



TFT-LCD TV

Chassis	GED32SE
	GND32SE
	GED40SE
	GND40SE
	GND46SE
Model	LE32M73BD
	LE32N73BD
	LE40M73BD
	LE40N73BD
	LE46N73BD

SERVICE Manual

TFT-LCD TV

LE32M73BD / LE40M73BD



LE32N73BD / LE40N73BD / LE46N73BD



Fashion Feature

- Luxurious Slim Design
- Supreme Picture Quality
- Supreme Sound Quality
- Supreme Convenience Quality
- Convenience for Users
- DVB-T, iDTV
- MHP(Only for Italy)

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LE32M73BD / LE32N73BD / LE40M73BD /
LE40N73BD / LE46N73BD Service Manual

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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-MSLMPEUD-0000(MOSEL Main Micom Ver)
T-NMSLMPEUD-0000(Neo MOSEL Main Micom Ver)
T-CBGMPEUS-0000(Sub Micom Ver)
T-MSLMPEUW-0000(MMS Micom Ver)
Month / Day / Year
Hour / Min. / Sec.

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

3 Alignments and Adjustments

2. Option Table

(1) MOSEL

Byte	ITEM	Default	UK/France/Germany	
			32"	40"
1	Inch Option.	40	32"	40"
2	Gamma	AMLCD	AUO	AMLCD
3	Panel Option	CCFL_120	AUO	CCFL_120
4	2 HDMI	ON	ON	ON
5	----	OFF	OFF	OFF
6	Hot Plug	ON	ON	ON
7	Clk Ct±â	OFF	OFF	OFF
8	Hot Plug Delay	9	9	9
9	----	ON	ON	ON
10	LNA	ON	ON	ON
11	Carrier Mute	OFF	OFF	OFF
12	Language	English	English	English
13	Auto FM	ON	ON	ON
14	High Deviation	OFF	OFF	OFF
15	TTX	On/Off	On/Off	On/Off
16	TTX List	Flof	Flof	Flof
17	ACR	OFF	OFF	OFF
18	Dynamic CE	ON	ON	ON
19	Dynamic Dimming	ON	ON	ON
20	Tuner TOP	8	8	8
21	TTX Group	Auto	Auto	Auto
22	Auto Power	ON	ON	ON
23	Magazine LNA	OFF	OFF	OFF
24	VOL_MODE	Large	Large	Large
25	Shop Mode	OFF	OFF	OFF
26	Debug	OFF	OFF	OFF
27	CH TABLE	SUWON	SUWON	SUWON
28	iDTV_Cntry	UK	UK/France/Germany	UK/France/Germany
29	Dynamic Contrast	OFF	OFF	OFF

(2) Neo MOSEL

Byte	ITEM	Default	UK/France/Germany/Sweden/Finland/Italy/Spain		
			32"	40"	46"
1	Inch Option.	40	32"	40"	46"
2	Gamma	AMLCD	AUO	AMLCD	AMLCD
3	Panel Option	CCFL_120	AUO_WCG	AMWCG_INT	AMWCG_INT
4	2 HDMI	ON	ON	ON	ON
5	----	OFF	OFF	OFF	OFF
6	Hot Plug	ON	ON	ON	ON
7	Clk Ctâ	OFF	OFF	OFF	OFF
8	Hot Plug Delay	9	9	9	9
9	----	ON	ON	ON	ON
10	LNA	ON	ON	ON	ON
11	Carrier Mute	OFF	OFF	OFF	OFF
12	Language	English	English	English	English
13	Auto FM	ON	ON	ON	ON
14	High Deviation	OFF	OFF	OFF	OFF
15	TTX	On/Off	On/Off	On/Off	On/Off
16	TTX List	Flof	Flof	Flof	Flof
17	ACR	OFF	OFF	OFF	OFF
18	Dynamic CE	ON	ON	ON	ON
19	Dynamic Dimming	ON	ON	ON	ON
20	Tuner TOP	8	8	8	8
21	TTX Group	Auto	Auto	Auto	Auto
22	Auto Power	ON	ON	ON	ON
23	Magazine LNA	OFF	OFF	OFF	OFF
24	VOL_MODE	Large	Large	Large	Large
25	Shop Mode	OFF	OFF	OFF	OFF
26	Debug	OFF	OFF	OFF	OFF
27	CH TABLE	SUWON	SUWON	SUWON	SUWON
28	iDTV_Cntry	UK	UK/France Germany/Sweden /Finland/Italy /Spain	UK/France Germany/Sweden /Finland/Italy /Spain	UK/France Germany/Sweden /Finland/Italy /Spain
29	Dynamic Contrast	OFF	OFF	OFF	OFF

3 Alignments and Adjustments

3. White Balance

No	Item	Range	TV/AV	Component	PC	DVI/HDMI
1	Sub-Brightness	0~255	80	115	128	140
2	R-Offset	0~255	120	130	128	129
3	G-Offset	0~255	128	128	128	128
4	B-Offset	0~255	113	128	128	128
5	Sub-Contrast	0~63	36	32	32	28
6	R-Gain	0~255	140	129	128	130
7	G-Gain	0~255	128	128	128	128
8	B-Gain	0~255	150	129	128	120

4. SVP-EX

1. Comb Filter

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

2. Peaking

No	Item	Range	EEPROM	TV	AV	Component	Control IC	Remark
1	V-Peaking	0 ~ 255			80h			x
2	Peaking Delay	0 ~ 255			80h			x
3	Peaking Gain	0 ~ 255			80h			x
4	Peaking Width	0 ~ 255			80h			x
5	Praking f0	0 ~ 255			80h			x

3. NR

No	Item	Range	EEPROM	TV/AV/S_Video	Component	PC	DVI/HDMI	Control IC	Remark
1	Y-NR-Off	0 ~ 255			80h				x
2	C-NR-Off	0 ~ 255			80h				x
3	Y-NR-ON	0 ~ 255			80h				x
4	C-NR-ON	0 ~ 255			80h				x

4. Deinterlace

No	Item	Range	EEPROM	TV/AV/S_Video	Component	PC	DVI/HDMI	Control IC	Remark
1	Motion	0 ~ 255			80h				x

5. Picture Gain Adjust

No	Item	Range	EEPROM	TV/AV/S_Video	Component	PC	DVI/HDMI
1	TCD3 Contrast	0 ~ 255		AV Calibration(78h)	78h	78h	78h
2	TCD3 Brightness	0 ~ 255		AV Calibration(20h)	20h	20h	20h
3	TCD3 CR Saturation	0 ~ 255		78h	78h	78h	78h
4	TCD3 CB Saturation	0 ~ 255		78h	78h	78h	78h
5	TCD3 YC Delay	0 ~ 15		00h	00h	00h	00h
6	Analog Y offset	00 ~ 255		40h	3	40h	40h
7	Analog PB offset	00 ~ 255		80h	DTV Calibration(80h)	80h	80h
8	Analog PR offset	00 ~ 255		80h	DTV Calibration(80h)	80h	80h
9	Analog Y Gain	00 ~ 255		D6h	DTV Calibration(D6h)	D6h	D6h
10	Analog PB Gain	00 ~ 255		FEh	FEh	FEh	FEh
11	Analog PR Gain	00 ~ 255		FEh	FEh	FEh	FEh
12	Black Level Setting	00 ~ 255			00h		
13	Brightness(SVP)	0 ~ 255			00h		

5. MST9883

No	Item	Range	EEPROM	TV/AV/S_Video	Component	PC	DVI/HDMI
1	R-Offset	00 ~ 255		151(SC1 RGB)	X	PC Calibration(128)	X
2	G-Offset	00 ~ 255		151(SC1 RGB)		PC Calibration(128)	
3	B-Offset	00 ~ 255		151(SC1 RGB)		PC Calibration(128)	
4	R-Gain	00 ~ 255		123(SC1 RGB)		PC Calibration(192)	
5	G-Gain	00 ~ 255		123(SC1 RGB)		PC Calibration(192)	
6	B-Gain	00 ~ 255		123(SC1 RGB)		PC Calibration(192)	

6. MSP34X0/44XX

No	Item	Range	EEPROM	PAL
1	FM-Prescale	00 ~ 255		20h
2	NT-M-Prescale	00 ~ 255		20h
3	SECAM-L-Prescale	00 ~ 255		22h
4	NICAM-Prescale	00 ~ 255		42h
5	AV-Prescale	00 ~ 255		1Ah
6	I2S_1 Prescale	00 ~ 255		10h
7	I2S_2 Prescale	00 ~ 255		10h
8	Carrier Mute	00 ~ 255		42h
9	Pilot High	00 ~ 255		14
10	Pilot Low	00 ~ 255		7

7. YC Delay

No	Item	Range	EEPROM	TV/AV/S_Video	Component	PC	DVI/HDMI
1	RF PAL-B/G	00 ~ 255		77h	88h	88h	88h
2	RF PAL-D/K	00 ~ 255		88h			
3	RF PAL-I	00 ~ 255		66h			
4	RF SECAM-B/G	00 ~ 255		88h			
5	RF SECAM-D/K	00 ~ 255		77h			
6	RF SECAM-L/L'	00 ~ 255		88h			
7	RF NTSC3.58	00 ~ 255		66h			
8	RF NTSC4.43	00 ~ 255		CCh			
9	AV PAL	00 ~ 255		77h			
10	AV SECAM	00 ~ 255		88h			
11	AV NTSC 3.58	00 ~ 255		66h			
12	AV NTSC4.43	00 ~ 255		CCh			
13	AV PAL60	00 ~ 255		77h			

8. Adjust

No	Item	Range	EEPROM	TV/AV/S_Video	Component	PC	DVI/HDMI	Control IC	Remark
1	Video Mute Time			10					
2	Melody Volume	0 ~ 20		5					
	Ana Dimm Max			FEH					
3	TTX Contrast	0 ~ 100		50					
4	TTX Brightness	0 ~ 100		50					
5	TTX Color	0 ~ 100		50					
6	Dynamic Contrast	0 ~ 100		100					Dynamic mode
7	Dynamic Brightness	0 ~ 100		50					
8	Dynamic Color	0 ~ 100		55					
9	Dynamic Sharpness	0 ~ 100		75					
10	Standard Contrast	0 ~ 100		80					Standard mode
11	Standard Brightness	0 ~ 100		50					
12	Standard Color	0 ~ 100		50					
13	Standard Sharpness	0 ~ 100		50					
14	Movie Contrast	0 ~ 100		70					Movie mode
15	Movie Brightness	0 ~ 100		50					
16	Movie Color	0 ~ 100		25					
17	Movie Sharpness	0 ~ 100		45					
No	Item	Range	EEPROM	TV/AV/S_Video	Component/PC/HDMI			Control IC	Remark
1	LNA PLUS								
2	RFDB_1 Level			1					
3	RFDB_2 Level			5					
4	RFDB_3 Level			10					
5	RFDB_4 Level			16					

9. I2C Check

10. Chip Debugger : OFF

11. Checksum XXXX XXXX

12. Reset

13. Spread Spectrum

1	Spectrum	ON
2	Delta	-3
3	Positive	8
4	Negative	2

3-4 Service Adjustment

3-4-1 White Balance - Calibration

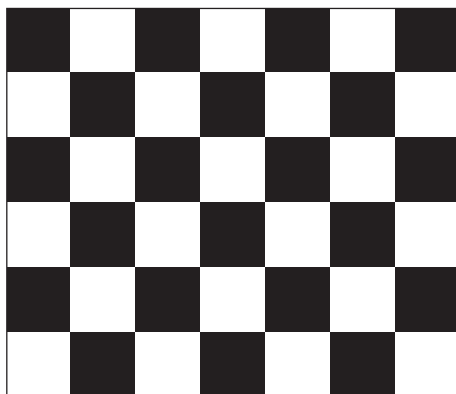
If picture color is wrong, do calibration first.

Equipment : CA210, Patten : chess pattern

Execute calibration in Factory Mode

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

PC : 1024*768/60Hz



(chess patten)

3-4-2 White Balance - Adjustment

If picture color is wrong, check White Balance condition.

Equipment : CA210, Patten : Toshiba

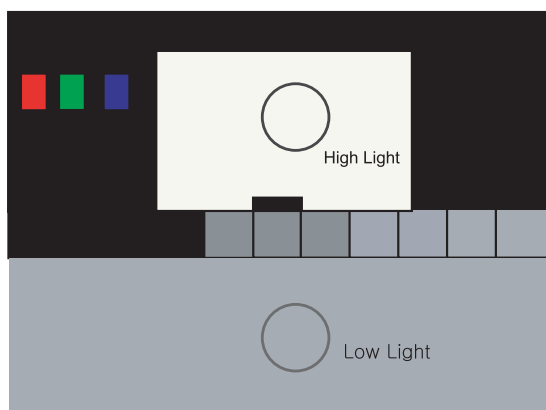
Adjust W/B in Factory Mode

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*720/60Hz

HDMI[DVI] : 1280*720/60Hz



[Test Pattern : MSPG-945 Series Pattern #16]

*Color temperature

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

*Color coordinate

H/L : 267/263 +/- 2 35.0 Ft +/- 2.0Ft

L/L : 270/260 +/- 3 1.5 Ft +/- 0.2Ft

Toshiba Patten

3-4-3 Conditions for Measurement

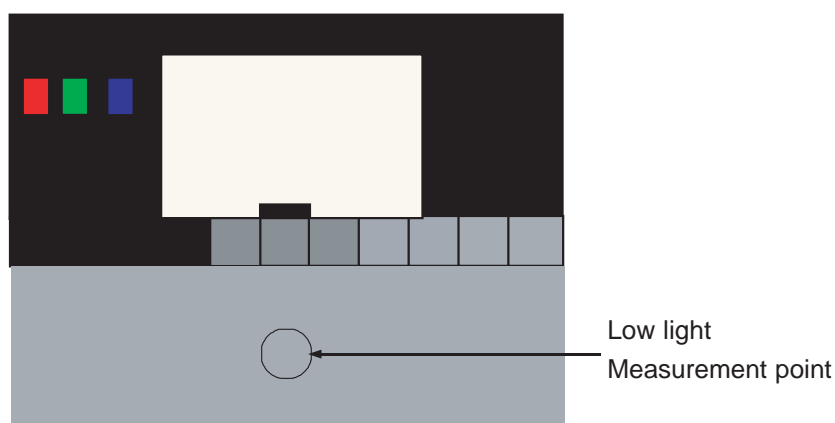
1. On the basis of toshiba ABL pattern : High Light level (57 IRE)
 - INPUT SIGNAL GENERATOR : MSPG-925LTH
 - * Mode NO 2 : 744X484@60 Hz
 - NO 6 : 1280X720@60 Hz
 - NO 21 : 1024X768@60 Hz
 - * Pattern NO 36 : 16 Color Pattern
 - NO 16 : Toshiba ABL Pattern
2. Optical measuring device : CA210 (FL)

Please use the MSPG-925 LTH generator for model LE26M51B/LE32M51B/LE40M51B/LE46M51B.

3-4-4 Method of Adjustment

1. Adjust the white balance of AV, Component and DVI Modes.
 - (AV → Component)
 - a) Set the input to the mode in which the adjustment will be made
(RF → DTV → PC → DVI).
 - * Input signal - VIDEO Mode : Model #2 (744*484 Mode), Pattern #16
 - DTV,DVI Mode : Model #6 (1280*720 Mode), Pattern #16
 - HDMI Mode: Model #6(1280*720 Mode), Pattern #16
 - b) Enter factory color control, confirm the data.
 - c) Adjust the low light. (Refer to table 1, 2 in adjustment position by mode)
 - Adjust sub - Brightness to set the 'Y' value.
 - Adjust red offset ('x') and blue offset ('y') to the color coordinates.

Picture 4-2 Toshiba ABL Pattern



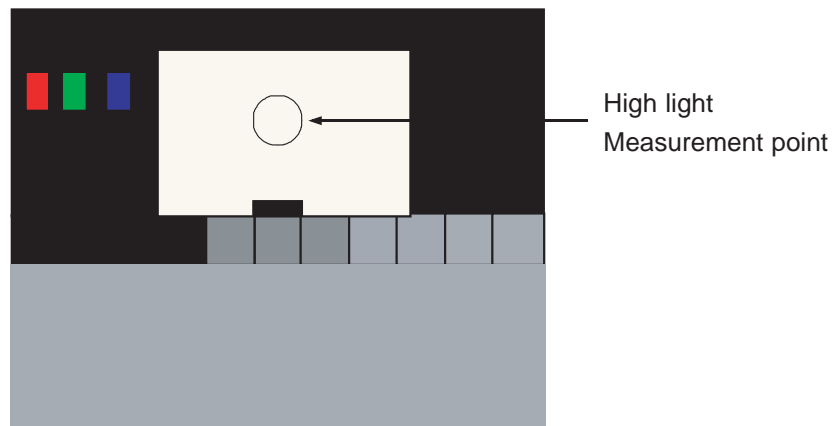
* Do not adjust green offset data.

- d) Adjust the high light. (Refer to table 1, 2 in adjustment position by mode)
 - Adjust red gain ('x') and blue gain ('y') to the color coordinates.
 - * Do not adjust the green gain and sub-contrast (Y) data.

3 Alignments and Adjustments

- d) Adjust the high light. (Refer to table 1, 2 in adjustment position by mode)
- Adjust red gain ('x') and blue gain ('y') to the color coordinates.
 - * Do not adjust the green gain and sub-contrast (Y) data.

Picture 4-3 Toshiba ABL Pattern



3-5 Software Upgrade

3-5-1 How to Update Flash ROM

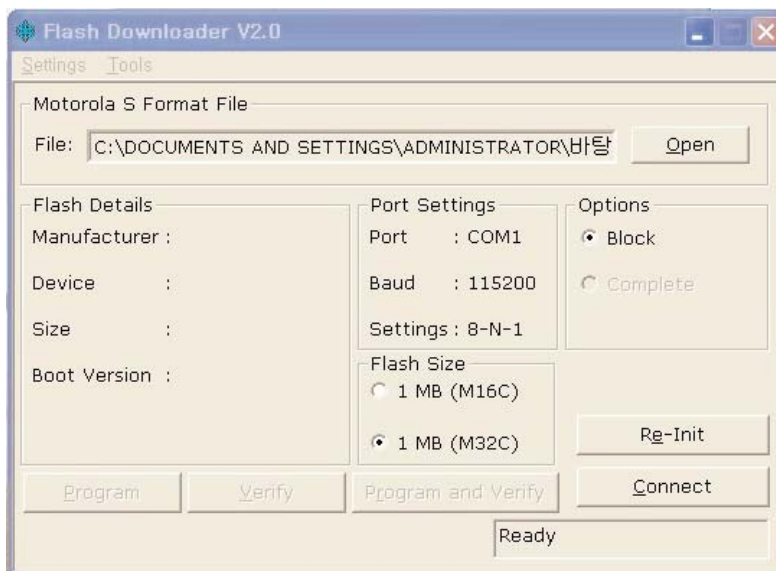
1. Install the Flash Downloader

Connect Set (Service Jack) and Jig Cable to execute Program Update.



2. Flash Downloader program update

- Before Turning on the set, Click "connect" which is under of OSD Screen!
- Turn on the Set.



3-6 DTV Program Download & Generals

3-6-1 Software Version Check Method

Press the MENU key and select System.

Where you can find the Product Information menu in it.

When you press the Product Information you can find the Software Version.

3-6-2 Serial Download Method

- 1) Turn off LCD-TV.
- 2) Connect the RS-232 cable to the LCD-TV
- 3) Execute the sv2_fr.exe file.
- 4) Assign the path of samsung.tvz file (application image)
- 5) Execute the progress follow the screen until step 2.
- 6) Turn On the LCD-TV.
- 7) If the LCD-TV turn on during the sv2_fr.exe execution, it will automatically find the COM port and execute the upgrade.

3-6-3 Hyper Terminal Setting

Set the hyper terminal to observe the progress of the TV via the RS-232 cable.

Set up hyper terminal.

- 1) When setting up a hyper terminal, set it in sub-program.
- 2) Enter a new name.
- 3) Select a modem port. (com 1 and direct connection.)
- 4) Set the bit/second to 115200.
- 5) Set the data bit to 8.
- 6) No parity bit.
- 7) Set stop bit to 1.
- 8) No flow control.
- 9) Save in memory.
- 10) At this point, the new hyper terminal is ready.

3-6-4 Resetting the System Parameters

- 1) Press the MENU button and select the Reset menu of System.
- 2) Press the secret number.
- 3) Press the RED, GREEN, YELLOW, BLUE button in order, after the Reset execute.
- 4) In a few minutes, DTV will booting again.

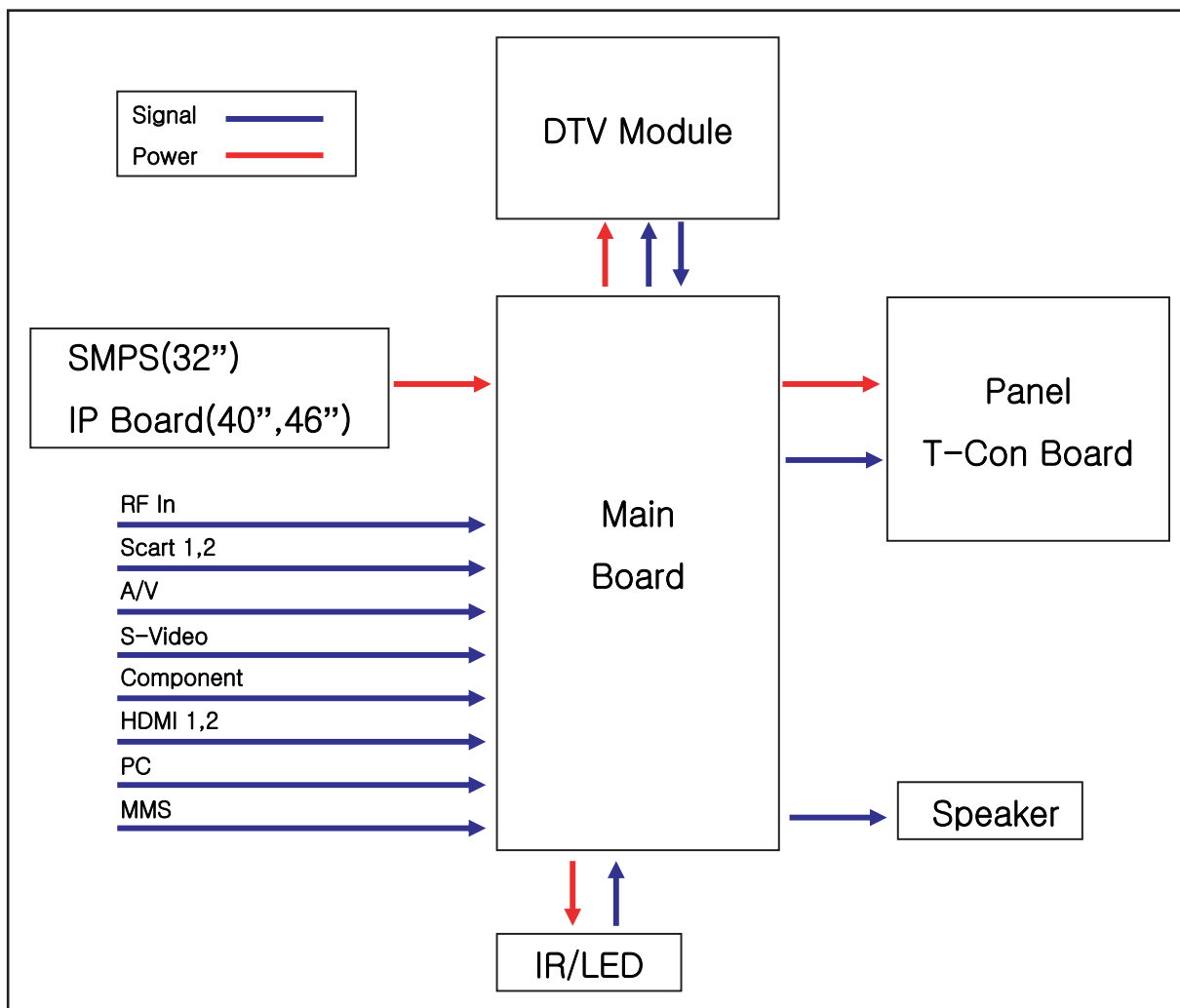
7 Block Diagram

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

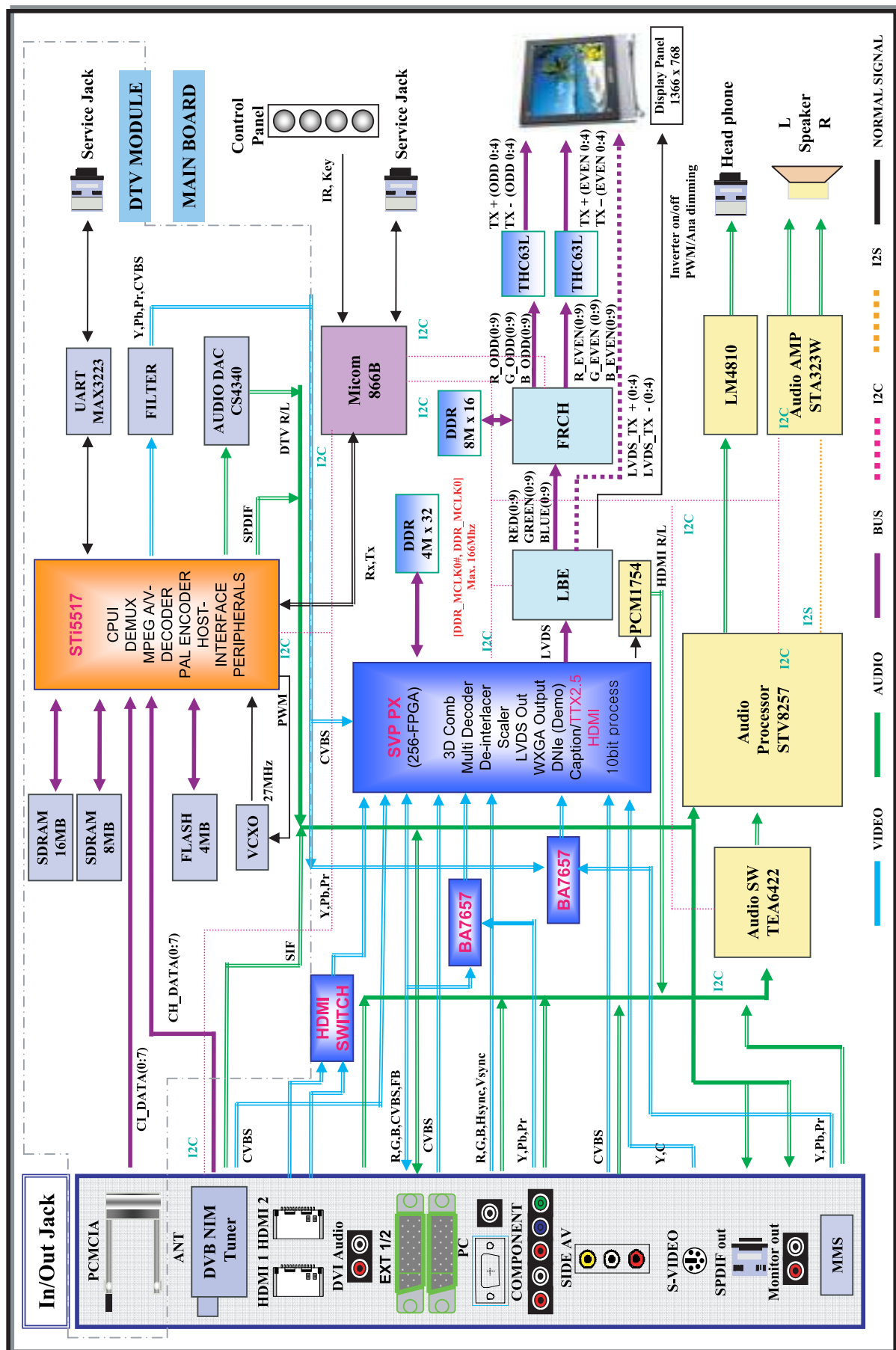
7-1 Block Descriptions

MOSEL iDTV Consists of four main Blocks

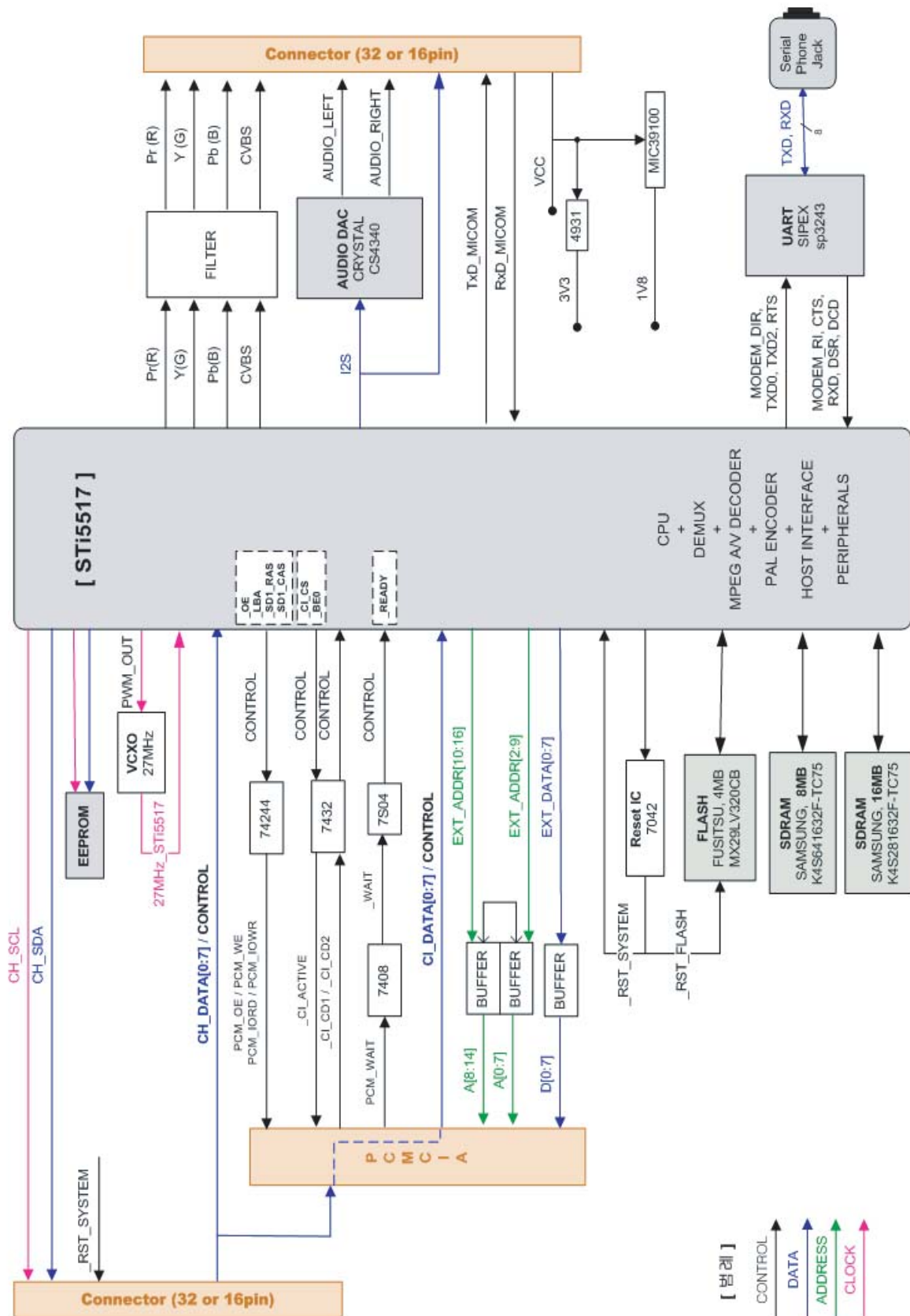
1. Main Board: Video/Sound signal processing
2. DTV Module: DTV signal processing
3. IP/SMPS Board: Power supply & Inverter
4. T-con Board: LCD Panel control



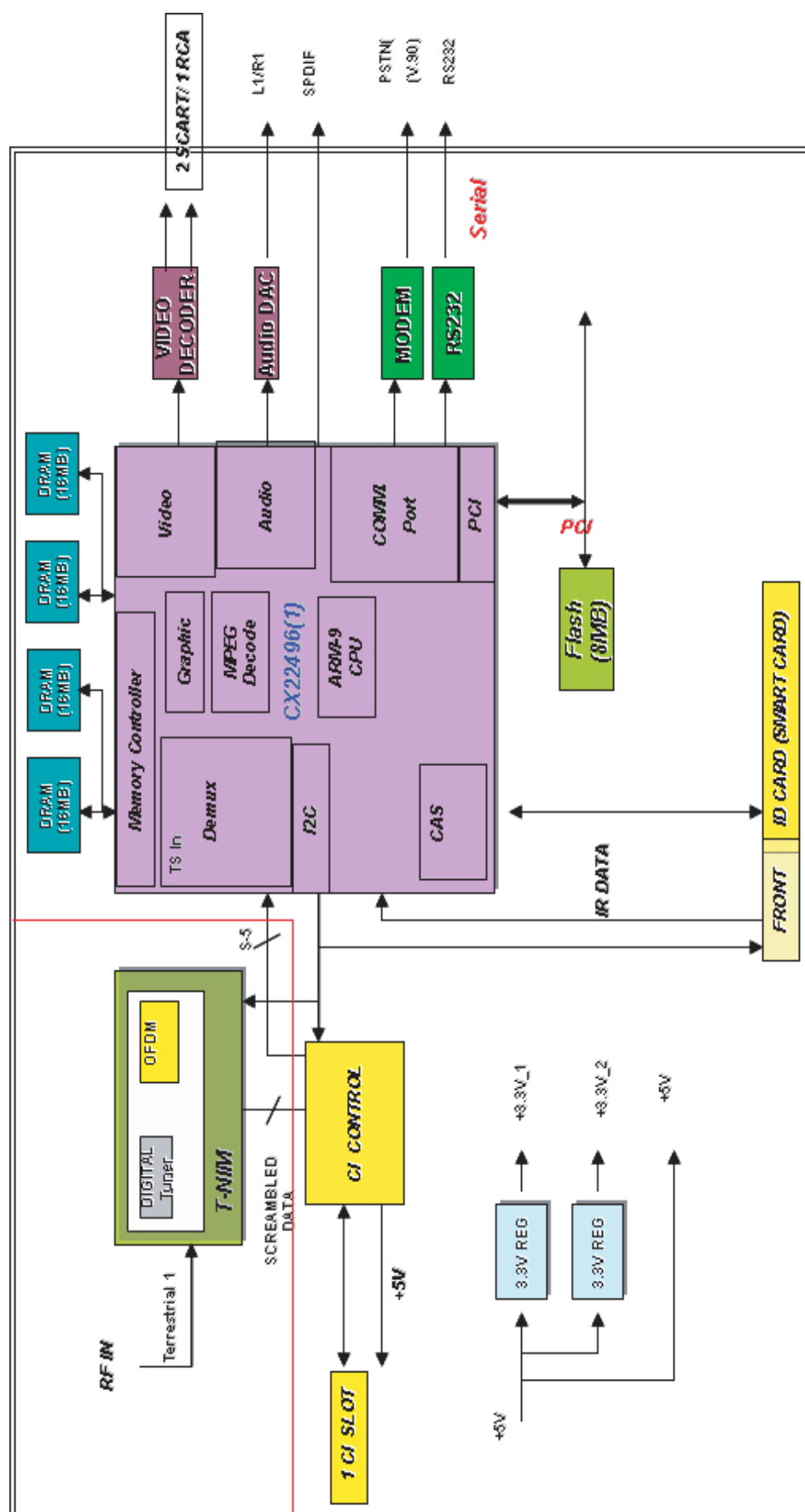
7-2 Main Block Diagram



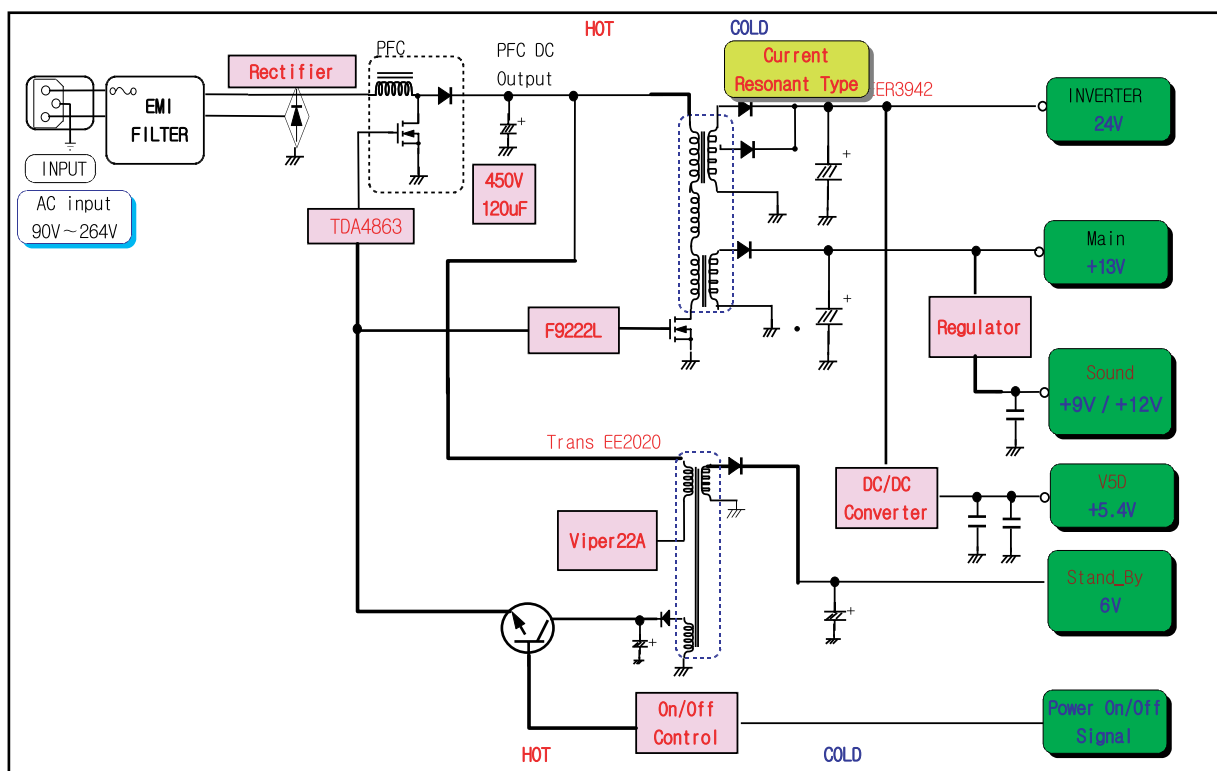
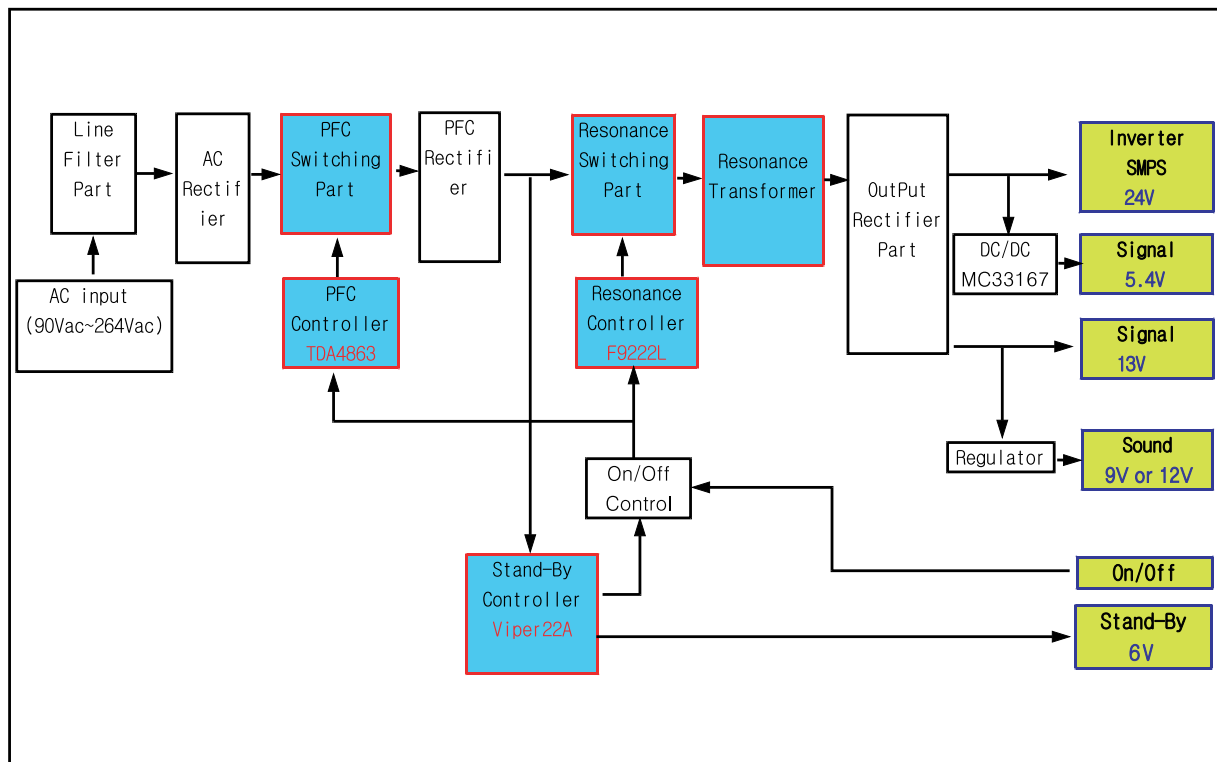
7-3 DTV Block Diagram



