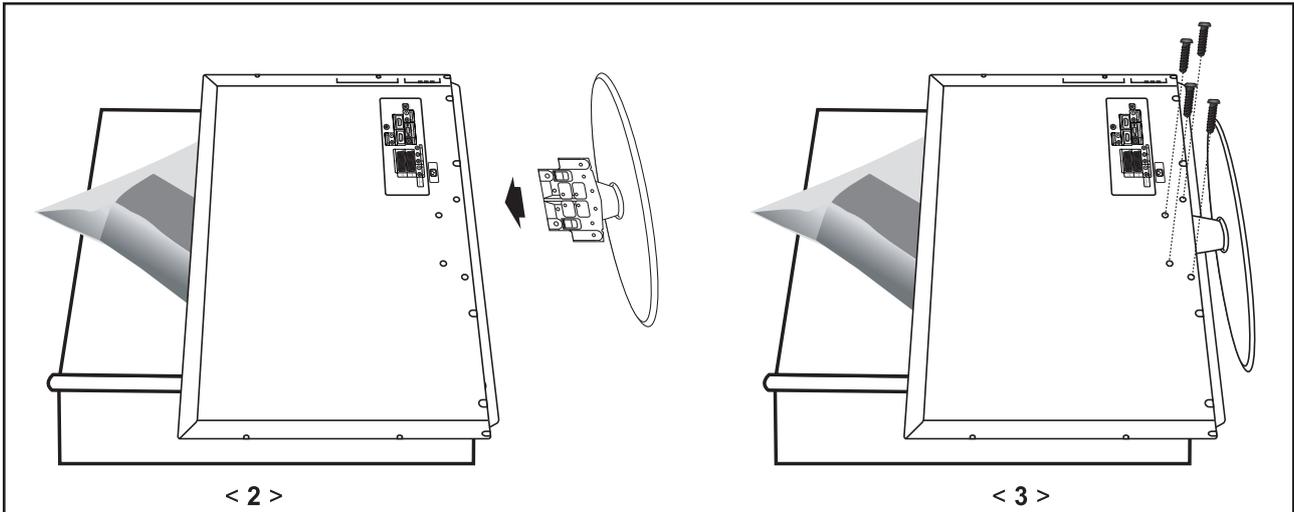
10-3 Remote Control



1. Selects a target device to be controlled by the Samsung remote control (TV, DVD, STB, CABLE, VCR)
 2. Television Standby button
 3. Number buttons for direct channel access
 4. One/Two-digit channel selection
 5. It display "Channel Manager" on the screen.
 6. Selects the TV mode directly
 7. VCR/DVD Functions
Rewind, Stop, Play/Pause, Fast/Forward
 8. ⊕ Volume increase
⊖ Volume decrease
 9. Temporary sound switch-off
 10. Menu display and change confirmation
 11. Picture-In-Picture On / Off
 12. Picture effect selection
 13. Sound effect selection
 14. Sound mode selection
 15. SRS TSXT selection
 16. SET : Adjusts 5 separate devices - TV, DVD, STB, CABLE, or VCR.
RESET : When your remote does not work, change the batteries and press the "RESET" button for 2-3 seconds before use.
 17. Available source selection
 18. When pressing this button, a number of buttons on the remote control (e.g. Selects a target device, volume, channel and MUTE buttons) light up for a few seconds and then turn off to save power.
This function is to conveniently use the remote control at night or when dark.
 19. Previous channel
 20. Automatic Power-off
 21. This function enables you to load saved photo (JPEG) and audio files (MP3) and to view or play them on the TV.
 22. P ⊕ : Next channel
P ⊖ : Previous channel
 23. Exit the OSD
 24. Control the cursor in the menu
 25. Use to see information on the current broadcast
 28. Picture size selection
 29. Selects the PC mode directly
 30. Picture freeze
 31. Input source selection
- Teletext Functions**
6. Exit from the teletext display
 10. Teletext index
 11. Teletext hold
 12. Teletext size selection
 14. Teletext store
 17. Teletext mode selection (LIST/FLOF)
 19. Teletext sub page
 22. P : Teletext next page
P : Teletext previous page
 23. Teletext cancel
 25. Teletext reveal
 26. Alternately select Teletext, Double, or Mix.
 27. Fastext topic selection

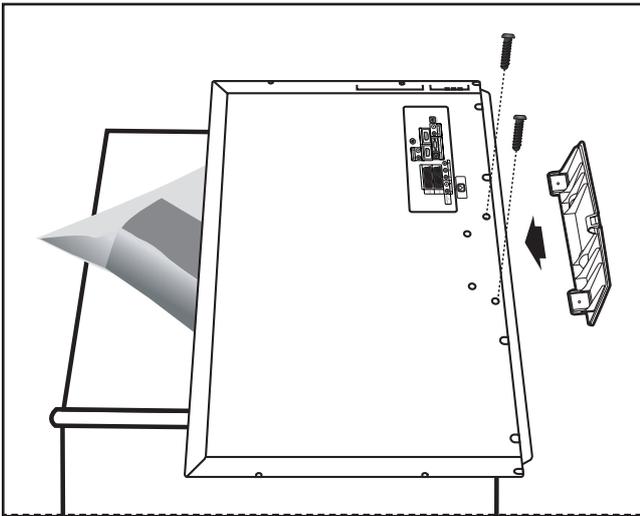
- ▶ The performance of the remote control may be affected by bright light.
- ▶ This is a special remote contro for the visually impaired, and has Braille points on the Power, Channel and Volume buttons.

10-4 Installing the Stand



1. Place the TV faced down on a soft cloth or cushion on a table.
2. Put the stand into the hole at the bottom of the TV.
3. Insert screw into the hole indicated and tighten.
 - ▶ The stand is installed for models with the screen size of 40 inch and above.

10-5 Installing the Wall Mount Kit



Wall mount items (sold separately) allow you to mount the TV on the wall.

For detailed information on installing the wall mount, see the instructions provided with the Wall Mount items. Contact a technician for assistance when installing the wall mounted bracket.

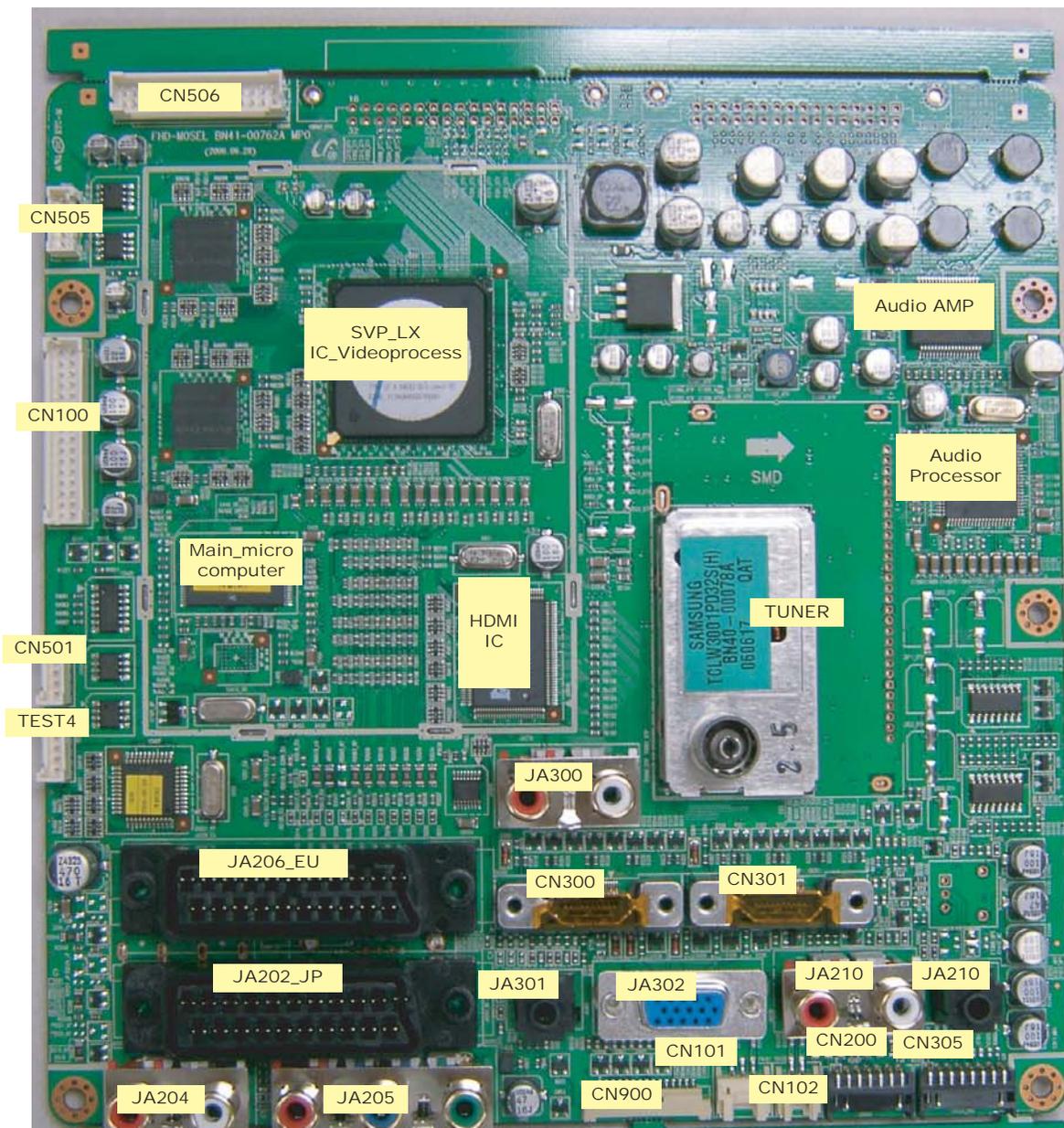
Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV on your own.

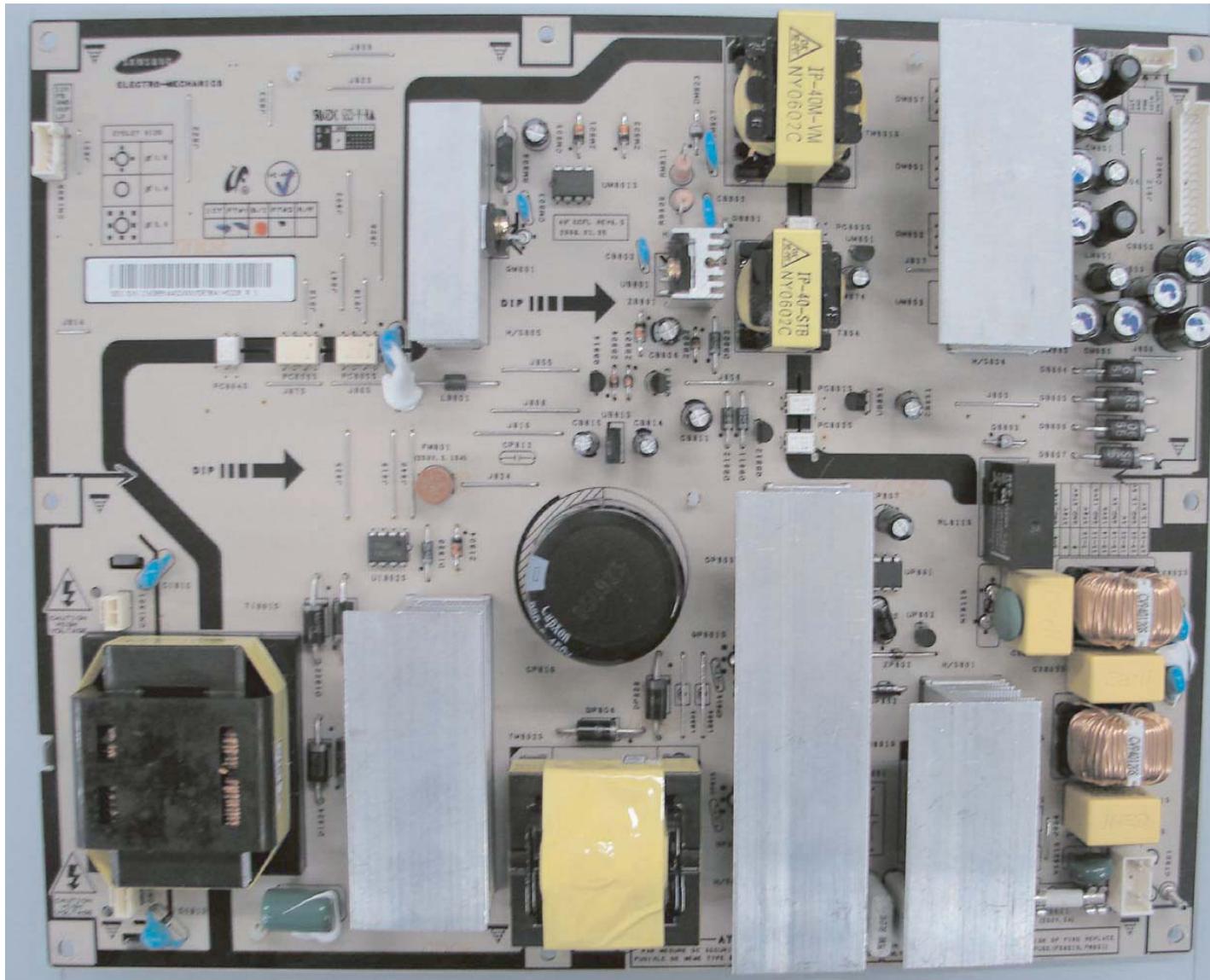
- ▶ Remove the stand and cover the bottom hole with a cap and fasten with two screws.

