

SAFETY PRECAUTIONS

SERVICE WARNING

Only qualified service technicians who are familiar with safety checks and guidelines should perform service work. Before replacing parts, disconnect power source to protect electrostatically sensitive parts. Do not attempt to modify any circuit unless so recommended by the manufacturer. When servicing the receiver, use an isolation transformer between the line cord and power receptacle.

SERVICING THE HIGH VOLTAGE AND CRT

Use EXTREME CAUTION when servicing the high voltage circuits. To discharge static high voltage, connect a 10K ohms resistor in series with a test lead between the receiver ground and CRT anode lead. DO NOT lift the CRT by the neck. Always wear shatterproof goggles when handling the CRT to protect eyes in case of implosion.

X-RAY RADIATION AND HIGH VOLTAGE LIMITS

Be aware of the instructions and procedures covering X-ray radiation. In solid-state receivers and monitors, the CRT is the only potential source of X-rays. Keep an accurate high voltage meter available at all times. Check meter calibration periodically. Whenever servicing a receiver, check the high voltage at various brightness levels to be sure it is regulating properly. Keep high voltage at rated value, NO HIGHER. Excessive high voltage may cause X-ray radiation or failure of associated components. DO NOT depend on protection circuits to keep voltage at rated value. When troubleshooting a receiver with excessive high voltage, avoid close contact with the CRT. DO NOT operate the receiver longer than necessary. To locate the cause of excessive high voltage, use a variable AC transformer to regulate voltage. In present receivers, many electrical and mechanical components have safety related characteristics which are not detectable by visual inspection. Such components are identified by a # on both the schematic and the parts list. For SAFETY, use only equivalent replacement parts when replacing these components.

GENERAL GUIDELINES

Perform a final SAFETY CHECK before returning receiver to customer. Check repaired area for poorly soldered connections, and check entire circuit board for solder splashes. Check board wiring for pinched wires or wires contacting any high wattage resistors. Check that all control knobs, shields, covers, grounds, and mounting hardware have been replaced. Be sure to replace all insulators and restore proper lead dress.

The listing of any available replacement part herein in no case constitutes a recommendation, warranty, or guarantee by SAMS Technical Publishing, LLC as to the quality and suitability of such replacement part. The numbers of the listed parts have been compiled from information furnished to SAMS Technical Publishing, LLC by the manufacturers of the specific type of replacement part listed.

Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein.

© 2007 SAMS Technical Publishing, LLC

9850 E. 30th St.
Indianapolis IN 46229
www.samswebsite.com

Printed in the United States of America 5 4 3 2 1

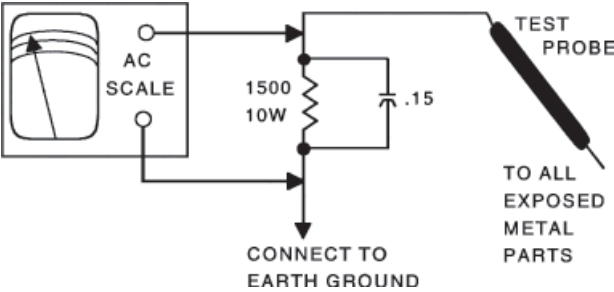
SAFETY CHECKS — FIRE AND SHOCK HAZARD

Cold Leakage Checks for Receivers with Isolated Ground

Unplug the AC cord, connect a jumper across the plug prongs, and turn the power switch on (if applicable). Use an ohmmeter to measure the resistance between the jumped AC plug and any exposed metal cabinet parts such as antenna screw heads, control shafts, or handle brackets. Exposed metal parts with a return path should measure between 1M ohms and 5.2M ohms. Parts without a return path must measure infinity.