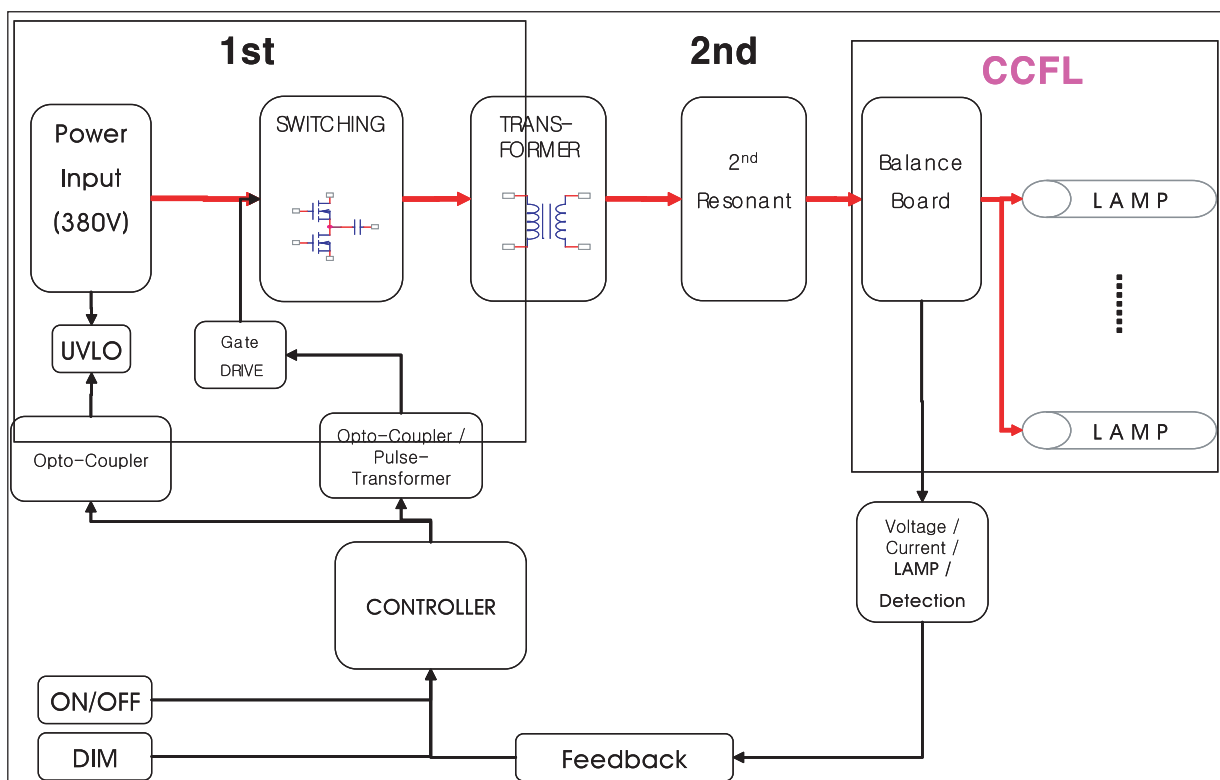
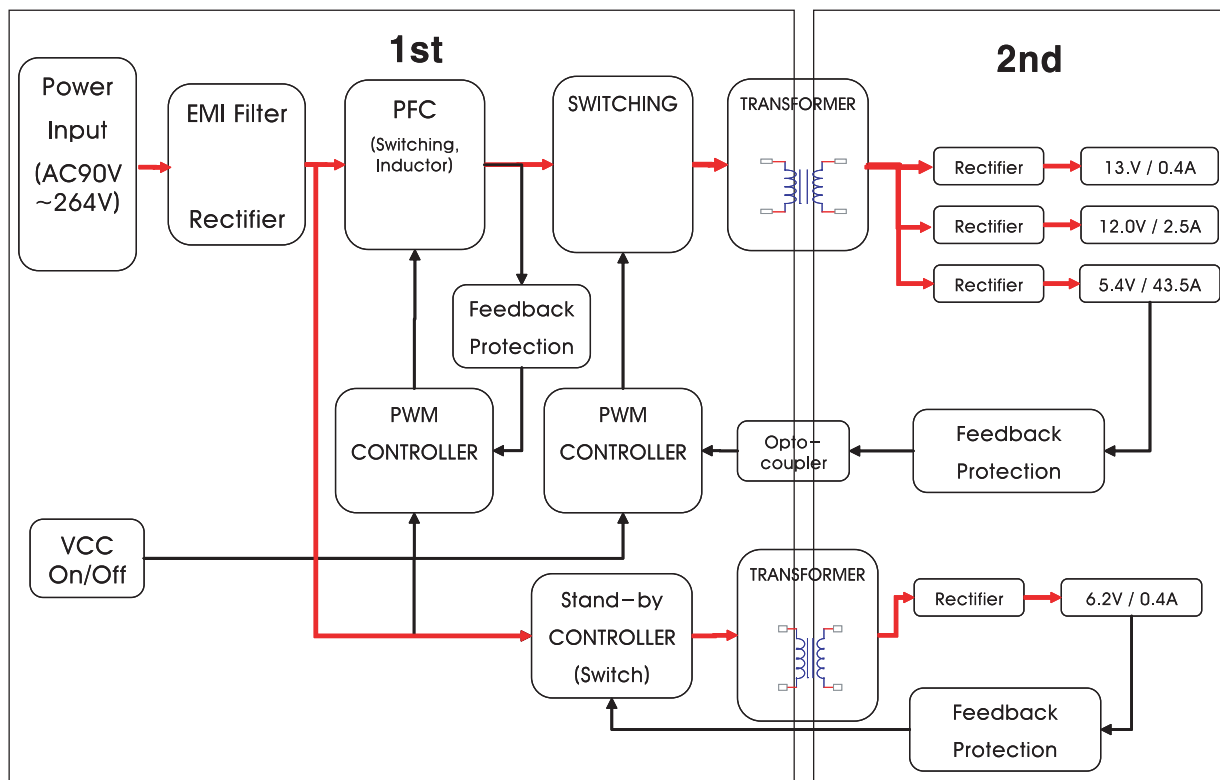
7-4 DTV Block Diagram(Only for Italy)



7-5 32" SMPS Block



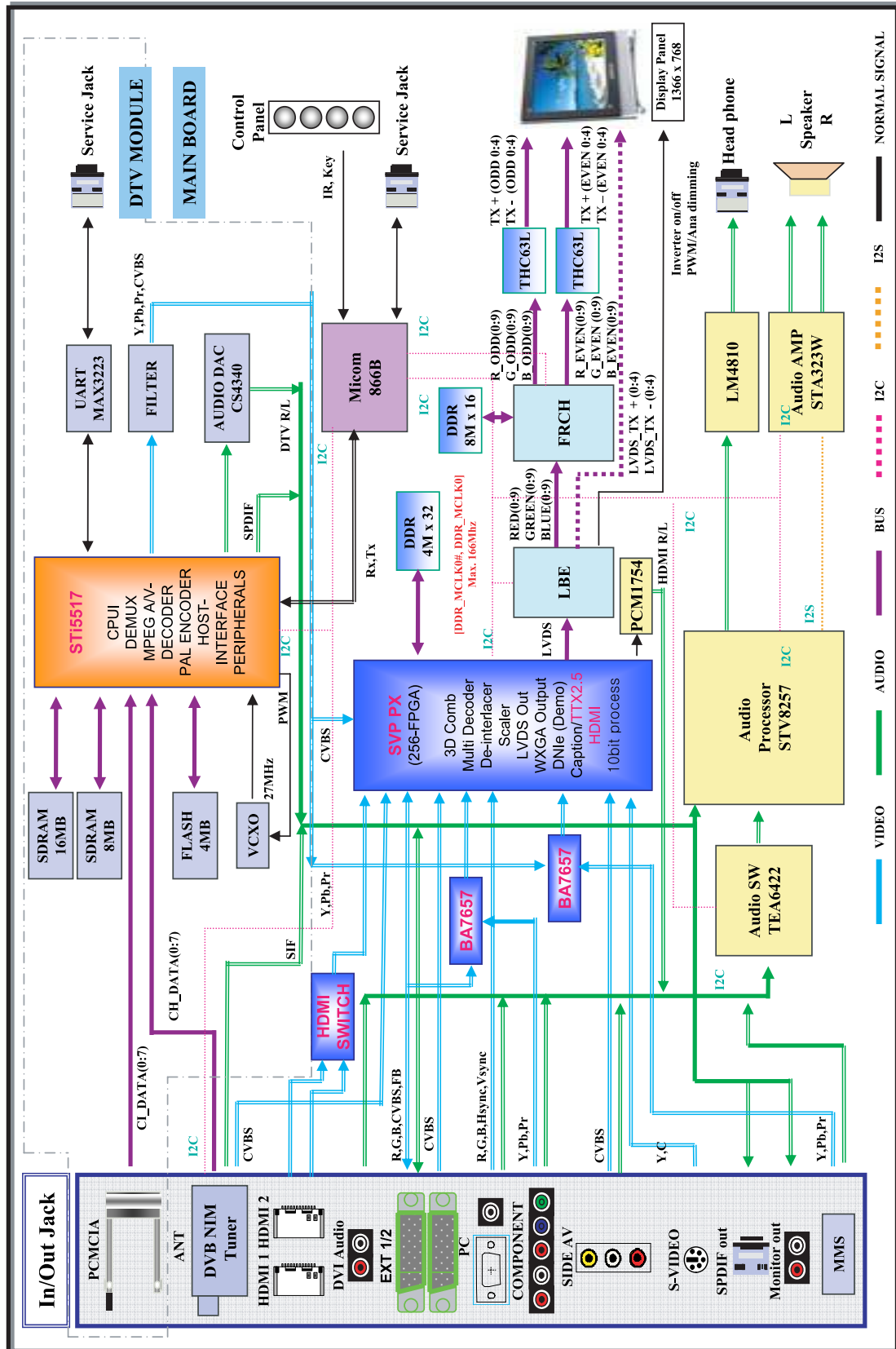
7-6 40", 46" IP Block



13 Circuit Descriptions

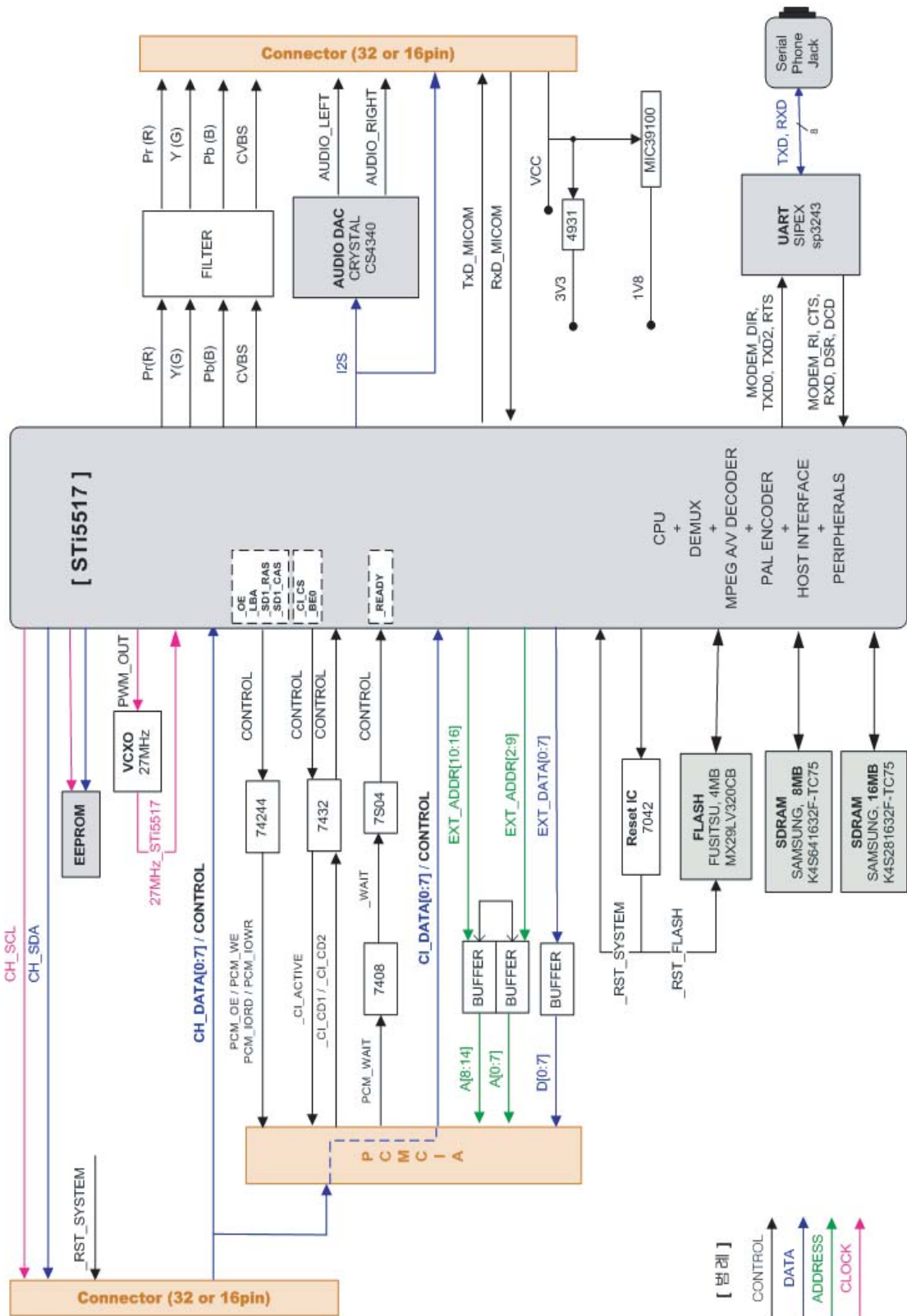
13-1 Main Signal Description

13-1-1 MOSEL Main Signal Flow

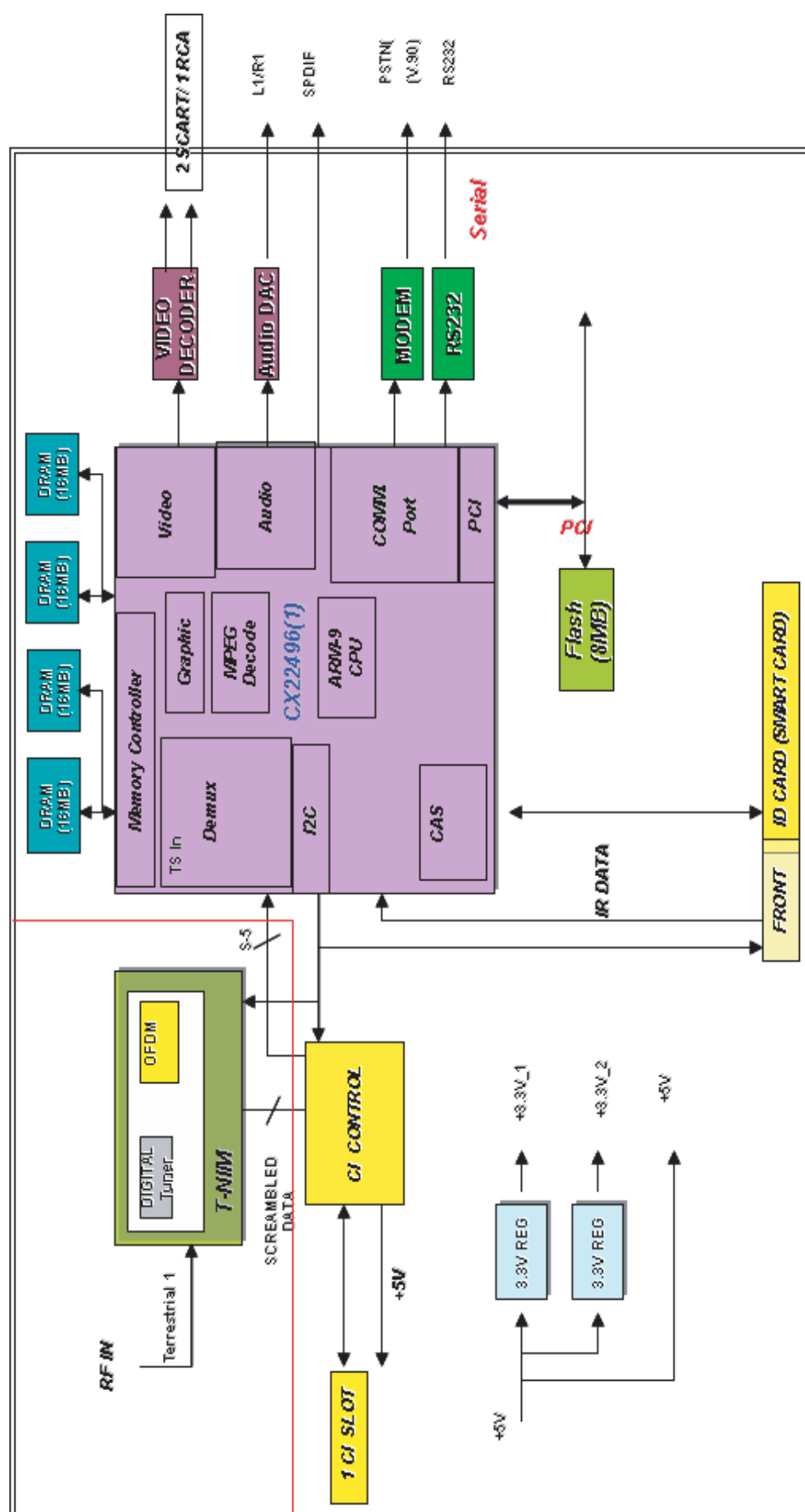




13-2 DTV Signal Description



13-3 DTV Signal Description (Only for Italy)



13-4 RF/DTV Tuner (DNOS303ZH261B(S)) SPEC.

1. Description

1-1 Receiving System : Designed to cover all bands in VHF and UHF including digital terrestrial(DVB-T) and hyper channels for CCIR system.

1-2 It built in COFDM-Demod IC & Analog Demod IC (PAL B/G, I, D/K, SECAM L/L')

1-3 Receiving Channel : 47MHz ~ 862MHz

1-4 Intermediate Frequency : Digital(center) 36.167 MHz, Analog(picture) 38.9MHz

1-5 Input Impedance : 75Ω, Unbalanced.

1-6 Terminals name and function

Pin No	Connection	Remark	Pin No	Connection	Remark
1	N.C		15	N.C	
2	RF AGC		16	SYNC	
3	5V		17	VALID	
4	AFT		18	MD7	MPEG data output7
5	30V		19	MD6	MPEG data output6
6	GND		20	MD5	MPEG data output5
7	RESET		21	MD4	MPEG data output4
8	ERROR		22	MD3	MPEG data output3
9	VIDEO OUT		23	MD2	MPEG data output2
10	N.C		24	MD1	MPEG data output1
11	SIF OUT		25	MD0	MPEG data output0
12	3.3V		26	MPEG CLK	
13	GND		27	SDA	
14	N.C		28	SCL	

2. Mechanical Characteristics

2-1 Dimensions : refer Fig1

2-2 Weight : 60g

2-3 RF input : RCA (female)

2-4 Holding Strength of Ant jack.

Withdrawal force of center contact

: Perform insert & extract test for 20 times. Into receptacle contact by using gauge, showing in Fig-2.

It shall be maintain 50g.

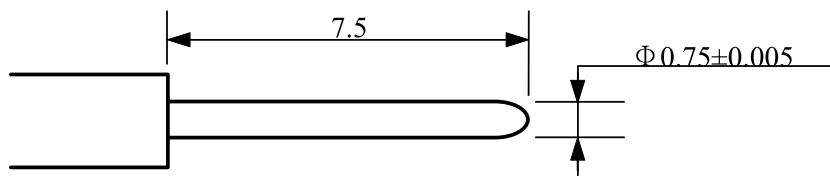


FIG - 2

3. General Characteristics

3-1 Temperature Range

Storage Temperature : -20°C ~ +80°C

Operation Temperature : 0°C ~ +65°C

3-2 Test conditions : All data hold under following conditions

T(amb.) : +25±2°C / Humidity : 45 ~ 65 % RH

Supply voltage(5V) : +5V ± 2%

Tuning voltage (BT) : +30V ± 2%

Supply voltage(3.3V) : +3.3V ± 2%

3-3 Current Consumption

Supply Voltage (5V) : 180mA Max.

Tuning Voltage(30V) : 5mA Max.

Supply Voltage(3.3V) : 160mA Max.

4. Electrical Characteristics (RF block & Digital Demodulation)

4-1 Input Frequency Range

VHF-Low Band : 47MHz ~ 174MHz

VHF-High Band : 174MHz ~ 470MHz

UHF Band : 470MHz ~ 862MHz

4-2 Input Signal Level : -78dBm ~ -20dBm (Average power, 64QAM)

4-3 Voltage Gain

1st IF : 40dB typ. 38dBmin.

4-4 Noise Figure

1st IF : 4.5dB typ. 6.5dB max. (at max. gain)

4-5 OFDM-Demod IC : MT353 (produced by Zarlink)

4-6 Input Impedance : 75Ω .

4-7 RF Input/Output Return Loss : -8dB typ. -6dB min.

4-8 IF Frequency

1) Digital center frequency : 36.167MHz

2) Analog (PAL B/G, I, D/K, SECAM L/L')

Picture intermediate frequency :

38.9MHz(PAL B/G & SECAM L), 33.9MHz(SECAM L')

Sound intermediate frequency :

33.4MHz(B/G), 32.9MHz(I), 32.4MHz(D/K,SECAM L), 40.4MHz(SECAM L')

4-9 IF Response curve

1) Amplitude ripple in band (AGC Volt 4.0 ~ 0.8V) : ± 3dB max.

Center: 34MHz (Above 306MHz)

Center: 33.5MHz (Below 300MHz)

2) 3dB bandwidth in band (AGC Volt 4.0 ~ 0.8V) for digital channel receiving

8MHz : The GPP3 port of the MT353 is high level.

7MHz : The GPP3 port of the MT353 is low level.

4-10 Spurious Signals at Input Terminal

Local Oscillator Leakage : 46dBuV max.

4-11 Reference Frequency

The X-tal for the RF block's PLL : 4MHz

4-12 Phase Noise (step frequency 166.67kHz for digital)

@ 1kHz : -84dBc/Hz typ. -75dBc/Hz max.

@ 10kHz : -90dBc/Hz typ. -80dBc/Hz max.

4-13 Control Data Bus : I2C

4-14 Control Data Format : refer 5 section

4-15 Image PAL Interference Protection Ratio

: -49dB typ. -46dB min (at 2K, 8K mode) Note1.

4-16 Adjacent PAL Interference Protection Ratio. (N \pm 1 channel)

: -38dB typ. -35dB min (at 2K, 8K mode) Note1.

4-17 Co-Channel PAL Interference Ratio.

: +1dB typ. +4dB min (at 2K, 8K mode) Note1.

◆ Note1 :

Desire input signal condition

a : Modulation - 64QAM

b : Guard Interval - 1/32

c : Puncture Rate - 2/3

Undesired input signal condition :

PAL : Video 75% color bars

FM sound : 1kHz tone (P/S : 13dB, \pm 50kHz deviation, freq. P/S : 6.0MHz)

※ Adjacent & Image channel PAL interference test procedure

a. Turn DVB-T source off ; adjust PAL PSP level to -25dBm

b. Turn PAL off ; turn DVB-T on

c. Adjust DVB-T to -25dBm

d. Turn PAL on and increase step PAL level to see the pixelation on the screen

e. Note protection ratio as the difference value between DVB-T and PAL's level

※ Co-Channel PAL interference test procedure

a. Turn PAL source off ; adjust DVB-T level to -50dBm

b. Turn DVB-T off ; turn PAL on

c. Adjust PAL to -50dBm

d. Turn DVB-T on and increase step attenuator in PAL channel until QEF.

4-18 Input Carrier to Noise (Additive White Gaussian Noise, QEF. Condition)

: 17.4dB typ. 18.4dB max. (64QAM, 2K,8K Mode, Code rate:2/3, input level:-50dBm)

: 22.5dB typ. 23.5dB max. (64QAM, 2K,8K Mode, Code rate:7/8, input level:-50dBm)

4-19 Sensitivity (QEF. Condition)

: -80dBm typ. -77dBm max.(64QAM, 2K,8K Mode, Code rate:2/3,Guard Interval 1/32)

: -73dBm typ. -70dBm max.(64QAM, 2K,8K Mode, Code rate:7/8,Guard Interval 1/32)

4-20 Multipath channel Interference (64QAM, 2K, 2/3code rate, 1/32G.I)

13 Circuit Descriptions

short echo : 20.2dB max

Path	Delay(us)	Relative Attenuation(dB)
1	0	2.8
2	0.05	0
3	0.4	3.8
4	1.45	0.1
5	2.3	2.6
6	2.8	1.3

short delay parameter

long echo : 22.2dB max

Path	Delay(us)	Relative Attenuation(dB)
1	0	0
2	5	9
3	14	22
4	35	25
5	54	27
6	75	28

long delay parameter

5. Electrical Characteristics (Analog Demodulation)

5-1 PIF characteristics

Parameter		Specification			Unit	Remark
		Min.	Typ.	Max.		
Video Output Level		0.95	1.0	1.05	Vp-p	*Input level : 70dBuV *PAL : 87.5% mod.
Luminance S/N Ratio		45	47	-	dB	*Input level : VHF 70dBuV UHF 70dBuV *HPF : 100kHz *LPF : 5MHz, SC trap : ON *100% white signal (0.7Vp-p) *PAL : 87.5% mod. *Weight : OFF
Sensitivity VHF UHF		-	44 45	47 48	dBuV	S/N = 30dB HPF : 100kHz LPF : 5MHz, SC trap : ON 100% white signal PAL : 87.5% mod.
Chroma Distortion	DP	-7	3	+7	Deg	*Input level : 70dBuV
	DG	-7	3	+7	%	*10 stair step *PAL : 87.5% mod.
Y/C Delay		-75	0	75	nsec	Y is reference(B/G MODE)
Video Frequency Response 1.0MHz PAL 2.0MHz SECAM L 3.0MHz 4.43MHz		-1.0 -1.5 -2.0 -4.0	0 0 0 -1	+1.0 +1.5 +2.0 +1.5	dB	*Input level : 70dBuV *Vedeo Signal - PAL : 87.5 %, AM MOD - Muli - Burst Signal
Video Frequency Response 1.0MHz SECAM L' 2.0MHz 3.0MHz 4.43MHz		-3.0 -3.5 -4.0 -6.5	0 0 0 -2.5	+3.0 +3.5 +3.5 +3.0	dB	*Input level : 70dBuV *Vedeo Signal - SECAM : 95 %, AM MOD - Muli - Burst Signal
BURST LEVEL		15	25	45	%	*Input level : 70dBuV *Vedeo Signal - PAL : 87.5 %, AM MOD (Standard Color Bar Signal)

5-2 AFT Characteristics

Parameter	Specification			Unit	Remark
	Min.	Typ.	Max.		
AFT Alignment Accuracy	+50	0	-50	KHz	Alignment center : 2.5V IF input level : 90dBuV P/S = -10dB Standard color bar :87.5% mod.

5-3 Audio characteristics

Parameter	Specification			Unit	Remark
	Min	Typ	Max		
SIF OUT Level	65	90		dBuV	Standard color bar 87.5% mod.

13-5 DTV MAIN ChipSet

13-5-1 STi5517SUA SPEC.

■ Enhanced ST20 32-bit VL-RISC CPU

- 180 MHz, 8 Kbyte instruction cache, 8 Kbyte data cache and 8 Kbyte SRAM

■ Shared memory interface

- 133 MHz, 16-bit wide SDRAM interface, 64 and 128 Mbit support

■ Programmable external memory interface

- 6 separately configurable banks, 8/16-bits wide
- SRAM, SDRAM, Flash, SFlash support
- support for connection to HDD (PIO modes)

■ Programmable transport interface (PTI)

- 2 input static MUX
- single transport stream demux: DVB and/or DIRECTV®
- integrated DES-ECB, DVB, ICAM, Fast-I descramblers
- support for low cost DVB-CI interface

■ MPEG-2 MP@ML video decoder

- greater than 2x decoding speed
- trick modes including smooth fast-forward and rewind
- fully programmable horizontal and vertical SRCs

■ Graphics/display

- 5 display planes
- 2, 4 and 8 bpp CLUT graphics, 256 x 30 bits (AYCbCr) CLUT entries, 16 bpp true color graphics, RGB565, ARGB1555, ARGB4444 formats, link-list control
- alpha blending, antialiasing, antialiasing, antiflicker filters
- 2-D paced blitter engine with fill function
- display compositor with separate OSD controller for TV and VCR outputs

■ PAL/NTSC/SECAM encoder

- RGB, CVBS, Y/C and YUV outputs with 10-bit DACs
- encoding of CGMS, Teletext, WSS, VPS, close caption

■ Audio subsystem

- MPEG-1 layers I/II and layer III (MP-3)
- Dolby® Digital decoding
- Dolby Pro Logic® compatible output
- PCM mixing and sample rate conversion
- SRS/TruSurround® virtual surround sound
- IEC958/IEC1937 digital audio output interface
- integrated stereo audio DAC system

■ DMA controller

■ On-chip peripherals

- 5 ASCs (UARTs) with Tx and Rx FIFOs
- 6 8-bit banks of parallel I/O
- 2 smartcard interfaces and clock generators
- 2 SSCs for I C/SPI master/slave interfaces
- 4 PWM channels
- teletext serializer and DMA module
- multichannel infrared transmitter/receiver
- modem analog front-end interface (MAFE)
- TS output interface for connection to external IEEE1394 link-layer controller
- low-power / RTC / watchdog controller

■ JTAG/TAP interface

■ Package 27x27 PBGA416

13-5-2 CS4340 SPEC.

Features

- Complete Stereo DAC System: Interpolation, D/A, Output Analog Filtering
- 101 dB Dynamic Range
- 91 dB THD+N
- Low Clock Jitter Sensitivity
- +3 V to +5 V Power Supply
- Filtered Line Level Outputs
- On-Chip Digital De-emphasis for 32, 44.1, and 48 kHz
- 30 mW with 3 V supply
- Popguard® Technology for Control of Clicks and Pops

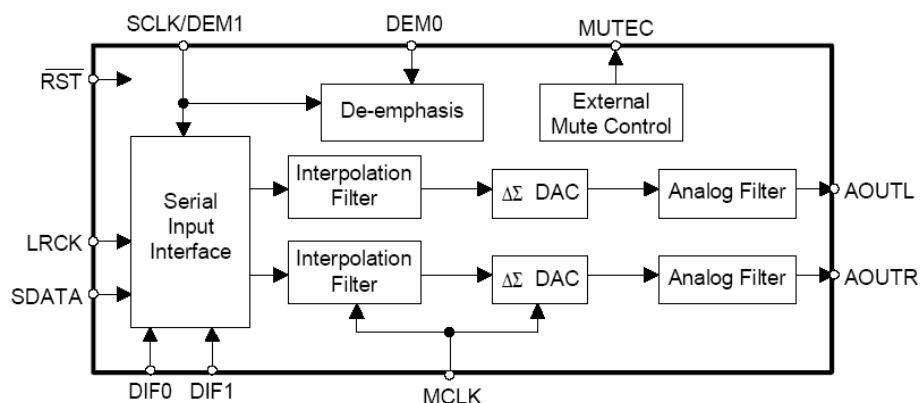
Description

The CS4340 is a complete stereo digital-to-analog system including digital interpolation, fourth-order delta-sigma digital-to-analog conversion, digital de-emphasis and switched capacitor analog filtering. The advantages of this architecture include: ideal differential linearity, no distortion mechanisms due to resistor matching errors, no linearity drift over time and temperature and a high tolerance to clock jitter.

The CS4340 accepts data at audio sample rates from 2 kHz to 100 kHz, consumes very little power, and operates over a wide power supply range. The features of the CS4340 are ideal for DVD players, CD players, set-top box and automotive systems.

ORDERING INFORMATION

CS4340-KS	16-pin SOIC, -10 to 70 °C
CS4340-BS	16-pin SOIC, -40 to 85 °C
CDB4340	Evaluation Board



13-5-3 MX29LV320CB(Flash Memory) SPEC.

FEATURES**GENERAL FEATURES**

- 4,194,304 x 8 / 2,097,152 x 16 switchable
- Sector Structure
 - 8K-Byte x 8 and 64K-Byte x 63
- Extra 64K-Byte sector for security
 - Features factory locked and identifiable, and customer lockable
- Twenty-Four Sector Groups
 - Provides sector group protect function to prevent program or erase operation in the protected sector group
 - Provides chip unprotect function to allow code changing
 - Provides temporary sector group unprotect function for code changing in previously protected sector groups
- Single Power Supply Operation
 - 2.7 to 3.6 volt for read, erase, and program operations
- Latch-up protected to 250mA from -1V to Vcc + 1V
- Low Vcc write inhibit is equal to or less than 1.4V
- Compatible with JEDEC standard
 - Pinout and software compatible to single power supply Flash

PERFORMANCE

- High Performance
 - Fast access time: 70/90/120ns
 - Fast program time: 7us/word typical utilizing accelerate function
 - Fast erase time: 1.6s/sector, 112s/chip (typical)

- Low Power Consumption
 - Low active read current: 10mA (typical) at 5MHz
 - Low standby current: 200nA (typical)
- Minimum 100,000 erase/program cycle
- 10-year data retention

SOFTWARE FEATURES

- Erase Suspend/ Erase Resume
 - Suspends sector erase operation to read data from or program data to another sector which is not being erased
- Status Reply
 - Data polling & Toggle bits provide detection of program and erase operation completion
- Support Common Flash Interface (CFI)

HARDWARE FEATURES

- Ready/Busy (RY/BY) Output
 - Provides a hardware method of detecting program and erase operation completion
- Hardware Reset (RESET) Input
 - Provides a hardware method to reset the internal state machine to read mode
- \overline{WP}/ACC input pin
 - Provides accelerated program capability

PACKAGE

- 48-Pin TSOP
- 48-Ball CSP

13-6 DTV MAIN Chipset (Only for Italy)

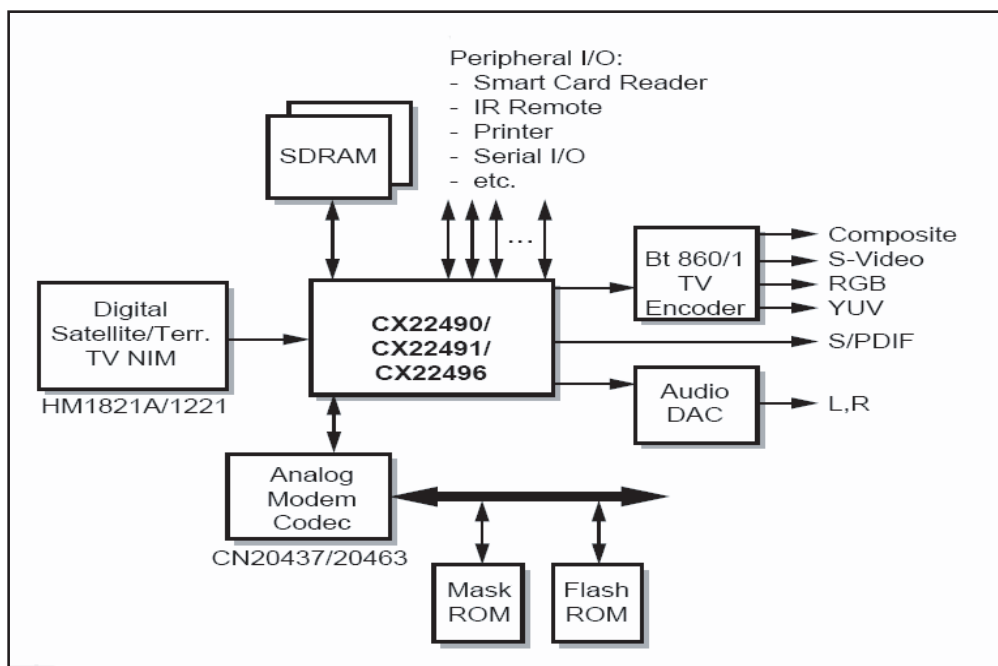
13-6-1 CX22496 SPEC.