Memo

12 PCB Diagram

12-1 Main PCB Layout





Memo

1 Precautions

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock.

1-1 Safety Precautions

1-1-1 Warnings

1. For continued safety, do not attempt to modify the circuit board.
2. Disconnect the AC power and DC Power Jack before servicing.

1-1-2 Servicing the LCD Monitor

1. When servicing the LCD Monitor Disconnect the AC line cord from the AC outlet.
2. It is essential that service technicians have an accurate voltage meter available at all times. Check the calibration of this meter periodically.

1-1-3 Fire and Shock Hazard

Before returning the monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check (Figure 1-1):
WARNING: Do not use an isolation transformer during this test.

Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, *Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

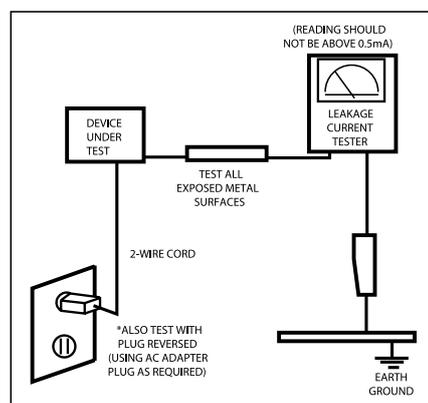


Figure 1-1. Leakage Current Test Circuit

1-1-4 Product Safety Notices

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by \triangle on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

1-2 Servicing Precautions

WARNING: An electrolytic capacitor installed with the wrong polarity might explode.

Caution: Before servicing units covered by this service manual, read and follow the Safety Precautions section of this manual.

Note: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.

1-2-1 General Servicing

Precautions

1. Always unplug the unit's AC power cord from the AC power source and disconnect the DC Power Jack before attempting to:
 - (a) remove or reinstall any component or assembly, (b) disconnect PCB plugs or connectors, (c) connect a test component in parallel with an electrolytic capacitor.
2. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
3. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
4. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
5. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to the blades of the AC plug.

The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
6. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

1-3 Static Electricity Precautions

Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components are commonly called Electrostatically Sensitive Devices (ESD). Examples of typical ESD are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as anti-static can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution: Be sure no power is applied to the chassis or circuit and observe all other safety precautions.
8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.

1-4 Installation Precautions

1. For safety reasons, more than two people are required for carrying the product.
2. Keep the power cord away from any heat emitting devices, as a melted covering may cause fire or electric shock.
3. Do not place the product in areas with poor ventilation such as a bookshelf or closet. The increased internal temperature may cause fire.
4. Bend the external antenna cable when connecting it to the product. This is a measure to protect it from being exposed to moisture. Otherwise, it may cause a fire or electric shock.
5. Make sure to turn the power off and unplug the power cord from the outlet before repositioning the product. Also check the antenna cable or the external connectors if they are fully unplugged. Damage to the cord may cause fire or electric shock.
6. Keep the antenna far away from any high-voltage cables and install it firmly. Contact with the high-voltage cable or the antenna falling over may cause fire or electric shock.
7. When installing the product, leave enough space (10cm) between the product and the wall for ventilation purposes. A rise in temperature within the product may cause fire.

1 Precautions

Memo

2 Product specifications

2-1 Fashion Feature

Wise link

- Accept 10 types of Memory Cards including USB (10 in 3)
Excellent Compatibility. SD/MMC/CF/MD/MS/MSPRO/XD/SM

Smooth Motion Driver

- No ghosting, No Smearing Edge in image
powered by Smooth Motion Driver Engine of Samsung LCD TV

Wide Color Gamut

- More natural and vivid picture quality by WCG (127%)

High Dynamic Contrast

- 7000:1 Highest dynamic Contrast Ratio

Best Off-Angle Viewing

- Widened Viewing Angle , 178 ° / 178 ° (Left/Right)

Real 10 Bit

- Panel 10 Bit + Signal Processing 10 Bit

Game Mode

- Present the most suitable picture for gaming

Swivel Stand

- 20 ° / 20 ° (left/right)

Full HD

- 1080p (1920 x 1080 Pixels)

2-2 LE40F71B Specifications

Item	Description	
LCD Panel	A-si TFT matrix, 40" Diagonal, 0.46125(H) x 0.15375(V) x 3mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 80 kHz (Automatic) / Vertical : 56 Hz ~ 75 Hz (Automatic)	
Display Colors	16.7 M colours	
Maximum Resolution	Horizontal : 1920 Pixels Vertical : 1080 Pixels	
Input Video Signal	Analog 0.7 Vp-p \pm 5% positive at 75 Ω , internally terminated	
Input Sync Signal	Type : Seperate H/V Level : TTL level	
Maximum Pixel Clock rate	166.8 MHz	
Active Display Horizontal/Vertical	885.6 (H) mm / 498.15 (V) mm	
AC power voltage & Frequency	AC 220 ~ 240V, 50 ~ 60 Hz	
Power Consumption	210 W < 1W	
Dimensions(W x D x H) Set	994.0 x 92.0 x 647.0 mm (39.13 x 3.62 x 25.47 inches) Without stand 994.0 x 290.0 x 696.0 mm (39.13 x 11.41 x 27.40 inches) After installation Stand	
Weight Set(After installation Stand)	24.3 kg (53.57 lbs)	
TV System	Tunning	Frequency Synthesize
	System	PAL, SECAM
	Sound	MONO, STEREO, NICAM
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
Antena Input	75 Ω	
Sound Characteristic	<ul style="list-style-type: none"> - MAX Internal speaker Out : Right : 10W / Left : 10W - BASS Control Range : -8 dB ~ + 8dB - TREBLE Control Range : -8 dB ~ +8 dB - Headphone Out : 10 mW MAX - Output Frequency : RF : 80 Hz ~ 15 kHz A/V : 80 Hz ~ 20 kHz 	

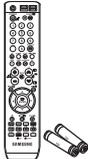
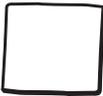
2-3 LE46F71B Specifications

Item	Description	
LCD Panel	a-si TFT active matrix, 46" Diagonal, 0.53025(H)*0.17675(V)*3 mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 80 kHz (Automatic) / Vertical : 56 Hz ~ 75 Hz (Automatic)	
Display Colors	16.7 M colours	
Maximum Resolution	Horizontal : 1920 Pixels Vertical : 1080 Pixels	
Input Video Signal	Analog 0.7 Vp-p \pm 5% positive at 75 Ω , internally terminated	
Input Sync Signal	Type : Seperate H/V Level : TTL level	
Maximum Pixel Clock rate	166.8 MHz	
Active Display Horizontal/Vertical	1018.08(H)mm x 572.67(V)mm	
AC power voltage & Frequency	AC 220 ~ 240V, 50 ~ 60 Hz	
Power Consumption	300 W < 1W	
Dimensions(W x D x H) Set	44.4 x 12.8 x 31 inches (1129 x 326 x 788 mm) Without stand 44.4 x 4.2 x 28.8 inches (1129 x 106 x 732 mm) After installation Stand	
Weight Set(After installation Stand)	35.5kg (78.26lbs)	
TV System	Tunning	Frequency Synthesize
	System	PAL, SECAM
	Sound	MONO, STEREO, NICAM
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
Antena Input	75 Ω	
Sound Characteristic	<ul style="list-style-type: none"> - MAX Internal speaker Out : Right : 10W / Left : 10W - BASS Control Range : -8 dB ~ + 8dB - TREBLE Control Range : -8 dB ~ +8 dB - Headphone Out : 10 mW MAX - Output Frequency : RF : 80 Hz ~ 15 kHz A/V : 80 Hz ~ 20 kHz 	

2-4 Spec Comparison

Model	LE40M71B	LE40F71B / LE46F71B
Design		
Frequency Horizontal Vertical Display Color	30 ~ 61 kHz 100 ~ 120 Hz 16,777,216 colors	30 ~ 61 kHz 60 ~ 75 Hz 16,777,216 colors
PC Resolution Maximum mode	WXGA, 1366 x 768 @ 60 Hz	WXGA, 1920 x 1080 @ 60 Hz
Input Signal Sync Signal Video Signal	H/V Separate, TTL, P. or N. 0.7 Vp-p @ 75ohm	H/V Separate, TTL, P. or N. 0.7 Vp-p @ 75ohm
Power Consumption Normal Power Saving	205W < 1W	210W < 1W

2-5 Option Specification

Item	Item Name	Code.No	Remark
	Remote Control & Batteries (AAA x 2)	BN59-00530A	
	Power Cord	3903-000042	
	Cover-Bottom	BN63-02491A	
	Cleaning Cloth	BN63-01798A	

Memo

14 Reference Information

14-1 Technical Terms

- TFT-LCD

(Thin film Transistor Liquid Crystal Display)

ADC(Analog to Digital Converter)

This is a circuit that converts from analog signal to digital signals.

- PLL(Phase Locked Loop)

During progressing ADC, Device makes clock synchronizing HSYNC with Video clock

- Inverter

Device that supply Power to LCD panel lamp. this device generate about 1,500~2,000V.

- AC Adapter

Device that converts AC(90V~240V) to DC(+12V or 14V)

- SMPS(Switching Mode Power Supply)

Switching Mode Power supply. This design technology is used to step up/down the input power by switching on/off

- FRC(Frame Rate Controller)

Technology that change image frame quantity displayed on screen for one second.

Actually TFT-LCD panel require 60 pcs of frame for one second.

so, this technology is needed to convert input image to 60 pcs regardless input frame quantity.

- Image Scaler

Technology that convert various input resolution to other resolution.(ex. 640* 480 to 1024*768)

- Auto Configuration(Auto adjustment)

This is an algorithm to adjust monitor to optimum condition by pushing one key.

- OSD(On Screen Display)

On screen display. customer can control the screen easily with this.

- Image Lock

This means "Fineness adjustment" in LCD Monitor, the features are "Fine" and "Coarse"

- FINE

"Fine" adjustment is used to adjust visibility by control phase difference.

- COARSE

This is a adjustment by tuning with Video colck and PLL clock.

- DVI (Digital Visual Interface)

This provides a high speed digital connection for visual data types that is display technology independent. this interface is primarily focused at providing a connection between a computer and its display device.

- L.V.D.S.(Low Voltage Differential Signaling)

a kind of transmission method for Digital.It can be used from Main PBA to Panel.

- DVI (Digital Visual Interface)

This provides a high speed digital connection for visual data types that is display technology independent. this interface is primarily focused at providing a connection between a computer and its display device.

- T.M.D.S

(Transition minimized Differential Signaling)

a kind of transmission method for Digital.

It can be used from Video card to Main PBA.

- DDC(Display data channel)

It is a communication method between Host Computer and related equipment.

It can make it Plug and Play between PC and Monitor.

- EDID

Extended Display Identification Data PC can recognize the monitor information as Product data, Product name, Display mode, Serial number and Signal source, etc through DDC Line communicating with PC and Monitor.

- Dot Pitch

The image on a monitor is composed of red, green and blue dots. The closer the dots, the higher the resolution. The distance between two dots of the same color is called the 'Dot Pitch'. Unit: mm

- Vertical Frequency

The screen must be redrawn several times per second in order to create and display an image for the user. The frequency of this repetition per second is called Vertical Frequency or Refresh Rate.

Unit: Hz

Example: If the same light repeats itself 60 times per second, this is regarded as 60 Hz.

- Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Frequency.

Unit: kHz

- Interlace and Non-Interlace Methods

Showing the horizontal lines of the screen from the top to the bottom in order is called the Non-Interlace method while showing odd lines and then even lines in turn is called the Interlace method.

The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same as that used in TVs.

- Plug & Play

This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically.

This monitor follows the international standard VESA DDC for the Plug & Play function.

- Resolution

The number of horizontal and vertical dots used to compose the screen image is called 'resolution'.

This number shows the accuracy of the display.

High resolution is good for performing multiple tasks as more image information can be shown on the screen.

Example: If the resolution is 1280 x 1024, this means the screen is composed of 1280 horizontal dots (horizontal resolution) and 1024 vertical lines (vertical resolution).

- BTSC

Broadcast Television System Committee

The stereo broadcasting system that is used in most of the countries that have adopted the NTSC system, including the United States, Canada, Chile, Venezuela and Taiwan. It also refers to the organization that has been organized to promote its development and management.

- EIAJ

Electronic Industries Association of Japan.

- RF Cable

A round signal cable generally used for TV antennas.

- Satellite Broadcasting

Broadcasting service provided via satellite. Enables high picture quality and clear sound throughout the country regardless of the location of the viewer.

- Sound Balance

Balances the levels of the sound coming from each speaker in televisions with two speakers.