Hot Leakage Current Check

Plug the AC cord directly into an AC outlet. DO NOT use an isolation transformer. Use a 1500 ohms, 10W resistor in parallel with a .15µF capacitor to connect between any exposed metal parts on the receiver and a good earth ground. (See figure below.) Use an AC voltmeter with at least 5000 ohms per volt sensitivity to measure the voltage across the resistor. Check all exposed metal parts and measure voltage at each point. Voltage measurements should not exceed .75VAC, 500µA. Any value exceeding this limit constitutes a potential shock hazard and must be corrected. If the AC plug is not polarized, reverse the AC plug and repeat exposed metal part voltage measurement at each point.



SET 5322

MODELS LN-T2642H/HC (CHASSIS GJA26MUS)

SAMSUNG

QUICKFACT™ FROM PHOTOFACT® LCD SERIES

INDEX

Miscellaneous Adjustments 1
Parts List 2
Placement Chart (Resistances) 2
Placement Chart (Voltages) 2
Power Supply Schematic 1
Safety Precautions 1
Schematic Component Location 2
Schematic Notes 1

For a Complete List of Manuals,
Visit www.samswebsite.com

5322

SAMSUNG Models LN-T2642H/HC (Chassis GJA26MUS)



Representative Model

Essential coverage
for servicing an LCD receiver...

- Miscellaneous adjustments
- Placement chart
- Parts list

Coverage includes these additional models and chassis:

Models	Chassis
LNT2642HX/XAA	GJA26MUS



NOVEMBER 2007 SET 5322

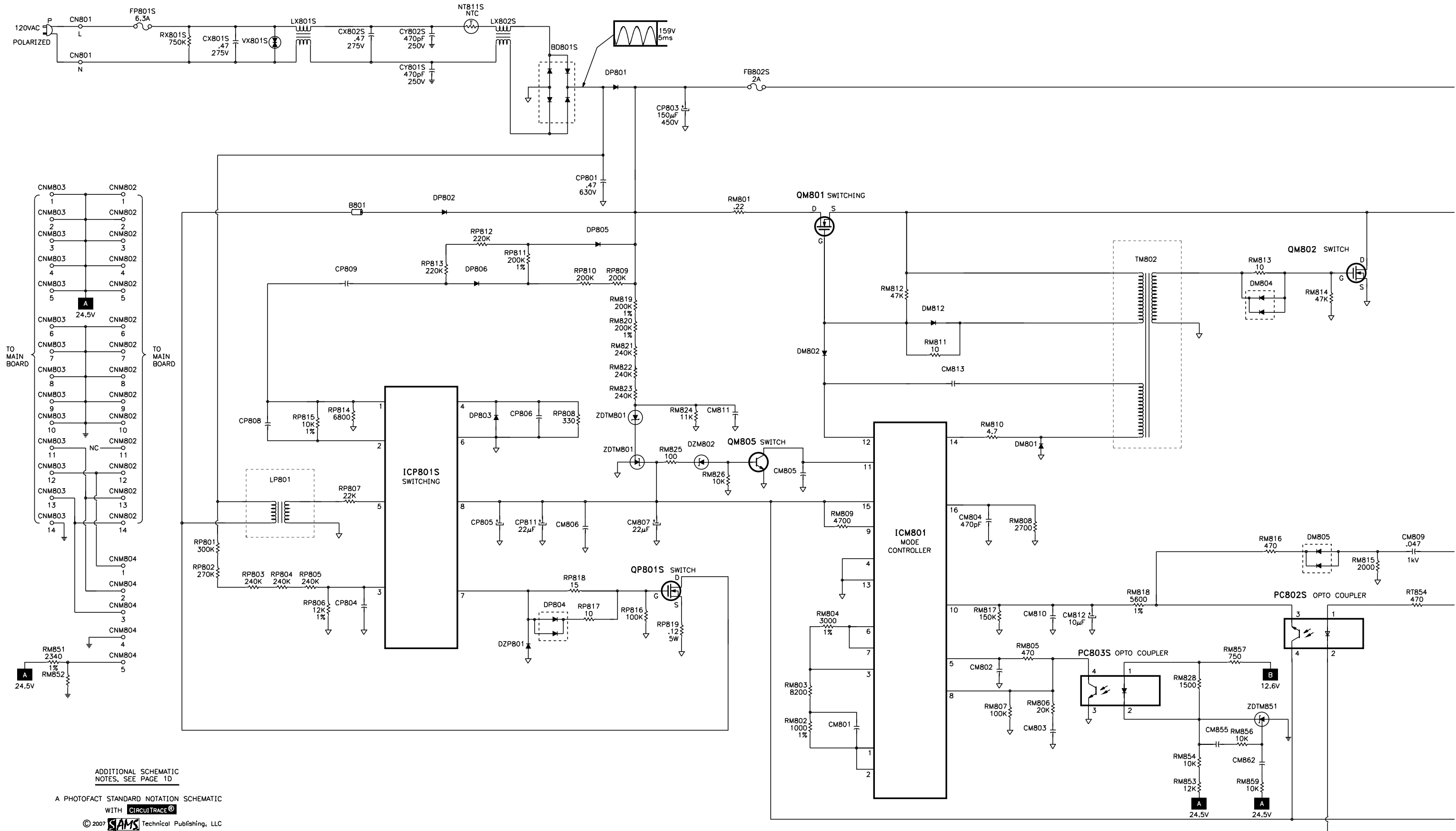
5322

5322



07FP006001

POWER SUPPLY SCHEMATIC



MISCELLANEOUS ADJUSTMENTS

NOTE: Avoid overloading set with excessive signal from video generators. Use correct impedance matching. Use an isolation transformer to protect against shock hazard.

ENTERING SERVICE MODE

To access the service mode using the remote control turn the set off. Press the remote buttons in the following order: power, mute, 1, 8, 2, and power without pause between button presses. The set will turn on and enter the service mode. Press the up/down buttons to move the selection cursor. Press the left/right buttons to change data value. Press menu button to save the data to EEPROM and return to the service mode. Press digit buttons to change channel. Press the TV/Video button to change AV mode. Press the power button to exit and save data to memory.

SERVICE MODE DISPLAY

T-JM26AUS0-2015
T-BP26AUS5-1000
ACL 28.20.2.1
RFS : T-JSMNAUS-20070302
2007-03-20
T-LEEUM-0401-JM26AUS2010

MODE : DTV, RES : 1080I

- 1.Calibration
- 2.Option Byte
- 3.White Balance
- 4.W/B Movie
- 5.Calibration Target
- 6.Calibration Value
- 7.MST3388
- 8.X242
- 9.X242 NTSC
- 10.FBE2
- 11.Sound
- 12.Dynamic Contrast
- 13.Checksum 0x0000
- 14.Reset

Main : 1.Calibration, MODE : DTV, RES: 1080I

AV Calibration	Success
Component Calibration	Success
PC Calibration	Success
HDMI Calibration	Success

Main : 2.Option Byte, MODE : DTV, RES: 1080I

Caption Level	ON
Watchdog Enable	ON
Spread Spectrum	1
Panel Option	26CMT
Dimming	INT
RS-232C	Debug
Gamma	Off
Panel Display Time	5Hr
Mute Time [RF]	600ms
CH Memory	SAMEX
Shop Mode	OFF
SUB MICOM DOWN	OFF

MAIN EPROM WP	ON
DDC WP	OFF
PC Mode Indent	Auto
HDMI Mode Indent	Auto
HPD Ctl Method	1
HPD Low Duration	900
Download RRT	OFF
7.5 IRE On/OFF	....
7.5 IRE Offset	....
HDMI Mute Time	1500
Hotel Mode	OFF
Hotel PowerKey	....