1. Transport/PES Stream De-Multiplexing

A transport stream is received into the MPEG-2/DVB Transport Stream De-multiplexer. This block contains a DVB common descrambling processor to perform transport or PES payload descrambling. The embedded CPU retrieves ECMs and EMMs from the PSI/SI data and obtains control keys from the EMMs and the smart card interface controller. The CX22491/CX22496 also includes NDS proprietary conditional access gates. After descrambling and error recovery, the Transport Stream De-multiplexer performs transport header parsing, PES header parsing and PSI/SI header parsing and extraction. The PID filters pass through the selected video and audio data, the PCR, as well as up to 36 other user-defined packet streams. The Program Clock Reference is sent to a system timing generator while the other streams are temporarily stored in local memory. Video and Audio streams are automatically detected and sent to the MPEG-2 Video Decoder and MPEG Audio/Dolby Digital Decoder blocks respectively, while user data streams (including teletext and sub-titling) must be taken out of local SDRAM memory by the embedded ARM CPU. A system timing generator uses a single external 14.318MHz crystal and on-chip PLLs to provide all required clock signals for A/V decoding, memory controller, CPU, display controller, audio controller, clock recovery and modem functions.

2. Video Decoding The MPEG video decoder module decodes MPEG-1 and MPEG-2 MP@ML video bitstreams at bit-rates up to 15Mbit/sec. A range of video picture resolutions are supported including: 720x576, 544x576, 480x576, 352x576, 352x288, 720x480, 544x480, 480x480, 352x480, 352x240. Up-sampling to CCIR601 for the low resolution picture modes is implemented using a high performance two dimensional interpolation filter. Error concealment is applied down to the slice level.

3. Audio Decoding and PCM Output CX22490/1/6 supports MPEG-1 single channel, dual channel, joint-stereo and stereo modes. MPEG-2 backward compatible bit-streams are also supported at both half and full sample rates. MPEG audio can be decoded with or without de-emphasis. For Dolby Digital bit-streams, the CX22490/1/6 internally decodes 5.1 channels of PCM audio but only the ProLogic encoded, stereo down-mixed pair are provided as outputs



13-6-2 UDA4330D(Audio DAC) SPEC.

- Low power consumption
- Power supply voltage from 2.7 to 5.5 V
- Selectable control via L3 microcontroller interface or via static pin control
- System clock frequencies of 256fs, 384fs and 512fs selectable via L3 interface or 256fs and 384fs via static pin control
- Supports sampling frequencies (fs) from 8 to 55 kHz
- Integrated digital filter plus non inverting Digital-to-Analog Converter (DAC)
- No analog post filtering required for DAC
- Slave mode only applications
- Easy application
- Small package size (SSOP16)
- TTL tolerant input pads
- Pin and function compatible with the UDA1320ATS.

Multiple format input interface

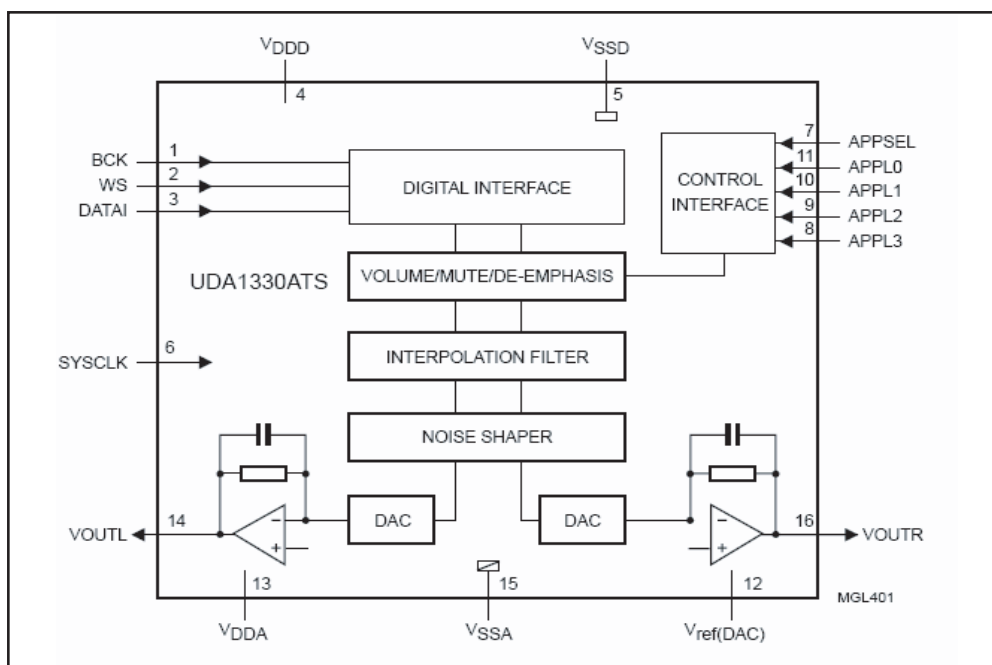
- L3 mode: I 2 S-bus, MSB-justified or LSB-justified 16, 18 and 20 bits format compatible
- Static pin mode: I 2 S-bus and LSB-justified 16, 18 and 20 bits format compatible
- 1fs input format data rate.

DAC digital sound processing

- Digital logarithmic volume control in L3 mode
- Digital de-emphasis for 32, 44.1 and 48 kHz sampling frequencies in L3 mode or 44.1 kHz sampling frequency in static pin mode
- Soft mute control both in static pin mode and L3 mode.

Advanced audio configuration

- Stereo line output (volume control in L3 mode)
- High linearity, wide dynamic range and low distortion.



Memo



11 Disassembly and Reassembly

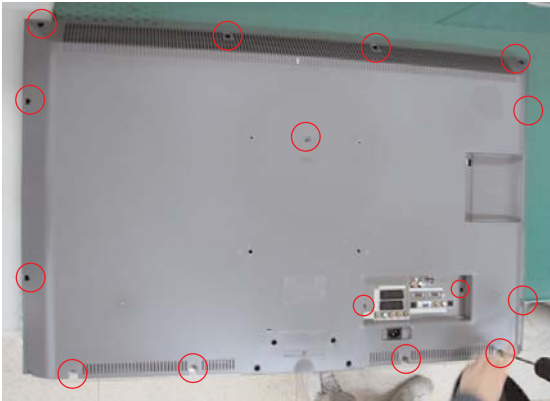

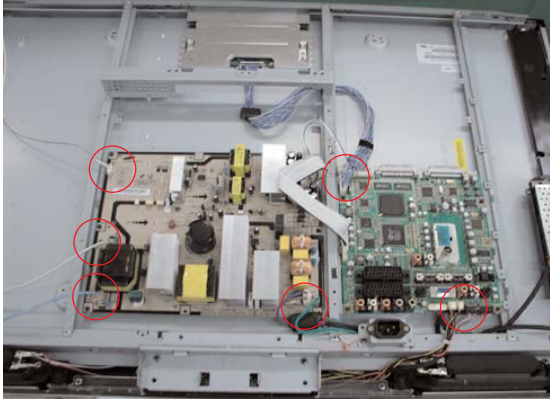
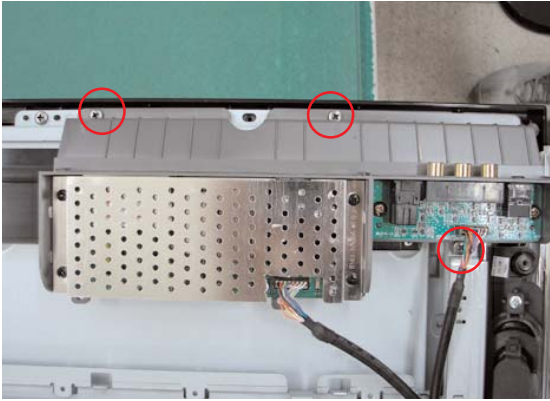
This section of the service manual describes the disassembly and reassembly procedures for the TFT-LCD TV.

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

11-1 Disassembly

⚠ 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
1. Place monitor face down on cushioned table. Remove screws from the Stand. Remove stand.	
	

Description	Picture Description
<p>2. Remove screws from the rear-cover and lift up the rear-cover.</p>	 A photograph of the rear cover of a device. Several screws are circled in red, indicating they need to be removed. The cover is light gray and has a rectangular cutout on the right side.
	 A photograph showing a person's hands lifting the rear cover off the device. The cover is being held up by the left hand, and the right hand is visible near the bottom edge. The device's internal components are visible through the cutout.
<p>3. Disconnet cables from the main and power boards Remove screws from the side AV jack.</p>	 A photograph of the internal components of the device. Several screws are circled in red, indicating they need to be removed. The components include a main board, a power board, and various cables.
	 A close-up photograph of the side AV jack. Two screws are circled in red, indicating they need to be removed. The jack is a metal plate with multiple ports.

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 Reassembly

Reassembly procedures are in the reverse order of disassembly procedures.

Memo

6-2 LE32N73BD Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
0		LE32N73BDX/XEF	LE32N73BD,R54B/32M70-GND,32,LCD-TV,FRANC	0	
0.1	M0001	BN90-00936F	ASSY COVER FRONT;32N73,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	BN96-03413D	ASSY COVER P-FRONT;32N73,EO,ABS+PMMA,HB,	1	S.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	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	T0060	BN61-01655A	SPRING ETC;STS-304 SUS,D8,L12,T0.5	1	S.N.A
.3		BN61-02665A	HOLDER-BOSS;MOSEL 32,ABS,VO, TOP	1	S.N.A
.3		BN61-02668A	HOLDER-BOSS;MOSEL 32,ABS,VO, BOTTOM,LEFT	1	S.N.A
.3		BN61-02669A	HOLDER-BOSS;MOSEL 32,ABS,VO, BOTTOM,RIGHT	1	S.N.A
.3		BN61-02771A	BOSS-BOND;MOSEL,ABS+PMMA,NATURAL,BOND	12	S.N.A
.3	CCM1	BN63-02183F	COVER-SHEET;RhcM,PE Vinyl,T0.05,900mm,20	1.48	S.N.A
.3	M0112	BN63-02533D	COVER-FRONT;32N73,EO,ABS+PMMA,HB,BK23,S/	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,VACUUM	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	M0146	BN96-03634B	ASSY BOARD P-POWER & IR;LE40M71BX,CT5000	1	S.A
.3		BN96-03664A	ASSY COVER P-DECORATION;MOSEL,32,PC,CLEA	1	S.N.A
.4	CCM1	BN63-02183F	COVER-SHEET;RhcM,PE Vinyl,T0.05,900mm,20	0.07	S.N.A
.4	T0056	BN63-02528A	COVER-DECORATION;MOSEL,40,ABS,HB,Cr-Plat	1	S.N.A
.4	T0056	BN63-02529A	COVER-DECORATION;MOSEL,40,ABS,HB,Cr-Plat	1	S.N.A
.4	T0056	BN63-02536A	COVER-DECORATION;MOSEL,32,PC,Clear	1	S.N.A
.4	T0069	AA60-00091F	SPACER-FELT;-,FELT,150X10,-,-,BLK,T0.5,-	2	S.N.A
.4	T0069	AA63-60001E	SPACER-FELT;-,FELT,-,-,BLK,0.5,-,55X15	4	S.N.A
.3	T0069	AA60-00171Q	SPACER-FELT;56L3,FELT,690,T0.35,8	2	S.N.A
.3	T0069	AA63-60001Q	SPACER-FELT;-,FELT,-,-,BLK,T0.35,-,150	1	S.N.A
0.1	M0002	BN90-00939D	ASSY COVER REAR;32M73,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)	13	S.A
.2	M0013	BN96-04112B	ASSY COVER P-REAR;32M73,EO,HIPS,HB,BK500	1	S.A
.3	M0081	6003-001003	SCREW-TAPTITE;BH,+,B,M4,L12,ZPC(BLK),SWR	4	S.N.A
.3	M0006	BN63-02534B	COVER-REAR;32N73,EO,HIPS,HB,BK500	1	S.N.A
.3	T0071	BN64-00481B	INLAY-TERMINAL;MOSEL,40,EO(IDTV),PS,SHEE	1	S.N.A
.3	T0064	BN65-00002A	CLAMPER CORE;BORDEAUX,PP,V0,BLK	1	S.N.A
.3		BN61-02776A	HOLDER-WALL;32R7,ABS,HB,BLK	2	S.N.A
.3	T0069	AA60-00091J	SPACER-FELT;-,FELT,330X10,-,-,BLK,T0.5,-	2	S.N.A
0.1	M0216	BN90-00942B	ASSY STAND;32N71,-,-,-,SQUARE STAND	1	S.N.A
.2	T0524	6902-000241	BAG PE;NITRON/HDPE,T0.5/T0.012,W600,L600	1	S.N.A
.2	M0013	BN96-04114A	ASSY STAND P-BASE;32N71,EO(NEO),-,ABS+PM	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		BN61-02204A	HOLDER-SWIVEL RING;26,32R71,ACETAL,BLK	1	S.N.A
.3		BN61-02232A	HOLDER-SWIVEL RING;32R71,ACETAL NATUAL,T	1	S.N.A
.3		BN61-02233A	HOLDER-SWIVEL RING;32R71,ACETAL NATUAL,B	1	S.N.A
.3		BN61-02236A	BRACKET-HINGE SWIVEL;BORDEAUX 32,SECC,T1	1	S.N.A
.3	T0920	BN61-02439A	GUIDE-STAND;MOSEL 32,ABS VO	1	S.N.A
.3	T0514	BN61-02367A	BRACKET-SUPPORT;BORDEAUX 32,SECC,T2,0	1	S.N.A
.3		BN61-02772A	BRACKET-STAND BOTTOM;NEO MOSEL 32,SECC,T	1	S.N.A
.3		BN63-02537A	COVER-STAND SUB;32M71,ABS+PMMA,-,-,HB,	1	S.N.A
.3	T0004	BN63-02851A	COVER-STAND BASE;32N71,EO(NEO),ABS+PMMA,	1	S.N.A
.3	T0132	BN73-00052A	RUBBER FOOT;ARES 17,SILICON,DIA 17 * T1.	6	S.N.A
0.1	MP1.0	BN91-01058T	ASSY LCD-AMZ;LE32M61BX/XEC	1	S.N.A
.2	M0215	BN07-00324A	LCD-PANEL;T315XW02(V3),8bit,760.0*450.0"	1	S.A
0.1	M0017	BN91-01181R	ASSY CHASSIS;LE32N73BDX/XEF	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,SPT 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,-,D20-45S,-96.5Sn/	0.398	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

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....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-POS.FIXED REG.;AP1117D-33A,TO-252,3P	1	S.A
....4	T0087	1203-002842	IC-POS.FIXED REG.;AP1117D-33A,TO-252,3P	1	S.A
....4	T0087	1203-002842	IC-POS.FIXED REG.;AP1117D-33A,TO-252,3P	1	S.A
....4	T0087	1203-002974	IC-POS.FIXED 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
....4	R10	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R9	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R107	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R108	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R109	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R110	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R111	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R112	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	S.A
....4	R113	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	S.A
....4	R1	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R117	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R140	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R146	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R158	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R159	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R5	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R116	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R139	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R142	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R143	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R144	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R145	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R37	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R38	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R7	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R100	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R101	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R129	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R130	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R160	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R161	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R64	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R65	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R66	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R67	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R68	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R69	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R70	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R71	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R72	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R73	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R74	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R75	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R76	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R77	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R78	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R79	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R80	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R81	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R82	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R83	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R84	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R85	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R86	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R87	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R88	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R89	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R90	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R91	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R92	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R93	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R94	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R95	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R96	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R97	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R98	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R99	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R102	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	1	S.A
....4	R103	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	1	S.A
....4	R115	2007-000093	R-CHIP;20Kohm,5%,1/10W,TP,1608	1	S.A
....4	R49	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R50	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R51	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R52	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R53	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R54	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R55	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R56	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R57	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R58	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R59	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R60	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R61	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R62	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R63	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R106	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	1	S.A
....4	R114	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R48	2007-000475	R-CHIP;1Mohm,1%,1/10W,TP,1608	1	S.A
....4	R151	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R152	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R153	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R13	2007-007526	R-CHIP;23.7Kohm,1%,1/10W,TP,1608	1	S.A
....4	R39	2007-007947	R-CHIP;36ohm,1%,1/10W,TP,1608	1	S.A
....4	R40	2007-007947	R-CHIP;36ohm,1%,1/10W,TP,1608	1	S.A
....4	R105	2007-008595	R-CHIP;1.02Kohm,1%,1/10W,TP,1608	1	S.A
....4	C106	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,C0G,1608	1	S.A
....4	C114	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C115	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C100	2203-000332	C-CER,CHIP;0.012nF,5%,50V,C0G,1608	1	S.A
....4	C101	2203-000332	C-CER,CHIP;0.012nF,5%,50V,C0G,1608	1	S.A
....4	C116	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C117	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C118	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C155	2203-000552	C-CER,CHIP;0.02nF,5%,50V,C0G,1608	1	S.A
....4	C156	2203-000552	C-CER,CHIP;0.02nF,5%,50V,C0G,1608	1	S.A
....4	C157	2203-000552	C-CER,CHIP;0.02nF,5%,50V,C0G,1608	1	S.A
....4	C104	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	S.A
....4	C105	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	S.A
....4	C107	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	S.A
....4	C108	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	S.A
....4	C103	2203-001242	C-CER,CHIP;0.082nF,5%,50V,NP0,1608	1	S.A
....4	C129	2203-001724	C-CER,CHIP;4700nF,+80-20%,16V,Y5V,3216	1	S.A
....4	C123	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C124	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C125	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C126	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C127	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C128	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C135	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C136	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C137	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C138	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A

6 Electrical Parts List

[illegible]

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C153	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C154	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C161	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C172	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C173	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C174	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C175	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C21	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C22	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C23	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C24	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C25	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C26	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C27	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C28	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C29	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C3	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C30	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C31	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C32	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C33	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C34	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C35	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C36	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C37	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C38	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C39	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C4	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C40	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C41	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C42	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C43	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C5	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C8	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C9	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C122	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	S.A
....4	C16	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	S.A
....4	C162	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	S.A
....4	C17	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	S.A
....4	C18	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	S.A
....4	C19	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	S.A
....4	C20	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7m	1	S.A
....4	C163	2402-000209	C-AL,SMD;22uF,20%,16V,WT,TP,5.3x5.3mm	1	S.A
....4	C7	2402-000209	C-AL,SMD;22uF,20%,16V,WT,TP,5.3x5.3mm	1	S.A
....4	C133	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6.6x5.4	1	S.A
....4	C134	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6.6x5.4	1	S.A
....4	C1	2402-001059	C-AL,SMD;220UF,20%,6.3V,-,TP,6X6.6X6.6	1	S.A
....4	C158	2402-001059	C-AL,SMD;220UF,20%,6.3V,-,TP,6X6.6X6.6	1	S.A
....4	C159	2402-001059	C-AL,SMD;220UF,20%,6.3V,-,TP,6X6.6X6.6	1	S.A
....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,T0.5,-,30X1	1	S.N.A
....2	M0014	BN94-01077B	ASSY PCB MAIN;LE32N7BDX"	1	S.A
....3	T0245	0202-001492	SOLDER-WIRE FLUX;HSE-02 LFM48 SR-34 S,-,	0.25	S.N.A
....3	JA2007	3701-001294	CONNECTOR-DSUB;15P,3R,FEMALE,STRAIGHT,AU	1	S.A
....3	CN902	3703-001600	CONNECTOR-BACK PANEL;32P,2R,FEMALE,ANGLE	1	S.A
....3	CN902	3703-001600	CONNECTOR-BACK PANEL;32P,2R,FEMALE,ANGLE	1	S.A
....3	CN906	3707-001081	CONNECTOR-OPTICAL;STRAIGHT,SPDIF	1	S.A
....3	CN330	3711-002347	HEADER-BOARD TO CABLE;BOX,16P,2R,2MM,ANG	1	S.A
....3	CN330	3711-004349	HEADER-BOARD TO CABLE;BOX,3P,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	3711-005607	HEADER-BOARD TO CABLE;BOX,32P,2R,2mm,STR	1	S.A
....3	CN330	3711-005842	HEADER-BOARD TO CABLE;BOX,24P,2R,2.0mm,S	1	S.A
....3	JA2001_EU	3722-000498	JACK-SCART;21P,-,SN,BLK,NO	1	S.A
....3	JA2005_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	3722-002360	JACK-PIN;3P,AU,GRN/BLU/RED,STRAIGHT	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...3	JA333	3722-002362	JACK-PIN;2P,Sn,WHT/RED,STRAIGHT	1	S.A
...3	JA333	3722-002362	JACK-PIN;2P,Sn,WHT/RED,STRAIGHT	1	S.A
...3	JA333	3722-002362	JACK-PIN;2P,Sn,WHT/RED,STRAIGHT	1	S.A
...3	T0562	6046-001013	STAND OFF;M3,L5,Ni PLT,SUM24L,#4-40	2	S.N.A
...3	CIS3	BN40-00080A	TUNER;DNOS403ZH261B(S),DNOS403ZH261B(S),	1	S.A
...3	SUB09	BN73-00024C	SILICON/RUBBER-BERGQUIST;VENUS 32.40",SI	1	S.N.A
...3	T0174	BN97-01156B	ASSY SMD;LE32N73BDX*	1	S.N.A
....4	SUB05	0202-001477	SOLDER-CREAM;LST309-M,-,D20-45\$,96.5Sn/	4.307	S.N.A
....4	D2003	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2013_EU	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2016	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2017	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2018	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2019	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2020	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2021	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2022	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2023	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2032	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2033	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2034	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2057	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2062	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2063	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2064	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2065	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2066	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2067	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2068	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2069	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2072	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2085	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2086	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2087	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D2088	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1001	0402-000553	DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2	1	S.A
....4	D1004_DTV	0402-000553	DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2	1	S.A
....4	D1012	0402-000553	DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2	1	S.A
....4	D1008	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A
....4	D3003	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A
....4	D2001	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D2002	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D2040	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D2043	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D2061	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D2070	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D2073	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D2074	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D2084	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D3006	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D3008	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D4001	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D4002	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D4003	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D4004	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D4005	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D4006	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D4007	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D4008	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D4009	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D4010	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D4011	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D4012	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D4013	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D4014	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D5010	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D5011	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D5012	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D2004	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500mW,LL-	1	S.A
....4	D2071	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500mW,LL-	1	S.A
....4	D3009	0403-001052	DIODE-ZENER;RD8.2MB,7.7-8.7V,200mW,SOT-2	1	S.A
....4	D2009	0403-001169	DIODE-ZENER;RLZ16C,15.96-16.51V,500mW,LL	1	S.A
....4	D2039	0403-001169	DIODE-ZENER;RLZ16C,15.96-16.51V,500mW,LL	1	S.A
....4	D2005_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2006	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2007_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2008	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2014	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2015	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2024	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2025_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2026	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2027	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	D2028	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2029	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2030	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2031	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2035	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2036	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2037	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2038	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2051	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2052	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2054	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2055	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2056	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2078	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2081	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2082	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D2083	0406-001172	DIODE-TVS;CDS3C30GTH,48V,0W,SMD	1	S.A
....4	D1002	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D1011	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D3001	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D3002	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	Q1007	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150MW,SOT-23	1	S.A
....4	Q1006	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q1008	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q1009	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q1010	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q1011	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q1013	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q1016	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q2001	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q2002	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q3001	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q3003	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q3008	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q3010	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q3011_DTV	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q3113	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q4001	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q5010_DTV	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q5013	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q1003	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q1017	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q2003	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q2008	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	IC104	0801-002716	IC-CMOS LOGIC;74LCX157,MULTIPLEXER,SOIC,	1	S.A
....4	IC3002	0903-001432	IC-MICROCOMPUTER;M30840SGP,16Bit,LQFP,10	1	S.N.A
....4	IC106	1001-001082	IC-VIDEO SWITCH;BA7657F,-,SOP,24P,300MIL	1	S.A
....4	IC106	1001-001082	IC-VIDEO SWITCH;BA7657F,-,SOP,24P,300MIL	1	S.A
....4	IC2005	1001-001109	IC-ANALOG SWITCH;FST3125M,BUS SWITCH & C	1	S.A
....4	IC3006	1001-001109	IC-ANALOG SWITCH;FST3125M,BUS SWITCH & C	1	S.A
....4	IC5005_DTV	1001-001109	IC-ANALOG SWITCH;FST3125M,BUS SWITCH & C	1	S.A
....4	IC1016	1001-001178	IC-AUDIO SWITCH;TEA6422D,AUDIO SWITCH,S	1	S.A
....4	IC106	1001-001363	IC-VIDEO SWITCH;PI3HDMI412FT,HDMI TMDS S	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	IC5002	1105-001538	IC-VIDEO RAM;K4D263238,-,128M,4x1Mx32Bit	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	IC150	1203-001009	IC-SWITCH REG.;3172,SOP,8P,244MIL,PLASTI	1	S.A
....4	IC3009	1203-001559	IC-RESET;DS1834A,SOIC,8P,150MIL,PLASTIC,	1	S.A
....4	T0087	1203-001815	IC-POSIFIXED REG.;78M09,TO-252,3P,-,PLA	1	S.A
....4	T0087	1203-001816	IC-POSIFIXED REG.;78M08,TO-252,3P,-,PLA	1	S.A
....4	T0087	1203-002842	IC-POSIFIXED REG.;AP1117D-33A,TO-252,3P	1	S.A
....4	T0087	1203-002855	IC-POSIFIXED REG.;MC33269DTRK-5.0,DPRK,	1	S.A
....4	T0087	1203-002974	IC-POSIFIXED REG.;AP1117D-25A,TO-252,3P	1	S.A
....4	T0170	1203-003059	IC-SWITCH VOL. REG.;MP1583,SOIC,8P,4.9x3	1	S.A
....4	T0170	1203-003059	IC-SWITCH VOL. REG.;MP1583,SOIC,8P,4.9x3	1	S.A
....4	T0087	1203-003561	IC-POSIFIXED REG.;NCP551SN15T1G,TSP-5,	1	S.A
....4	IC1009	1204-002464	IC-AUDIO PROCESSOR;STV8257DSX,TQFP,80P,1	1	S.A
....4	IC118	1204-002496	IC-VIDEO PROCESS;S4LD158X01,QFP,128P,14x	1	S.N.A
....4	IC118	1204-002503	IC-VIDEO PROCESS;SVP-PX56-7256,PQFP,256P	1	S.N.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	IC2011	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	IC2012	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	IC2013	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	IC2014	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	IC2015	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	IC2016	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	IC2017	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	IC2018	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	IC2019	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	IC2020	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	IC2021	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	IC2022	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	IC2023	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	IC2024	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	IC2025	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	IC2026	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	R2179	2007-000040	R-CHIP;150ohm,1%,1/10W,TP,1608	1	S.A
....4	R1052	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A
....4	R5026	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A
....4	R5029	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1057	2007-000050	R-CHIP;7.15Kohm,1%,1/10W,TP,1608	1	S.A
....4	R3088	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R3100	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R3101	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R3102	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R3104	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R3105	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R3106	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R3107	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R3120	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R3130	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R3476	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R4052	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R5117	2007-000060	R-CHIP;100Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1128	2007-000066	R-CHIP;20Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1066	2007-000067	R-CHIP;15Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1130	2007-000067	R-CHIP;15Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1059	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1085	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1086	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	R1123_EU	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2055	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2064	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2080	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2098	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2099	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2100	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2101	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2102	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2103	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2104	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2105	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2106	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2107	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2108	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2109	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2111	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2112	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2113	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2114	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2115	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2233	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2239_DTV	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2241_DTV	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2248_DTV	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2249_DTV	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2250_DTV	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2261_DTV	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3003	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3024	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3025	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3026	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3027	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3028	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3029	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3031	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3032	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3033	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3035	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3037	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3039	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	R3040	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3041	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3043	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3047	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3089	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3090	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3117	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3118	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3132	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3477_DTV	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R3999_1CH	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4004	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	R4006	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4007	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4008	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4009	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4010	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4011	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4012	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4016	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4017	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4018	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	R4032	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4033	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4035	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4057	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4058	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4062	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4064	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4132_1CH	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4133_1CH	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4140	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4147	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4148	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4149	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R4157_1CH	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R5012_DTV	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R5014_DTV	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R5076	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R5122	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R5124_DTV	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R5125_DTV	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R5126_DTV	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R6004	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2050	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R2063	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R2228	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R2231	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R2234	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R2236	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R2237	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R2240	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R2242	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R2243	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R2246	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R2247	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R2251	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R2252	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R2253	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R2254	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R4015	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R4020	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R4125	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R4126	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R4127	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R4128_DE	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R4144	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R5030	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R5031	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R5032	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R5033	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R5127_DTV	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1061	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1063	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1131	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1132	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1133	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1134	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R2007	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R2008	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R2049	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A

6 Electrical Parts List

[illegible]

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R1098	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R2004	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R2006	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R2033	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R2034	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R2037	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R2039	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R2042	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R2043	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R2074	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R2075	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R2077	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R2079	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R2244	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R2245	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R3128	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R3133	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R3137_DTV	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R4030	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R4031	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R4143	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R1074_DTV	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2009	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2016	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2120	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2124	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2160	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3001	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3019	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3030	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3121	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3143	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3144	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3471_DTV	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3475	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4025	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4026	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4027	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	R4053	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4141	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4142	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R5043_DTV	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R6145	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2157	2007-000079	R-CHIP;1.8Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3016	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3017	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3071	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3072	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4145	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4146	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1035	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1058	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1060	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3002	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3015	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3018	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3020	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3021	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3022	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3070	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3079	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3080	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3081	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3082	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3086	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3087	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3108	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3109	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3110	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3111	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3112	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3113	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3114	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3116	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3134	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3136	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3138_DTV	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3140	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4036	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4037	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4136	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4137	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R4151	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4153	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R6001	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R6002	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1127	2007-000086	R-CHIP;5.6Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2028	2007-000087	R-CHIP;6.8Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2061_EU	2007-000087	R-CHIP;6.8Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1051	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1067	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1120	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1125	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1126	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1136	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1137_1CH	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2002	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2003	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2013	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2044	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2045	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2057	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2065	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2116	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2117	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2121	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3005	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3075	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3076	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3083	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3084	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3085	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3131	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3142	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4118	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R4119	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R5004_DTV	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R5044_DTV	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1065	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1129	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1070	2007-000093	R-CHIP;20Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1071	2007-000093	R-CHIP;20Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2161	2007-000093	R-CHIP;20Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1082	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3004	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	S.A
....4	R5155_DTV	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1062	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1068	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1075	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1079	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1080	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2010	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2011_EU	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2012_EU	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2162	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3099	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1001	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1002	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1003	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1004	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1005	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1006	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1007	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1008	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1019	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1020	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1021	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1022	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1023	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1024	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1025	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1026	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1107	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1108	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1109	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1110	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1111	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1112	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1113	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1114	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1064	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1069	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1072	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1135	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1073	2007-000107	R-CHIP;470Kohm,5%,1/10W,TP,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R2125	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2126	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2127	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2128	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2129	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2130	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2131	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2132	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2133	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2134	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2135	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2136	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2137	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2138	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2139	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2140	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R4021	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R4022	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R4023	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R4024	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2159	2007-000116	R-CHIP;120ohm,5%,1/10W,TP,1608	1	S.A
....4	R1036	2007-000119	R-CHIP;560ohm,5%,1/10W,TP,1608	1	S.A
....4	R1078_DTV	2007-000122	R-CHIP;1.2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1031	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2158	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2220	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2221	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2222	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3129	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1096	2007-000125	R-CHIP;3.9Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1076_DTV	2007-000129	R-CHIP;27Kohm,5%,1/10W,TP,1608	1	S.A
....4	R5015_DTV	2007-000133	R-CHIP;330Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2024_EU	2007-000287	R-CHIP;100OHM,1%,1/10W,TP,1608	1	S.A
....4	R2018	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	S.A
....4	R2022_EU	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	S.A
....4	R2031	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	S.A
....4	R2053	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	S.A
....4	R2058	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	S.A
....4	R2068	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	S.A
....4	R2084	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	S.A
....4	R2093	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	S.A
....4	R2171	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	S.A
....4	R3044	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3048	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3049_1M	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3050_1M	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3056	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3060	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3061	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3064	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3066	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3067	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3068	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3069	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3091	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3092	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3093	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3094	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3095	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3096	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3097	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3098	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R5045_DTV	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R5046_DTV	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R5047_DTV	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R2017	2007-000458	R-CHIP;18Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2052	2007-000458	R-CHIP;18Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2141	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	R2142	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	R2143	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	R2144	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	R2145	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	R2146	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	R2147	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	R2148	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	R2149	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	R2150	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	R2151	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	R2152	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	R2153	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	R2154	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	R2155	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	R2156	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R3012	2007-000704	R-CHIP;3.6Kohm,5%,1/10W,TP,1608	1	SA
....4	R3013	2007-000704	R-CHIP;3.6Kohm,5%,1/10W,TP,1608	1	SA
....4	R1077_DTV	2007-000708	R-CHIP;3.9Kohm,1%,1/10W,TP,1608	1	SA
....4	R4156	2007-000903	R-CHIP;430ohm,1%,1/10W,TP,1608	1	SA
....4	R2019	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
....4	R2020	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
....4	R2021	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
....4	R2066	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
....4	R2067	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
....4	R2076	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
....4	R2078	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
....4	R2082	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
....4	R2083	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
....4	R2094	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
....4	R2095	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	SA
....4	R5035	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	SA
....4	R5039	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	SA
....4	R2030_EU	2007-001131	R-CHIP;68ohm,1%,1/10W,TP,1608	1	SA
....4	R2056_EU	2007-001131	R-CHIP;68ohm,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	R2025	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R2026	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R2027	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R2032	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R2062	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R2085	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R2086	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R2087	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R2122	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R2123	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R2172	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R2036	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R2038	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R2041	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R2046	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R2047	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R2048	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R2054	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R2059	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R2256	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R2257	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R2258	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R5016_DTV	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R2175_EU	2007-007733	R-CHIP;51ohm,1%,1/10W,TP,1608	1	SA
....4	R1083	2007-008720	R-CHIP;4.7ohm,1%,1/4W,TP,3216	1	SA
....4	R1088	2007-008720	R-CHIP;4.7ohm,1%,1/4W,TP,3216	1	SA
....4	R1094	2007-008720	R-CHIP;4.7ohm,1%,1/4W,TP,3216	1	SA
....4	R1097	2007-008720	R-CHIP;4.7ohm,1%,1/4W,TP,3216	1	SA
....4	RA5001	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
....4	RA5002	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
....4	RA5003	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
....4	RA5004	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
....4	RA5005	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
....4	RA5006	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
....4	RA5007	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
....4	RA5010	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
....4	RA3004	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA3005	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA3007	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA3008	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA3009	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA3011	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA4003	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
....4	RA4004	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
....4	RA4014_1CH	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
....4	RA4015_1CH	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
....4	RA4016	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
....4	RA4017	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
....4	RA4018	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
....4	RA3001	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA3002	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA3003	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA3006	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA3010	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA3012	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA3013	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA3014	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA3015	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA3016	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA3017	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA3018	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA3019	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	RA3020	2011-001093	R-NET;1000HM,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA4001	2011-001093	R-NET;1000HM,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA4002	2011-001093	R-NET;1000HM,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	C1158	2203-000125	C-CER,CHIP;1.2nF,10%,50V,X7R,TP,1608,-	1	S.A
....4	C1037	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	S.A
....4	C1062	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	S.A
....4	C1004	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1006	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1008	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1016	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1021	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1025	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1027	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1043	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1046	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1052	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1053	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1054	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1055	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1075	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1084	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1086	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1087	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1097	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1098	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1103	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1105	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1108	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1109	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1124_DTV	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1132	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1133	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1141	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1159	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1168	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1197	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1199	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1201	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1203	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2002	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2018	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2040	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2059	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C3001	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C3005	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C3034	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4016	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4017	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4018	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4019	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4020	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4021	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4022	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4025	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4026	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4027	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4028	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4029	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4031	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4032	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4034	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4035	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4036	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4038	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4039	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4040	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4041	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4042	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4043	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4045	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4046	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4048	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4049	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4052	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4053	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4054	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4055	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4059	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4060	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4061	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4062	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4063	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4067	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C4068	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4069	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4070	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4071	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4073	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4076	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4077	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4080	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4081	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4083	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4084	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4085	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4086	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4095	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C4128	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C5038_DTV	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C5092	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C5097_DTV	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C5022_DTV	2203-000221	C-CER,CHIP;100nF,20%,50V,Y5V,TP,3216	1	S.A
....4	C1050_EU	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1134	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1135	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1161	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1162	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1163	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C2004	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C2006	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C2007_EU	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C2012	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C2014	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C2019	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C2020_EU	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C2022	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C2023	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C2024	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C2027	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C2028	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C2044	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C2064	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C3024	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C3025	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C5094_DTV	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C5095_DTV	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1002	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1005	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1013	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1022	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1026	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1034	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1049	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1094	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1198	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2056	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2065	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2066	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2068	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C3035	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C4005	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C4006	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C4007	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C4008	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C4009	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C4098	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C4104	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C4108	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C4111	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C4116	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C4134	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C5006	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C5007	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C5008	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C5009	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C5010	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C5017	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C5036	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2003_EU	2203-000315	C-CER,CHIP;0.12nF,5%,50V,C0G,1608	1	S.A
....4	C2005_EU	2203-000315	C-CER,CHIP;0.12nF,5%,50V,C0G,1608	1	S.A
....4	C2011	2203-000315	C-CER,CHIP;0.12nF,5%,50V,C0G,1608	1	S.A
....4	C2013	2203-000315	C-CER,CHIP;0.12nF,5%,50V,C0G,1608	1	S.A
....4	C1110	2203-000405	C-CER,CHIP;0.18nF,5%,50V,C0G,1608	1	S.A
....4	C1200	2203-000405	C-CER,CHIP;0.18nF,5%,50V,C0G,1608	1	S.A
....4	C1121_DTV	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C3002	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C3003	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C3007	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C3020	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C3021	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C3029	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C4099	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C4105	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C4109	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C4110	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C4119	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C4058	2203-000531	C-CER,CHIP;2.7nF,10%,50V,X7R,1608	1	S.A
....4	C4066	2203-000531	C-CER,CHIP;2.7nF,10%,50V,X7R,1608	1	S.A
....4	C4001	2203-000552	C-CER,CHIP;0.02nF,5%,50V,C0G,1608	1	S.A
....4	C4011	2203-000552	C-CER,CHIP;0.02nF,5%,50V,C0G,1608	1	S.A
....4	C1070	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	S.A
....4	C1082	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	S.A
....4	C3012	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	S.A
....4	C3013	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	S.A
....4	C3030	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	S.A
....4	C3031	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	S.A
....4	C1111	2203-000715	C-CER,CHIP;3.3nF,10%,50V,X7R,1608	1	S.A
....4	C1202	2203-000715	C-CER,CHIP;3.3nF,10%,50V,X7R,1608	1	S.A
....4	C1142	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C1152	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C2009	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C2010	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C2015	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C2016	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C2069	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C2070	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C1100	2203-000798	C-CER,CHIP;33nF,10%,16V,X7R,TP,1608,-	1	S.A
....4	C1101	2203-000798	C-CER,CHIP;33nF,10%,16V,X7R,TP,1608,-	1	S.A
....4	C2029	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	S.A
....4	C2030	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	S.A
....4	C2031	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	S.A
....4	C2061_DTV	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	S.A
....4	C2062_DTV	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	S.A
....4	C2063_DTV	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	S.A
....4	C1119	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C1120	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C4003	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C4004	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C5003	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C5004	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C1063	2203-000972	C-CER,CHIP;47nF,10%,16V,X7R,1608	1	S.A
....4	C4056	2203-000972	C-CER,CHIP;47nF,10%,16V,X7R,1608	1	S.A
....4	C2008	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	S.A
....4	C2052	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	S.A
....4	C2067	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	S.A
....4	C1056	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	S.A
....4	C1164	2203-001607	C-CER,CHIP;0.22nF,5%,50V,NP0,1608	1	S.A
....4	C1114	2203-001652	C-CER,CHIP;470nF,+80-20%,16V,Y5V,1608	1	S.A
....4	C1116	2203-001652	C-CER,CHIP;470nF,+80-20%,16V,Y5V,1608	1	S.A
....4	C1038	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	S.A
....4	C1061	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	S.A
....4	C3039	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	S.A
....4	C3054_DTV	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	S.A
....4	C1117	2203-001724	C-CER,CHIP;4700nF,+80-20%,16V,Y5V,3216	1	S.A
....4	C4030	2203-001724	C-CER,CHIP;4700nF,+80-20%,16V,Y5V,3216	1	S.A
....4	C4047	2203-001724	C-CER,CHIP;4700nF,+80-20%,16V,Y5V,3216	1	S.A
....4	C4051	2203-001724	C-CER,CHIP;4700nF,+80-20%,16V,Y5V,3216	1	S.A
....4	C1003	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1011	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1039	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1066	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1068	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1071	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1072	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1073	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1074	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1078	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1079	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1093	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1104	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1148	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1169	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1181	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1194	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1207	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C2042	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C2045	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C2047	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C2049	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A