- Cable TV

Whereas the terrestrial broadcasting is delivered via frequency signals through the air, cable broadcasting is transmitted via a cable network. In order to view cable TV, one must purchase a cable receiver and hook it up to the cable network.

- CATV

"CATV" refers to the broadcasting service offered at hotels, schools and other buildings through their own broadcasting system, apart from VHF or UHF broadcasting by terrestrial broadcasters. The CATV programs may include movies, entertainment and educational programs. (Different from cable TV.)

CATV can be viewed only within the area in which the CATV service is offered.

- S-Video

Short for "Super Video." S-Video allows up to 800 lines of horizontal resolution, enabling high-quality video.

- VHF/UHF

VHF indicates TV channels 2 to 13, and UHF indicates channels 14 through 69.

- Channel Fine Tuning

This feature allows the viewer to fine-tune the TV channel to obtain the best viewing conditions. The Samsung LCD TV has both automatic and manual channel fine-tuning features to enable the viewer to adjust their desired settings.

- External Device Input

External device input refers to video input from such external video devices as VCRs, camcorders and DVD players, separate from a TV broadcast.

14-2 Pin Assignments

14-2-1 DVI-D

Pin No.	Sync Type	24P DVI-D	
1	Rx2-	13	NC
2	Rx2+	14	DDC Input power (+5V)
3	GND	15	IDENT-DVI
4	NC	16	Output Signal (HDCP Control)
5	NC	17	Rx0-
6	DDC - SCL	18	Rx0+
7	DDC - SDA	19	GND
8	NC	20	NC
9	Rx1-	21	NC
10	Rx1+	22	GND
11	GND	23	RxC+
12	NC	24	RxC-

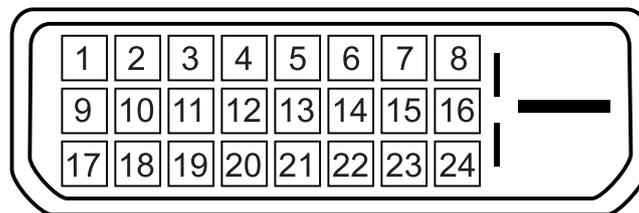


Figure 1.

14-2-2 Component

RCA Green	Y
	GND
RCA Blue	Pb (Cb)
	GND
RCA Red	Pr (Cr)
	GND
RCA White	Audio L
	GND
RCA Red	Audio R
	GND

14-2-4 A/V

RCA Yellow	CVBS
RCA White	Audio L
	GND
RCA Red	Audio R
	GND

14-2-6 PC Display mode

Both screen position and size will vary depending on the type of PC monitor and its resolution.

The resolutions in the table are recommended. (All resolutions between the supported limits are supported)

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (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	+ / +

- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.
- DVI dose not support PC function.

14-2-3 S-Video

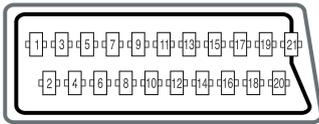
Pin	Separate
1	GND
2	Y
3	C
4	GND
5	GND

14-2-5 D-SUB

Pin	Separate
1	Red
2	Green
3	Blue
4	GND
5	GND
6	GND Red
7	GND Green
8	GND Blue
9	DDC Input power(+5V)
10	IDENT PC
11	GND
12	DDC Data(SDA)
13	H SYNC
14	V SYNC
15	DDC Clock(SCL)

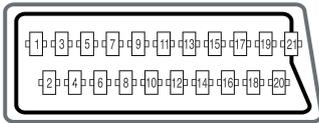
14 Reference Information

14-2-7 Scart 1



Pin	Signal	Pin	Signal
1	Audio output R	12	NC
2	Audio input R	13	Video GND (RGB red)
3	Audio output L	14	GND
4	Audio common GND	15	RGB red input
5	Video GND (RGB blue)	16	Fast Blanking signal (RGB switching)
6	Audio input L	17	Video output GND
7	RGB blue input	18	Video input GND
8	Switching voltage	19	Video output (CVBS out)
9	Video GND (RGB green)	20	Video input (CVBS in)
10	NC	21	Common GND
11	RGB green input		

14-2-8 Scart 2



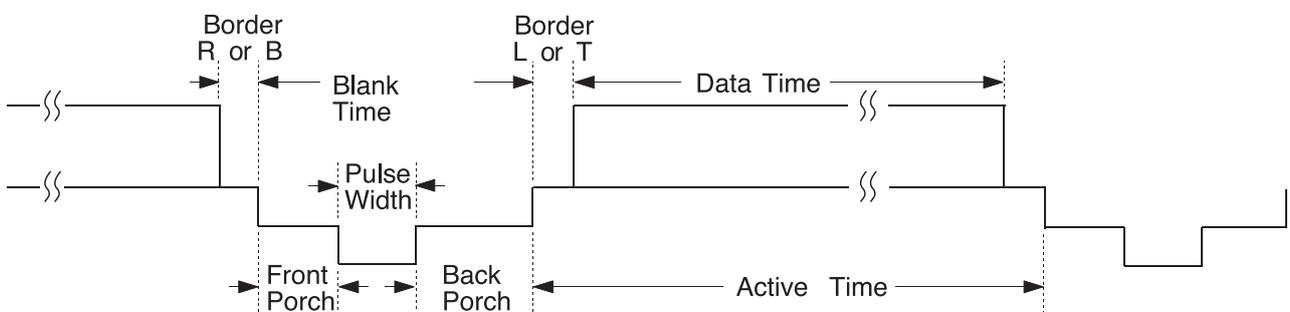
Pin	Signal	Pin	Signal
1	Audio output R	12	NC
2	Audio input R	13	Video GND (RGB red)
3	Audio output L	14	GND
4	Audio common GND	15	RGB red input
5	Video GND (RGB blue)	16	NC
6	Audio input L	17	Video output GND
7	RGB blue input	18	Video input GND
8	Switching voltage	19	Video output (CVBS out)
9	Video GND (RGB green)	20	Video input (CVBS in)
10	NC	21	Common GND
11	RGB green input		

14-3 Timing Chart

This section of the service manual describes the timing that the computer industry recognizes as standard for computer-generated video signals.

14-3-1 LCD Panel Mode1 mode

Timing No.	LTA400W2
Originator	VESA
Mode Name	1366/60Hz
Resolution (HxV)	1366x768
HORIZONTAL	
Frequency	47.712kHz
Total time	20.959 μ s
Active time	15.906 μ s
Blank time	5.053 μ s
Border(L / R)	0.000 μ s
Data time	15.906 μ s
Front porch	0.749 μ s
Sync. width	1.702 μ s
Back porch	2.994 μ s
Sync. polarity	Positive
VERTICAL	
Frequency	60.015Hz
Total time	16.662 ms
Active time	16.097ms
Blank time	0.566 ms
Border(T / B)	0.000 ms
Data time	16.097ms
Front porch	0.063 ms
Sync. width	0.105 ms
Back porch	0.377ms
Sync polarity	Positive
Dot Clock	85.500MHz
Sync. Type	Separate
Scan Type	N/I



14-3-2 Supported Modes (1)

Timing No.	2	3	11	17	32
Originator	IBM	IBM	VESA	VESA	MAC
Mode Name	VGA2	VGA3	640/72Hz	640/75Hz	640/67Hz
Resolution (HxV)	720x400	640x480	640x480	640x480	640x480
HORIZONTAL					
Frequency	31.469kHz	31.469kHz	37.861kHz	37.500kHz	35.000kHz
Total time	31.777 μ s	31.778 μ s	26.413 μ s	26.667 μ s	28.571 μ s
Active time	26.058 μ s	26.058 μ s	20.825 μ s	20.317 μ s	21.164 μ s
Blank time	5.720 μ s	5.720 μ s	5.588 μ s	6.350 μ s	7.407 μ s
Border(L / R)	0.318 μ s	0.318 μ s	0.254 μ s	0.000 μ s	0.000 μ s
Data time	25.422 μ s	25.422 μ s	20.317 μ s	20.317 μ s	21.164 μ s
Front porch	0.318 μ s	0.318 μ s	0.508 μ s	0.508 μ s	2.116 μ s
Sync. width	3.813 μ s	3.813 μ s	1.270 μ s	2.032 μ s	2.116 μ s
Back porch	1.589 μ s	1.589 μ s	3.810 μ s	3.810 μ s	3.175 μ s
Sync. polarity	Negative	Negative	Negative	Negative	Negative
VERTICAL					
Frequency	70.087Hz	59.940Hz	72.809Hz	75.000Hz	66.667Hz
Total time	14.268ms	16.683ms	13.735ms	13.333ms	15.000ms
Active time	13.155ms	15.761ms	13.100ms	12.800ms	13.714ms
Blank time	1.113ms	0.922ms	0.635ms	0.533ms	1.286ms
Border(T / B)	0.222ms	0.254ms	0.211ms	0.000ms	0.000ms
Data time	12.711ms	15.253ms	12.678ms	12.800ms	13.714ms
Front porch	0.191ms	0.064ms	0.026ms	0.027ms	0.086ms
Sync. width	0.064ms	0.064ms	0.079ms	0.080ms	0.086ms
Back porch	0.858ms	0.794ms	0.528ms	0.427ms	1.114ms
Sync polarity	Positive	Negative	Negative	Negative	Negative
Dot Clock	28.322MHz	25.175MHz	31.500MHz	31.500MHz	30.240MHz
Sync. Type	Separate	Separate	Separate	Separate	Separate
Scan Type	N/I	N/I	N/I	N/I	N/I

14-3-3 Supported Modes (2)

Timing No.	13	14	18
Originator	VESA	VESA	VESA
Mode Name	800/60Hz	800/72Hz	800/75Hz
Resolution (HxV)	800x600	800x600	800x600
HORIZONTAL Frequency	37.879kHz	48.077kHz	46.875kHz
Total time	26.400 μ s	20.800 μ s	21.333 μ s
Active time	20.000 μ s	16.000 μ s	16.162 μ s
Blank time	6.400 μ s	4.800 μ s	5.171 μ s
Border(L / R)	0.000 μ s	0.000 μ s	0.000 μ s
Data time	20.000 μ s	16.000 μ s	16.162 μ s
Front porch	1.000 μ s	1.120 μ s	0.323 μ s
Sync. width	3.200 μ s	2.400 μ s	1.616 μ s
Back porch	2.200 μ s	1.280 μ s	3.232 μ s
Sync. polarity	Positive	Positive	Positive
VERTICAL Frequency	60.317Hz	72.188Hz	75.000Hz
Total time	16.579ms	13.853ms	13.333ms
Active time	15.840ms	12.480ms	12.800ms
Blank time	0.739ms	1.373ms	0.533ms
Border(T / B)	0.000ms	0.000ms	0.000ms
Data time	15.840ms	12.480ms	12.800ms
Front porch	0.026ms	0.770ms	0.021ms
Sync. width	0.106ms	0.125ms	0.064ms
Back porch	0.607ms	0.478ms	0.448ms
Sync polarity	Positive	Positive	Positive
Dot Clock	40.000MHz	50.000MHz	49.500MHz
Sync. Type	Separate	Separate	Separate
Scan Type	N/I	N/I	N/I

14-3-4 Supported Modes (3)

Timing No.	15	16	19	
Originator	VESA	VESA	VESA	VESA
Mode Name	1024/60Hz	1024/70Hz	1024/75Hz	1360/60Hz
Resolution (HxV)	1024x768	1024x768	1024x768	1360x768
HORIZONTAL				
Frequency	48.363kHz	56.476kHz	60.023kHz	47.712kHz
Total time	20.677 μ s	17.707 μ s	16.660 μ s	20.959 μ s
Active time	15.754 μ s	13.653 μ s	13.003 μ s	15.906 μ s
Blank time	4.923 μ s	4.053 μ s	3.777 μ s	5.053 μ s
Border(L / R)	0.000 μ s	0.000 μ s	0.000 μ s	0.000 μ s
Data time	15.754 μ s	13.653 μ s	13.003 μ s	15.906 μ s
Front porch	0.369 μ s	0.320 μ s	0.323 μ s	0.749 μ s
Sync. width	2.092 μ s	1.813 μ s	1.219 μ s	1.702 μ s
Back porch	2.462 μ s	1.920 μ s	2.235 μ s	2.994 μ s
Sync. polarity	Negative	Negative	Positive	Positive
VERTICAL				
Frequency	60.004Hz	70.069Hz	75.029Hz	60.015Hz
Total time	16.666ms	14.272ms	13.328ms	16.662ms
Active time	15.880ms	13.599ms	12.795ms	16.097ms
Blank time	0.786ms	0.672ms	0.533ms	0.566ms
Border(T / B)	0.000ms	0.000ms	0.000ms	0.000ms
Data time	15.880ms	13.599ms	12.795ms	16.097ms
Front porch	0.062ms	0.053ms	0.017ms	0.063ms
Sync. width	0.124ms	0.106ms	0.050ms	0.105ms
Back porch	0.600ms	0.513ms	0.466ms	0.377ms
Sync polarity	Negative	Negative	Positive	Positive
Dot Clock	65.000MHz	75.000MHz	78.750MHz	85.500MHz
Sync. Type	Separate	Separate	Separate	Separate
Scan Type	N/I	N/I	N/I	N/I