Main : 3.White Balance, MODE : DTV, RES: 1080I

Sub Brightness	128
R-Offset	519
G-Offset	512
B-Offset	518
Sub Contrast(FBE)	136
R-Gain	494
G-Gain	512
B-Gain	504

Main : 4.W/B Movie, MODE : DTV, RES: 1080I

W/B MOVIE On/Off	OFF
Mode
Color Tone
MSub Contrast
MSub Brightness
W1_Rgain
W1_BGain
W1_ROffset
W1_BOffset
W2_RGain
W2_BGain
W2_ROffset
W2_BOffset
NOR_RGain
NOR_BGain
NOR_ROffset
NOR_BOffset
C2_RGain
C2_BGain
C2_ROffset
C2_BOffset
Movie Contrast
Movie Brightness
Movie Color
Movie Sharpness

Main : 5.Calibration Target, MODE : DTV, RES: 1080I

1st_AV_Low	18
1st_AV_High	220
1st_AV_Delta	1
1st_COMP_Low	16
1st_COMP_High	235
1st_COMP_Delta	1

1st_PC_Low	4
1st_PC_High	235
1st_PC_Delta	1
2nd_AV_Low	1
2nd_AV_High	235
2nd_AV_Delta	1
2nd_COMP_Low	1
2nd_COMP_High	235
2nd_COMP_Delta	1
2nd_PC_Low	1
2nd_PC_High	235
2nd_PC_Delta	1
2nd_HDMI_Low	1
2nd_HDMI_High	235
2nd_HDMI_Delta	1

Main : 6.Calibration Value, MODE : DTV, RES: 1080I

LUMA_OFFSET	....
LUMA_GAIN	....
RED CUTOFF	....
GREEN CUTOFF	....
BLUE CUTOFF	....
RED GAIN	....
GREEN GAIN	....
BLUE GAIN	....
2nd_X242_R_L	137
2nd_X242_G_L	138
2nd_X242_B_L	137
2nd_X242_R_H	1077
2nd_X242_G_H	1075
2nd_X242_B_H	1077

7.MST3388

Factory set and not accessible.

Main : 8.X242, MODE : DTV, RES: 1080I

CHfilter	ss_CH02
CVfilter	Hardware
NR	....
UVNR	OFF
LTI-YEE	....
CTI-UYEE	....
YH_MAX	48
UVH_MAX	48
Color_Mid_Value	65
Th_1_2	52
Th_2_3	30
Th_3_4	20
Off_gain1080I	16
L_gain1080I	30
M_gain1080I	30
H_gain1080I	30
Auto_gain1080I	30

9.X242 NTSC

Factory set and not accessible.

Main : 10.FBE2, MODE : DTV, RES: 1080I

Patt-Sel	0
B-Slope gain	70
B-Tilt min	50
B-Tilt max	110
Lfunc-Basis	85
Hfunc-Basis	80
Mean-Offset1	50
Mean-Offset2	220
Mean-Slope	93
Input-offset	128
ACR-Offset	10
ACR-Th1	10
ACR-Th2	100
Skin-Enable	1
Skin-Tu	132
Skin-Tv	132
Sub color	138
MA-Skin-Tu	....
MA-Skin-Tv	....
M-Au-Sub color	....
MW- Skin-Tu	....
MW- Skin-Tv	....
M-Wi-Sub color	....

Main : 11.Sound, MODE : DTV, RES: 1080I

Carrier Mute	1
Stereo Pilot High	13
Stereo Pilot Low	7
Audio Delay	60
Spdif Delay	OFF
Melody Speak Vol.	5
Melody Hp Vol.	5
NTP_Amp Vol.	30
NTP_PWM Mod.	243
NTP_DRC Thresh.	12
NTP_Speaker EQ	ON