6 Electrical Parts List

[illegible]

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C2072	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C4014	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4015	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4024	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4033	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4037	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4044	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4050	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4065	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4074	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4075	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4078	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4079	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4087	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4088	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4089	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4090	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4091	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4092	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4093	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C4094	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.A
....4	C3017	2203-005834	C-CER,CHIP;22000nF,+80-20%,10V,Y5V,3216	1	S.A
....4	C1001	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1012	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1014	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1017	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1018	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1019	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1020	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1023	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1024	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1035	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1041	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1045	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1047	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1048	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1051	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1058	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1060	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1065	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1069	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1076	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1077	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1080	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1081	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1083	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1085	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1088	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	C1090	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	C1092	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1136	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1139	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1185	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1186	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1187	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1188	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1205	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C2001	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C2017	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C2039	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C2043	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C2046	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C2048	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C2050	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C2057	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C3006	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C3008	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C3011	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C3028	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C3041	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C3043	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C3045	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C3048	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C3050	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C3051	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C3059_DTV	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C3060_DTV	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C3061_DTV	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C3065_DTV	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C3066_DTV	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C3067_DTV	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	C4057	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C4064	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C4072	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C4082	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C4129	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C4130	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C5037_DTV	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	C5096_DTV	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6027	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C6028	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C1182	2402-000135	C-AL,SMD;22uF,20%,16V,GP,TP,5.3x5.3x5.4	1	S.A
....4	C5024_DTV	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6.6x5.7mm	1	S.A
....4	C4012	2402-001059	C-AL,SMD;220UF,20%,6.3V,-,TP,6X6.6X6.6	1	S.A
....4	C4013	2402-001059	C-AL,SMD;220UF,20%,6.3V,-,TP,6X6.6X6.6	1	S.A
....4	C1009	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A
....4	C1029	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A
....4	C1204	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A
....4	C1125_DTV	2402-001083	C-AL,SMD;100uF,20%,50V,GP,TP,10x10.3x10mm	1	S.A
....4	C5032	2402-001097	C-AL,SMD;0.1UF,20%,50V,WT,TP,4.3X4.3X5.2	1	S.A
....4	C5033	2402-001097	C-AL,SMD;0.1UF,20%,50V,WT,TP,4.3X4.3X5.2	1	S.A
....4	C1010	2402-001128	C-AL,SMD;100WIF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1015	2402-001128	C-AL,SMD;100WIF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1036	2402-001128	C-AL,SMD;100WIF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1042	2402-001128	C-AL,SMD;100WIF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1059	2402-001128	C-AL,SMD;100WIF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1112	2402-001128	C-AL,SMD;100WIF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1113	2402-001128	C-AL,SMD;100WIF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1115	2402-001128	C-AL,SMD;100WIF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1007	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1028	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1064	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1107	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C2058	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C3036	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C3038	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C3052_DTV	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C3055_DTV	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C4010	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1106	2402-001160	C-AL,SMD;330UF,20%,16V,WT,TP,1008	1	S.A
....4	C3004	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8mm	1	S.A
....4	C1057	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C1167	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C1193	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C4132	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C5005	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C5016	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C1180	2402-001218	C-AL,SMD;22UF,20%,35V,WT,TP,6.6X6.6X5.8MM	1	S.A
....4	C1127	2402-001221	C-AL,SMD;470UF,20%,16V,-,TP,A8.3XB8.3XL1	1	S.A
....4	C1165	2402-001221	C-AL,SMD;470UF,20%,16V,-,TP,A8.3XB8.3XL1	1	S.A
....4	C1123_DTV	2402-001257	C-AL,SMD;470uF,20%,16V,-,TP,8.3*10	1	S.A
....4	C5078	2402-001257	C-AL,SMD;470uF,20%,16V,-,TP,8.3*10	1	S.A
....4	C1102	2402-001263	C-AL,SMD;1000uF,20%,10V,WT,SMD,10x10	1	S.A
....4	C1095	2409-001029	C-ORGANIC;120uF,20%,6.3V,WT,TP,10.3x10.3	1	S.A
....4	C1196	2409-001029	C-ORGANIC;120uF,20%,6.3V,WT,TP,10.3x10.3	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
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	T0052	2703-002915	INDUCTOR-SMD;22uH,20%,8080	1	S.A
....4	X3002	2801-003326	CRYSTAL-SMD;24MHZ,30PPM,28-ABX,20PF,500H	1	S.A
....4	X3001	2801-003923	CRYSTAL-SMD;10MHz,30ppm,28-AAN,20pF,60oh	1	S.A
....4	X1001	2801-003954	CRYSTAL-SMD;27MHz,30ppm,28-AAN,16pF,50oh	1	S.A
....4	X4001	2801-004483	CRYSTAL-SMD;28.322MHz,30ppm,HC-49,20pF,5	1	S.A
....4	F103	2901-001114	FILTER-EMI SMD;25VDC,2.0ADC,-,100nF,3.2x	1	S.A
....4	T0568	3301-000314	BEAD-SMD;120ohm,1.6x0.8x0.8mm,-,-,-	1	S.N.A
....4	T0568	3301-000314	BEAD-SMD;120ohm,1.6x0.8x0.8mm,-,-,-	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001236	BEAD-SMD;60ohm,1608,-,-,-	1	S.N.A
....4	T0568	3301-001236	BEAD-SMD;60ohm,1608,-,-,-	1	S.N.A
....4	T0568	3301-001236	BEAD-SMD;60ohm,1608,-,-,-	1	S.N.A
....4	T0568	3301-001236	BEAD-SMD;60ohm,1608,-,-,-	1	S.N.A
....4	T0568	3301-001236	BEAD-SMD;60ohm,1608,-,-,-	1	S.N.A
....4	T0568	3301-001236	BEAD-SMD;60ohm,1608,-,-,-	1	S.N.A
....4	T0568	3301-001236	BEAD-SMD;60ohm,1608,-,-,-	1	S.N.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,-,-	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,-,-	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,-,-	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,-,-	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,-,-	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,-,-	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,-,-	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,-,-	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,-,-	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,-,-	1	S.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001593	BEAD-SMD;200ohm,2.0x1.2x1.3mm,150mA,TP,,	1	S.N.A
....4	T0568	3301-001593	BEAD-SMD;200ohm,2.0x1.2x1.3mm,150mA,TP,,	1	S.N.A
....4	T0568	3301-001593	BEAD-SMD;200ohm,2.0x1.2x1.3mm,150mA,TP,,	1	S.N.A
....4	T0568	3301-001593	BEAD-SMD;200ohm,2.0x1.2x1.3mm,150mA,TP,,	1	S.N.A
....4	T0568	3301-001593	BEAD-SMD;200ohm,2.0x1.2x1.3mm,150mA,TP,,	1	S.N.A
....4	T0568	3301-001593	BEAD-SMD;200ohm,2.0x1.2x1.3mm,150mA,TP,,	1	S.N.A
....4	CN2001	3701-001311	CONNECTOR-HDMI;21P,2R,FEMALE,SMD-S,AU30U	1	S.A
....4	CN2003	3701-001311	CONNECTOR-HDMI;21P,2R,FEMALE,SMD-S,AU30U	1	S.A
....4	CN330	3711-005291	HEADER-BOARD TO CABLE;BOX,2P,1R,2MM,SMD-	1	S.A
....4	CN330	3711-005292	HEADER-BOARD TO CABLE;BOX,3P,1R,2MM,SMD-	1	S.A
....4	CN330	3711-005497	HEADER-BOARD TO CABLE;BOX,15P,1R,1.25MM,	1	S.A
....4	L1021_DTV	BN27-00007A	COIL CHOKE-SMD;DHB0504-100,RB15/17NS,10u	1	S.A
....4	T0077	BN41-00733C	PCB MAIN;MOSEL,FR-4,4,MMS2.1,1.6T,192*19	1	S.N.A
....4	M0018	BN97-01154A	ASSY MICOM;T-NMSLMPEUD-1000,GND32SEN-R54	1	S.N.A
....5	IC115	1107-001555	IC-FLASH MEMORY;49BV802A,8MBIT,1MX8/512K	1	S.N.A
....4	M0018	BN97-00805V	ASSY MICOM;T-CBGMPEUS-1004,GED40SEN-R54A	1	S.N.A
....5	IC520	0903-001389	IC-MICROCONTROLLER;S3F866B,8Bit,QFP,44P,	1	S.N.A
....3	T0603	BN63-02494A	SHIELD-PCB MAIN;MOSEL 40",SPTE,T0.3,EURO	1	S.N.A
..2	T0422	BN94-01078C	ASSY PCB MISC-DTV MODULE;LE32M73BDX/XEF	1	S.N.A
....3	T0245	0202-001492	SOLDER-WIRE FLUX;HSE-02 LFM48 SR-34 S,-,	0.003	S.N.A
....3	CN902	3703-001124	CONNECTOR-BACK PANEL;32P,2R,MALE,ANGLE,A	1	S.A
....3	CN902	3703-001124	CONNECTOR-BACK PANEL;32P,2R,MALE,ANGLE,A	1	S.A
....3	DJ301	3709-001346	CONNECTOR-CARD SLOT;68P,0.27mm,ANGLE,AU1	1	S.A
....3	JA330	3722-001055	JACK-PHONE;5P/2C,AG,BLK,ANGLE	1	S.A
....3		BN97-01160C	ASSY SMD-DTV MPDULE;LE32M73BDX/XEF	1	S.N.A
....4	SUB05	0202-001477	SOLDER-CREAM;LST309-M,-,D20-45\$,96.5Sn/	0.465	S.N.A
....4	DQ701	0501-000434	TR-SMALL SIGNAL;KTC3875S-GR,NPN,150mW,SO	1	S.A
....4	DQ401	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	DQ402	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	DQ703	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	DQ704	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	IC104	0801-002095	IC-CMOS LOGIC;74LCX245,TRANSCIVER,TSSOP	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	IC104	0801-002172	IC-CMOS LOGIC;74LCX16244,BUFFER/LINE DRI	1	S.A
....4	IC104	0801-002237	IC-CMOS LOGIC;74V(A)HC1G04,INVERTER,SC70	1	S.A
....4	IC104	0801-002394	IC-CMOS LOGIC;74LCX32,OR GATE,SOIC,14P,1	1	S.A
....4	IC104	0801-002407	IC-CMOS LOGIC;74LCX08,AND GATE,SOIC,14P,	1	S.A
....4	IC104	0801-002683	IC-CMOS LOGIC;74HCT245,TRANSCEIVER,TSSOP	1	S.A
....4	IC104	0801-002709	IC-CMOS LOGIC;74HC373,D FLIP-FLOP,TSSOP,	1	S.A
....4	IC104	0801-002709	IC-CMOS LOGIC;74HC373,D FLIP-FLOP,TSSOP,	1	S.A
....4	IC107	1002-001227	IC-D/A CONVERTER;CS4340-KSR,24BIT,SOP,16	1	S.A
....4	DU402	1006-001165	IC-LINE TRANSCEIVER;MAX3243CDBR,SSOP,28P	1	S.A
....4	IC113	1105-001305	IC-DRAM;4S641632,-.64MBIT,1MX16X4BIT,TSO	1	S.A
....4	IC113	1105-001308	IC-DRAM;K4S281632,128Mbit,8Mx16,TSOP,54P	1	S.A
....4	DU701	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	1203-003704	IC-POS.FIXED REG.;G953-18T6U,SOT-223,3P	1	S.A
....4	DU101	1204-002400	IC-DECODER;ST15517SUA,PBGA,416P,27x27mm,	1	S.A
....4	DR155	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	DR156	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	DR140	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	DR154	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	DR158	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	DR159	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	DR811	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	DR812	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	DR907	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	OR112	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	OR113	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	DR1102	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR111	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR116	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR169	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR170	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR174	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR176	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR182	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR183	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR184	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR185	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR186	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR187	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR195	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR196	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR197	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR198	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR199	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR202	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR203	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR204	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR501	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR902	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR905	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR906	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR916	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR917	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR923	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	DR104	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR105	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR1101	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR112	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR113	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR118	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR119	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR120	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR121	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR122	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR123	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR124	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR125	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR126	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR127	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR128	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR129	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR130	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR131	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR137	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR138	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR145	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR146	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR147	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR148	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR149	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR150	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR151	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR152	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	DR160	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR161	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR166	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR171	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR172	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR175	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR180	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR181	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR200	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR201	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR221	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR400	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR401	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR402	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR403	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR404	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR405	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR406	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR407	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR419	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR704	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	DR162	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	S.A
....4	DR163	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	S.A
....4	DR164	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	S.A
....4	DR165	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	S.A
....4	DR502	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR503	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR505	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR702	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR114	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR139	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR141	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR142	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR143	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR144	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR153	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR417	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR418	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR701	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR703	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR705	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR707	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR117	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR177	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR178	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR179	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR188	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR189	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR190	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR191	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR192	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR193	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR194	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR416	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR423	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR424	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR632	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR633	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR901	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR903	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR904	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR918	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR919	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR920	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR921	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR922	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR700	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR706	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR102	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A
....4	DR408	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	DR409	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	DR410	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	DR411	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	DR412	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	DR413	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	DR414	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	DR415	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	DR601	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	DR908	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	DR909	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	DR910	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	DR911	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	DR912	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	DR913	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	DR914	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	DR915	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	DR999	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	DR101	2007-000119	R-CHIP;560ohm,5%,1/10W,TP,1608	1	S.A
....4	DR173	2007-000372	R-CHIP;130ohm,5%,1/10W,TP,1608	1	S.A
....4	DR205	2007-000372	R-CHIP;130ohm,5%,1/10W,TP,1608	1	S.A
....4	DR132	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	DR133	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	DR134	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	DR135	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	DR167	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	DR800	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.A
....4	DR801	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.A
....4	DR802	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.A
....4	DR803	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.A
....4	DR804	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.A
....4	DR805	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.A
....4	DR806	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.A
....4	DR807	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.A
....4	DR420	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	DR421	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	DRA103	2011-001011	R-NET;10Kohm,5%,1/16W,L,CHIP,8P,TP,3.2x1	1	S.A
....4	DRA401	2011-001011	R-NET;10Kohm,5%,1/16W,L,CHIP,8P,TP,3.2x1	1	S.A
....4	DRA108	2011-001410	R-NET;120OHM,5%,1/16W,L,CHIP,8P,TP,3.2X1	1	S.A
....4	DRA109	2011-001410	R-NET;120OHM,5%,1/16W,L,CHIP,8P,TP,3.2X1	1	S.A
....4	DRA110	2011-001410	R-NET;120OHM,5%,1/16W,L,CHIP,8P,TP,3.2X1	1	S.A
....4	DRA111	2011-001410	R-NET;120OHM,5%,1/16W,L,CHIP,8P,TP,3.2X1	1	S.A
....4	DRA112	2011-001410	R-NET;120OHM,5%,1/16W,L,CHIP,8P,TP,3.2X1	1	S.A
....4	DRA113	2011-001410	R-NET;120OHM,5%,1/16W,L,CHIP,8P,TP,3.2X1	1	S.A
....4	DRA114	2011-001410	R-NET;120OHM,5%,1/16W,L,CHIP,8P,TP,3.2X1	1	S.A
....4	DRA115	2011-001410	R-NET;120OHM,5%,1/16W,L,CHIP,8P,TP,3.2X1	1	S.A
....4	DRA116	2011-001410	R-NET;120OHM,5%,1/16W,L,CHIP,8P,TP,3.2X1	1	S.A
....4	DRA117	2011-001410	R-NET;120OHM,5%,1/16W,L,CHIP,8P,TP,3.2X1	1	S.A
....4	DRA118	2011-001410	R-NET;120OHM,5%,1/16W,L,CHIP,8P,TP,3.2X1	1	S.A
....4	DRA119	2011-001410	R-NET;120OHM,5%,1/16W,L,CHIP,8P,TP,3.2X1	1	S.A
....4	DRA120	2011-001410	R-NET;120OHM,5%,1/16W,L,CHIP,8P,TP,3.2X1	1	S.A
....4	DRA121	2011-001410	R-NET;120OHM,5%,1/16W,L,CHIP,8P,TP,3.2X1	1	S.A
....4	DRA122	2011-001410	R-NET;120OHM,5%,1/16W,L,CHIP,8P,TP,3.2X1	1	S.A
....4	DRA123	2011-001410	R-NET;120OHM,5%,1/16W,L,CHIP,8P,TP,3.2X1	1	S.A
....4	DRA124	2011-001410	R-NET;120OHM,5%,1/16W,L,CHIP,8P,TP,3.2X1	1	S.A
....4	DRA125	2011-001410	R-NET;120OHM,5%,1/16W,L,CHIP,8P,TP,3.2X1	1	S.A
....4	DC100	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	DC102	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	DC105	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	DC107	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	DC109	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	DC111	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	DC112	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	DC114	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	DC116	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	DC118	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	DC801	2203-000659	C-CER,CHIP;0.27nF,5%,50V,C0G,1608	1	S.A
....4	DC804	2203-000659	C-CER,CHIP;0.27nF,5%,50V,C0G,1608	1	S.A
....4	DC807	2203-000659	C-CER,CHIP;0.27nF,5%,50V,C0G,1608	1	S.A
....4	DC810	2203-000659	C-CER,CHIP;0.27nF,5%,50V,C0G,1608	1	S.A
....4	DC155	2203-001630	C-CER,CHIP;330nF,+80-20%,16V,Y5V,1608	1	S.A
....4	DC700	2203-001630	C-CER,CHIP;330nF,+80-20%,16V,Y5V,1608	1	S.A
....4	DC701	2203-001630	C-CER,CHIP;330nF,+80-20%,16V,Y5V,1608	1	S.A
....4	DC101	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC103	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC104	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC106	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC108	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC110	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC113	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC115	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC117	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC119	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC120	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC126	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC127	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC128	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC129	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC130	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC131	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC132	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC133	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC134	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC135	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC136	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC137	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC138	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	DC139	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC140	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC141	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC142	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC143	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC144	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC145	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC146	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC147	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC148	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC149	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC150	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC151	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC152	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC153	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC203	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC400	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC401	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC402	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC403	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC404	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC500	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC501	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC502	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC503	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC504	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC505	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC506	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC507	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC508	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC509	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC510	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC511	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC512	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC513	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC514	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC601	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC612	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC614	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC631	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC632	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC633	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC902	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC903	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC905	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC906	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC907	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC909	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC910	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC915	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC916	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC921	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC922	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC9906	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	DC121	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2m	1	S.A
....4	DC122	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2m	1	S.A
....4	DC123	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2m	1	S.A
....4	DC124	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2m	1	S.A
....4	DC125	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2m	1	S.A
....4	DC602	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2m	1	S.A
....4	DC154	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	DC522	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	DC611	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	DC634	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	DC901	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	DC904	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	DC635	2402-001158	C-AL,SMD;1uF,20%,50V,WT,TP,4X5.2MM	1	S.A
....4	DC636	2402-001158	C-AL,SMD;1uF,20%,50V,WT,TP,4X5.2MM	1	S.A
....4	DC637	2402-001159	C-AL,SMD;3.3uF,20%,50V,WT,TP,4X5.2MM	1	S.A
....4	DC638	2402-001159	C-AL,SMD;3.3uF,20%,50V,WT,TP,4X5.2MM	1	S.A
....4	DC202	2402-001216	C-AL,SMD;470uF,20%,16V,WT,TP,10.3x10.3x1	1	S.A
....4	DC613	2402-001216	C-AL,SMD;470uF,20%,16V,WT,TP,10.3x10.3x1	1	S.A
....4	T0052	2703-000125	INDUCTOR-SMD;10uH,10%,2012	1	S.A
....4	T0052	2703-000125	INDUCTOR-SMD;10uH,10%,2012	1	S.A
....4	T0052	2703-000125	INDUCTOR-SMD;10uH,10%,2012	1	S.A
....4	T0052	2703-000125	INDUCTOR-SMD;10uH,10%,2012	1	S.A
....4	DX601	2806-001308	OSCILLATOR-VCXO;27MHZ,-,30PF,TP,3.3V,50M	1	S.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A

6 Electrical Parts List

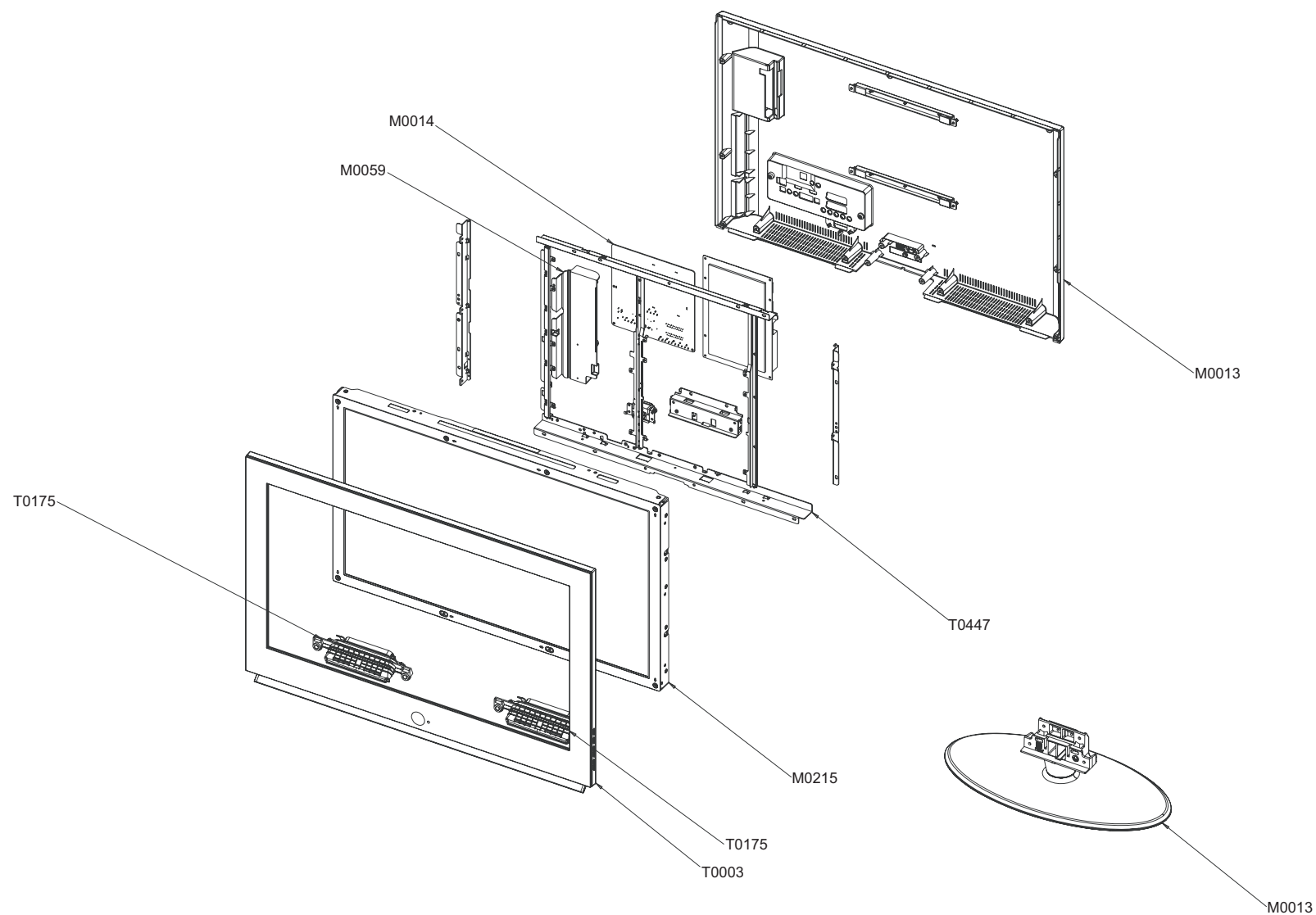
Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	PCB1.0	BN41-00684A	PCB-DIGITAL B/D;BORDEAUX,FR-4,6L,1.0,1.6	1	S.N.A
....4	M0018	BN97-01155B	ASSY MICOM;GED40SEN-R54A/M70M70,29LV320,	1	S.N.A
....5	IC115	1107-001475	IC-FLASH MEMORY;29LV320,32MBIT,4MX8/2MX1	1	S.N.A
0.1	M0112	BN91-01182E	ASSY SHIELD;LE32N73BDX/*	1	S.N.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	7	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	4	S.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	3	S.A
..2	T0076	BN39-00615D	CBF HARNESS;BORDEAUX,1617#22,3P,1P,RING,	1	S.A
..2	M2893	BN39-00674A	LEAD CONNECTOR;LNR469DX/XAA,UL1007#26,5P	1	S.A
..2	M2893	BN39-00725A	LEAD CONNECTOR;Mosel,UL2835#28,UL/CSA,16	1	S.A
..2	M2893	BN39-00744A	LEAD CONNECTOR-LVDS;LE32N71BX,UL1571#30,	1	S.A
..2	M2893	BN39-00745A	LEAD CONNECTOR;LE32M71BX,UL1007#26,UL/CS	1	S.A
..2	M0146	BN61-02196B	BRACKET-PANEL SIDE;Bordeaux 32,SECC,T1.2	1	S.N.A
..2	M0146	BN61-02197B	BRACKET-PANEL SIDE;Bordeaux 32,SECC,T1.2	1	S.N.A
..2		BN61-02441A	BRACKET-STAND LINK;MOSEL 32,SECC,T1.6	1	S.N.A
..2	M0114	BN61-02500A	HOLDER-WIRE;NYLON6.6,NATURAL	2	S.N.A
..2	M0146	BN63-02462A	SHIELD CASE;CAMBRIDGE 32,SECC,T0.8,UK	1	S.N.A
..2	M0059	BN96-03431B	ASSY BOARD P-HOLDER AV;32N71,EO,CT5000-4	1	S.N.A
..3	M0020	BN96-02439B	ASSY BOARD P-SIDE AV;LE40M71BX,CT5000-36	1	S.N.A
..3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	2	S.A
..3		BN61-02440A	HOLDER-SIDE AV;32N71,EO(NEO),HIPS,HB,-,-	1	S.N.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
..2	T0447	BN96-03440C	ASSY BRACKET P-PANEL;CAMBRIDGE32,SECC,BU	1	S.N.A
..3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	2	S.A
..3	M0146	BN61-02194B	BRACKET-PANEL TOP;Bordeaux 32,SECC,T1.2	1	S.N.A
..3		BN61-02195A	BRACKET-PANEL BOTTOM;Bordeaux 32,SECC,T1	1	S.N.A
..3		BN61-02198A	BRACKET-GUIDE MAIN;Bordeaux 32,SECC,T1.2	1	S.N.A
..3		BN61-02199A	BRACKET-GUIDE POWER;Bordeaux 32,SECC,T1	1	S.N.A
..3		BN61-02200A	BRACKET-GUIDE POWER;Bordeaux 32,SECC,T1	1	S.N.A
..3	T0514	BN61-02393A	BRACKET-SUPPORT;CAMBRIDGE 32,SECC,T1.2	1	S.N.A
..3	M0131	AA63-01438A	GASKET;Bordeaux,Conductive Fabric,7mm,8m	1	S.N.A
..3	M0131	AA63-01447A	GASKET;Cambridge,Conductive Fabric,20mm,	1	S.N.A
..3	M0131	BN63-02950A	GASKET;LE32M73BDX,Conductive Fabric,300m	1	S.N.A
..2	T0159	BN96-03775A	ASSY PCB P-SMPS;FreeVoltage SMPS,LA32R71	1	S.A
..2	M2893	BN39-00603L	LEAD CONNECTOR;LE32R73BDX,UL1007#26,14P,	1	S.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	1	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	10	S.N.A
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,YEL,SWRCH18A	2	S.N.A
..2	M0081	6003-001439	SCREW-TAPTITE;BH,+,S,M4,L8,ZPC(YEL)	1	S.N.A
0.1	M0003	BN92-01756L	ASSY BOX;32N73,XEG,FID,XEF	1	S.N.A
..2	T0130	BN69-01494C	BOX-00,SET;32N73,SY-05,A,YEL,A1,IDTV(GER	1.02	S.N.A
0.1	M0113	BN92-01759B	ASSY P/MATERIAL;32N71,EO(NEO),-,-,-,SQUA	1	S.N.A
..2	T0376	6902-000061	BAG AIR;LDPE,T0.2,L1000,W500,TRP,-,-	0.018	S.N.A
..2	T0376	6902-000379	BAG AIR;LDPE,T0.2,W1000,L1800,TRP,-,-	0.006	S.N.A
..2	T0081	6902-000604	BAG WRAPPING;LDPE,T0.02,W500,L10000,TRP,	6.23	S.N.A
..2	T0524	6902-000738	BAG PE;HDPE/HDPE/NITRON(DOUBLE),T0.015/T	1	S.N.A
0.1	M0019	BN92-01981P	ASSY LABEL;LE32N73BDX/XEF	1	S.N.A
0.1	M0045	BN92-02010M	ASSY ACCESSORY;LE32N73BDX/XEF	1	S.N.A
..2	M0045	BN96-04224M	ASSY ACCESSORY;LE32N73BDX/XEF	1	S.A
..3	T0268	3903-000145	CBF-POWER CORD;DT,EU,FP3YES,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	ACCESSORY	AA68-03575C	MANUAL FLYER-01,REGISTRATION C;XEF,FRENC	1	S.N.A
..3	T0074	BN59-00538A	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	BN63-02535A	COVER-BOTTOM;MOSEL 32,HIPS,HB	1	S.N.A
..3	T0238	BN68-00514C	MANUAL FLYER-WARRANTY CARD;comm,Samsung,	1	S.N.A
..3	M0156	BN68-01007U	MANUAL USERS-01;COMM,SAMSUNG,2Langs,Fran	1	S.N.A
..3	ACCESSORY	BN69-01086A	BOX ACCESSORY-00;COMM,SW1,YEL,-,W573,D63	1	S.N.A
..3	M0045	BN96-01800A	ASSY ACCESSORY;ROME32,SCREW	1	S.N.A
..4	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	4	S.A
..4	ACCESSORY	6902-000128	BAG ZIPPER;LDPE,T0.05,W200,L150,TRP,8,2-	1	S.N.A
..3	T0059	BN68-01029B	MANUAL FLYER-CARD;COMM,SAMSUNG,W/W,Europ	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/>

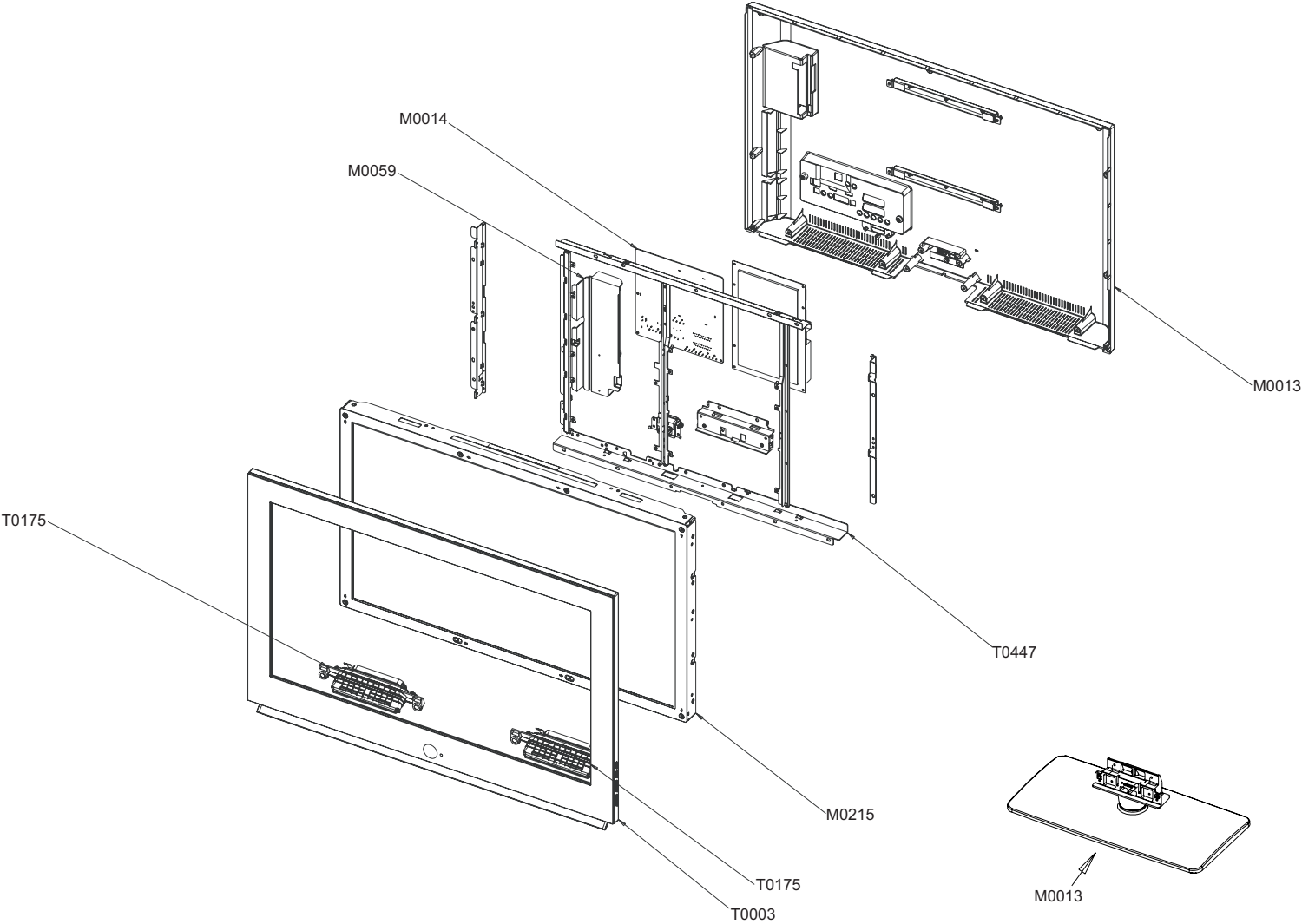
5-1 LE32M73BD Exploded View



5-2 LE32M73BD Parts list

Location	Code.No	Item & Specification	Q'ty	SA/SNA	Remark
T0003	BN96-03413D	ASSY COVER P-FRONT;32N73,EO,ABS+PMMA,HB,	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	BN07-00324A	LCD-PANEL;T315XW02(V3),8bit,760.0*450.0"	1	S.A	
T0447	BN96-03440C	ASSY BRACKET P-PANEL;CAMBRIDGE32,SECC,BU	1	S.N.A	
M0014	BN94-01077E	ASSY PCB MAIN;LE32M73BDX/*	1	S.A	
M0013	BN96-04112B	ASSY COVER P-REAR;32M73,EO,HIPS,HB,BK500	1	S.A	
M0013	BN96-03419A	ASSY STAND P-BASE;32M71,-,ABS+PMMA,HB,BK	1	S.A	