14-4 Panel Description

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
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

14 Reference Information

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
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

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
SEC	LTA260W2-L01	BN07-00185A	SPZ		AMLCD 26" 16:9 new Panel
SEC	LTM240M1-L01	BN07-00195A	SPH		24" panel with high brightness development
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	LTM213U6-L01	BN07-00231B	SPH		AMLCD 21.3" PVA Panel HPD 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
SEC	LTM190M2-L01	BN07-00227A	STZ		AMLCD 19" TN Wide new Panel Code development
SEC	LTM201UX-L01	BN07-00249A	STZ		AMLCD 20.1" TN new Panel Code development
SEC	LTM240M1-L02-A05	BN07-00250A	SPZ		24" High luminance Slim panel ZPD code
SEC	LTA320W3-L02	BN07-00219A	SPZ		AMLCD 32" new Panel
SEC	LTA320W2-L11	BN07-00259A	SPZ		AMLCD 32" 16:9 IP Board Panel
SEC	LTA460WS-L02	BN07-00252A	SPZ		AMLCD 46" 16:9 SPVA 72% Panel
SEC	LTA400WT-L01	BN07-00264A	SPZ		
SEC	LTM240M2-L02	BN07-00267A	SPZ		LCD Monitor 24" wide SPVA ZPD new code
SEC	LTM210M2-L02	BN07-00230A	SPZ		
SEC	LTA320WT-L11	BN07-00257A	SPZ		
SEC	LTM190EX-L21-G	BN07-00274A	STZ		AMLCD 19" TN Glare new Panel Code
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	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		-

14 Reference Information

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
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
HANNSTAR	HSD150MX17-A	BN07-00226A	NTZ		Hannstar 15" slim panel ZPD code derivation
HANNSTAR	HSD190ME12-A10	BN07-00256A	NTZ		Hannstar 19" TN PSWG 8ms new panel development
HANNSTAR	HSD190ME13-D11	BN07-00270A	NTZ		Hannstar 19" TN Slim 5ms new panel development
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/C) 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

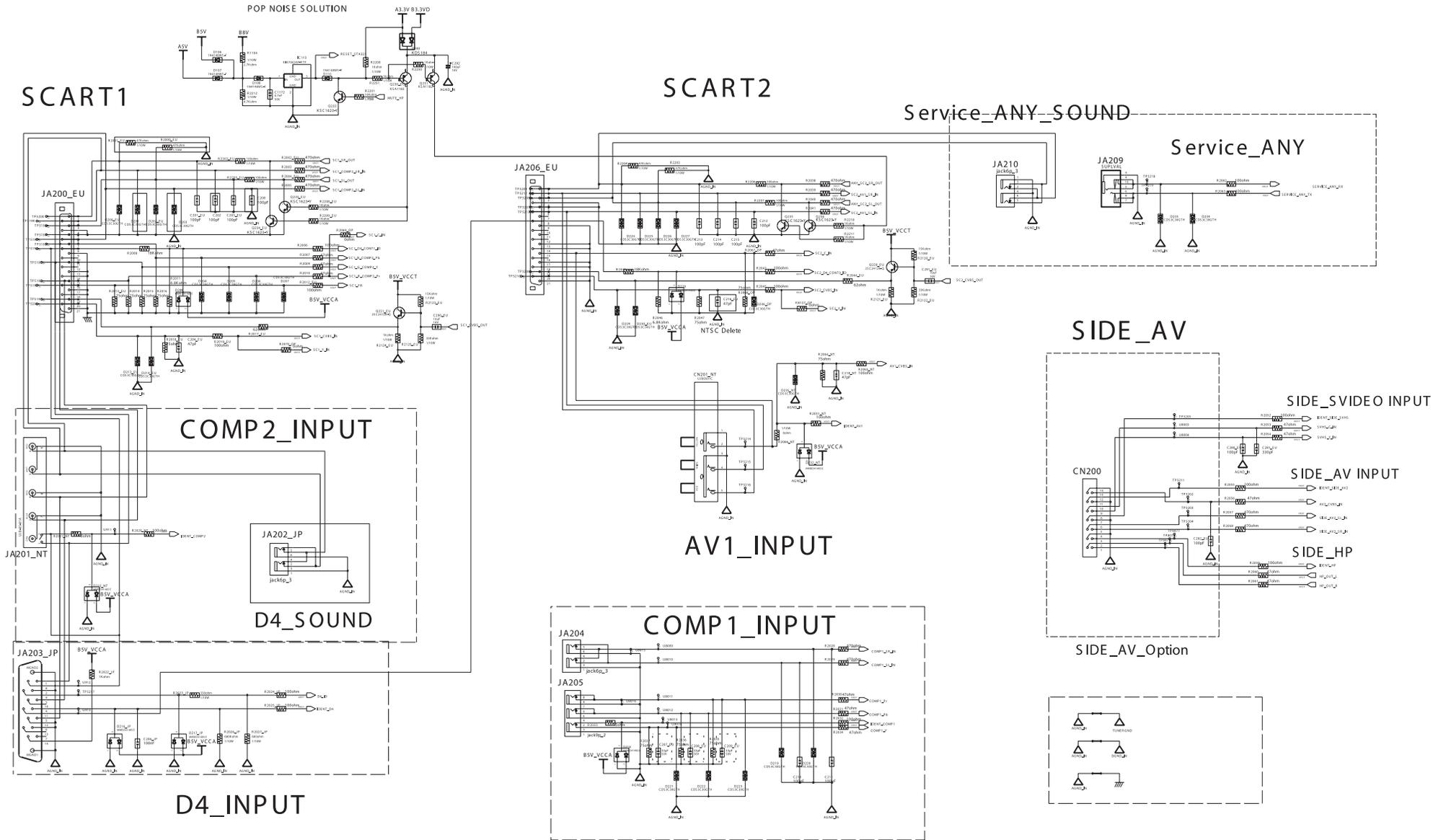
Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
HYUNDAI	HT15X13	BN07-00035A	DA		-
HYUNDAI	HT17E11-200	BN07-00049A	DB		TN MODE
HYUNDAI	HT17E11-300	BN07-00093A	DC		HT17E11-300 ZPD panel
HYUNDAI	HT17E11-400	BN07-00094A	DD		HT17E11-400 normal panel
HYUNDAI	HT17E11-400	BN07-00095A	DE		HT17E11-400 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"" Hydis TV"
HYUNDAI	HT15X15-D01	BN07-00146B	DJ		"Derivation panel HPD for Ares 15"" Hydis TV "
HYUNDAI	HT17E13-100	BN07-00167A	DTH		"PINEHURST-2(IBM) PJT 17"" HYDIS PANEL Derivation"
HYUNDAI	HT17E13-100	BN07-00167B	DTZ		"PINEHURST-2(IBM) Hydis 17"" ZPD code Derivation"
HYUNDAI	HT170EX1-100	BN07-00240A	DTZ		17" EX compatible Hydis Slim panel development
HYUNDAI	HT201V01-100	BN07-00263A	DTZ		Hydis 20.1" 4:3 VGA Mode TN Panel
ACER	L170E3	BN07-00044A	AA		TN(ADT)
ACER	M170EN05	BN07-00076A	AB		AU 17" Panel (Narrow & slim design)
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		
ACER	M201UN02 V3	BN07-00168B	AMH		
ACER	M190EN04 V7	BN07-00248A	ATZ		AU Monitor 19" TN Glare ZPD new code derivation
ACER	A070VW01	BN07-00235A	ATZ		electronic Album new Panel code
ACER	T315XW01	BN07-00253A	AMZ		LCD TV VE item model : T315XW01
ACER	T260XW02	BN07-00254A	AMZ		AUO 26" VE item model
ACER	M170EU01	BN07-00260A	ATZ		AUO 17" Slim TN ZPD Type ½A±Ô code ÆEÄ»ý
ACER	T370XW01	BN07-00255A	AMZ		ROME 37" model
CHIMEI	M170E3-LO1	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"1 PVA PANEL
CHIMEI	M150X3-L01	BN07-00079A	CE		Chimei ZPD panel
CHIMEI	M170E3-L01	BN07-00103A	CF		ZPD Panel code

14 Reference Information

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
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
CHIMEI	M190E5-L0A	BN07-00213A	CTZ		
CHIMEI	M190E3-L0A	BN07-00212A	CMZ		CMO M190E3-L0A MVA Type new code
CHIMEI	M170E7-L01	BN07-00232A	CTZ		CMO 17" Slim TN ZPD Type new code
CHIMEI	M190A1-L01	BN07-00228A	CTZ		CMO 19" Wide TN ZPD Type new code
NEC	SVA150XG04TB	BN07-00225A	BTZ		SVA NEC 15" panel ZPD code

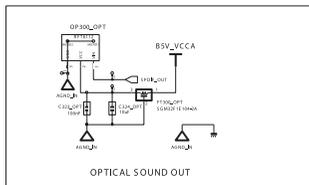
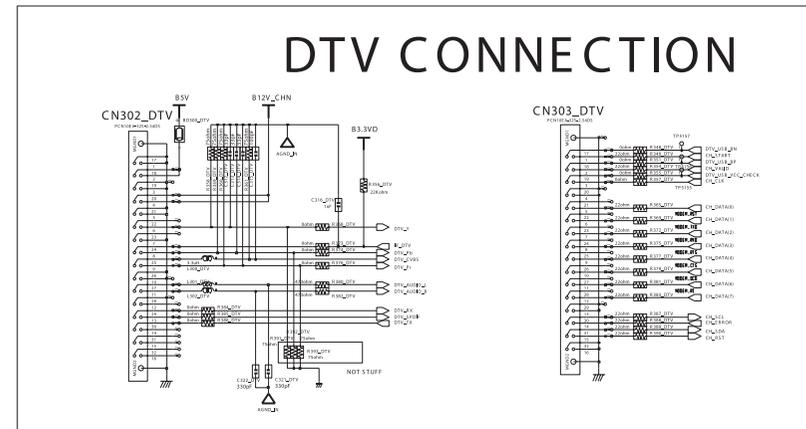
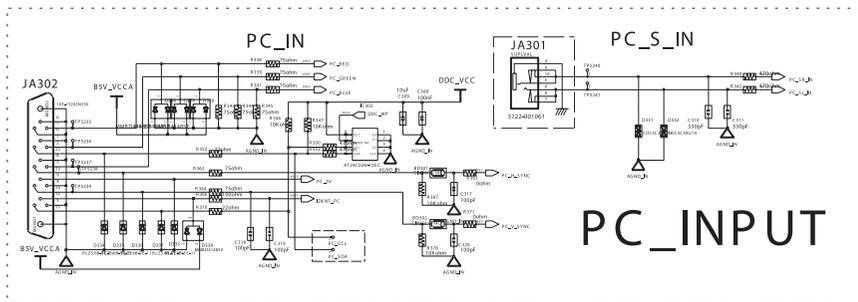
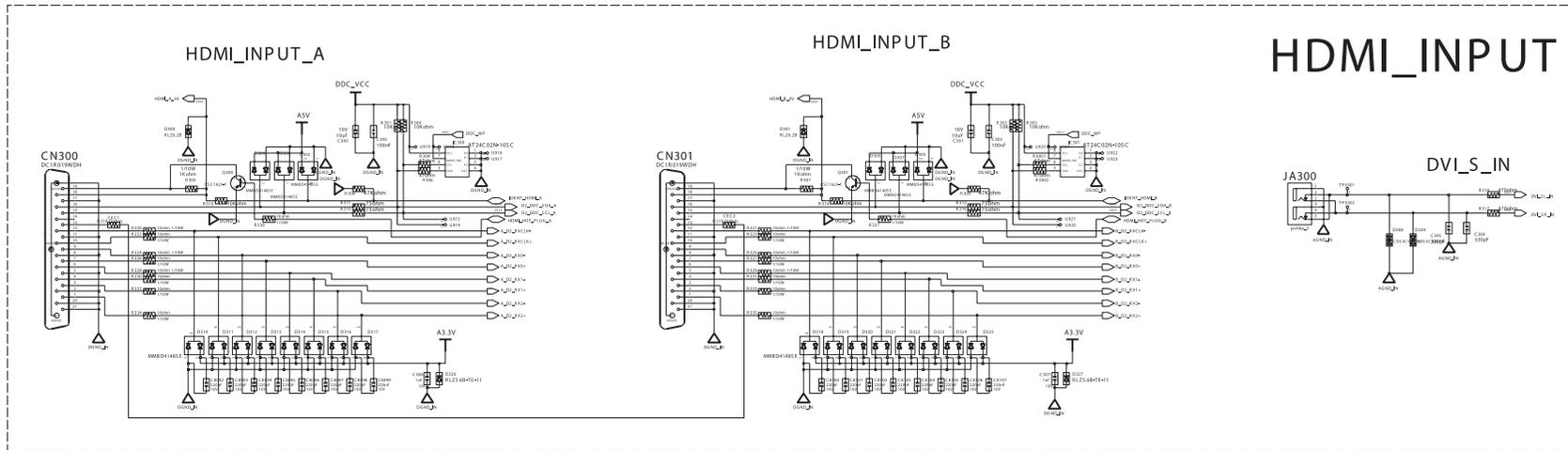
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9-2 Input & Output Schematic Diagram

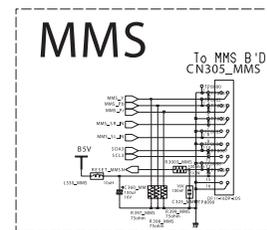
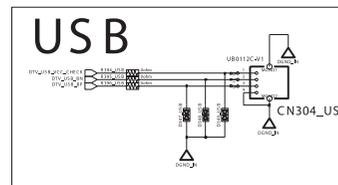


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9-3 Input & Output Schematic Diagram



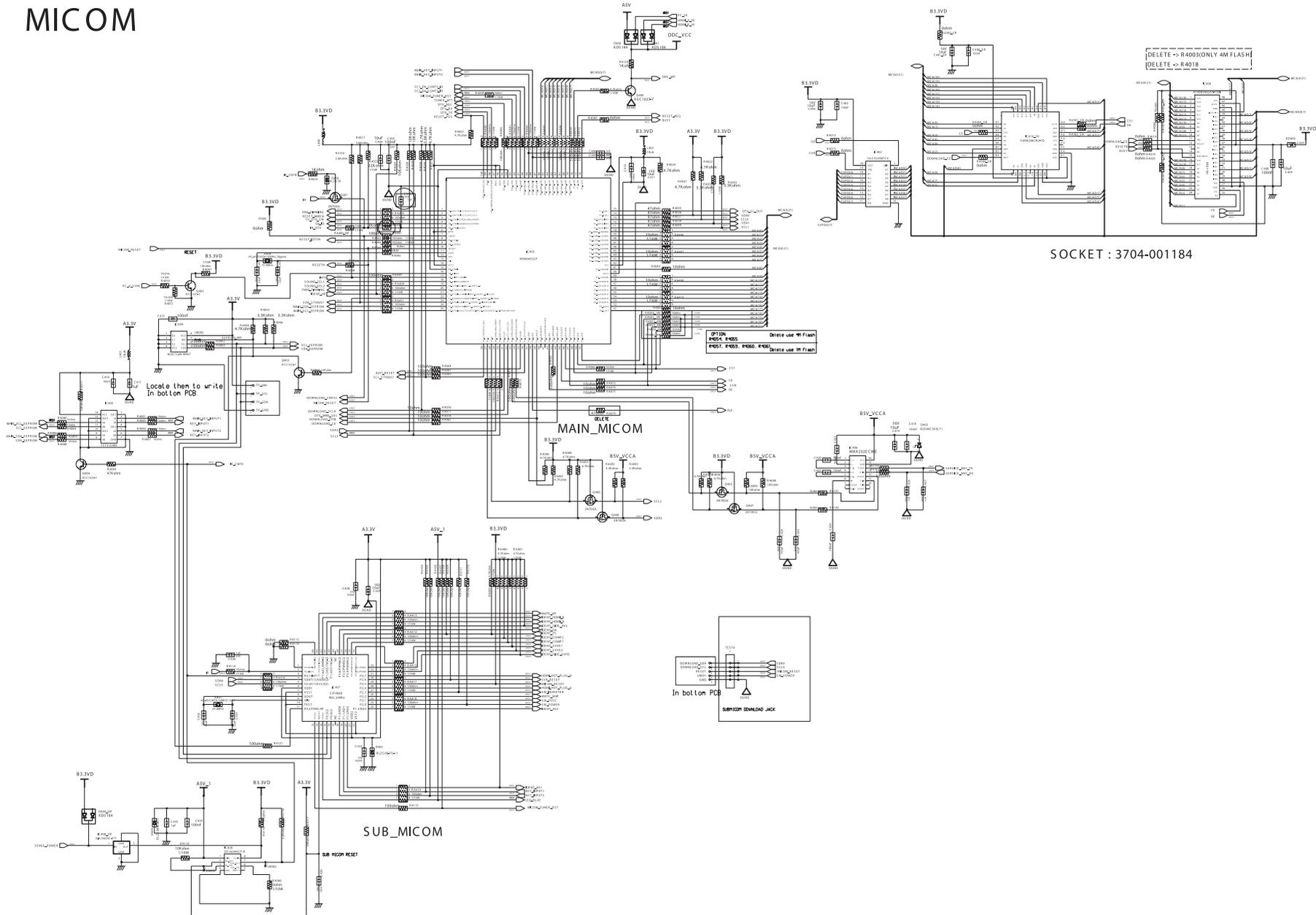
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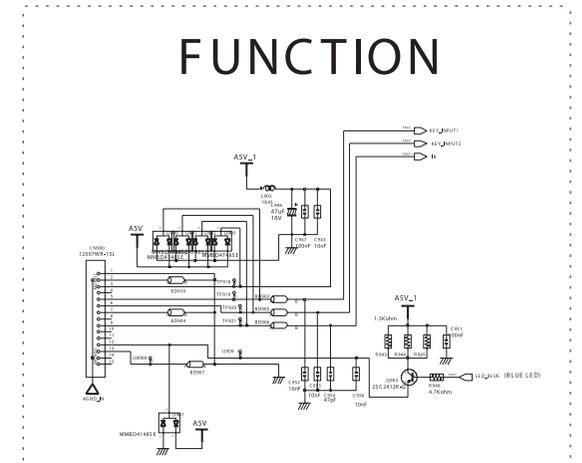
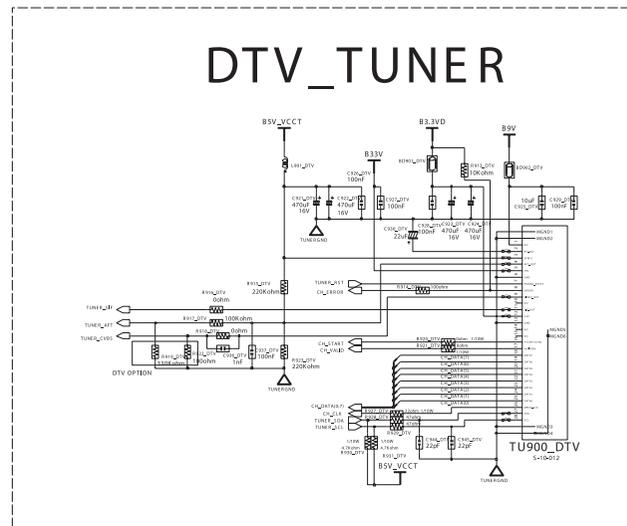
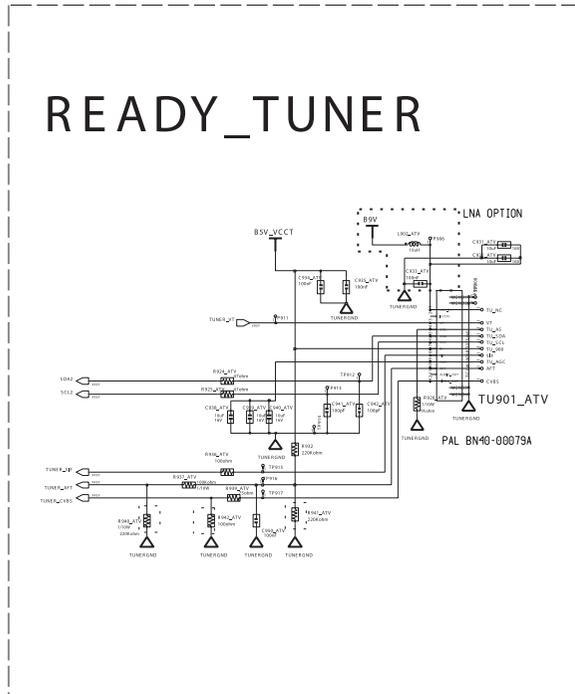
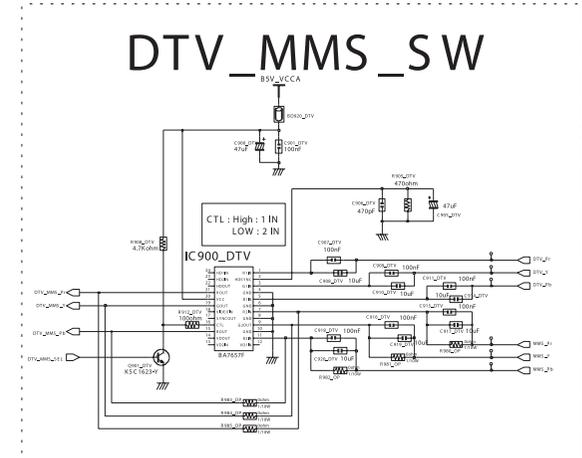
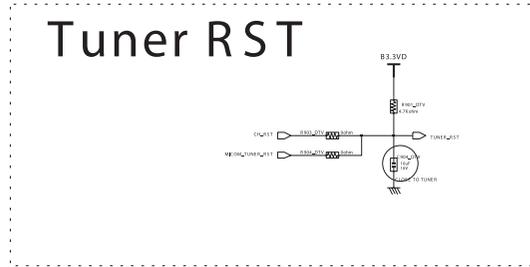
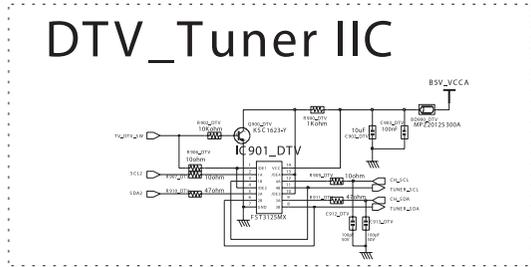
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9-4 Microm Schematic Diagram

MICOM



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 9-7 FRCH 100Hz LVDS Schematic Diagram