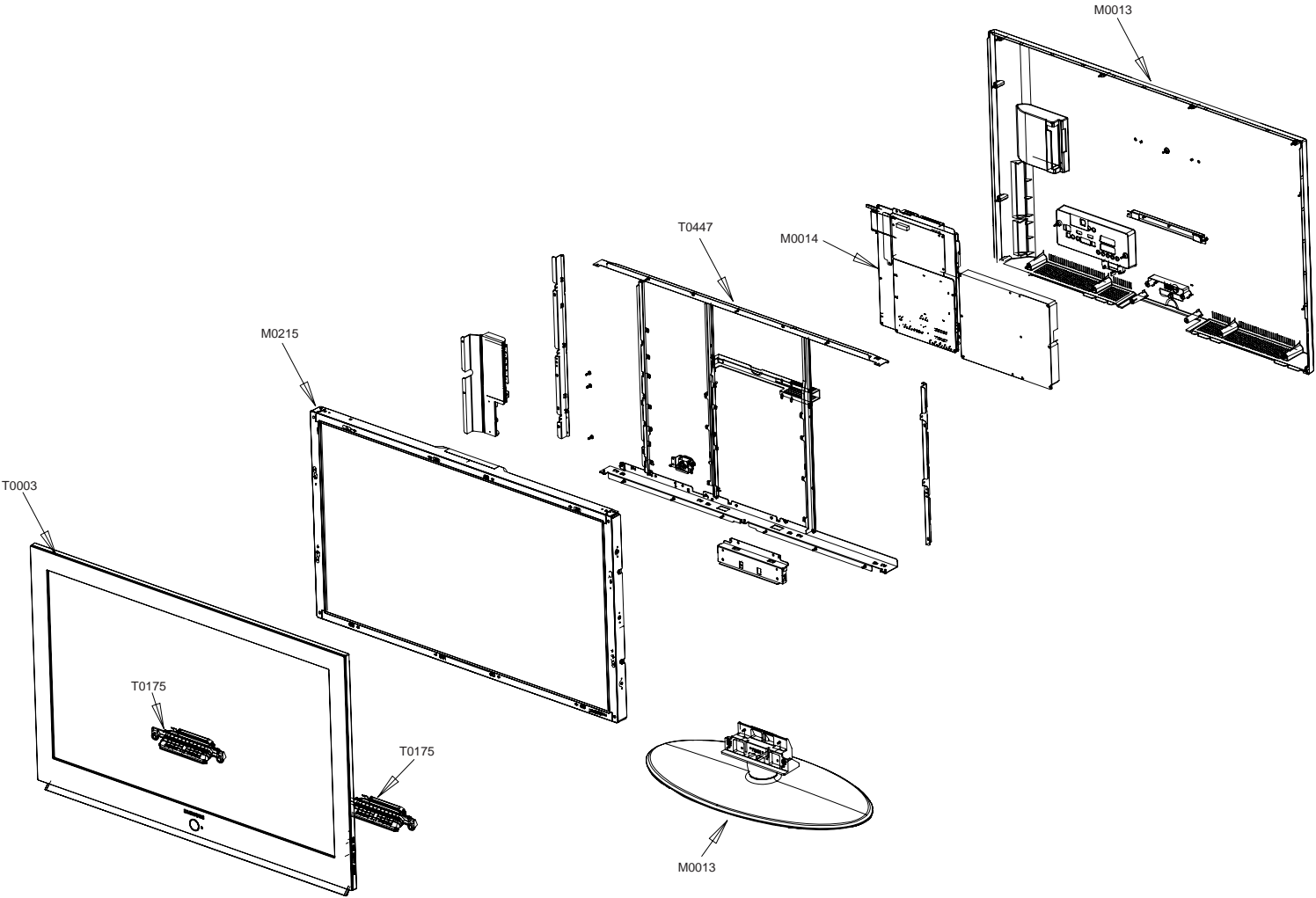
5-3 LE32N73BD Exploded View



5-4 LE32N73BD Parts list

Location	Code.No	Item & Specification	Q'ty	SA/SNA	Remark
T0003	BN96-03413D	ASSY COVER P-FRONT;32N73,EO,ABS+PMMA,HB,	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	
T0447	BN96-03440C	ASSY BRACKET P-PANEL;CAMBRIDGE32,SECC,BU	1	S.N.A	
M0014	BN94-01077B	ASSY PCB MAIN;LE32N7BDX/*	1	S.A	
M0013	BN96-04112B	ASSY COVER P-REAR;32M73,EO,HIPS,HB,BK500	1	S.A	
M0013	BN96-04114A	ASSY STAND P-BASE;32N71,EO(NEO),-,ABS+PM	1	S.A	

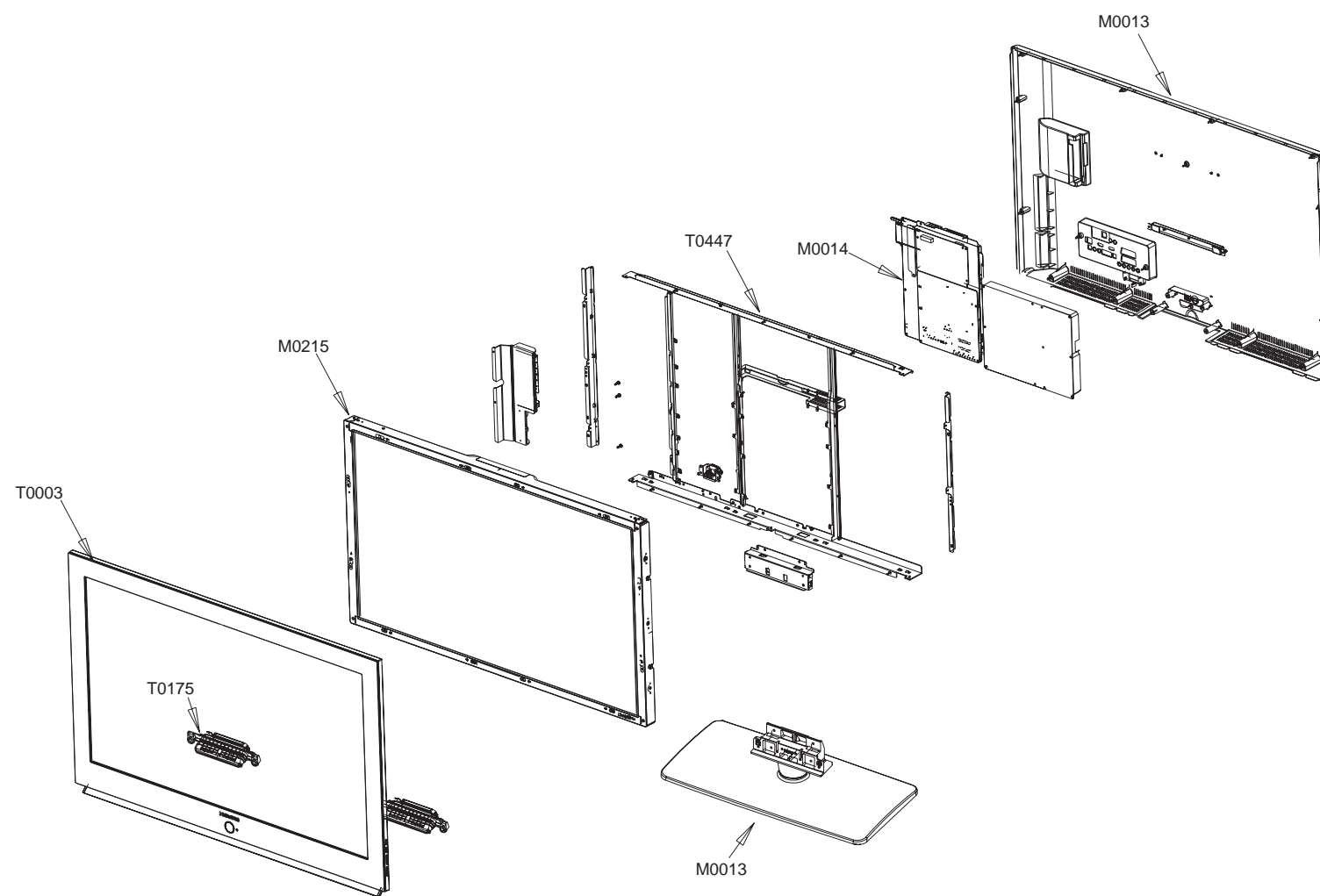
5-5 LE40M73BD Exploded View



5-6 LE40M73BD Parts list

Location	Code.No	Item & Specification	Q'ty	SA/SNA	Remark
T0003	BN96-03412D	ASSY COVER P-FRONT;40N73,EO,ABS+PMMA,HB,	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	BN07-00344A	LCD-PANEL;LTA400WT-LH2,8bit,40inch,16.7M	1	S.A	
T0447	BN96-04202A	ASSY BRACKET P-PANEL;40M71,EO,MOSEL,iDTV	1	S.N.A	
M0014	BN94-01077A	ASSY PCB MAIN;LE32M73BDX/*,LE40M73BDX/*	1	S.A	
M0013	BN96-03415B	ASSY COVER P-REAR;40N73,EO,HIPS,HB,BK500	1	S.A	
M0013	BN96-03418A	ASSY STAND P-BASE;40M70,ABS+PMMA,HB,BK23	1	S.A	

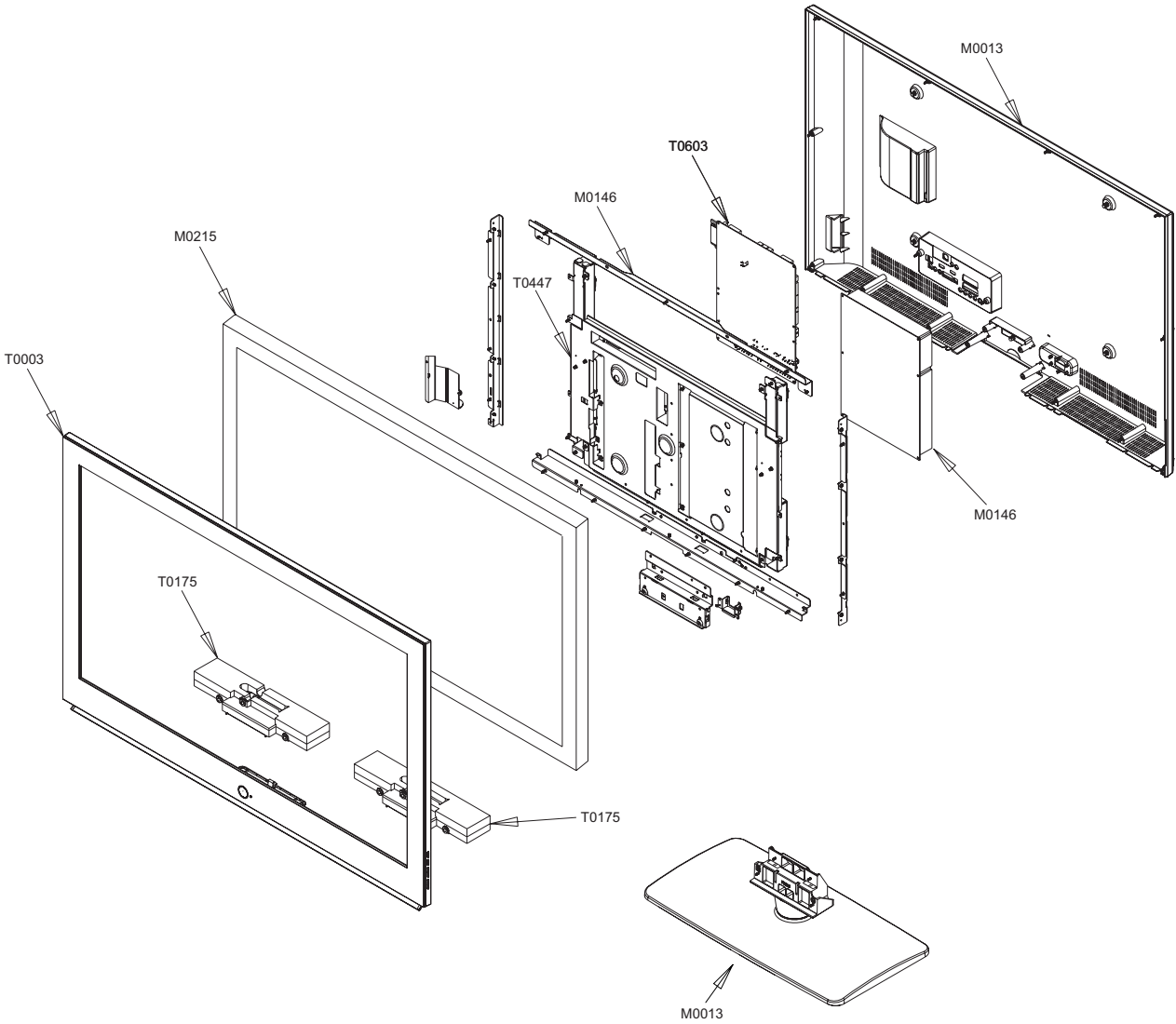
5-7 LE40N73BD Exploded View



5-8 LE40N73BD Parts list

Location	Code.No	Item & Specification	Q'ty	SA/SNA	Remark
T0003	BN96-03412D	ASSY COVER P-FRONT;40N73,EO,ABS+PMMA,HB,	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	BN07-00344A	LCD-PANEL;LTA400WT-LH2,8bit,40inch,16.7M	1	S.A	
T0447	BN96-04202B	ASSY BRACKET P-PANEL;40N71,EO,NEO MOSEL,	1	S.N.A	
M0014	BN94-01077B	ASSY PCB MAIN;LE32N7BDX/*	1	S.A	
M0013	BN96-03415B	ASSY COVER P-REAR;40N73,EO,HIPS,HB,BK500	1	S.A	
M0013	BN96-03989A	ASSY STAND P-BASE;MOSEL-2,40,ABS+PMMA,HB	1	S.A	

5-9 LE46N73BD Exploded View

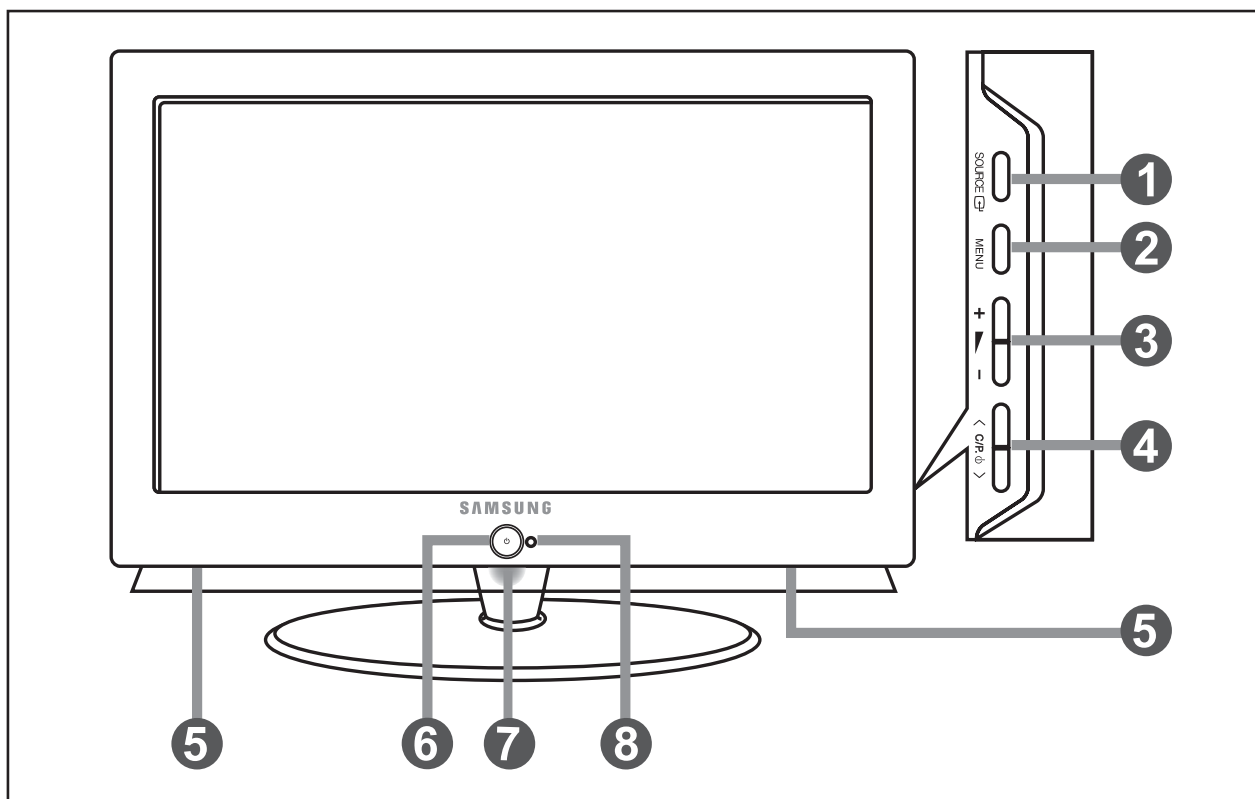


5-10 LE46N73BD Parts list

Location	Code.No	Item & Specification	Q'ty	SA/SNA	Remark
T0003	BN96-03411C	ASSY COVER P-FRONT;46N73,EO,ABS+PMMA,HB,	1	S.A	
T0175	BN96-03591B	ASSY SPEAKER P;8ohm,Mosel 52inch,Left,10	1	S.A	
T0175	BN96-03593B	ASSY SPEAKER P;8ohm,Mosel 52inch,Right,1	1	S.A	
M0215	BN07-00345A	LCD-PANEL;LTA460WT-LH2,8bit,46inch,16.7M	1	S.A	
T0447	BN96-04118A	ASSY BRACKET P-PANEL;46M71,NEOMOSEL,SECC	1	S.N.A	
M0014	BN94-01077C	ASSY PCB MAIN;LE46N7BDX/*	1	S.A	
M0013	BN96-04116B	ASSY COVER P-REAR;46N73,EO,HIPS,HB,BK500	1	S.A	
M0013	BN96-04057A	ASSY STAND P-BASE;46M7,ABS+PMMA,HB,BK23,	1	S.A	

10 Operating Instructions and Installation


10-1 LE32M73BD/LE40M73BD 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.

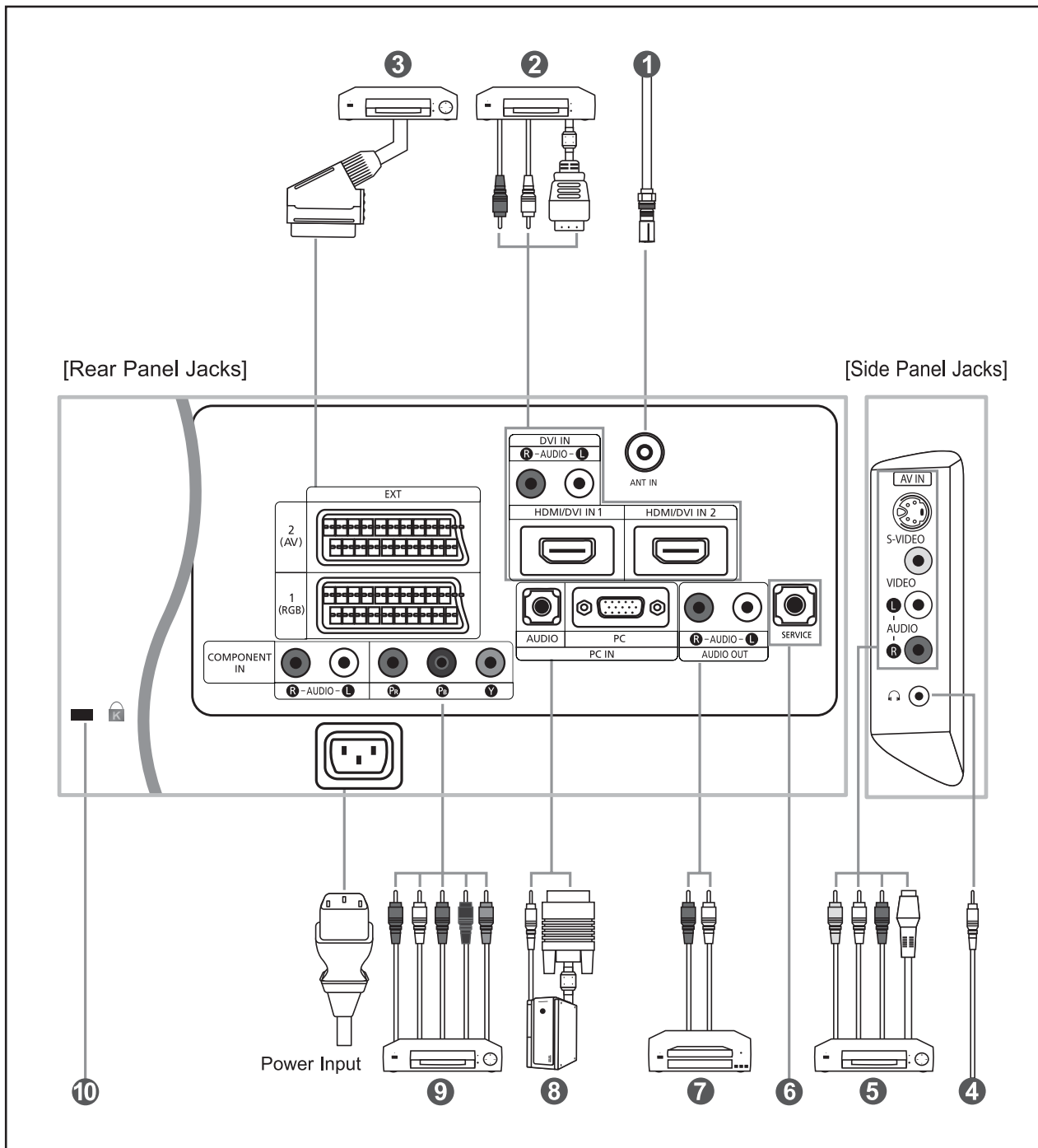
7. POWER INDICATOR

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

8. Remote Control Sensor

Aim the remote control towards this spot on the TV.

10-2 LE32M73BD/LE40M73BD 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	080i
50Hz	X	O	X	O	O	O
60Hz	X	O	X	X	O	O
Component	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.

- If you wish to connect both the Set-Top Box and VCR (or DVD), you should connect the Set-Top Box to the VCR (or DVD) and connect the VCR (or DVD) to your set.

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.

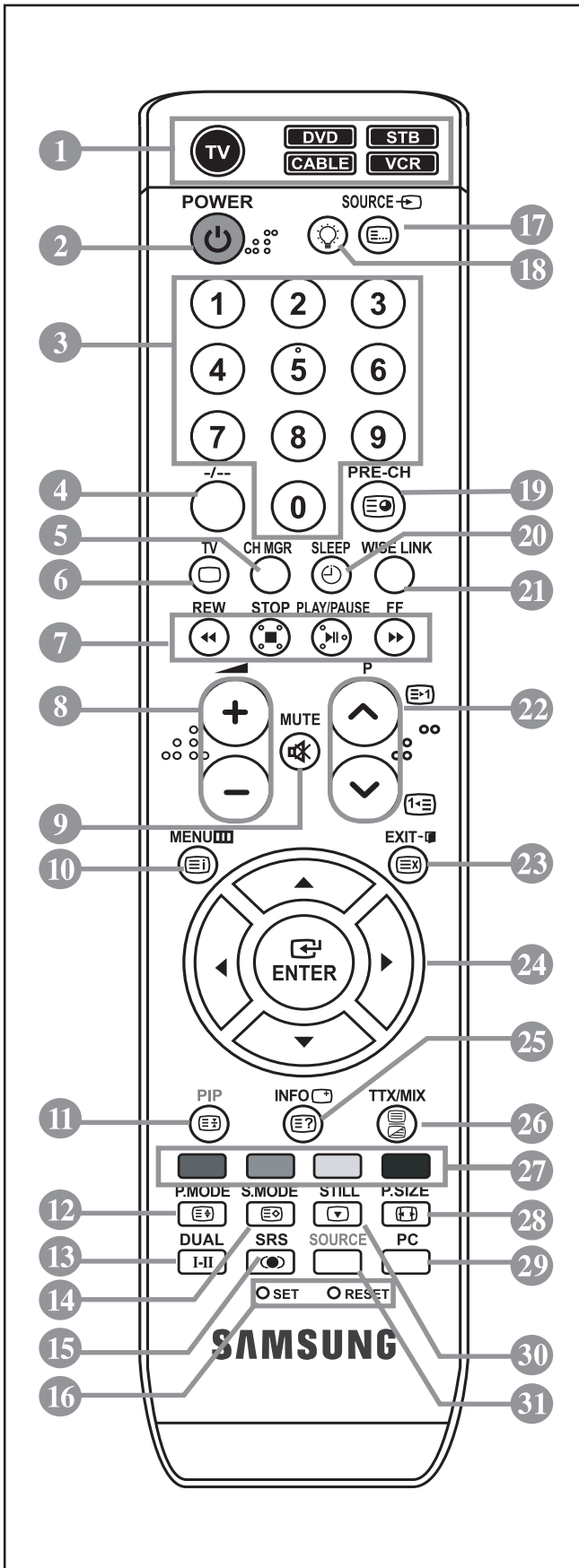
10. Kensington Lock

- 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.

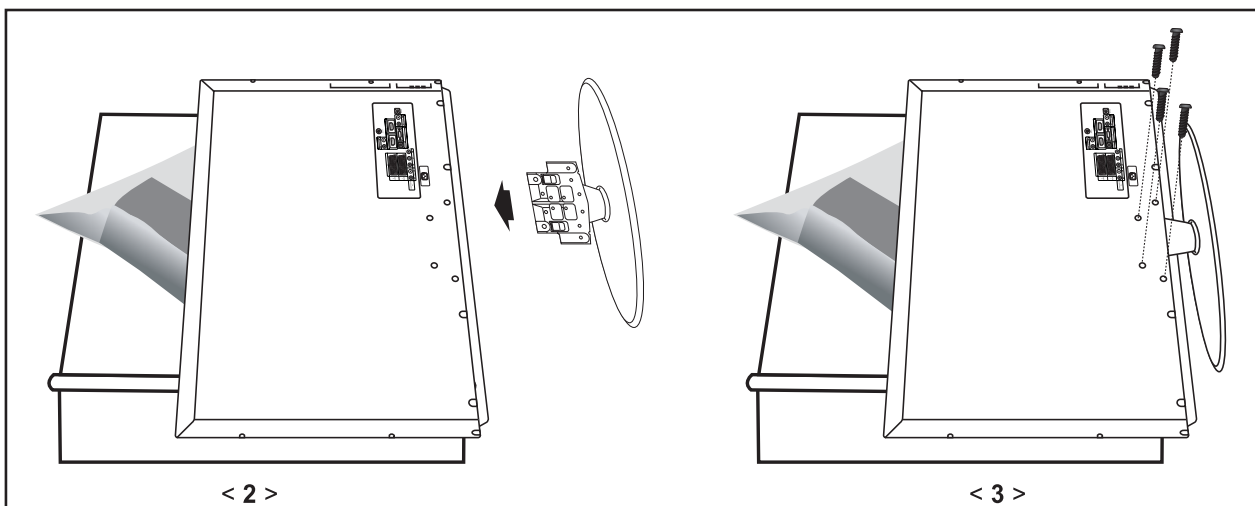
10-3 Remote Control



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
 26. Alternately select Teletext, Double, or Mix.
 27. Fastext topic selection
 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

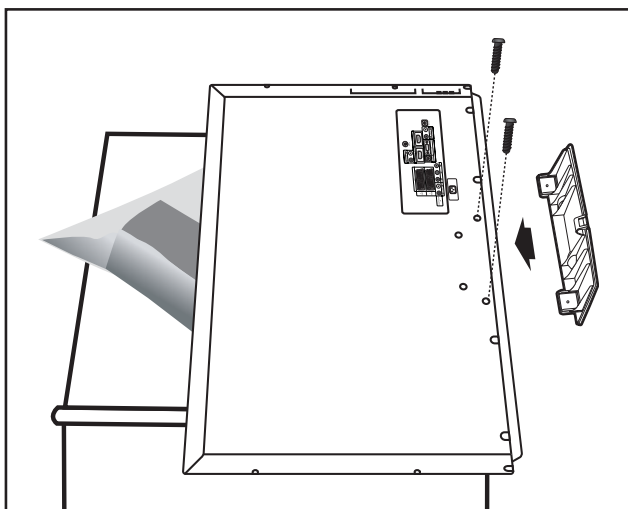
- ▶ The performance of the remote control may be affected by bright light.
- ▶ This is a special remote contro for the visually impaired, and has Braille points on the Power, Channel and Volume buttons.

10-4 LE32M73BD/LE40M73BD 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 LE32M73BD/LE40M73BD Installing the Wall Mount Kit



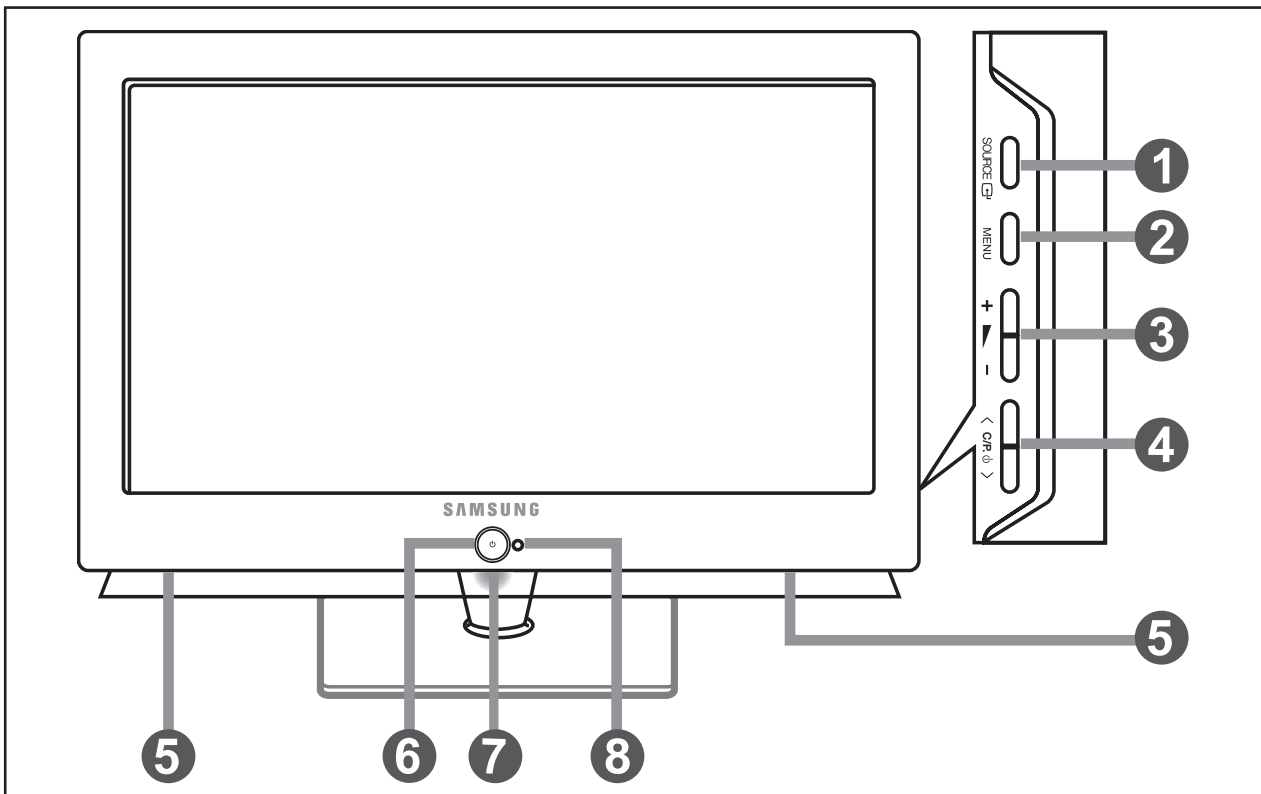
Wall mount items (sold separately) allow you to mount the TV on the wall.

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.


10-6 LE32N73BD/LE40N73BD/LE46N73BD 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.

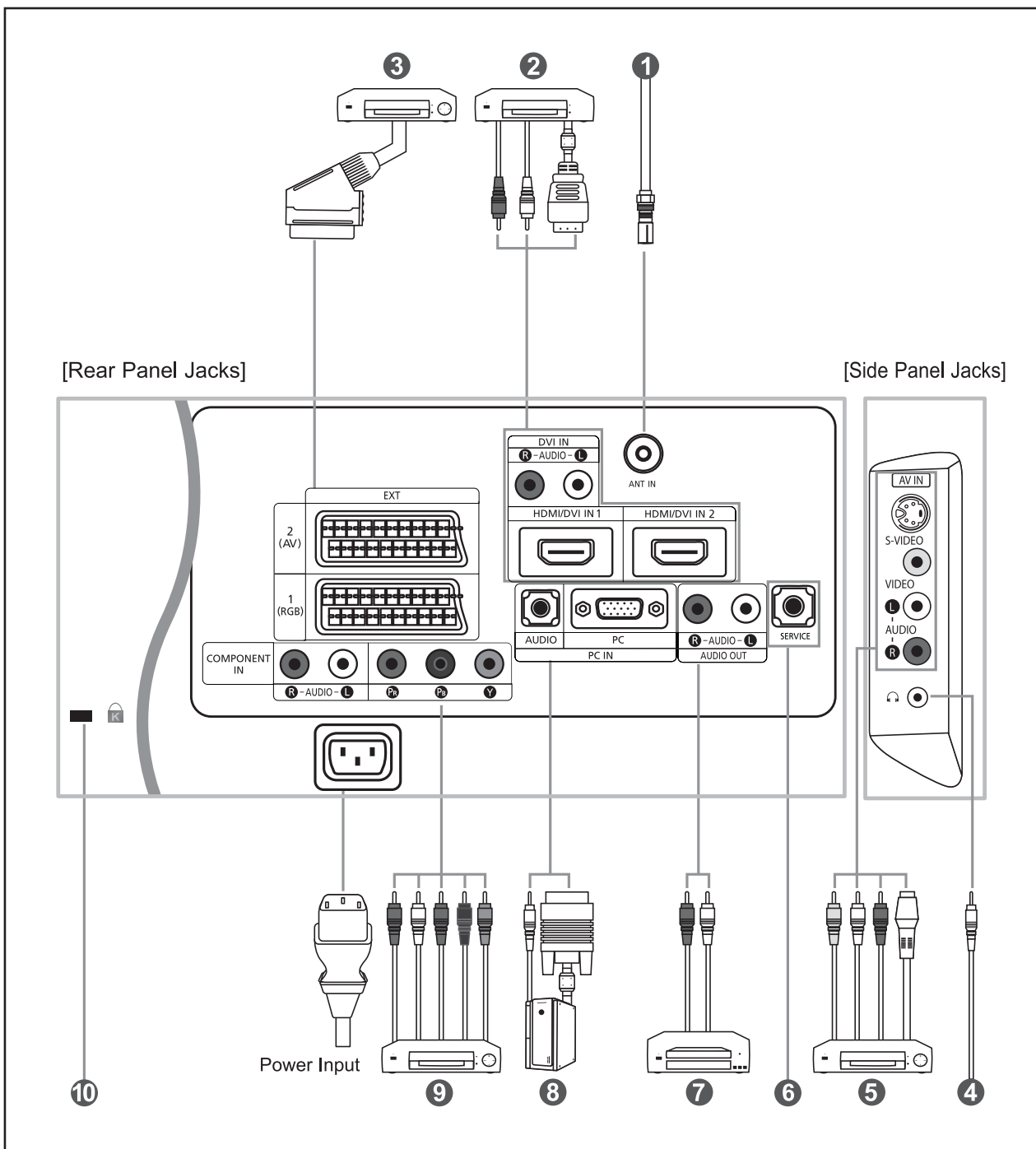
7. POWER INDICATOR

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

8. Remote Control Sensor

Aim the remote control towards this spot on the TV.

10-7 LE32N73BD/LE40N73BD/LE46N73BD 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.

10 Operating Instructions and Installation

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

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- 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).

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► 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	080i
50Hz	X	O	X	O	O	O
60Hz	X	O	X	X	O	O
Component	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.

- If you wish to connect both the Set-Top Box and VCR (or DVD), you should connect the Set-Top Box to the VCR (or DVD) and connect the VCR (or DVD) to your set.

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.

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- 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.

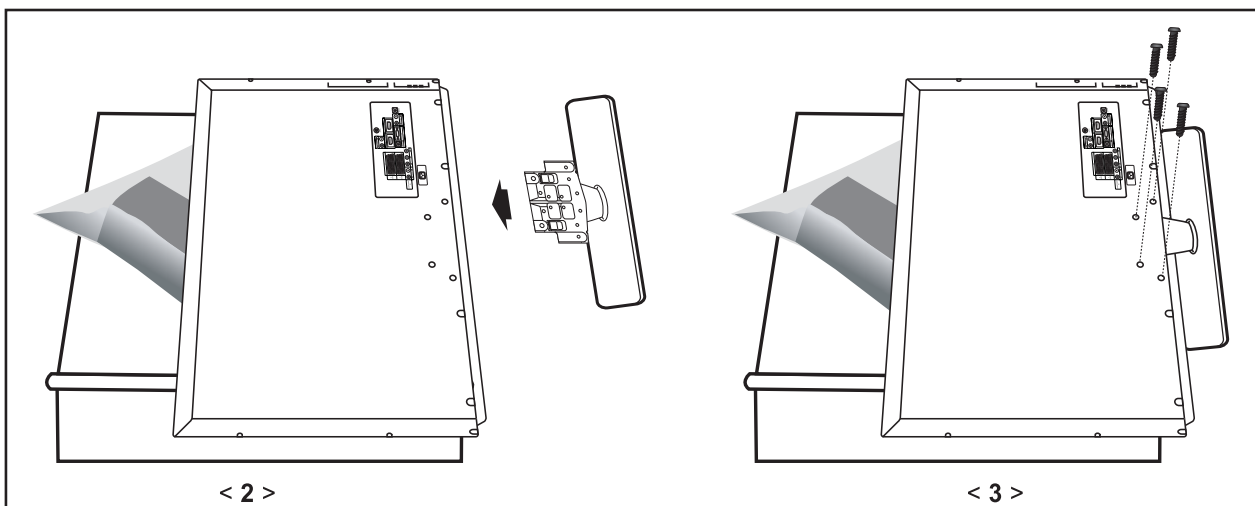
10. Kensington Lock

- 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.