Memo

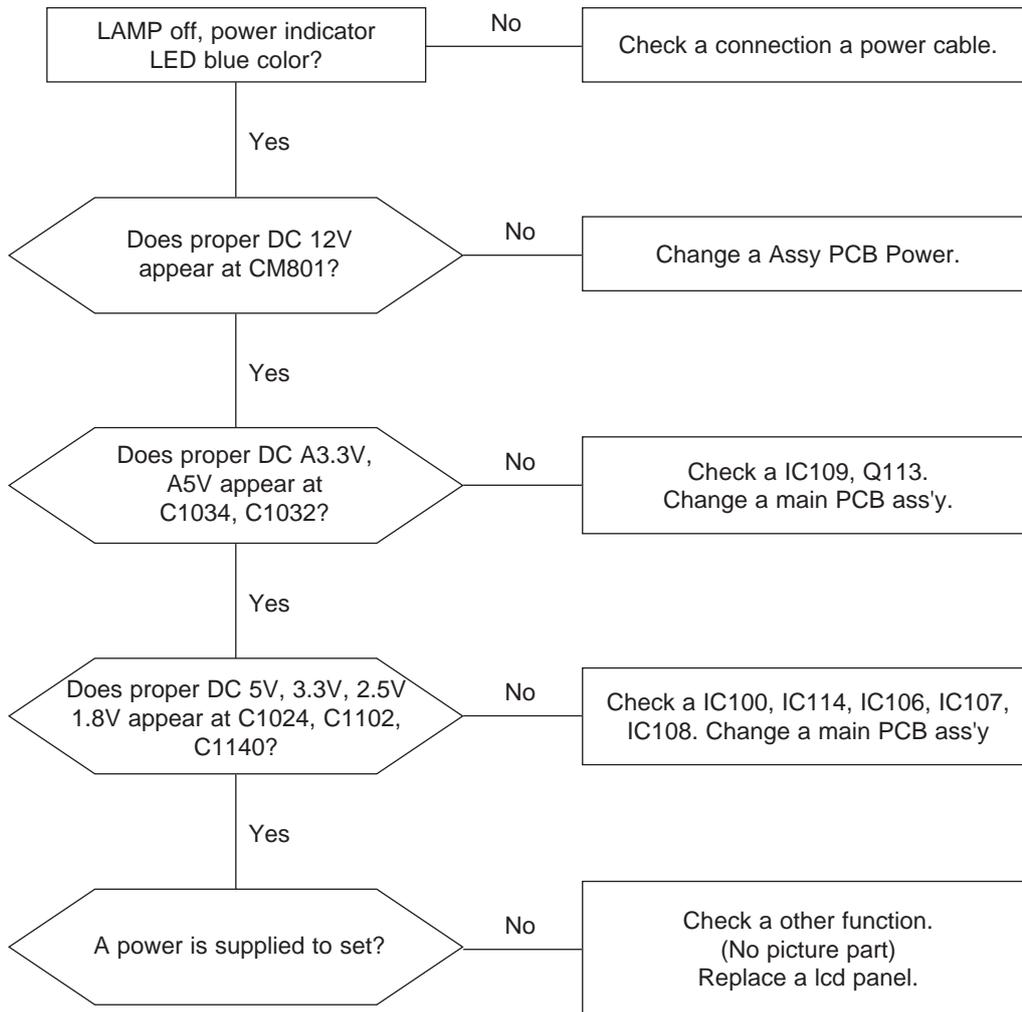
4 Troubleshooting

4-1 First Checklist for Troubleshooting

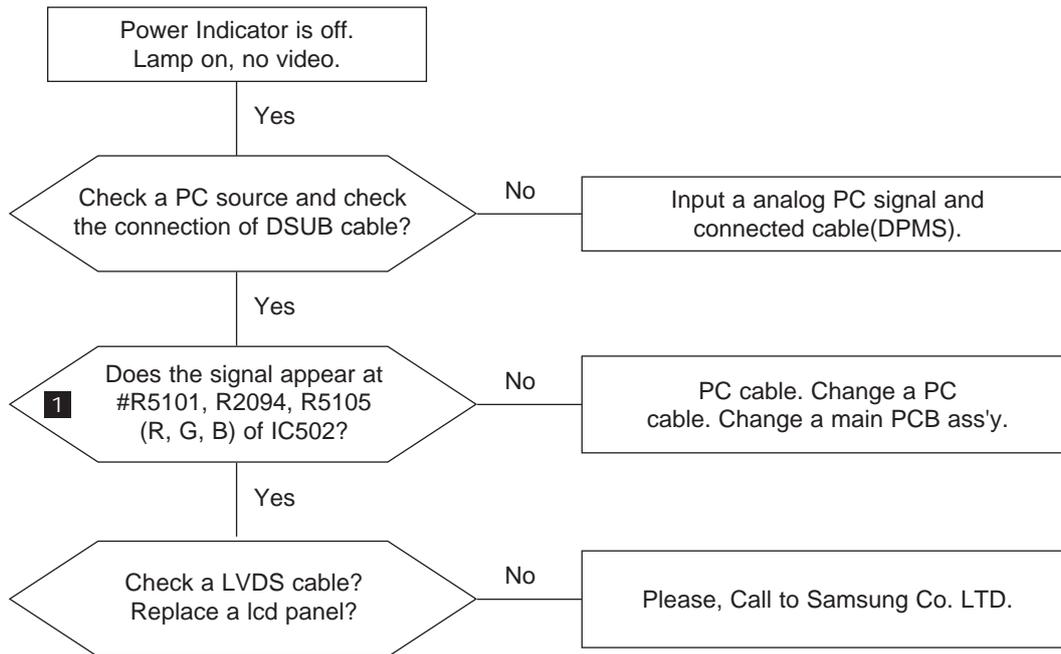
1. Check the various cable connections first.
 - Check to see if there is a burnt or damaged cable.
 - Check to see if there is a disconnected cable connection or a connection is too loose.
 - Check to see if the cables are connected according to the connection diagram.
2. Check the power input to the Main Board.
3. Check the voltage in and out between the SMPS ↔ Main Board, between the SMPS ↔ INVERTER Board, and between the Main LVDS Boards.

4-2 Checkpoints by Error Mode

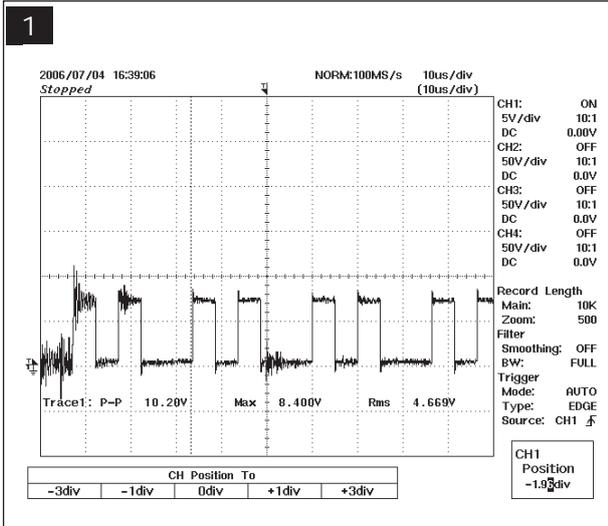
4-2-1 No Power



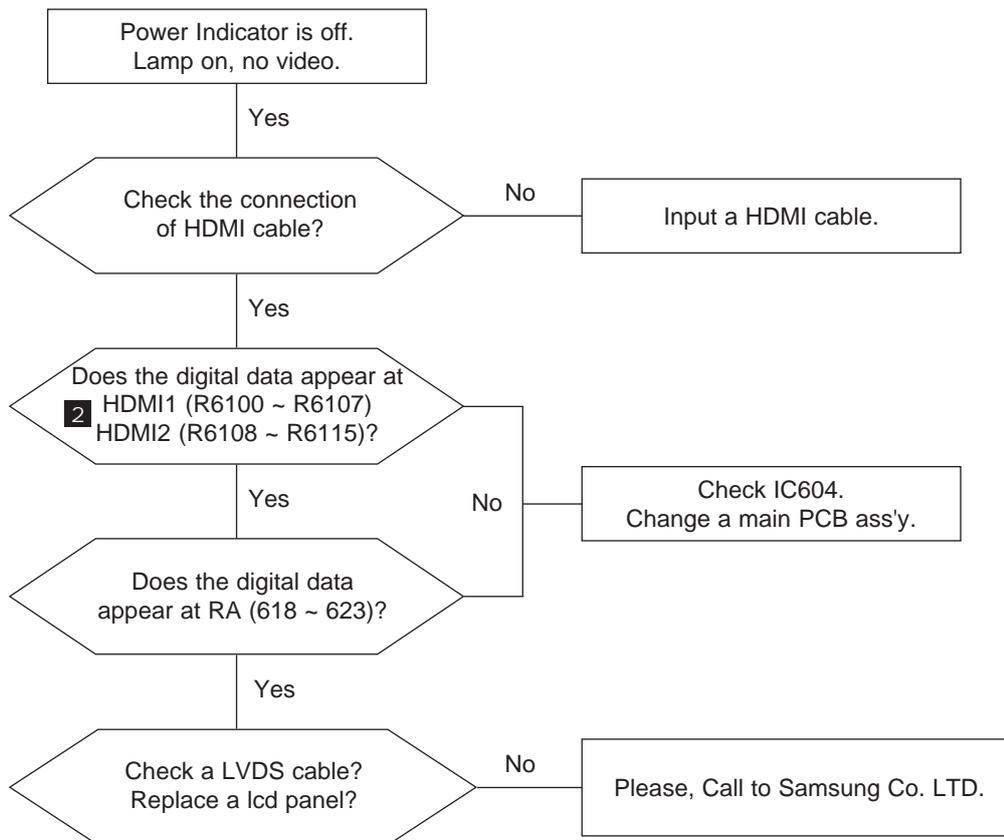
4-2-2 No Video (Analog PC)



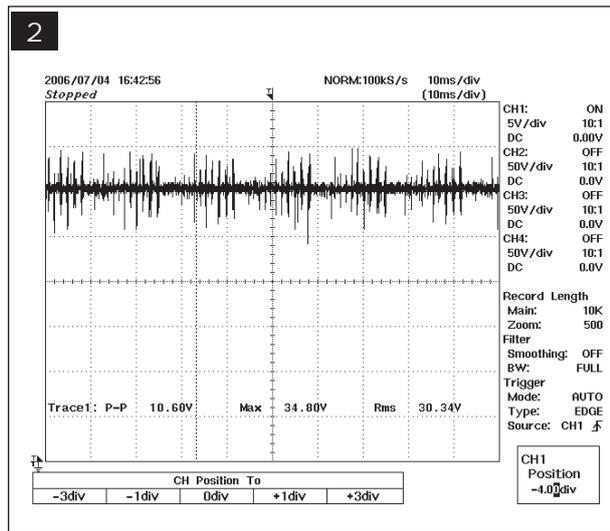
WAVEFORMS



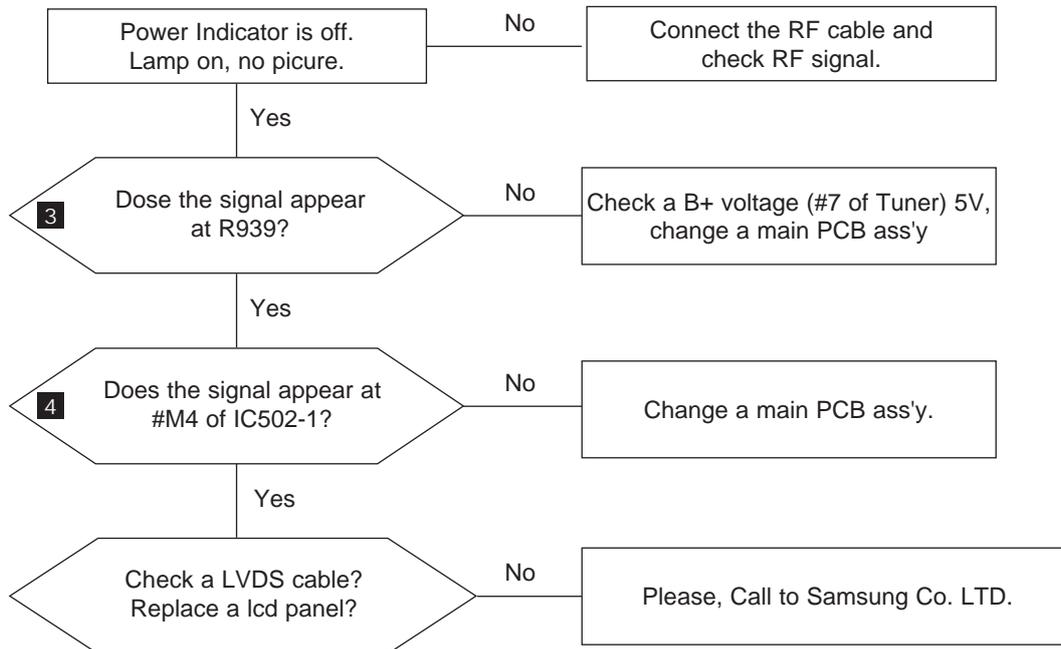
4-2-3 No Video (Digital-HDMI)



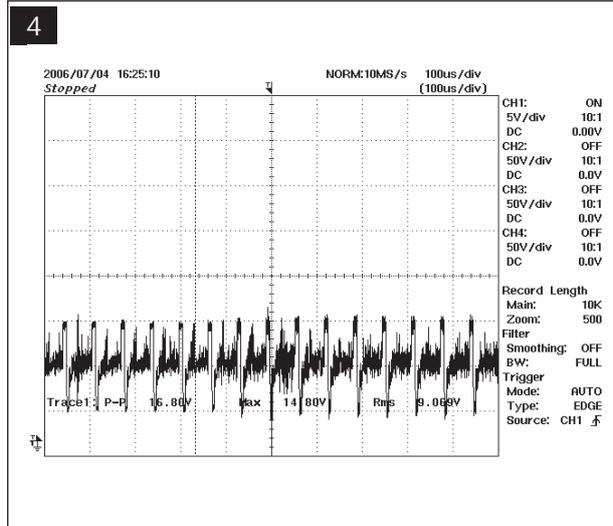
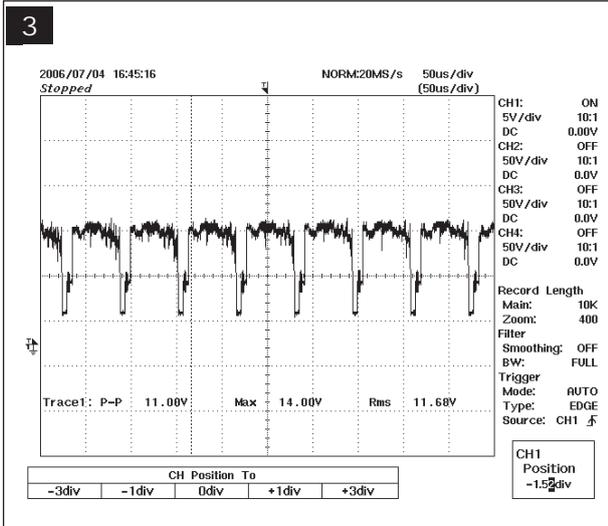
4 Troubleshooting



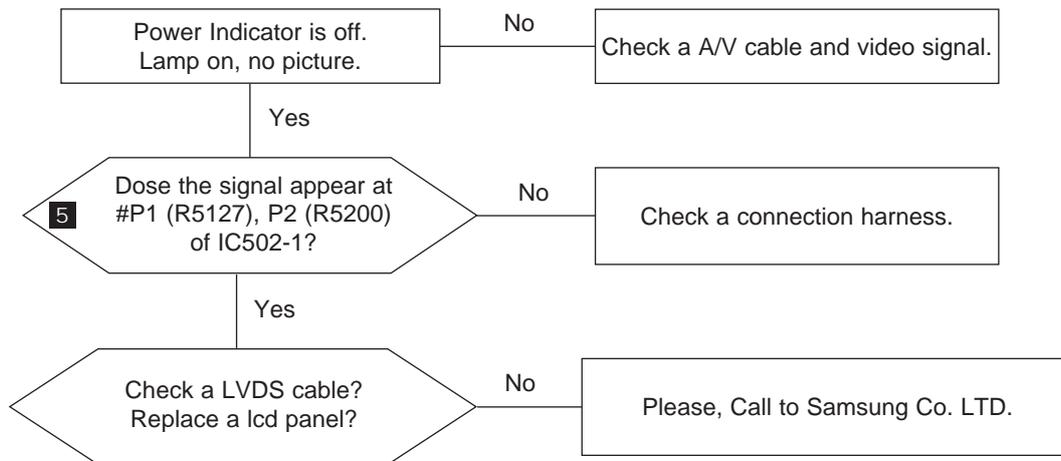
4-2-4 No Picture (Tuner_CVBS)