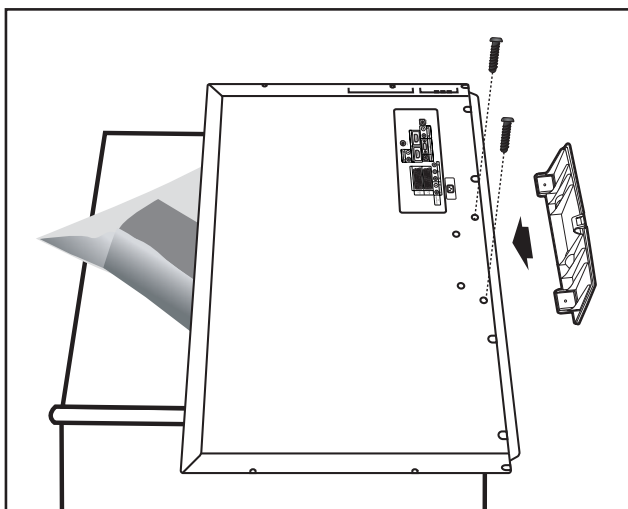
- The place of the Kensington Lock may be different depending on its model.

10-8 LE32N73BD/LE40N73BD/LE46N73BD 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.

10-9 LE32N73BD/LE40N73BD/LE46N73BD 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.

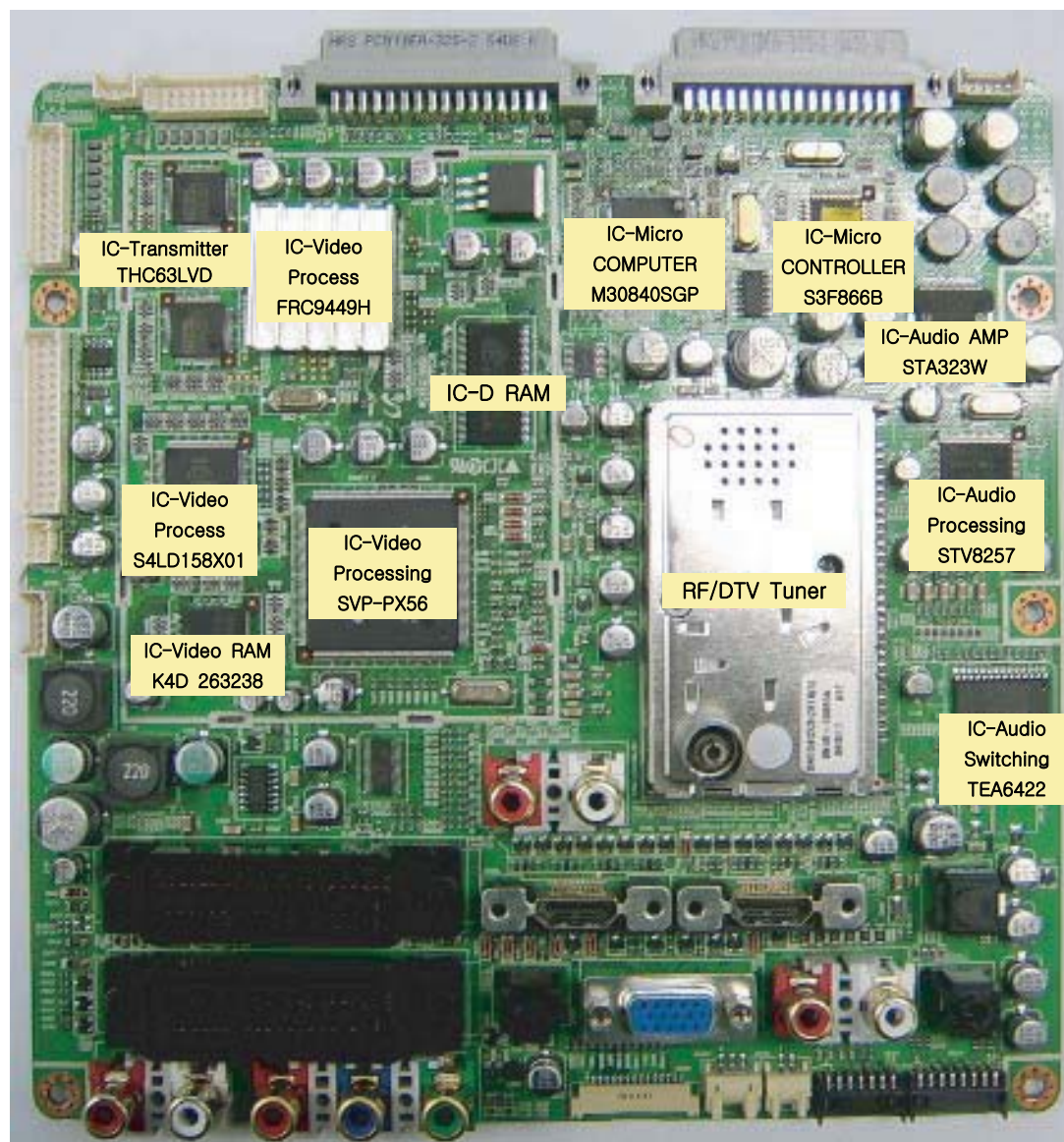
Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV on your own.

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

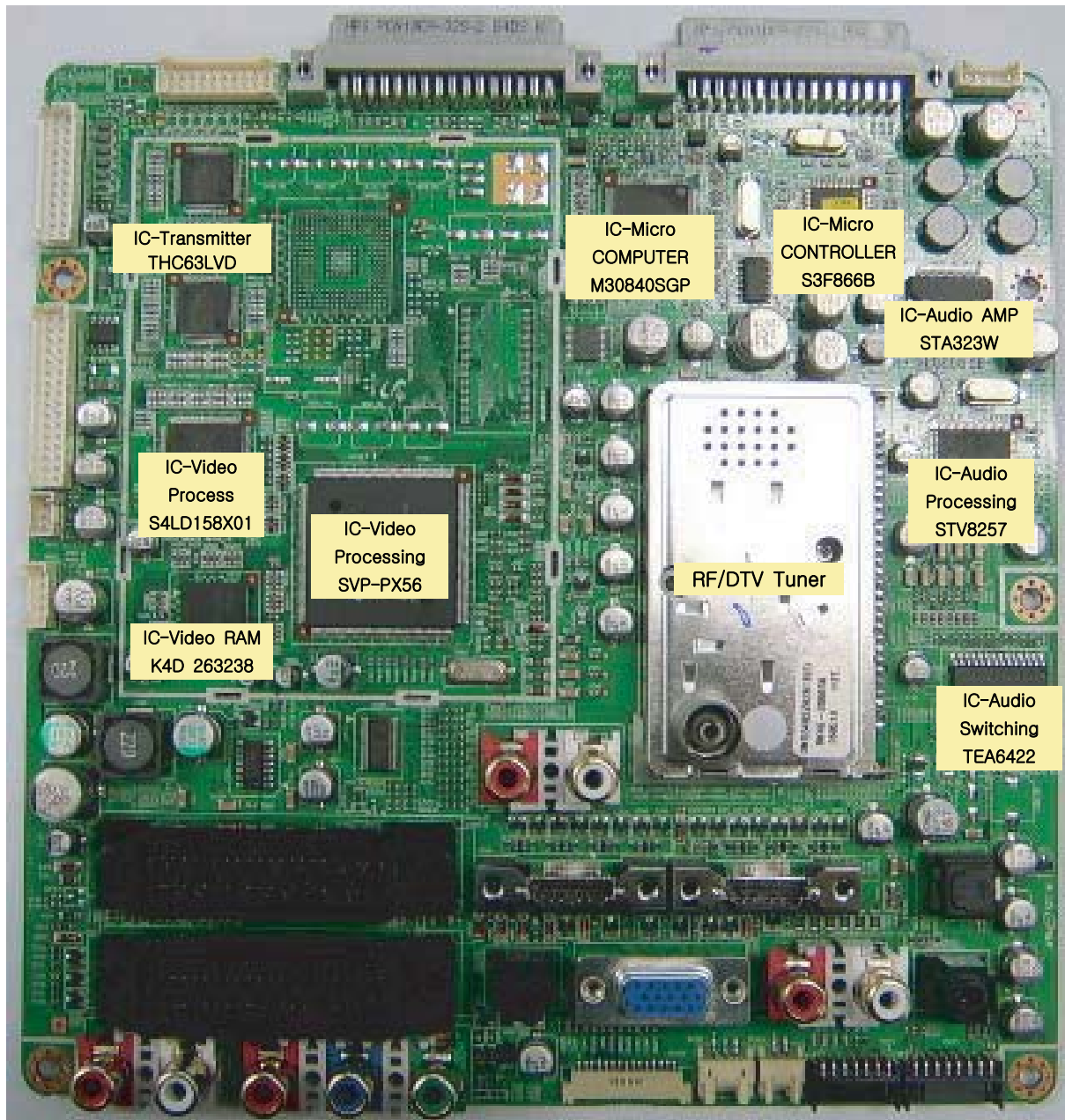
Memo

12 PCB Diagram

12-1 MOSEL Main PCB Diagram



12-2 Neo MOSEL Main PCB Diagram



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).

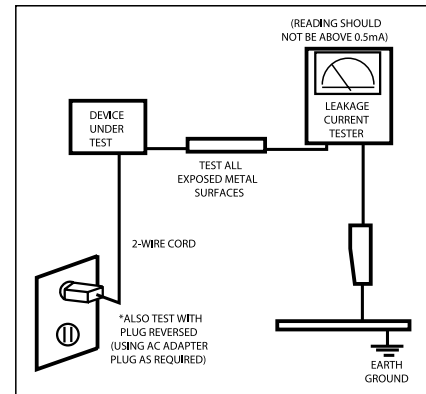


Figure 1-1. Leakage Current Test Circuit

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 ⚠ 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 Precautions

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

Supreme Digital Interface & Networking

- With a built-in HD digital tuner, it supports HD broadcasting with no particular set-top box and provides simple access with a single remote control.

Excellent Picture Quality

- DNIe technology provides life-like clear images.

SRS TruSurround XT

- SRS TruSurround XT provides a virtual Dolby surround system.

Convenience

- The TV utilizes the HDMI system to implement perfect digital sound and picture quality.
- Supports DVB-CI (Common Interface)
- Supports Modem (Only for Italy)
- Supports SMART CARD (NON CAS / Only for Italy)

Inch	32"			40"			46"		
PJT	Chassis	Panel	Stand	Chassis	Panel	Stand	Chassis	Panel	Stand
MOSEL LE32M73BD LE40M73BD	MOSEL (100Hz) MMS,USB	AUO 1366X768 100%	●	MOSEL (100Hz) MMS,USB	AMLCD 1366X768 92%	●			●
Neo MOSEL LE32N73BD LE40N73BD LE46N73BD	MOSEL (50Hz) MMS,USB	AUO 1366X768 100%	■	MOSEL (50Hz) MMS,USB	AMLCD 1366X768 100%	■	MOSEL (50Hz) MMS,USB	AMLCD 1366X768 100%	■

Wise link

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

LCD 100Hz

- You can experience more natural picture and clearer texts without motion blur even in fast moving scenes.

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)

2-2 Technical and Environmental Specifications

Model Name	LE32M73BD/LE32N73BD	LE40M73BD/LE40N73BD	LE46N73BD
Screen Size (Diagonal)	32 inch	40 inch	46 inch
PC Resolution	1360 x 768 @ 60 Hz	1360 x 768 @ 60 Hz	1360 x 768 @ 60 Hz
Input Signal			
Sync.	H/V Separate, TTL, P. or N.	H/V Separate, TTL, P. or N.	H/V Separate, TTL, P. or N.
Video Signal	0.7 Vp-p @ 75 ohm	0.7 Vp-p @ 75 ohm	0.7 Vp-p @ 75 ohm
TV			
Colour System	PAL, SECAM-B/G, D/K, I, II, L/L _i ⁻ , NTPB (AV3.58, 4.43)	PAL, SECAM-B/G, D/K, I, II, L/L _i ⁻ , NTPB (AV3.58, 4.43)	PAL, SECAM-B/G, D/K, I, II, L/L _i ⁻ , NTPB (AV3.58, 4.43)
Sound System	BG, DK, I, L	BG, DK, I, L	BG, DK, I, L
DTV Video/Audio Decoding			
Video Decoding	MPEG2 DVB Compliant (Main Profile @ Main Level)	MPEG2 DVB Compliant (Main Profile @ Main Level)	MPEG2 DVB Compliant (Main Profile @ Main Level)
Bit rate	UP to 15 Mb/s	UP to 15 Mb/s	UP to 15 Mb/s
Resolution	720 x 576 pixels	720 x 576 pixels	720 x 576 pixels
Audio Decoding	MPEG-2 Layer I & II	MPEG-2 Layer I & II	MPEG-2 Layer I & II
Sound Mode	Mono/Stereo	Mono/Stereo	Mono/Stereo
Video			
Colour System	PAL/NTSC/SECAM	PAL/NTSC/SECAM	PAL/NTSC/SECAM
Video System	CVBS, S-VHS, RGB	CVBS, S-VHS, RGB	CVBS, S-VHS, RGB
SCART 1			
Video Input/Output	1.0 Vp-p @ 75 ohm	1.0 Vp-p @ 75 ohm	1.0 Vp-p @ 75 ohm
RGB Input	0.7 Vp-p @ 75 ohm	0.7 Vp-p @ 75 ohm	0.7 Vp-p @ 75 ohm
Audio Input/Output	500 mVrms	500 mVrms	500 mVrms
SCART 2			
Video Input/Output	1.0 Vp-p @ 75 ohm	1.0 Vp-p @ 75 ohm	1.0 Vp-p @ 75 ohm
Audio Input/Output	500 mVrms	500 mVrms	500 mVrms
Power Supply	AC220-240V 50 Hz	AC220-240V 50 Hz	AC220-240V 50 Hz
Power Consumption	155 W	210 W	275 W
Stand-by	< 1 W	< 1 W	< 1 W
Dimension (W x D x H)			
Body	802.8 X 88.2 X 539.2 mm (31.6 X 3.47 X 21.22 inches)	994.0 X 92.0 X 647.0 mm (39.13 X 3.62 X 25.47 inches)	1129.0 X 106.0 X 732.0 mm (44.45 X 4.17 X 28.81 inches)
With stand	802.8 X 252 X 578.0 mm (31.6 X 9.92 X 22.75 inches)	994.0 X 326.0 X 696.0 mm (39.13 X 12.83 X 27.40 inches)	1129.0 X 326.0 X 788.0 mm (44.45 X 12.83 X 31.02 inches)
Weight (With stand)	15.5 kg (34.17 lbs)	31.6 kg (69.67 lbs)	43.8 kg (96.56 lbs)
Environmental Considerations			
Operating Temperature	10 °C to 40 °C (50 °F to 104 °F)	10 °C to 40 °C (50 °F to 104 °F)	10 °C to 40 °C (50 °F to 104 °F)
Operating Humidity	10 % to 80 %, non-condensing	10 % to 80 %, non-condensing	10 % to 80 %, non-condensing
Storage Temperature	-20 °C to 45 °C (-4 °F to 113 °F)	-20 °C to 45 °C (-4 °F to 113 °F)	-20 °C to 45 °C (-4 °F to 113 °F)
Storage Humidity	5 % to 95 %, non-condensing	5 % to 95 %, non-condensing	5 % to 95 %, non-condensing
Audio Characteristics			
Audio Input	RCA Jack(L, R), 0.5 Vrms(-9 dB)	RCA Jack(L, R), 0.5 Vrms(-9 dB)	RCA Jack(L, R), 0.5 Vrms(-9 dB)
Audio Input (PC)	3.5 ⁻³ Stereo Jack, 0.5 Vrms (-9 dB)	3.5 ⁻³ Stereo Jack, 0.5 Vrms (-9 dB)	3.5 ⁻³ Stereo Jack, 0.5 Vrms (-9 dB)
Headphone Output	Max. 1.0 mW Output (3.5 ⁻³ Stereo Jack, 32 Ω)	Max. 1.0 mW Output (3.5 ⁻³ Stereo Jack, 32 Ω)	Max. 1.0 mW Output (3.5 ⁻³ Stereo Jack, 32 Ω)
Frequency	RF: 80 Hz ~ 15 kHz (at -3 dB)	RF: 80 Hz ~ 15 kHz (at -3 dB)	RF: 80 Hz ~ 15 kHz (at -3 dB)
Response	AV: 80 Hz ~ 20 kHz (at -3 dB)	AV: 80 Hz ~ 20 kHz (at -3 dB)	AV: 80 Hz ~ 20 kHz (at -3 dB)
Sound			
Output	10 W X 2	10 W X 2	10 W X 2
3D Surround	SRS TrusurroundXT	SRS TrusurroundXT	SRS TrusurroundXT
Stereo	Nicam/A2	Nicam/A2	Nicam/A2

2-3 LE32M73BD/LE32N73BD Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally white, 32-Inch viewable, 0.511 (H) x 0.511 (V) mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 61 kHz (Automatic) / Vertical : 60 Hz ~ 75 Hz (Automatic)	
Display Colors	16,777,216 colours	
Maximum Resolution	Horizontal : 1360 Pixels Vertical : 768 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	80 MHz	
Active Display Horizontal/Vertical	556.4 mm / 339.8 mm	
AC power voltage & Frequency	AC 220 ~ 240V, 50 ~ 60 Hz	
Power Consumption	155 W < 1W	
Dimensions(W x D x H) Set	802.8 x 252 x 578.0 mm(31.6 x 9.92 x 22.75 inches)After installation Stand 802.8 x 88.2 x 539.2 mm(31.6 x 3.47 x 21.22 inches)Without stand	
Weight Set(After installation Stand)	15.5 kg (34.17 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	-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 LE40M73BD/LE40N73BD Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally white, 40-Inch viewable, 0.648(H) x 0.216(V) mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 61 kHz (Automatic) / Vertical : 100 Hz ~ 120 Hz (Automatic)	
Display Colors	16,777,216 colours	
Maximum Resolution	Horizontal : 1366 Pixels Vertical : 768 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	80 MHz	
Active Display Horizontal/Vertical	556.4 mm / 339.8 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 326.0 x 696.0 mm(39.13 x 12.83 x 27.40 inches) After installation Stand 994.0 x 92.0 x 647.0 mm (39.13 x 3.62 x 25.47 inches) Without stand	
Weight Set(After installation Stand)	31.6 kg (69.67 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	-MAX Internal speaker Out : Right : 5W / Left : 5W -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	

2-5 LE46N73BD Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally white, 46-Inch viewable, 0.648(H) x 0.216(V) mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 61 kHz (Automatic) / Vertical : 100 Hz ~ 120 Hz (Automatic)	
Display Colors	16,777,216 colours	
Maximum Resolution	Horizontal : 1366 Pixels Vertical : 768 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	80 MHz	
Active Display Horizontal/Vertical	556.4 mm / 339.8 mm	
AC power voltage & Frequency	AC 220 ~ 240V, 50 ~ 60 Hz	
Power Consumption	275 W < 1W	
Dimensions(W x D x H) Set	1129.0 x 326.0 x 788.0 mm(44.45 x 12.83 x 31.02 inches) After installation Stand 1129.0 x 106.0 x 732.0 mm(44.45 x 4.17 x 28.81 inches) Without stand	
Weight Set(After installation Stand)	43.8 kg (96.56 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	-MAX Internal speaker Out : Right : 5W / Left : 5W -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	

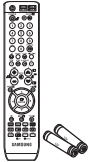




2-6 DTV Specification

Category	Functions	UK	GERMANY	France	Italy	Spain	Sweden	Finland
SYSTEM	Broadcasting system	DVB-T	DVB-T	DVB-T	DVB-T	DVB-T	DVB-T	DVB-T
	Video format	MPEG-2 (MP@ML)	MPEG-2 (MP@ML)	MPEG-2 (MP@ML)	MPEG-2 (MP@ML)	MPEG-2 (MP@ML)	MPEG-2 (MP@ML)	MPEG-2 (MP@ML)
	Audio format	MPEG-1 audio layer I, II	MPEG-1 audio layer I, II	MPEG-1 audio layer I, II	MPEG-1 audio layer I, II	MPEG-1 audio layer I, II	MPEG-1 audio layer I, II	MPEG-1 audio layer I, II
	Operational Bands	UHF	VHF/UHF	VHF/UHF	VHF/UHF	UHF	UHF	UHF
Channel Parameters	Channel Range	21 ~ 68	5 ~ 12, 21 ~ 69	5 ~ 10, 21 ~ 69	3~13(A~H2), 21~69	21~69	21 ~ 69	21 ~ 69
	Channel Bandwidth	8MHz	VHF-7, UHF-8	VHF-8, UHF-8	VHF-7, UHF-8	UHF-8	8MHz	8MHz
	IFFT	2K/8K	2K/8K	2K/8K	2K/8K	8K	2K/8K	2K/8K
	Constellation	64/16QAM, QPSK	64/16QAM, QPSK	64/16QAM, QPSK	64/16QAM, QPSK		64/16QAM, QPSK	64/16QAM, QPSK
EPG	Code Rate	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8		1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
	Guard Interval	1/4, 1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32		1/4, 1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32
	Now / Next	O	O	O	O	O	O	O
	Scheduled EPG							
SI	LCN	O	X	O	X	X	O	O
	Dynamic SI	X	X	X	X	X	O	O
	Replacement Service	X	X	X	X	X	O	O
	CI							
CA	Embedded CAS	O(TopUpTV)	O	O	O	planned	O	O
	Parental Lock	X	X	X	X	planned	X	X
		O	O	O	△		O	O
		O	X	X	X	X	X	X
System software upgrade		X	Enhanced profile	Simple profile	Simple profile	Simple profile	Simple profile	Simple profile
Data Service	MHEG	X	X	X	X	X	X	X
	MHP	O(Ver. 1.06)	X	X	O(Ver. 1.0.2)	O (MHP 1.0.2)	X	X
	Time zone setting	X	X	X	△	O	X	X
	DVB subtitle	O	X	O	X	O	O	O
Add-on services	Teletext	X	O	O	O	O (TELETEXT 1.5 LEVEL)	O	O
	AC3	X	X	X	X	Optional	X	X
	VPS	X	X	X	X	X	X	X
	AFD	O	X	X	X	Optional	X	X
Etc	Channel list	O	O	O	O	O	O	O
	Auto store	O	O	O	O	O	O	O
	Manual store	O	O	O	O	O	O	O
	Language selection	O	O	O	O	O	O	O
Connectors	SPDIF OUT	O	O	O	O	O	O	O
	PCM/GIA (Type II)	O	O	O	O	O	O	O
	RS-232 (Phone Jack)	O	O	O	O	O	O	O
	Modem	X	X	X	O	O	X	X
	Smart Card	X	X	X	O	O	X	X

2-7 Spec Comparison

Model	LE32M73BD / LE40M73BD	LE32N73BD / LE40N73BD / LE46N73BD
Design		
Frequency		
Horizontal	30 ~ 61 kHz	30 ~ 61 kHz
Vertical	100 ~ 120 Hz	60 ~ 75 Hz
Display Color	16,777,216 colors	16,777,216 colors
PC Resolution		
Maximum mode	WXGA, 1360 x 768 @ 60 Hz	WXGA, 1360 x 768 @ 60 Hz
Input Signal		
Sync Signal	H/V Separate, TTL, P. or N.	H/V Separate, TTL, P. or N.
Video Signal	0.7 Vp-p @ 75ohm	0.7 Vp-p @ 75ohm
Power Consumption		
Normal	155W / 210W	155W / 210W / 275W
Power Saving	< 0.7W	< 1W

2-8 Option Specification

Item	Item Name	Code.No	Remark
	Remote Control & Batteries (AAA x 2)	BN59-00538A BN59-00582A (Only for Italy/Spain)	
	Power Cord	3903-000193 (Only for U.K) 3903-000145	
	Cover-Bottom	BN63-02491A	
	Stand	MOSEL 32" : BN90-00942A 40" : BN90-00941A Neo MOSEL 32" : BN90-00942B 40" : BN90-01023A 46" : BN90-01033A	
	Cleaning Cloth	BN63-01798A	

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 clock 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

<div>Sync Type</div> <div>Pin No.</div>	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-	

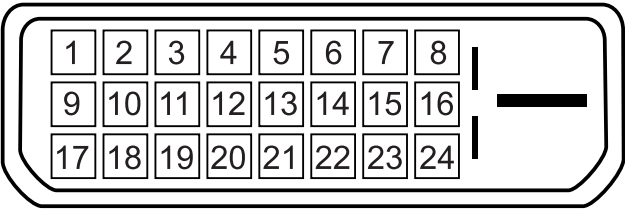


Figure 1.

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

14-2-3 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)

14-2-6 PC Display mode

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

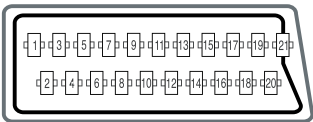
The resolutions in the table are recommended. (All resolutions between the supported limits are supported)

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.

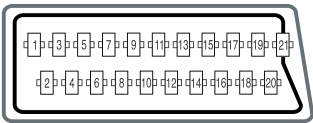
14 Reference Information

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



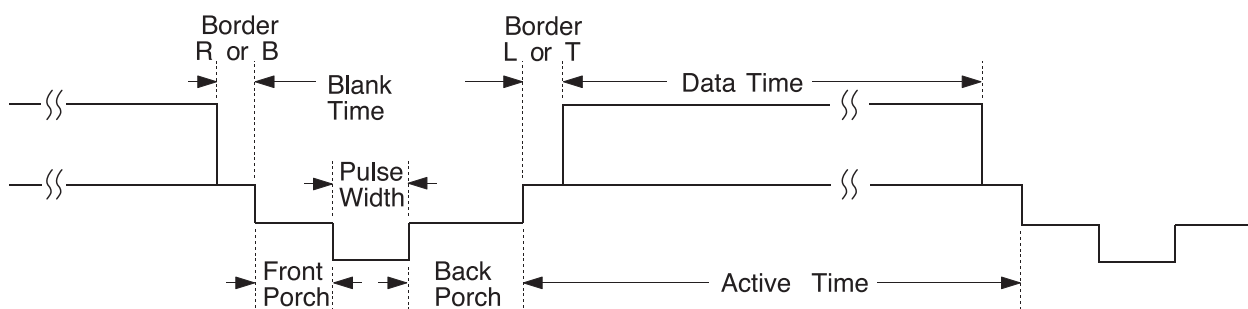
Pin	Signal	Pin	Signal
1	Audio output R	12	NC
2	Audio input R	13	Video GND (RGB red)
3	Audio output L	14	GND
4	Audio common GND	15	RGB red input
5	Video GND (RGB blue)	16	NC
6	Audio input L	17	Video output GND
7	RGB blue input	18	Video input GND
8	Switching voltage	19	Video output (CVBS out)
9	Video GND (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
Activetime	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	31.777μs	31.778μs	26.413μs	26.667μs	28.571μs
Active time	26.058μs	26.058μs	20.825μs	20.317μs	21.164μs
Blank time	5.720μs	5.720μs	5.588μs	6.350μs	7.407μs
Border(L / R)	0.318μs	0.318μs	0.254μs	0.000μs	0.000μs
Data time	25.422μs	25.422μs	20.317μs	20.317μs	21.164μs
Front porch	0.318μs	0.318μs	0.508μs	0.508μs	2.116μs
Sync. width	3.813μs	3.813μs	1.270μs	2.032μs	2.116μs
Back porch	1.589μs	1.589μs	3.810μs	3.810μs	3.175μs
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. Originator Mode Name Resolution (HxV)	15 VESA 1024/60Hz 1024x768	16 VESA 1024/70Hz 1024x768	19 VESA 1024/75Hz 1024x768	VESA 1360/60Hz 1360x768
HORIZONTAL Frequency Total time Activetime Blank time Border(L / R) Data time Front porch Sync. width Back porch Sync. polarity	48.363kHz 20.677 μ s 15.754 μ s 4.923 μ s 0.000 μ s 15.754 μ s 0.369 μ s 2.092 μ s 2.462 μ s Negative	56.476kHz 17.707 μ s 13.653 μ s 4.053 μ s 0.000 μ s 13.653 μ s 0.320 μ s 1.813 μ s 1.920 μ s Negative	60.023kHz 16.660 μ s 13.003 μ s 3.777 μ s 0.000 μ s 13.003 μ s 0.323 μ s 1.219 μ s 2.235 μ s Positive	47.712kHz 20.959 μ s 15.906 μ s 5.053 μ s 0.000 μ s 15.906 μ s 0.749 μ s 1.702 μ s 2.994 μ s Positive
VERTICAL Frequency Total time Active time Blank time Border(T / B) Data time Front porch Sync. width Back porch Sync polarity	60.004Hz 16.666ms 15.880ms 0.786ms 0.000ms 15.880ms 0.062ms 0.124ms 0.600ms Negative	70.069Hz 14.272ms 13.599ms 0.672ms 0.000ms 13.599ms 0.053ms 0.106ms 0.513ms Negative	75.029Hz 13.328ms 12.795ms 0.533ms 0.000ms 12.795ms 0.017ms 0.050ms 0.466ms Positive	60.015Hz 16.662ms 16.097ms 0.566ms 0.000ms 16.097ms 0.063ms 0.105ms 0.377ms 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	LTM140X1-002 BN07-00004A SA	BN68-00239H			
SEC	LTM150XS-L01 BN07-00009A SB				
SEC	LTM150XS-L01-B BN07-00022A SC		-		
SEC	LTM150XS-L02 BN07-00005A SD		-		
SEC	LTM181E2-132 BN07-00001A SE				
SEC	LTM150XS-T01 BN07-00010A SF				
SEC	LTM181E3-132 BN07-00019A SG		-		
SEC	LTM170E2-131 BN07-10001D SH				
SEC	LTM181E2-131 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		"HIGH-LAND 17"" LOW PANEL (Panel only for TCO03)"	
SEC	LTM190E1-L01	BN07-00088A E7		LTM190E1-L01 ZPD panel	
SEC	MT50X4-L06	BN07-00137A E8		15" Narrow & Slim panel	
SEC	LTA170V1	BN07-00139A E9		17"" Panel for Muse #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		"Create 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		"Create 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	CLAA150XG09BN07-00141A	PA		CPT 15" Monitor new panel development	
CPT	CLAA170EA02BN07-00148A	PB		17"" CPT NEW development panel"	
CPT	CLAA170EA02BN07-00148B	PC		17"" CPT ZPD panel code derivation"	
CPT	CLAA150XG09BN07-00141B	PTZ		CPT 15"" panel ZPD code derivation (GOYA-PT)"	
CPT	CLAA150XP01BN07-00173A	PTH		CPT 15" PSWG code derivation	
CPT	CLAA150XP01BN07-00173B	PTZ		CPT 15" PSWG panel ZPD code	
CPT	CLAA170EA07BN07-00174A	PTH		CPT 17" PSWG panel code derivation	
CPT	CLAA170EA07BN07-00174B	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/IC) ZPD"
TORISAN	TM150XG-26L10	BN07-00090A	RJ		L10 NORMAL
TORISAN	TM190SX-70N01	BN07-00098A	RK		Torisan 19" Panel
TORISAN	TM181SX-76N01	BN07-00106A	RL		ZPD Panel code
TORISAN	TM190SX-70N01	BN07-00107A	RM		ZPD Panel code
TORISAN	TM290WX-71N31	BN07-00115A	RN		"Color Coordinates change panel for TORISAN 29" TV"
TORISAN	TM396WX-71N31	BN07-00116A	RP,Q		"Color Coordinates change panel for TORISAN 40" TV"
TORISAN	TM220WX-71N31	BN07-00125A	RR		"Development TORISAN 22" TV PANEL (ZPD)"
TORISAN	TM220WX-71N31	BN07-00127A	RS		"Development TORISAN 22" TV PANEL (HPD)"
TORISAN	TM396WX-71N32A	BN07-00150A	RT		120V inverter Exclusive panel
TORISAN	TM190SX-70N02	BN07-00154A	RMH		Torisan 6bit panel code Derivation
TORISAN	TM190SX-70N02	BN07-00154B	RMZ		Torisan 6bit panel code Derivation
TORISAN	TM150XG-A01	BN07-00162A	RTH		Torisan 15" Narrow & Slim panel development
TORISAN	TM150XG-A01	BN07-00162B	RTZ		Torisan 15" N&S panel ZPD code Derivation
SHARP	LQ181E1DG11(A)	BN07-10001C	PA		-
SHARP	LQ150X1LW71	BN07-00067A	PB		SHARP 15" PVA PANEL
SHARP	LQ370T3LZ41	BN07-00216A	FAZ		Rome2
HITACHI	TX38D12VC0CAA(A)	BN07-00003A	HA		-
HITACHI	TX43DVCO CAB	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-S)"	
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 /EÄ»ý	
ACER	T370XW01	BN07-00255A	AMZ		ROME 37" model	
CHIMEI	M170E3-L01	BN07-00050A	CA		TN PANEL	
CHIMEI	M150X3-L01	BN07-00051A	CB		COMPATIBLE	
CHIMEI	M170E4-L01	BN07-00052A	CC		MVA PANEL	
CHIMEI	M150X2-L01	BN07-00066A	CD		CHIME 15" PVA PANEL	
CHIMEI	M150X3-L01	BN07-00079A	CE		Chimei ZPD panel	
CHIMEI	M170E3-L01	BN07-00103A	CF		ZPD Panel code	

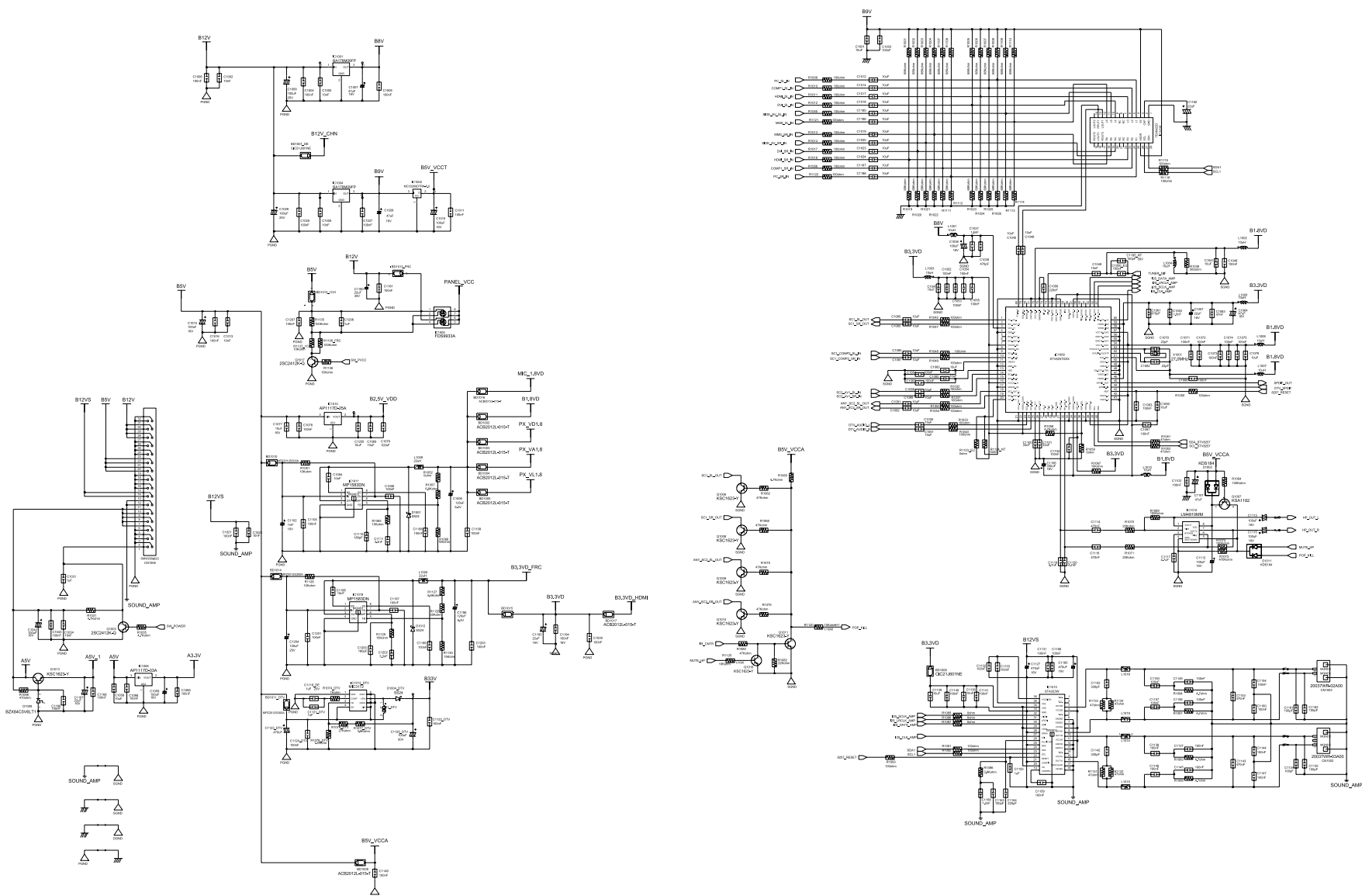
14 Reference Information

Maker	VENDOR P/N		PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
CHIMEI	M70E4-L01	BN07-00104A	CG		ZPD Panel code	
CHIMEI	V296W1-L01	BN07-00120A	CH		MVA	
CHIMEI	M70E6-L02	BN07-00126A	CJ		HIGHLAND 17" LOW PANEL	
CHIMEI	M90E2-L01	BN07-00131A	CK		BH19AS,BS CHIMEI PANEL	
CHIMEI	M50X4-L06	BN07-00137A	CL		15" Narrow & Slim panel	
CHIMEI	M70E6-L01	BN07-00133A	CM		2003-03-11 vendor change"	
CHIMEI	M70E6-L01	BN07-00133B	CN		ZPD derivation panel	
CHIMEI	V201V1-T01	BN07-00135A	CP		CHIMEI 20.1" panel development	
CHIMEI	M70E6-L02	BN07-00126B	CQ		HIGHLAND 17"" LOW PANEL ZPD derivation panel"	
CHIMEI	M70E6-L05	BN07-00152A	CR		CMO 17"" new panel development code"	
CHIMEI	M70E6-L05	BN07-00152B	CS		CMO 17"" ZPD panel code derivation"	
CHIMEI	M50X4-L06	BN07-00137B	CT		Chimei 15" Narrow & Slim panel ZPD derivation	
CHIMEI	M70E5-L05	BN07-00165A	CTH		CMO 17" new panel development code (GOYA2-PJT)	
CHIMEI	M70E5-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	M90E5-L0A	BN07-00213A	CTZ			
CHIMEI	M90E3-L0A	BN07-00212A	CMZ		CMO M190E3-L0A MVA Type new code	
CHIMEI	M70E7-L01	BN07-00232A	CTZ		CMO 17" Slim TN ZPD Type new code	
CHIMEI	M90A1-L01	BN07-00228A	CTZ		CMO 19" Wide TN ZPD Type new code	
NEC	SVA150XG04TB	BN07-00225A	BTZ		SVA NEC 15" panel ZPD code	