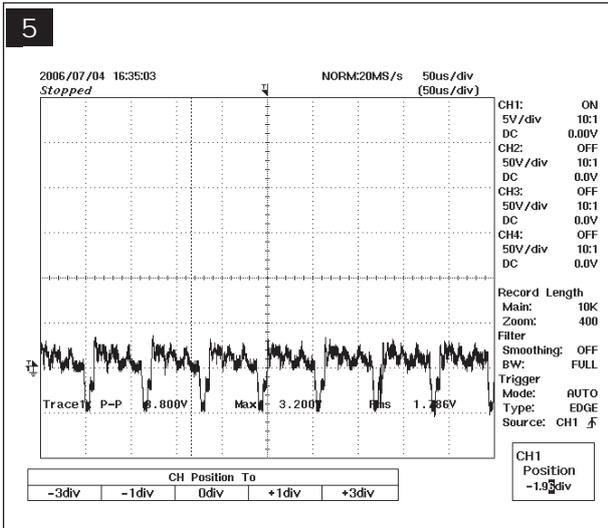
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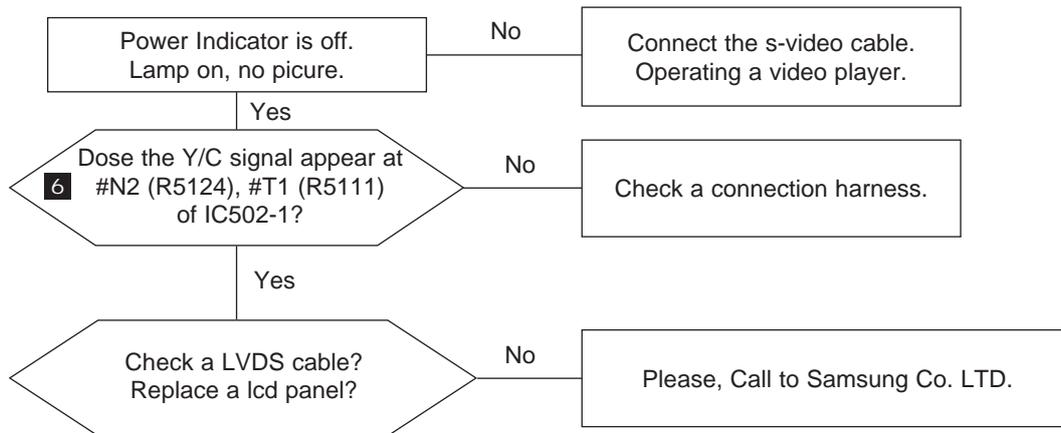
4-2-5 No Picture (Video_CVBS)



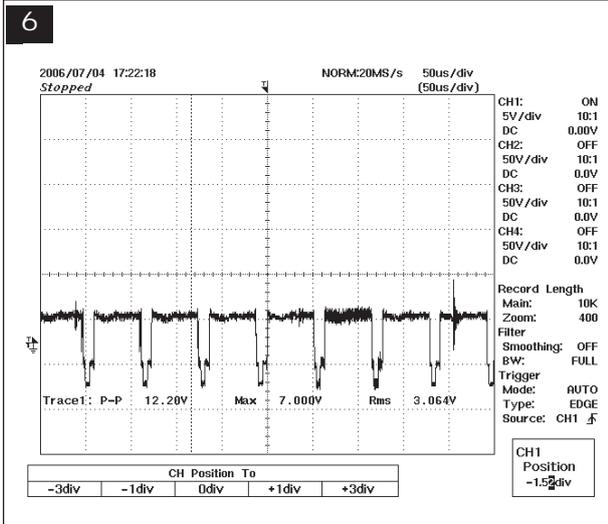
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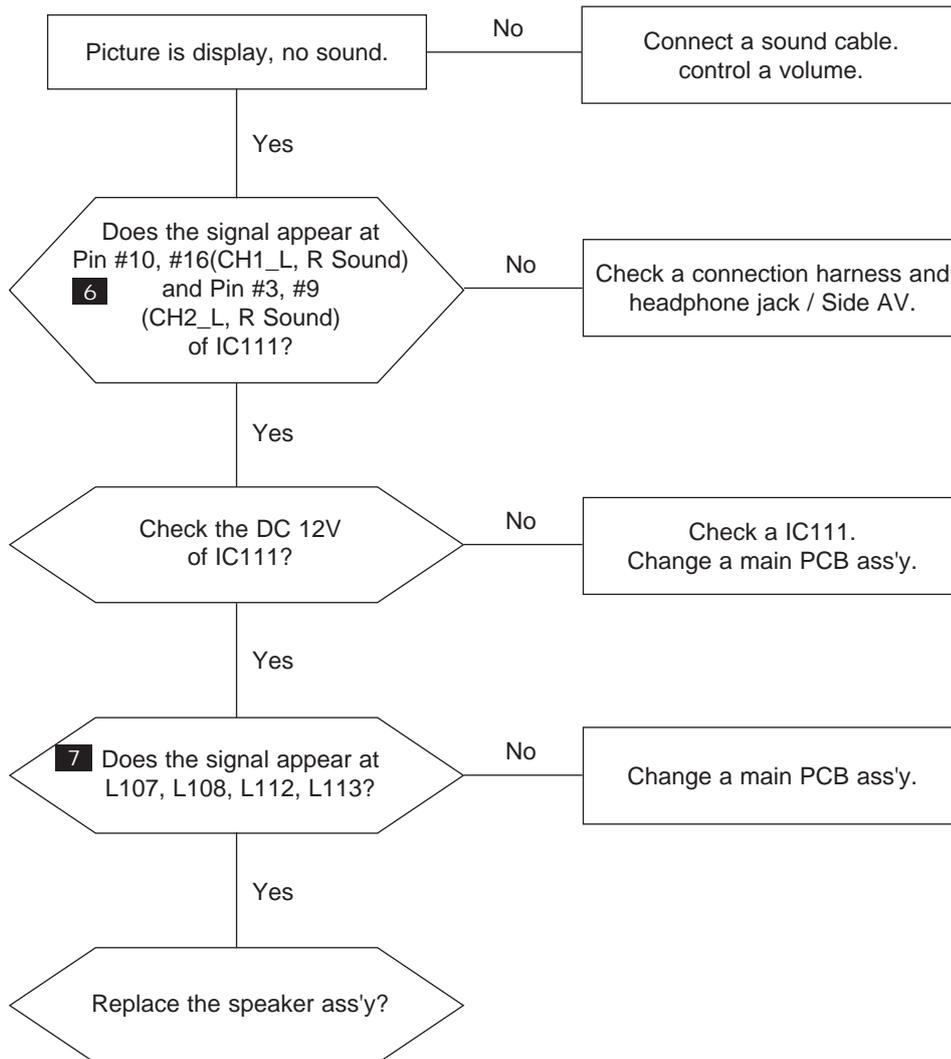
4-2-6 No Picture (S-VIDEO_Y,C)



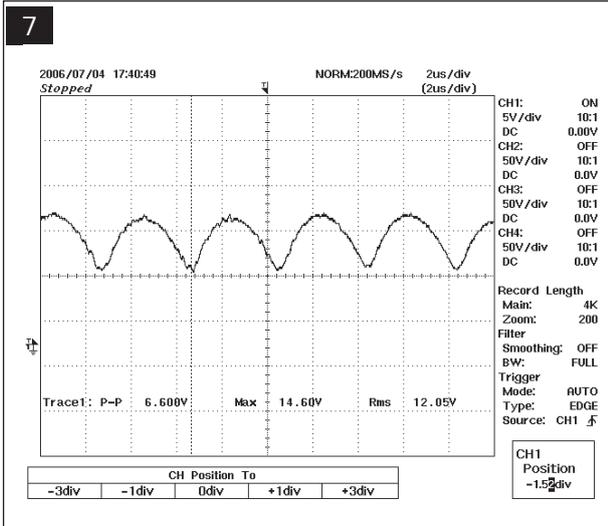
WAVEFORMS



4-2-7 No Sound



WAVEFORMS



8 Wiring Diagram

8-1 Wiring Diagram

Inverter Power

1	SW_INVERTER
2	ANA_DIMMING
3	PWMLDIMMING
4	GND
5	SENSE_POWER

LVDS 2

1	VCC
2	VCC
3	VCC
4	VCC
5	VCC
6	GND
7	GND
8	GND
9	GND
10	LVDS_OPTION
11	TXOUT03+
12	TXOUT03-
13	TXOUT0C+
14	TXOUT0C-
15	TXOUT02+
16	TXOUT02-
17	TXOUT01+
18	TXOUT01-
19	TXOUT00+
20	TXOUT00-
21	TXOUTE3+
22	TXOUTE3-
23	TXOUTE2+
24	TXOUTE2-
25	TXOUTE1+
26	TXOUTE1-
27	TXOUTE0+
28	TXOUTE0-
29	TXOUTE0+
30	TXOUTE0-

POWER

1	SW_POWER
2	GND
3	GND
4	GND
5	GND
6	ASV
7	ASV
8	ASV
9	ASV
10	ASV
11	GND
12	GND
13	B12VS
14	B12VS
15	GND
16	GND
17	GND
18	GND
19	B5V
20	B5V
21	B5V
22	B5V
23	GND
24	GND
25	GND
26	GND
27	B12V
28	B12V
29	B12V
30	B12V
31	GND
32	GND

Debugging

1	DATA
2	CLK
3	GND
4	B5V
5	-

Sub_Micom

1	DATA
2	CLK
3	MICOM_RESET
4	SW_POWER
5	GND

CN300

1	GND
2	RX2+
3	GND
4	RX2-
5	RX1+
6	GND
7	RX1-
8	RX0+
9	GND
10	RX0-
11	RXCLK+
12	GND
13	RXCLK-
14	GND
15	NC
16	DDC_SCL
17	DDC_SDA
18	GND
19	IDENT_HDMI
20	GND
21	GND

JA301

4	GND
5	PC_SPLIN
6	PC_SLIN
7	PC_SLIN
8	PC_SLIN
9	PC_SPLIN
10	PC_SPLIN

CN301

1	GND
2	RX2+
3	GND
4	RX2-
5	GND
6	GND
7	RX1-
8	RX0+
9	GND
10	RX0-
11	RXCLK+
12	GND
13	RXCLK-
14	CEC
15	NC
16	DDC_SCL
17	DDC_SDA
18	GND
19	IDENT_HDMI
20	GND
21	GND

JA302

1	PC_RED
2	PC_GREEN
3	PC_BLUE
4	GND
5	GND
6	GND
7	GND
8	GND
9	PC_5V
10	IDENT_PC
11	GND
12	PC_SDA
13	PC_H_SYNC
14	PC_V_SYNC
15	PC_SCL

JA210

1	GND
2	MONITOR_OUT_SL
3	MONITOR_OUT_SL
4	GND
5	MONITOR_OUT_SR
6	MONITOR_OUT_SR

JA209

4	GND
5	SERVICE_ANY_FX
6	SERVICE_ANY_TX
7	SERVICE_ANY_TX
8	SERVICE_ANY_TX
9	SERVICE_ANY_FX
10	SERVICE_ANY_FX

JA204

1	GND
2	COMPT_SR_IN
3	COMPT_SL_IN
4	GND
5	COMPT_SL_IN
6	COMPT_SR_IN

JA205

1	GND
2	IDENT_COMP1
3	COMPT_Y
4	GND
5	COMPT_Pb
6	COMPT_Pb
7	GND
8	COMPT_B
9	COMPT_Pt

CN900

1	GND
2	GND
3	ASV
4	NC
5	KEY_INPUT1
6	KEY_INPUT2
7	GND
8	NC
9	IR
10	NC
11	NC
12	BLUE_LED
13	GND
14	GND
15	NC

CN101

1	S_R+
2	NC
3	S_R-

CN102

1	S_L+
2	S_L-

CN200

1	HP_OUT_R
2	HP_OUT_L
3	IDENT_HP
4	GND
5	SIDE_AV_SRLIN
6	SIDE_AV_SRLIN
7	GND
8	IDENT_SIDE_SVHS
9	AV2_SIDE_Y
10	AV2_SIDE_C
11	GND
12	IDENT_SIDE_AV
13	AV2_OVBS
14	GND