9 Schematic Diagrams

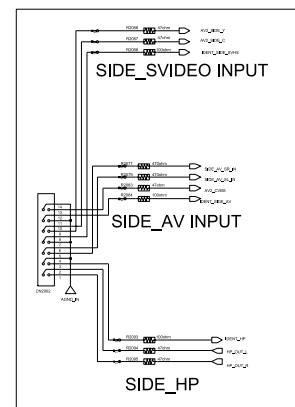
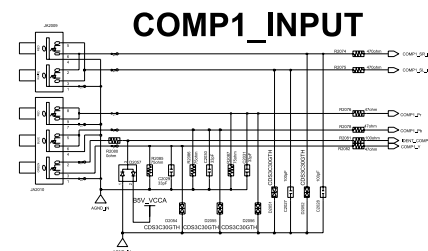
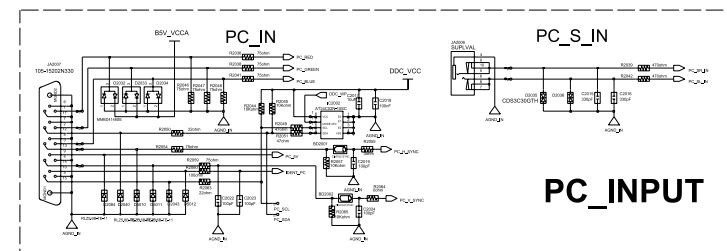
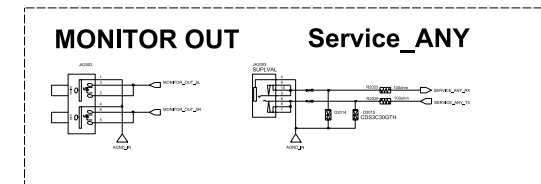
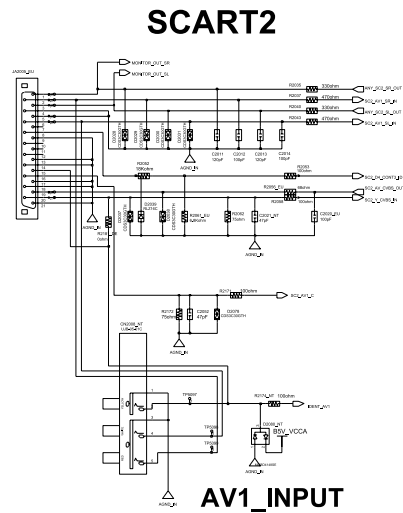
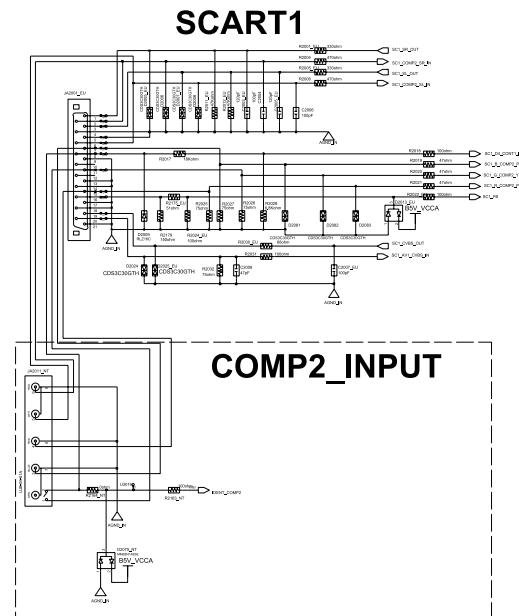
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9-1 POWER SOUND PROCESS Schematic Diagram

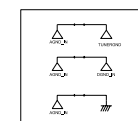


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9-2 Input & Output Schematic Diagram



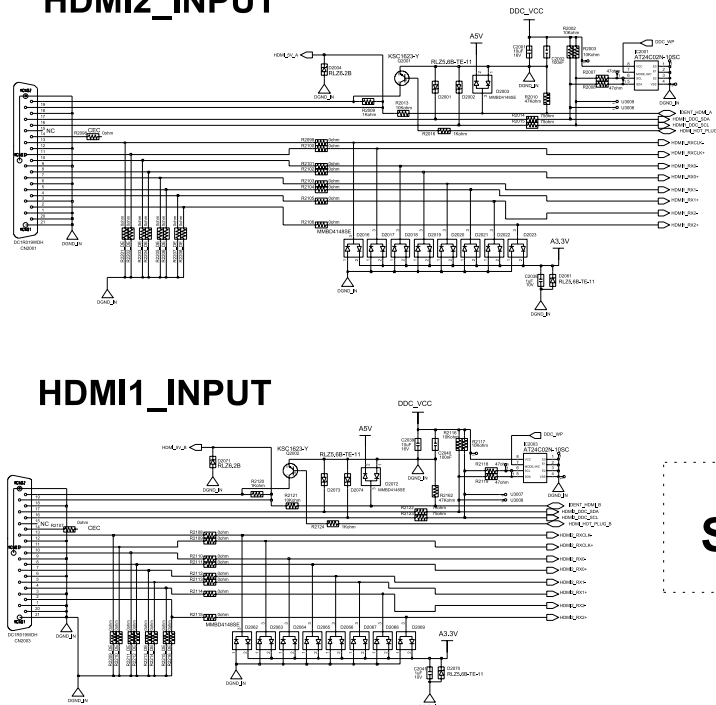
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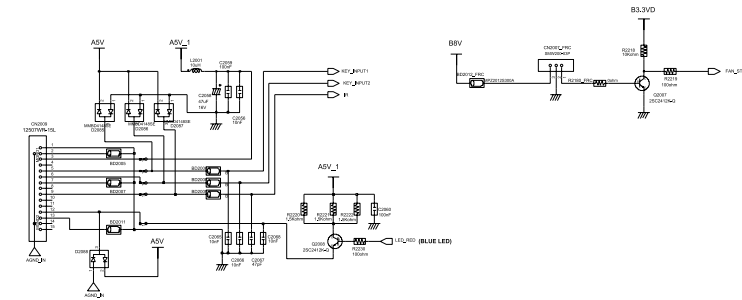
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9-3 Input & Output Schematic Diagram

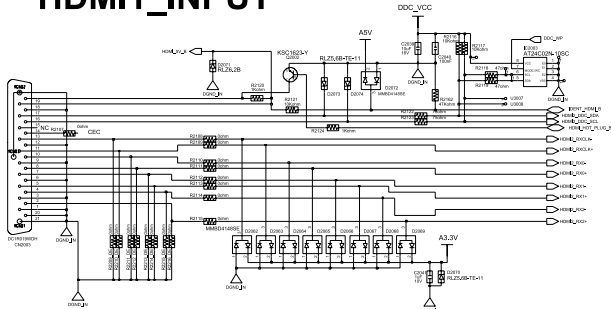
HDMI2_INPUT



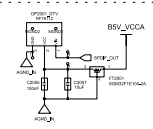
Function



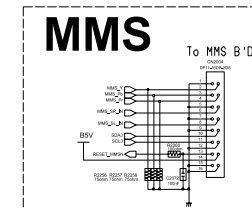
HDMI1_INPUT



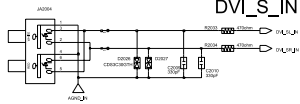
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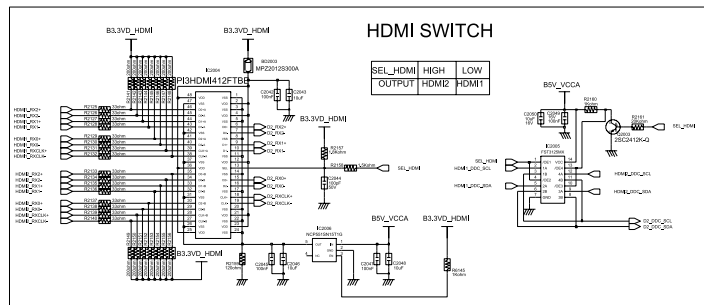
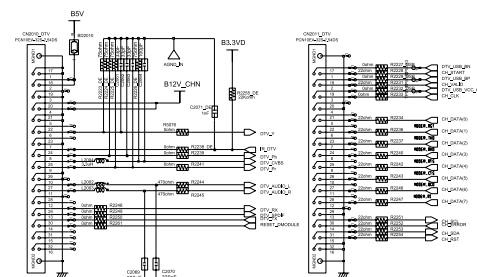
MMS



DVI_S_IN



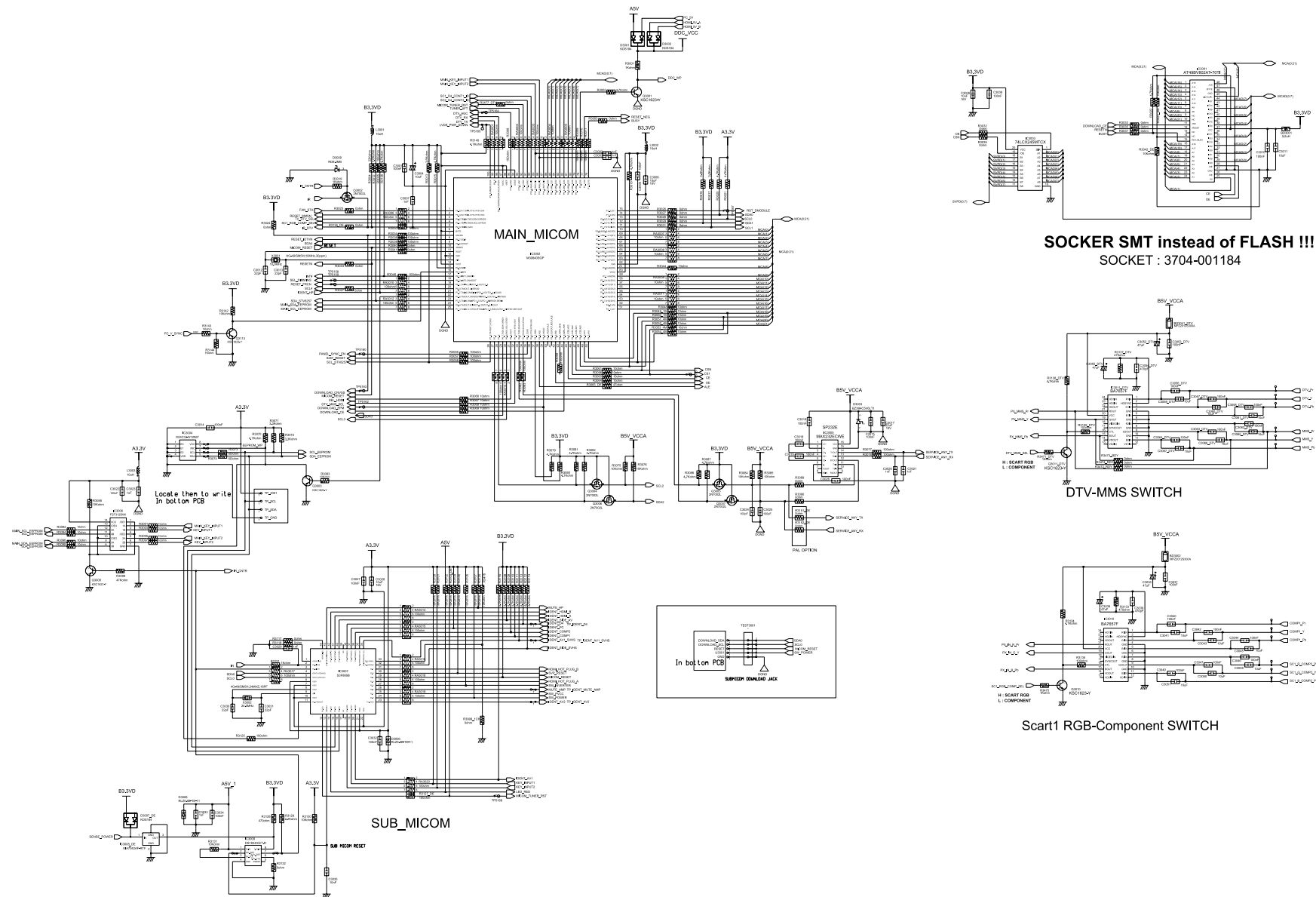
DTV CONNECTION



9 Schematic Diagrams

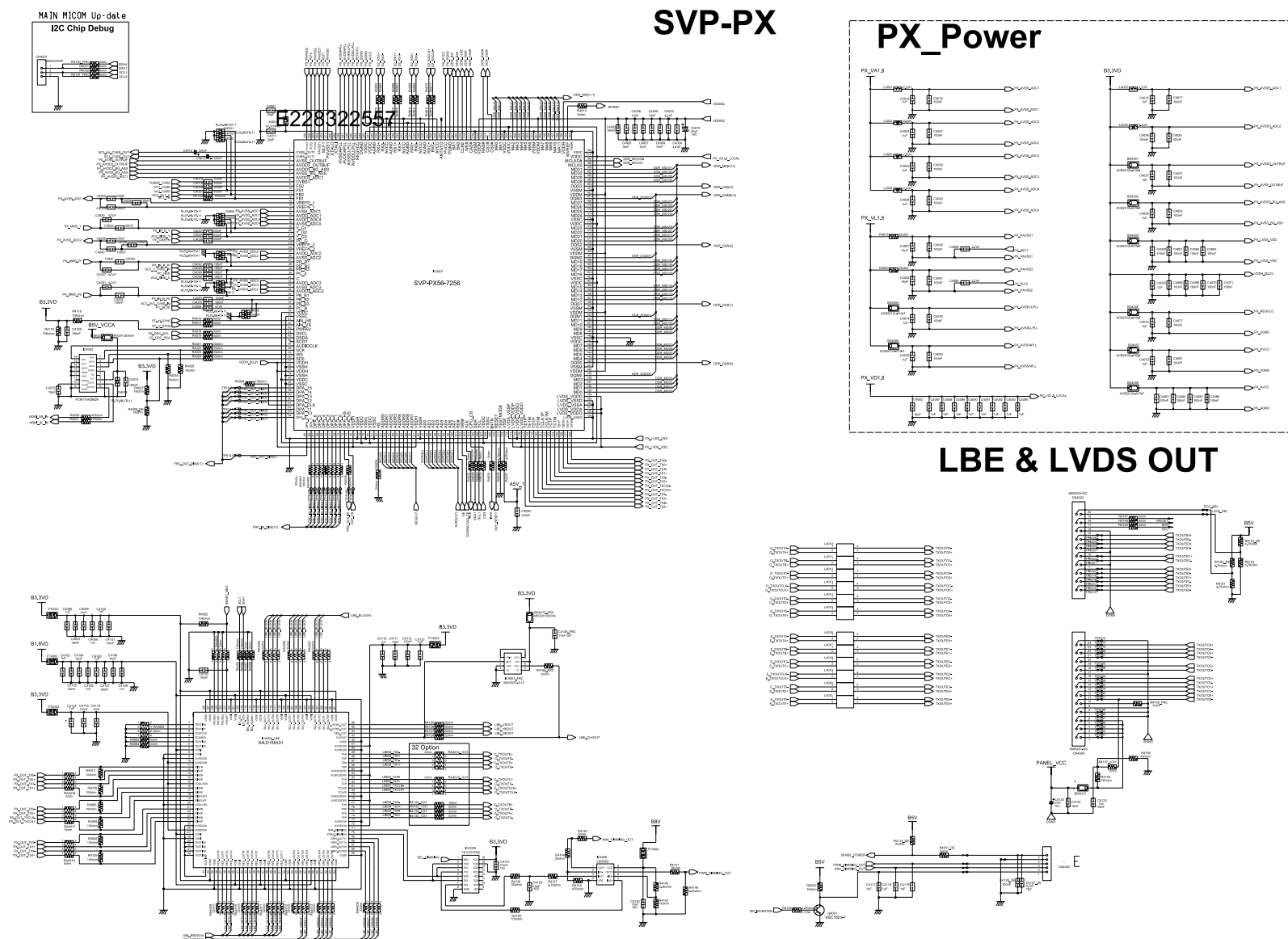
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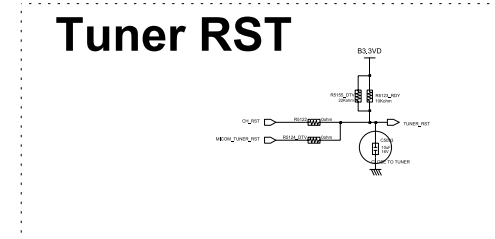
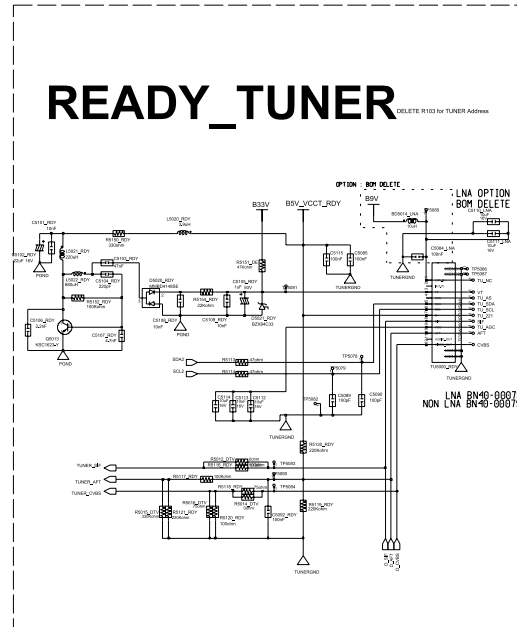
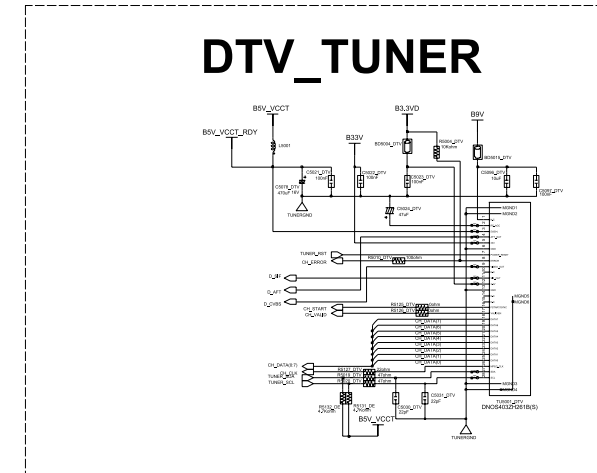
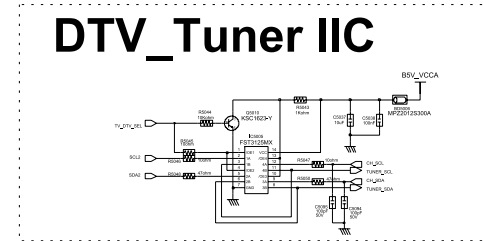
9-4 Micom Schematic Diagram



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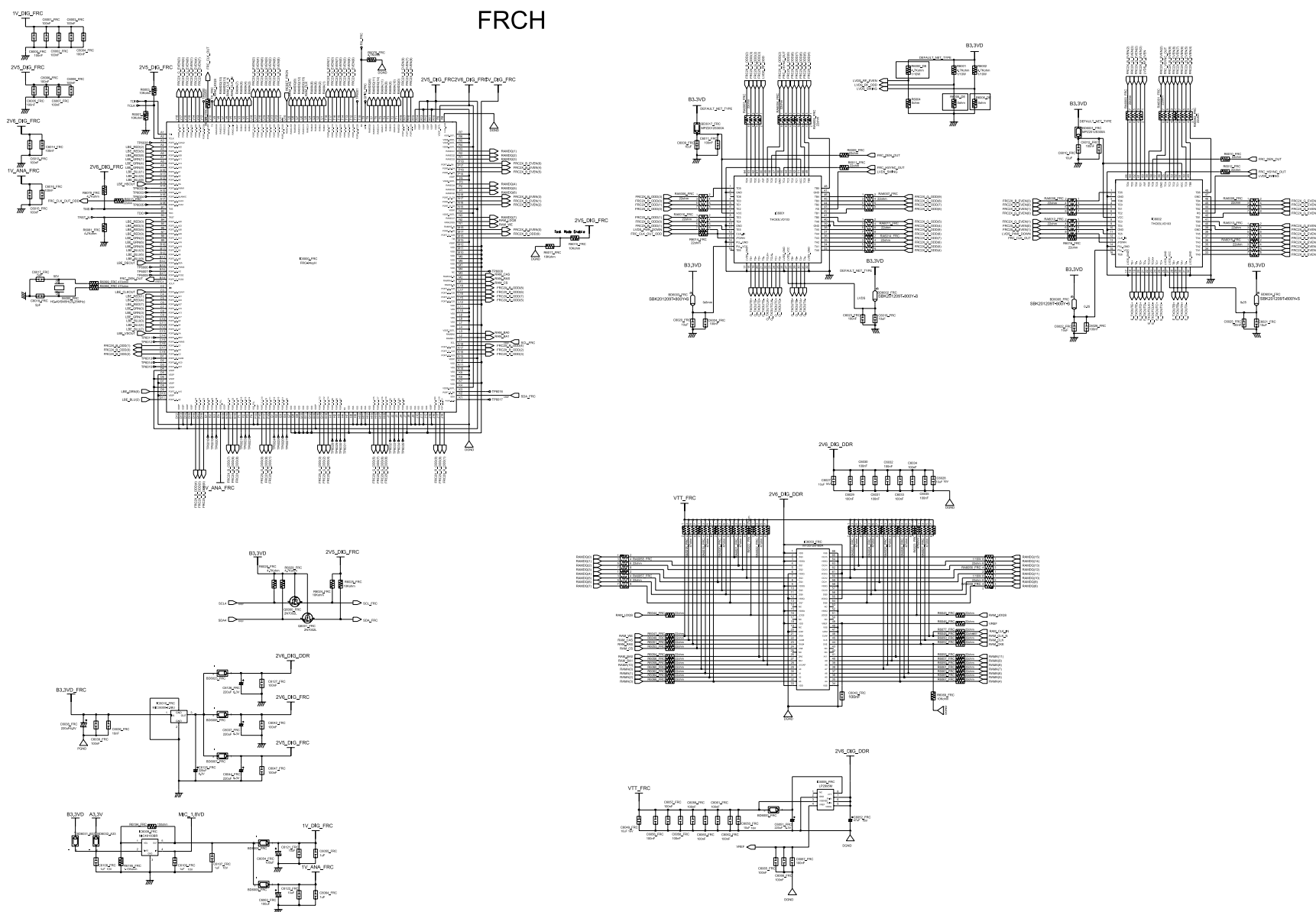
9-5 SVP-PX Schematic Diagram





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9-7 FRCH 100Hz LVDS Schematic Diagram



Memo

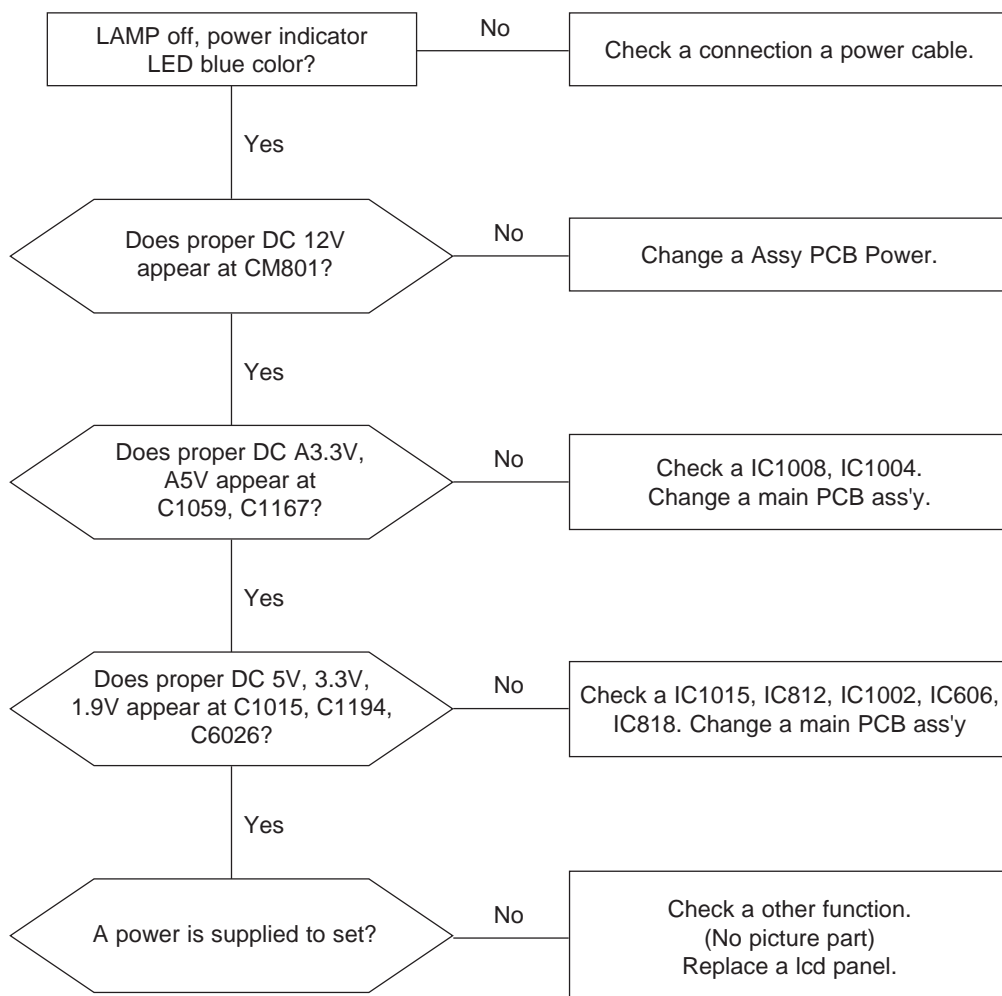
4 Troubleshooting

4-1 First Checklist for Troubleshooting

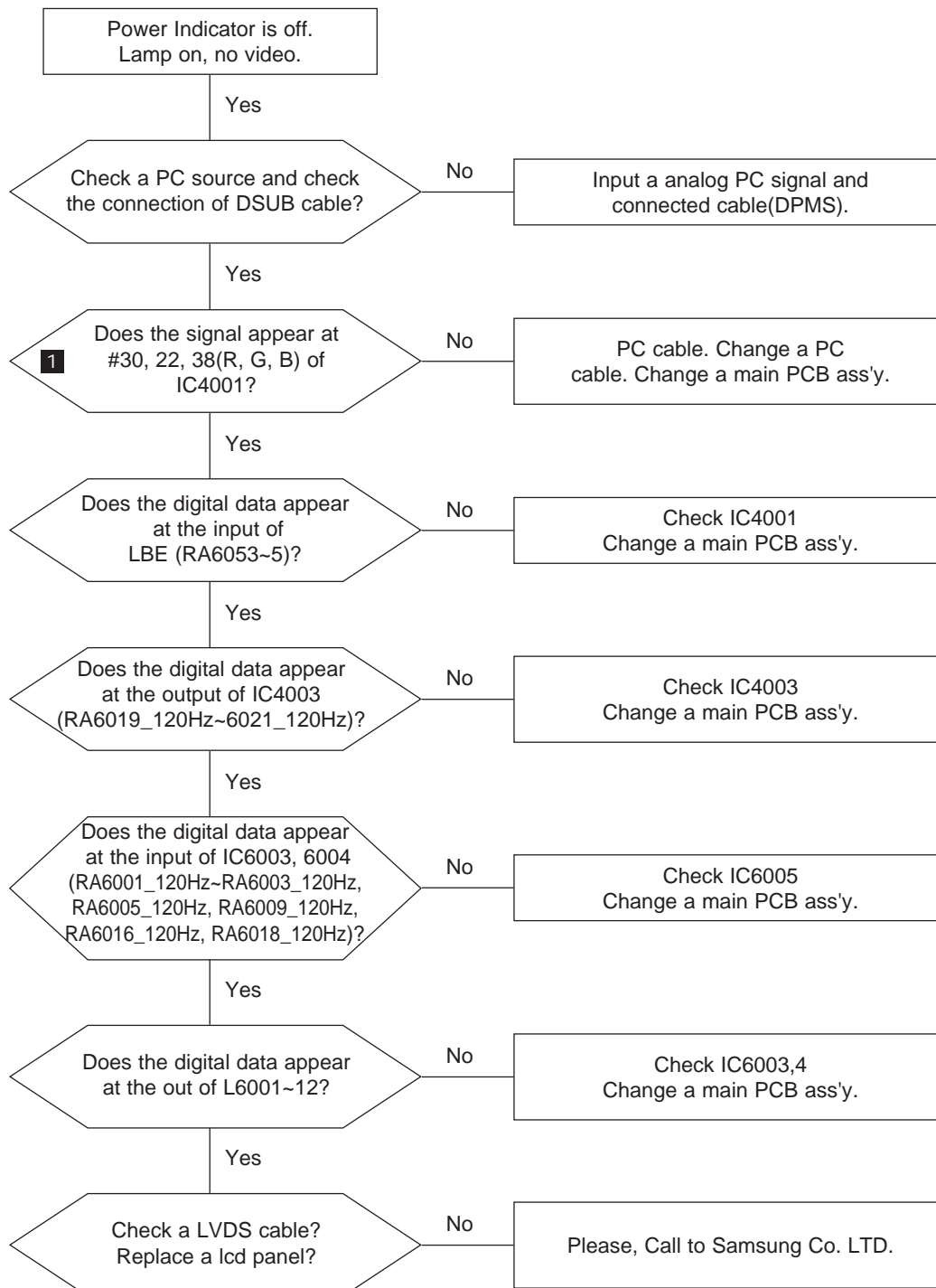
1. Check the various cable connections first.
 - Check to see if there is a burnt or damaged cable.
 - Check to see if there is a disconnected cable connection or a connection is too loose.
 - Check to see if the cables are connected according to the connection diagram.
2. Check the power input to the 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

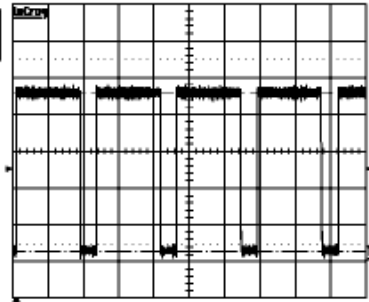


4-2-2 No Video (Analog PC)



WAVEFORMS

1 R,G,B Output Signal of IC500

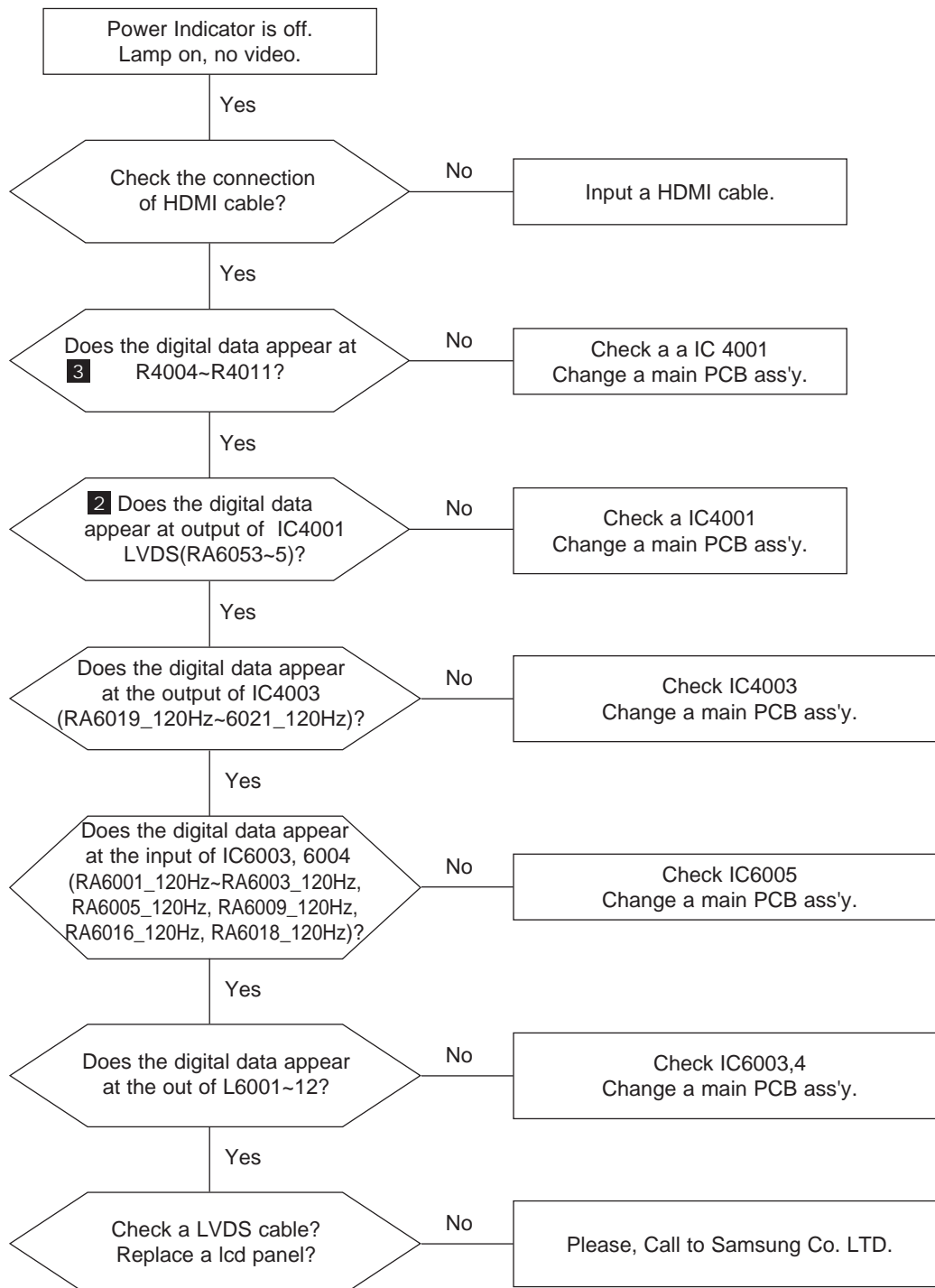
27-Sep-02
1:42:1910 μ s
200mV
652mV10 μ s1 20 mV DC $\frac{1}{2}$
2 1 V DC $\frac{1}{2}$
3 1 V DC $\frac{1}{2}$
4 1 V DC $\frac{1}{2}$ 

1 DC 0.492 V

1 65/s

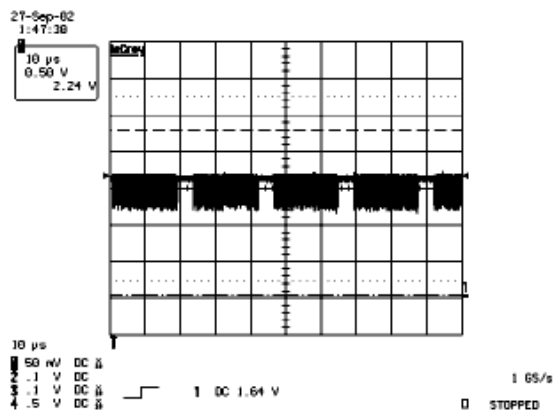
STOPPED

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

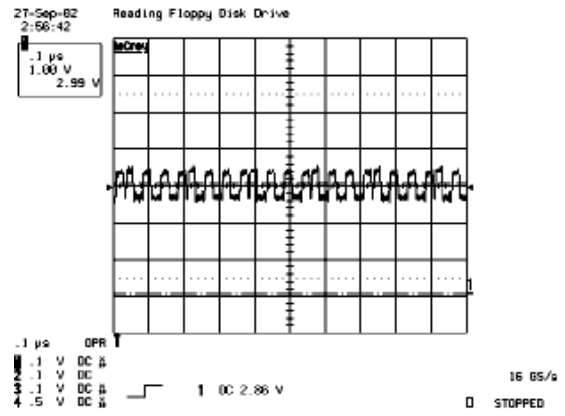


4 Troubleshooting

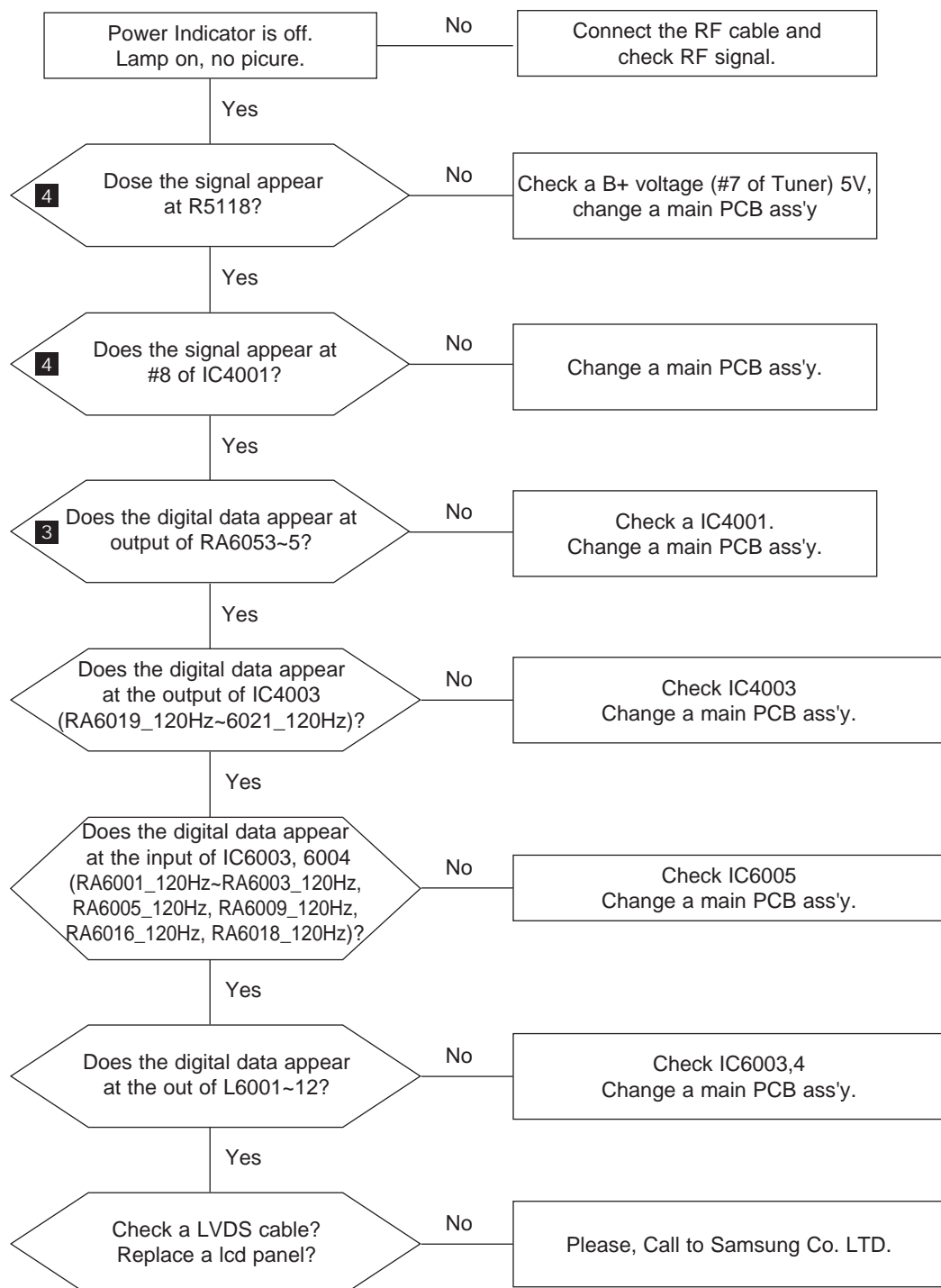
2 Digital Output Data of IC500



3 Signal of HDMI(Data)

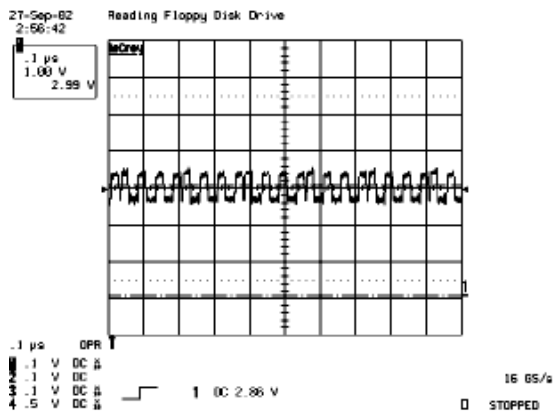


4-2-4 No Picture (Tuner_CVBS)

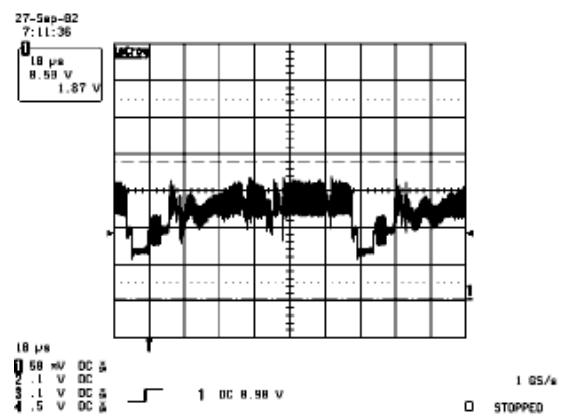


WAVEFORMS

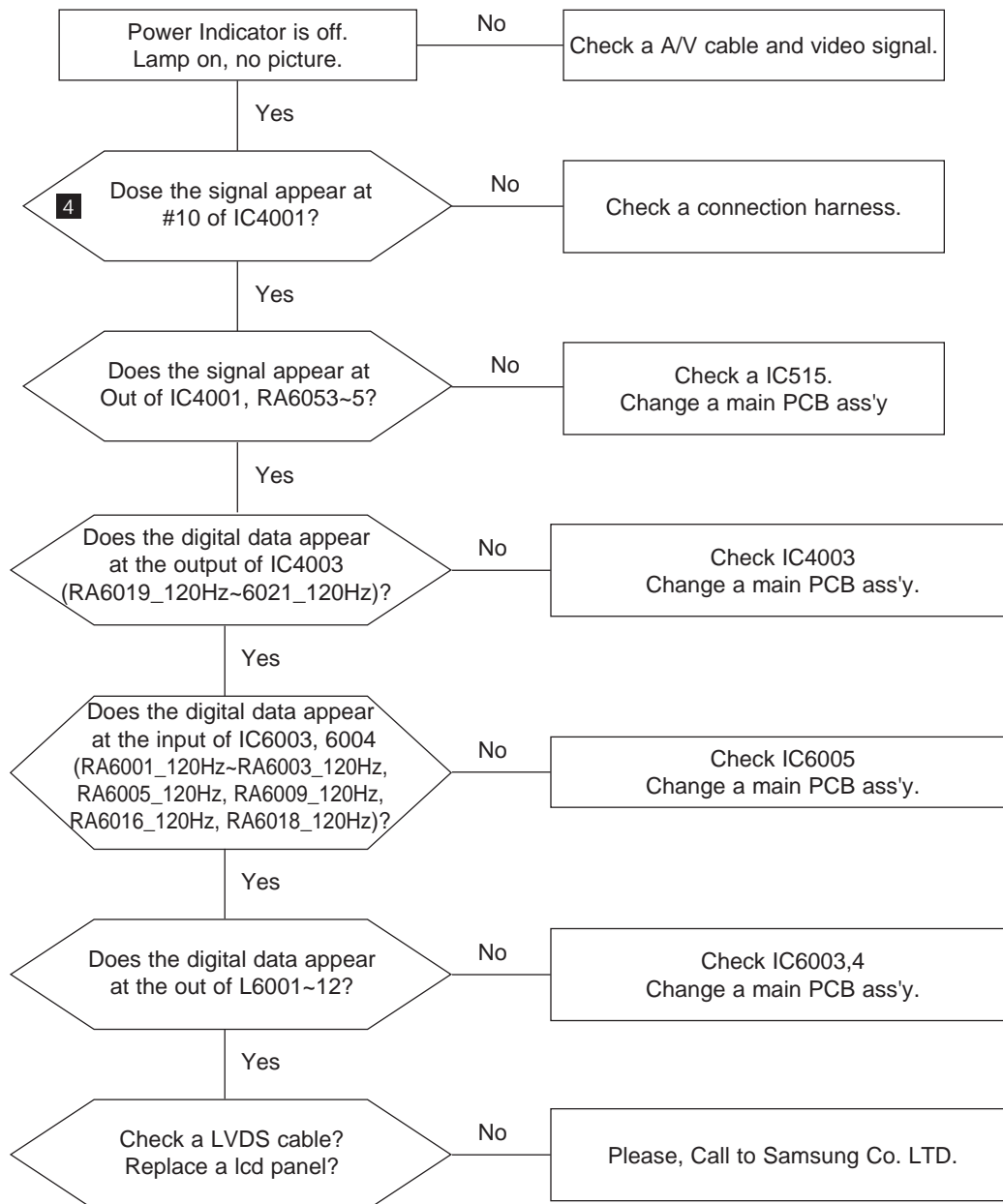
3 CVBS Output Signal



4 Tuner_CVBS Output Signal

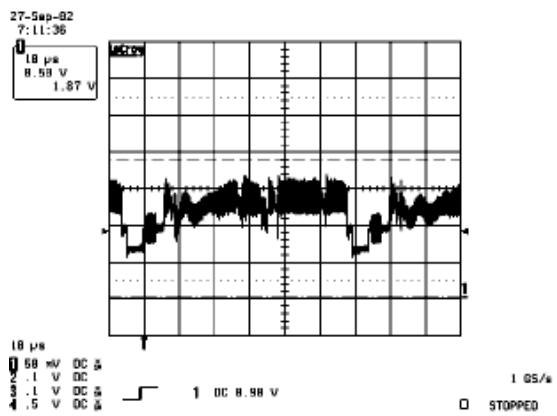


4-2-5 No Picture (Video_CVBS)

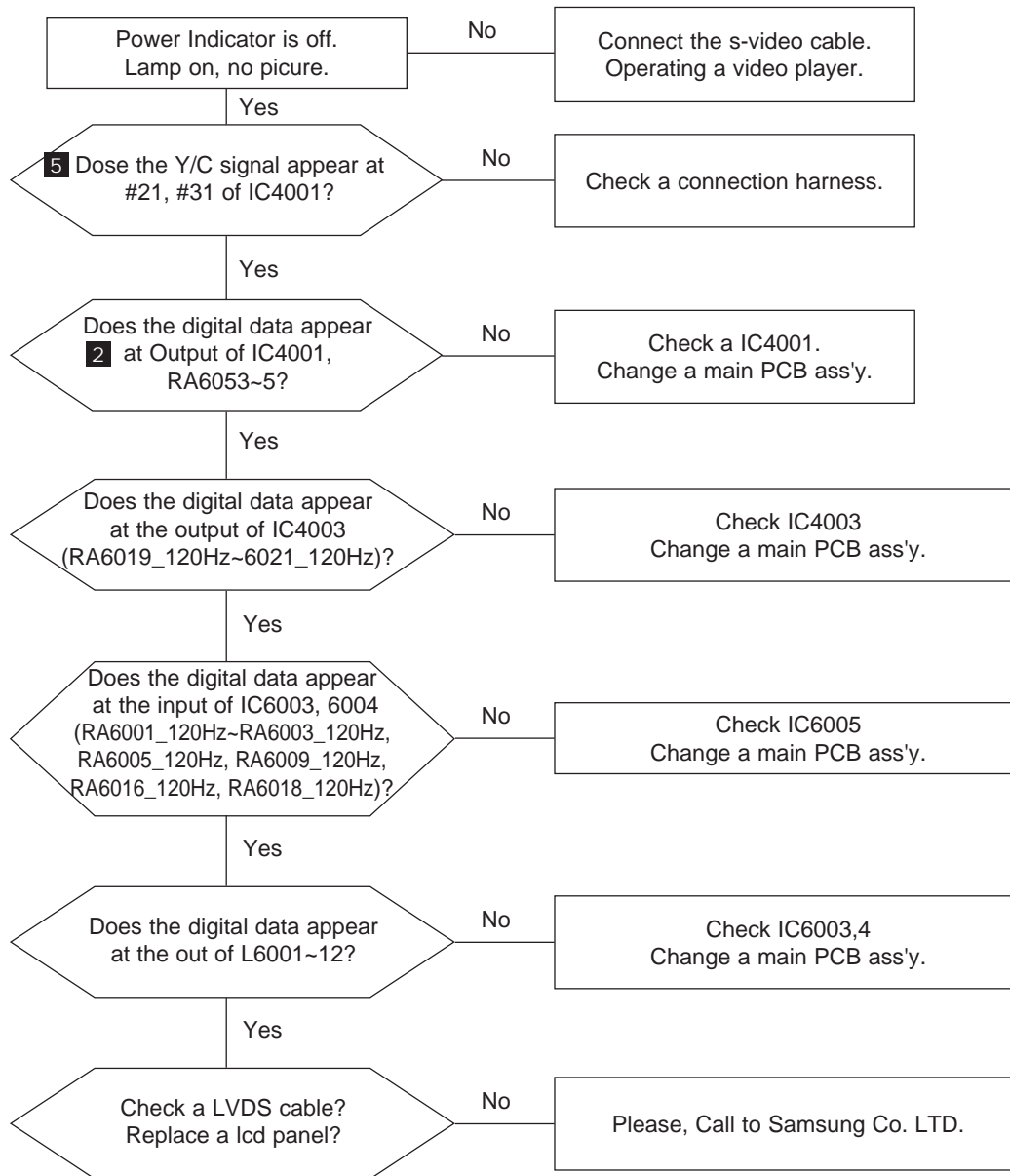


WAVEFORMS

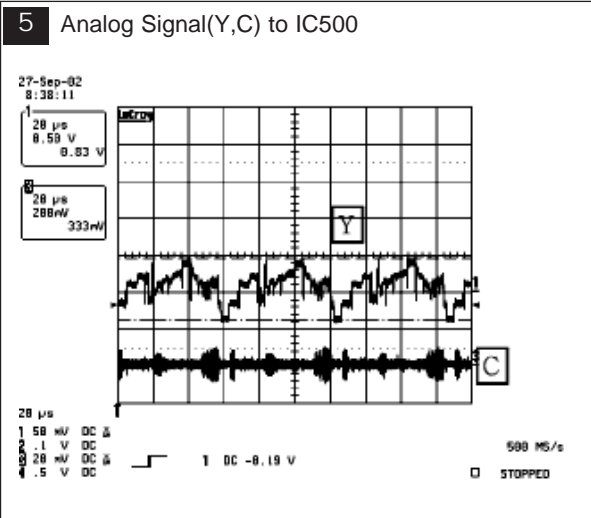
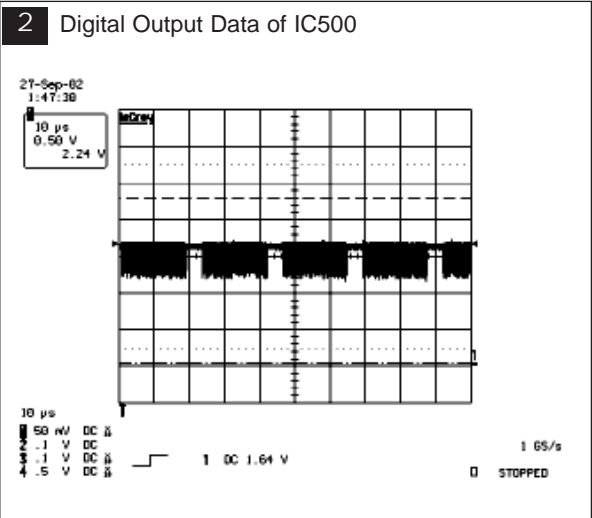
4 CVBS Output Signal



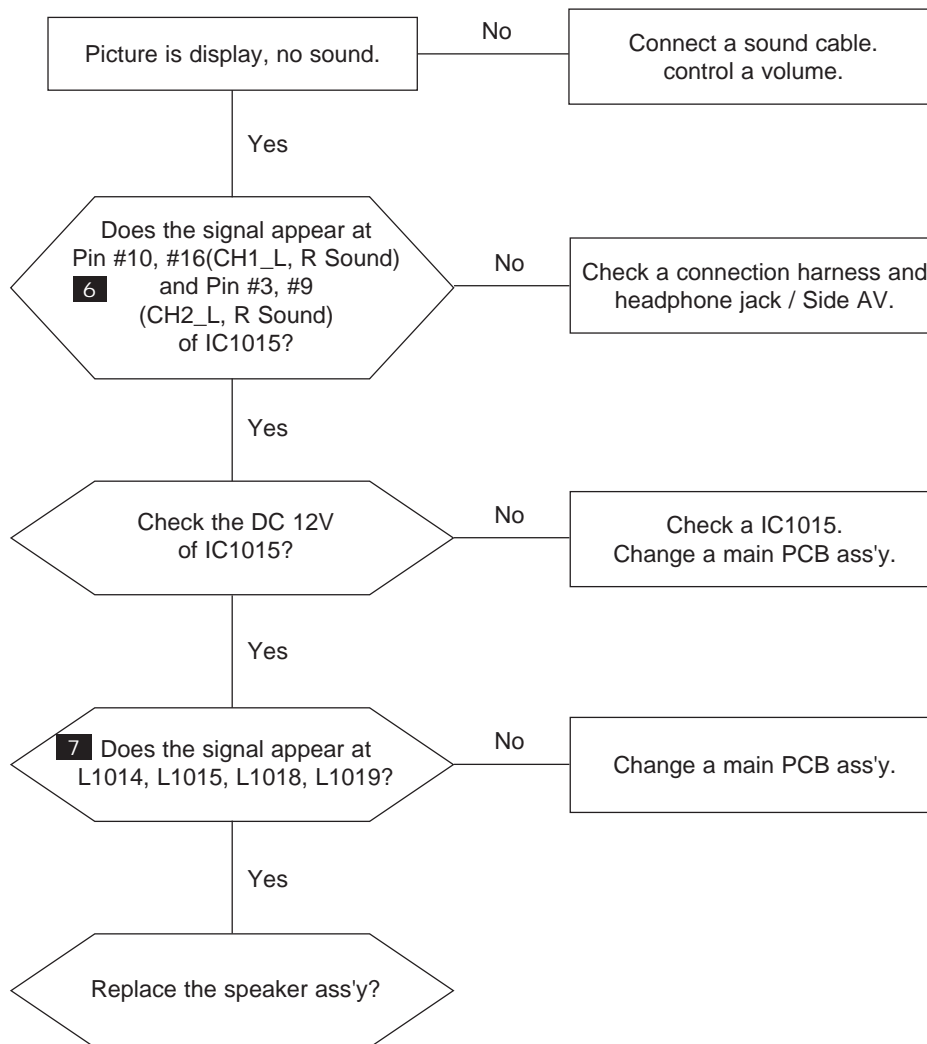
4-2-6 No Picture (S-VIDEO_Y,C)



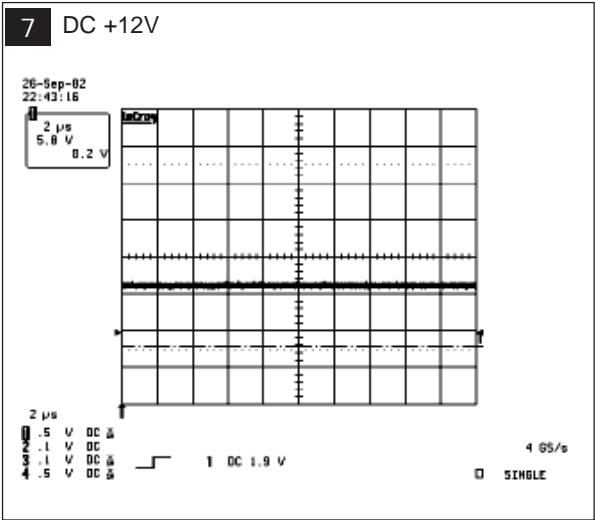
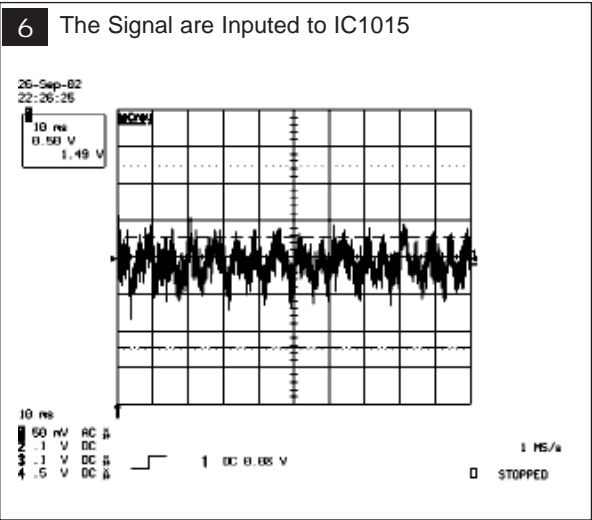
WAVEFORMS



4-2-7 No Sound



WAVEFORMS



8 Wiring Diagram

8-1 Wiring Diagram

LVDS 1	
1	VDD
2	VDD
3	VDD
4	VDD
5	VDD
6	GND
7	GND
8	GND
9	GND
10	TXOUT00-
11	TXOUT00+
12	TXOUT01-
13	TXOUT01+
14	TXOUT2-
15	TXOUT2+
16	GND
17	TXOUTOC-
18	TXOUTOC+
19	GND
20	TXOUT03-
21	TXOUT03+
22	TXOUT04-
23	TXOUT04+
24	GND

POWER	
1	SW_POWER
2	GND
3	GND
4	GND
5	GND
6	A5V
7	A5V
8	A5V
9	A5V
10	A5V
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

LVDS 2	
1	TXOUT0-
2	TXOUT0+
3	TXOUT1-
4	TXOUT1+
5	TXOUT2-
6	TXOUT2+
7	GND
8	TXOUTEC-
9	TXOUTEC+
10	GND
11	TXOUTE3-
12	TXOUTE3+
13	TXOUTE4-
14	TXOUTE4+
15	GND
16	CTRL1
17	CTRL2
18	CTRL3
19	LVDS OPTION
20	DDC OPTION

Inverter Power	
1	SW_Inverter
2	ANA_DIMMING
3	PWM_DIMMING
4	GND
5	SENSE_POWER

MAIN BOARD

CN2003	
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	CEC
15	GND
16	DDC_SCL
17	DDC_SDA
18	GND
19	IDENT_HDMI
20	GND
21	GND

JA2006	
4	GND
5	PC_SR_IN
6	PC_SR_IN
7	PC_SR_IN
8	PC_SR_IN
9	PC_SR_IN
10	PC_SR_IN

CN2001	
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	CEC
15	GND
16	DDC_SCL
17	DDC_SDA
18	GND
19	IDENT_HDMI
20	GND
21	GND

JA2007	
1	PC_RED
2	PC_GREEN
3	PC_BLUE
4	GND
5	GND
6	GND
7	GND
8	GND
9	PC_AV
10	IDENT_PC
11	GND
12	PC_SDA
13	PC_H_SYNC
14	PC_V_SYNC
15	PC_SCL

JA2002	
1	GND
2	MONITOR_OUT_SL
3	MONITOR_OUT_SL
4	GND
5	MONITOR_OUT_SR
6	MONITOR_OUT_SR

JA2003	
4	GND
5	SERVICE_ANY_RX
6	SERVICE_ANY_TX
7	SERVICE_ANY_TX
8	SERVICE_ANY_TX
9	SERVICE_ANY_RX
10	SERVICE_ANY_RX

JA2009	
1	GND
2	COMPT_SR_IN
3	COMPT_SL_IN
4	GND
5	COMPT_SL_IN
6	COMPT_SR_IN

JA2010	
1	GND
2	IDENT_COMP1
3	COMPT_Y
4	GND
5	COMPT_Pb
6	COMPT_Pb
7	GND
8	COMPT_Pb
9	COMPT_Pb

CN5001	
1	GND
2	GND
3	A5V
4	NC
5	KEY_INPUT1
6	KEY_INPUT2
7	GND
8	NC
9	IR
10	NC
11	NC
12	BLUE_LED
13	GND
14	NC
15	NC

CH1002	
1	S_F+
2	NC
3	S_F-

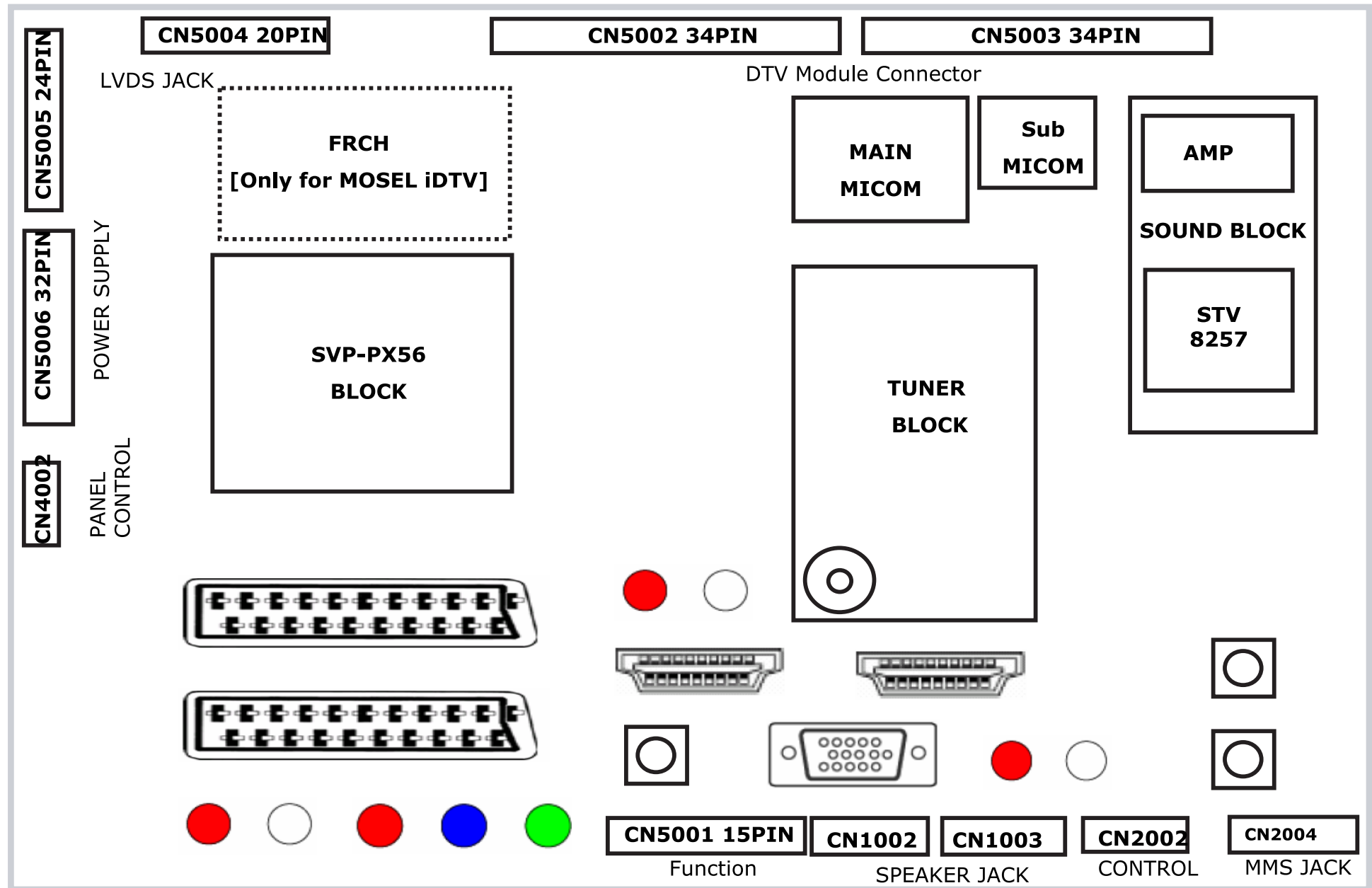
CH1003	
1	S_L+
2	S_L-

CN2002	
1	HP_OUT_L
2	HP_OUT_L
3	HP_OUT_R
4	HP_OUT_R
5	SIDE_AV_SR_IN
6	SIDE_AV_SL_IN
7	GND
8	IDENT_SIDE_VHS
9	AV2_SIDE_Y
10	AV2_SIDE_C
11	GND
12	IDENT_SIDE_AV
13	AV2_CVBS
14	GND

CN2004	
1	GND
2	MMS_Y
3	MMS_Pb
4	MMS_Pr
5	GND
6	MMS_SR_IN
7	GND
8	MMS_SL_IN
9	GND
10	SDA3
11	SCL3
12	GND
13	RESET_MM5N
14	B5V
15	GND
16	GND

OP5001	
1	SPDIF_OUT
2	B5V_VCCA
3	GND

8-2 Main Board Layout



8-3 PIN characteristic

CN5006 - 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

CN1002 / CN1003 - SPEAKER CONNECTOR

PIN	1	2	3
NAME	R-OUT	NOP	R-REFERENCE

PIN	1	2
NAME	L-OUT	L-REFERENCE

CN5001 - Front control

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
NAME	GND	GND	A5V	-	KEY INPUT1	KEY INPUT2	GND	-	IR	-	LED_ GREEN	LED_ RED	GND	SDA	SCL

Function Define

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

CN4002 - Panel control

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

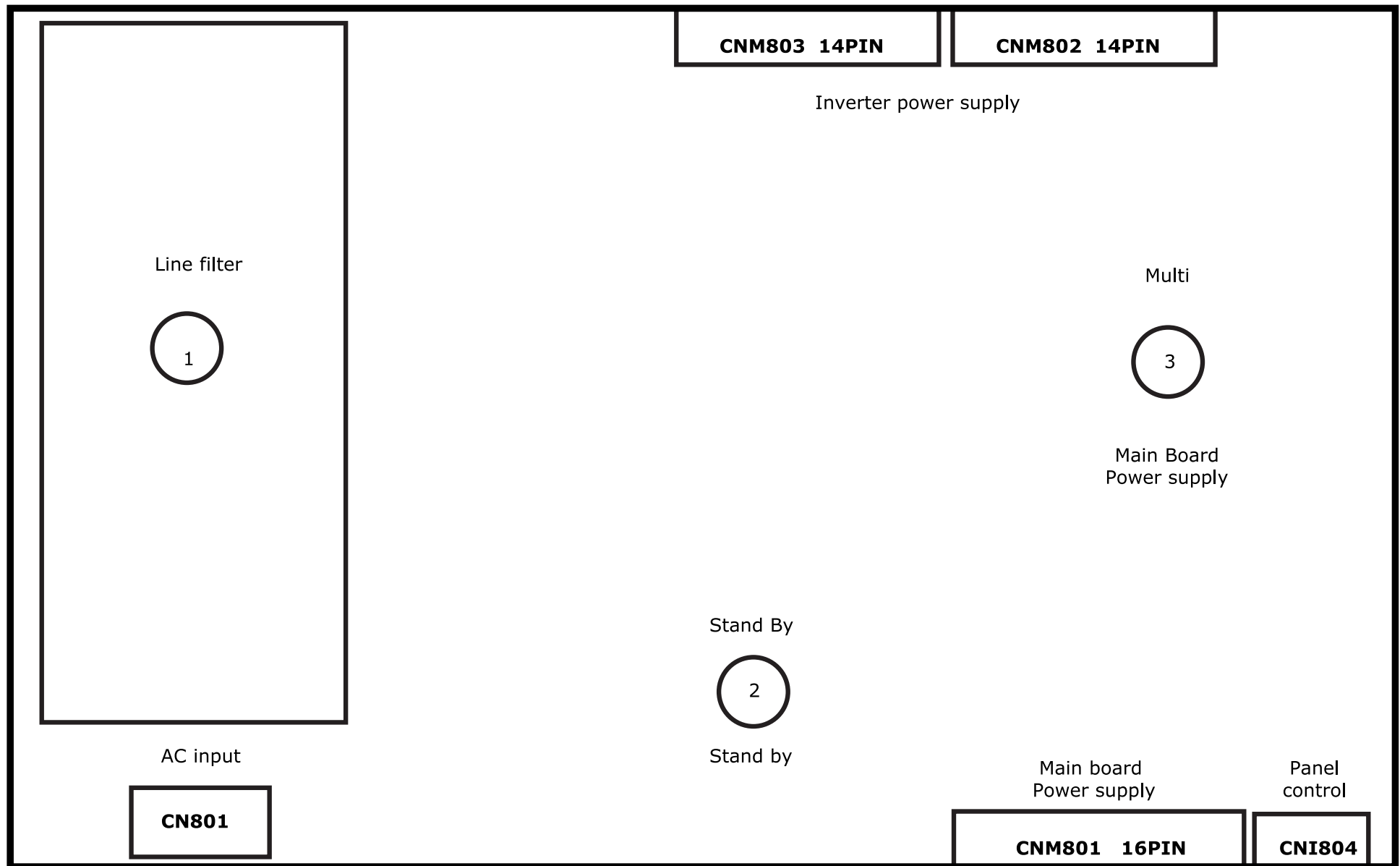
Function Define

- SW_inverter panel inverter control, about 5V
- Ana_dimming panel dimming control
- PWM_dimming panel PWM control, duty 40% ~ 90%
- Sensor Power brightness sensor power supply

CN5004[pin#1~#24] / CN5005[pin#25~#44] - MOSEL LVDS Signal
CN5005[pin#25~#44] - NEO MOSEL LVDS Signal

PIN	NAME	PIN	NAME
1	VDD	23	TXOUTO4+
2	VDD	24	GND
3	VDD	25	TXOUTE0-
4	VDD	26	TXOUTE0+
5	VDD	27	TXOUTO1-
6	GND	28	TXOUTO1+
7	GND	29	TXOUTO2-
8	GND	30	TXOUTO2+
9	GND	31	GND
10	TXOUTO0-	32	TXOUTOC-
11	TXOUTO0+	33	TXOUTOC+
12	TXOUTO1-	34	GND
13	TXOUTO1+	35	TXOUTO3-
14	TXOUTO2-	36	TXOUTO3+
15	TXOUTO2+	37	TXOUTO4-
16	GND	38	TXOUTO4+
17	TXOUTOC-	39	GND
18	TXOUTOC+	40	CTRL1
19	GND	41	CTRL2
20	TXOUTO3-	42	CTRL3
21	TXOUTO3+	43	LVDS OPTION
22	TXOUTO4-	44	DOC OPTION

8-4 Power Board Layout



CN801 - AC Input

PIN	1	2
NAME	Live	Netural
VOLTAGE	AC	AC

Functioning Define

- Refer to : AC Input

CN801 - Main Board power supply

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

Functioning Define

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

- Refer to : CN801 function define

CNM804 - Panel control

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

Functioning Define

- Refer to : CN815 function define

CN802 - Inverter power supply

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

Functioning Define

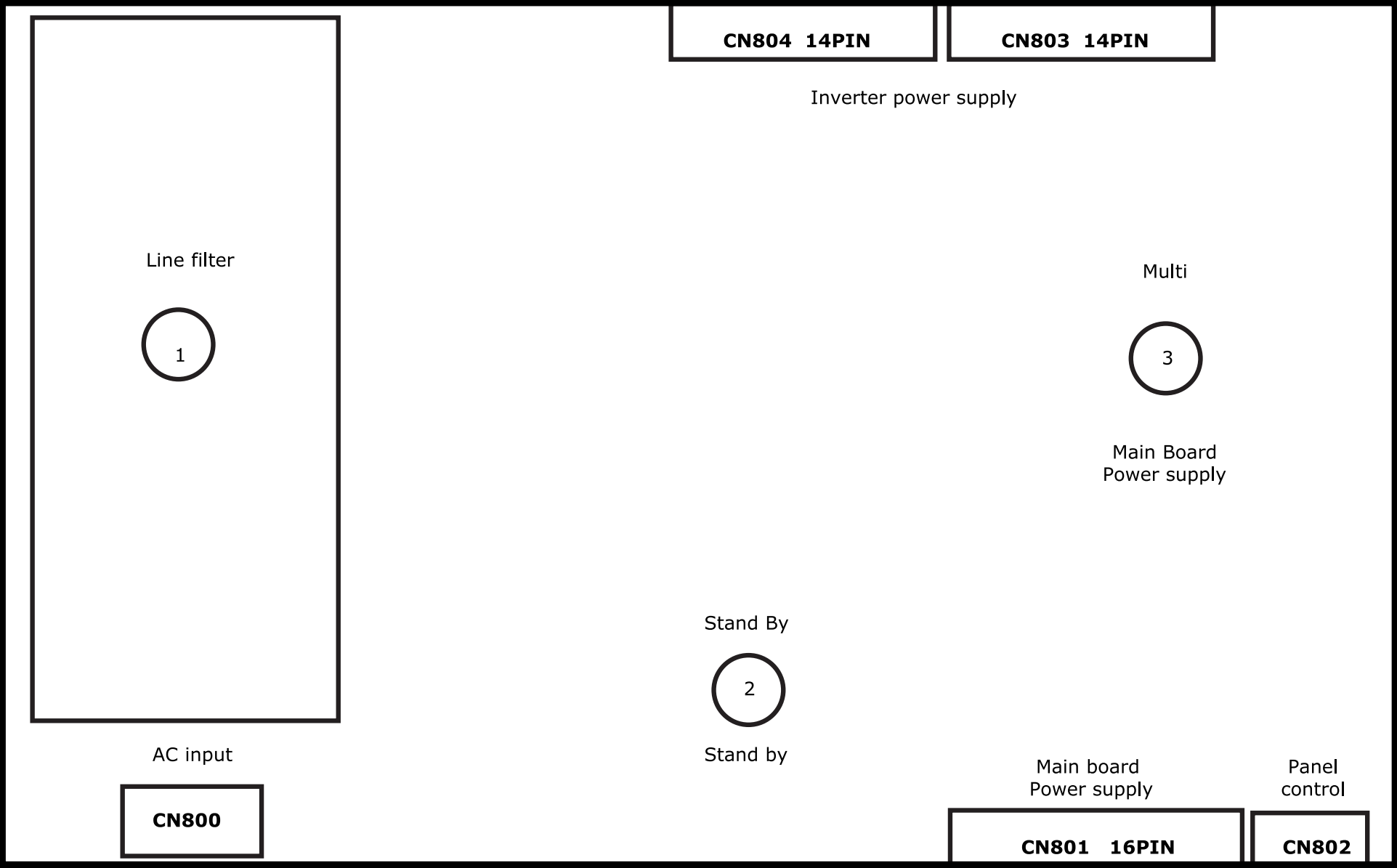
- AMLCD Panel Inverter Power
- 24V LAMP INVERTER Voltage
- B/L Brightness sensor power
- A_D ANA_DIMMING
- P_D PWM_DIMMING

CN803 - Inverter power supply

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

Functioning Define

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



CN801 - AC Input

PIN	I	2
NAME	Live	Netural
VOLTAGE	AC	AC

Functioning Define

- Refer to : AC Input

CN801 - Main Board power supply

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

Functioning Define

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

- Refer to : CN801 function define

CNM804 - Panel control

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

Functioning Define

- Refer to : CN815 function define

CN803 - Inverter power supply

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

Functioning Define

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

CN804 - Inverter power supply

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

Functioning Define

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

Memo