CN305_MM5S

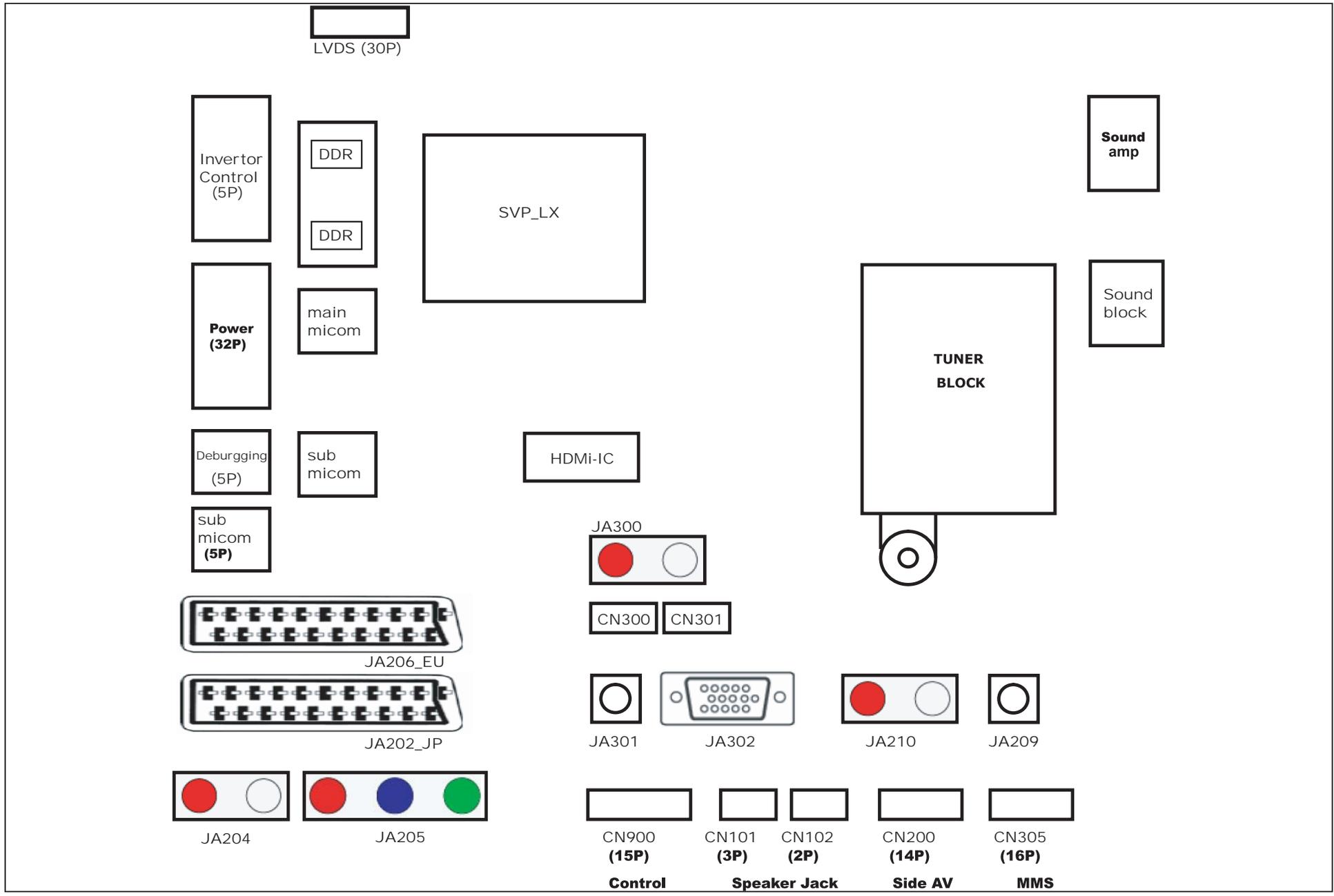
1	GND
2	MM5S_Y
3	MM5S_Pb
4	MM5S_Pt
5	MM5S_SR_IN
6	MM5S_SR_IN
7	GND
8	MM5S_SL_IN
9	GND
10	SDA3
11	SCL3
12	GND
13	RESET_MM5S
14	B5V
15	GND
16	GND

OP300_OPT

1	SPDIF_OUT
2	B5V_VCCA
3	GND

MAIN BOARD

8-2 Main Board Layout



8-3 PIN characteristic

CN100 - Main Board power supply

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

PIN	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
NAME	GND	GND	B5V	B5V	B5V	B5V	GND	GND	GND	GND	B12V	B12V	B12V	B12V	GND	GND

Function Define

- B12V B12V_CHN, B9V, B8V, B5V_VCCCT
- B5V B33V, B5V_VCCA, B3.3VD, B2.5V_VDD, B1.8VD, PX_VD1.8, PX_VA1.8, PX_VL1.8, B1.2VD
- B12VS B12VS
- A5V A5V_1, A3.3V

CN101 / CN102 - SPEAKER CONNECTOR

PIN	1	2	3
NAME	R+	NC	R-

PIN	1	2
NAME	L+	L-

CN900 - 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 power supply
- KEY INPUT1,2 Key control, from the menu, change up/down Etc.
- IR Remote control signal
- LED Control the timing and stand by LED color

CN505 - Panel control

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

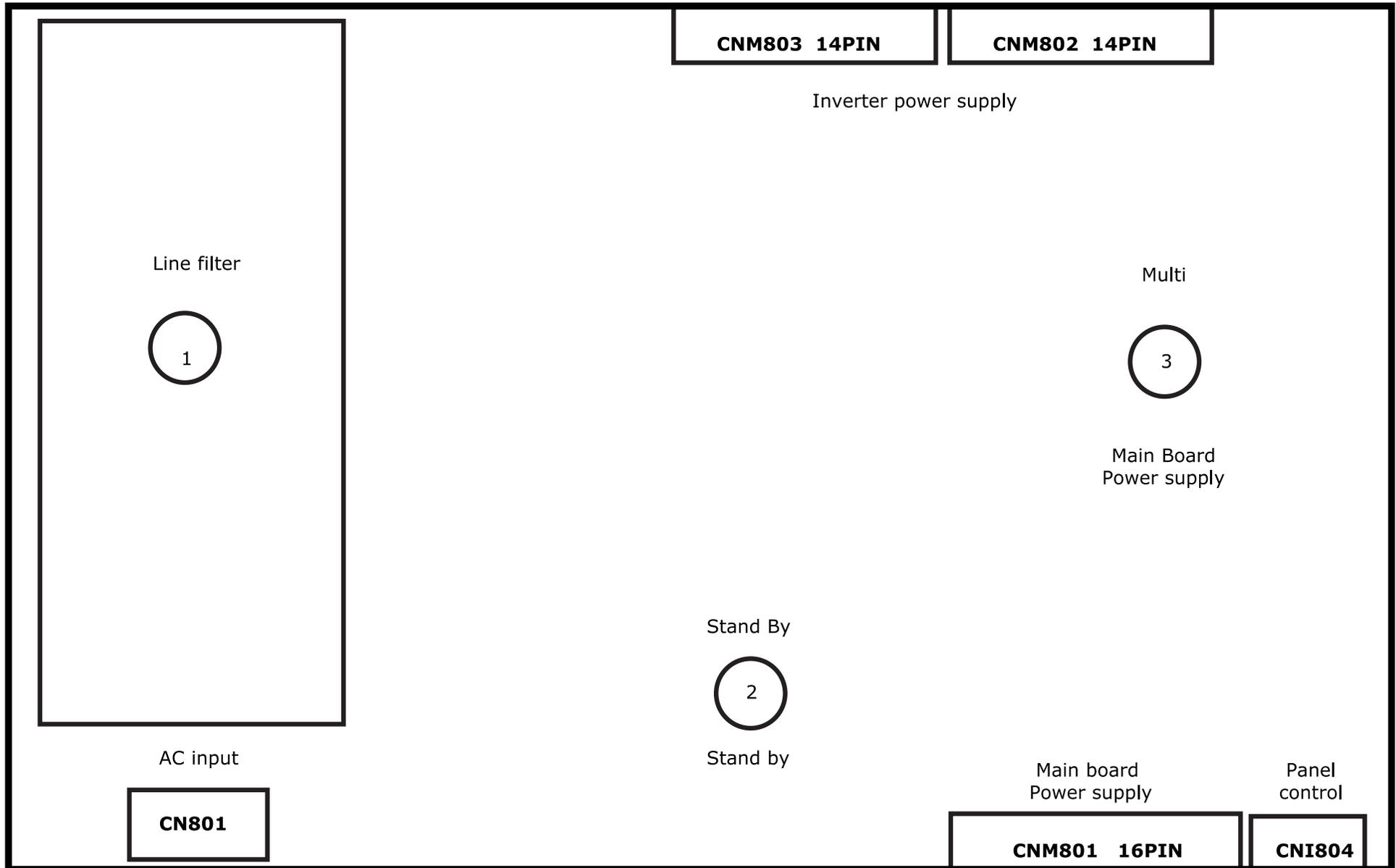
Function Define

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

LVDS Signal

PIN	NAME	PIN	NAME
1	VDD	16	TXOUTO2-
2	VDD	17	TXOUTO1+
3	VDD	18	TXOUTO1-
4	VDD	19	TXOUTIO0+
5	VDD	20	TXOUTO0-
6	GND	21	TXOUTE3+
7	GND	22	TXOUTE3-
8	GND	23	TXOUTEC+
9	GND	24	TXOUTEC-
10	LVDS OPTION	25	TXOUTE2+
11	TXOUTO3+	26	TXOUTE2-
12	TXOUTO3-	27	TXOUTE1+
13	TXOUTOC+	28	TXOUTE1-
14	TXOUTOC-	29	TXOUTE0+
15	TXOUTOC2+	30	TXOUTE0-

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

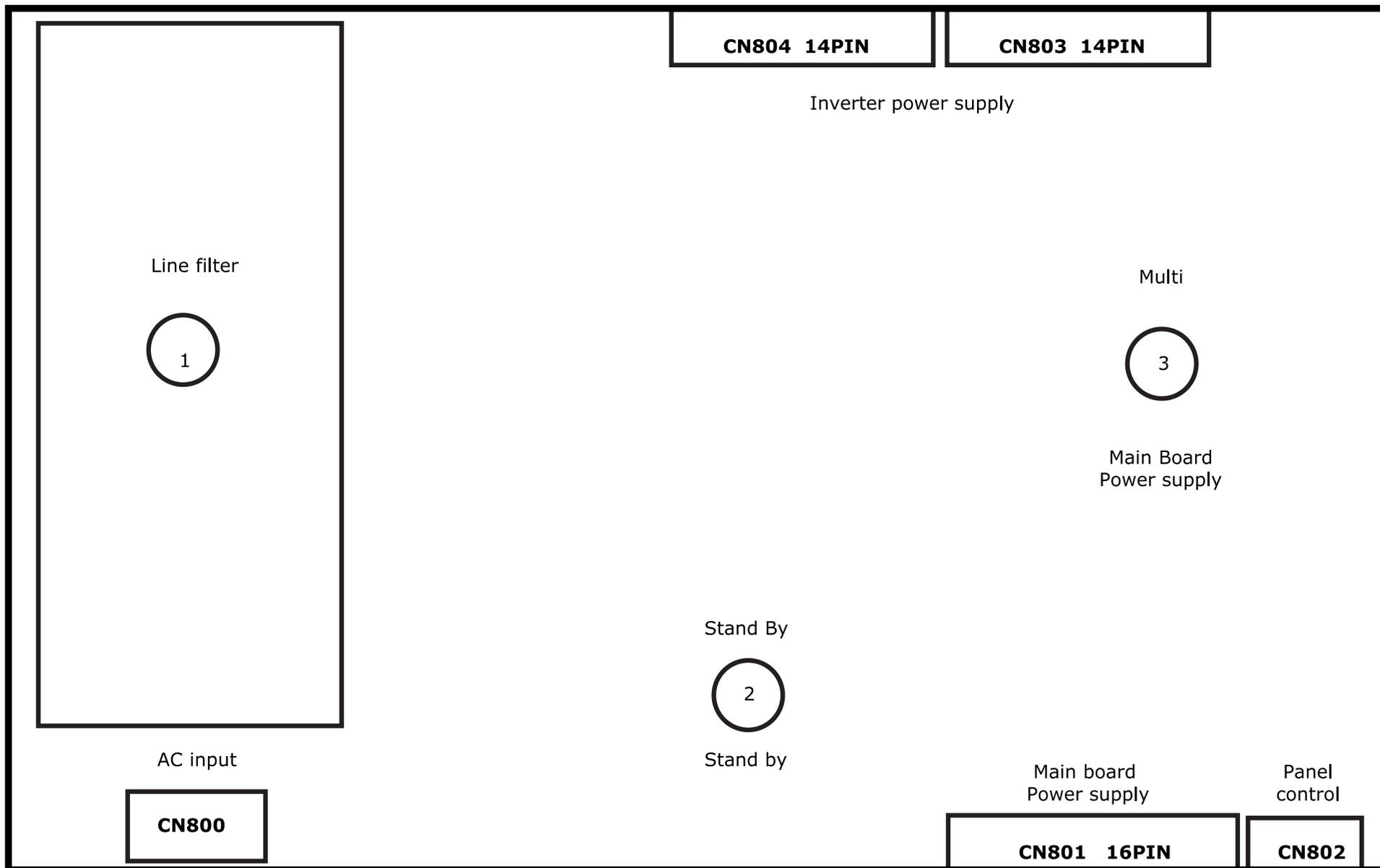
- AMLCD Panel Inverter Power
- 24V LAMP INVERTER Voltage
- B/L Brightness sensor power
- A_D ANA_DIMMING
- P_D PWM_DIMMING

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	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

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