Main : 12.Dynamic Contrast, MODE : DTV, RES: 1080I

Dynamic CE	OFF
Dynamic Dimming	OFF
FBE2 Y_MEAN READ	247

Main : 13.Checksum, MODE : DTV, RES: 1080M

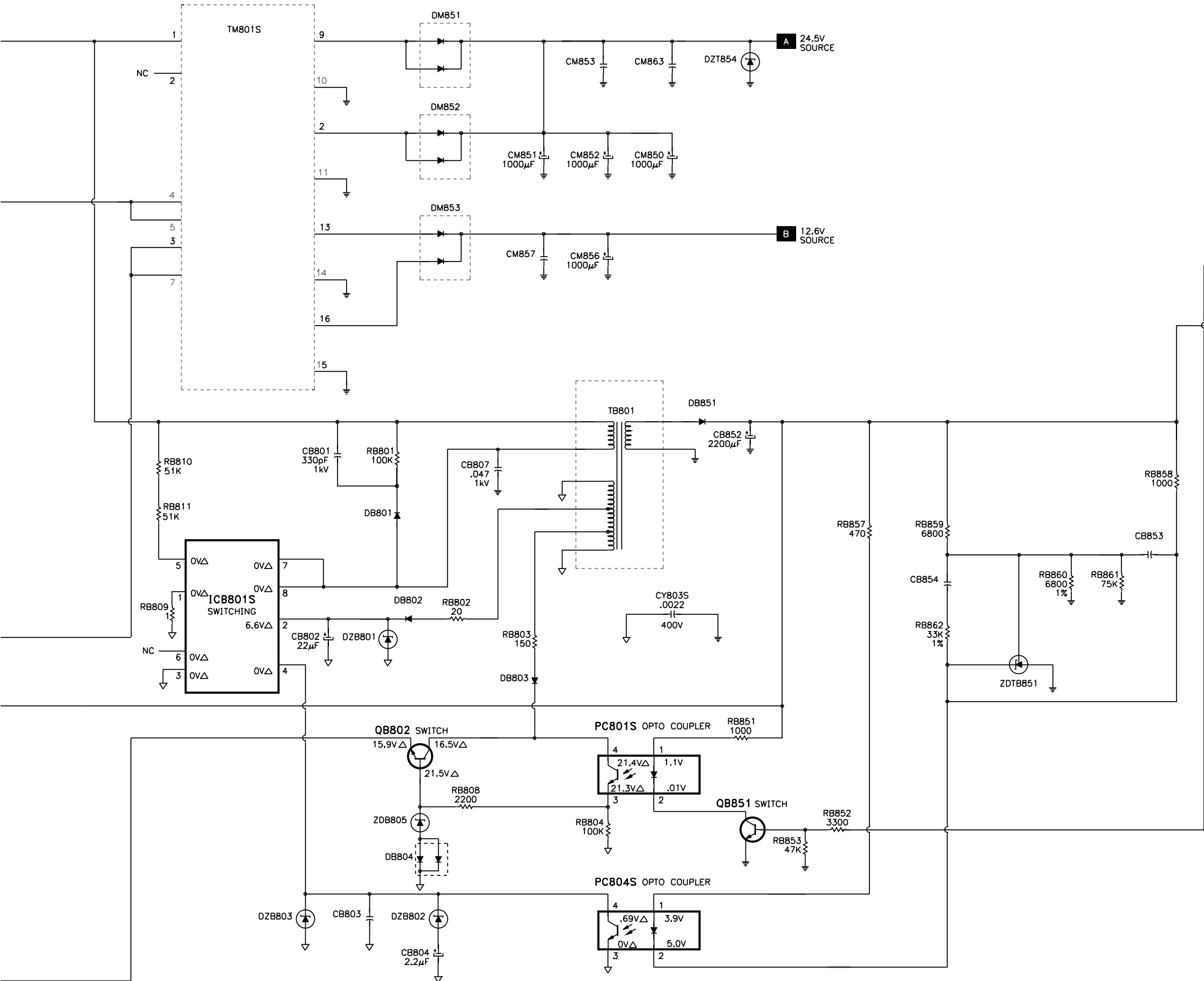
Checksum -

Main : 14.Reset, MODE : DTV, RES: 1080I

Reset -

C

POWER SUPPLY SCHEMATIC continued

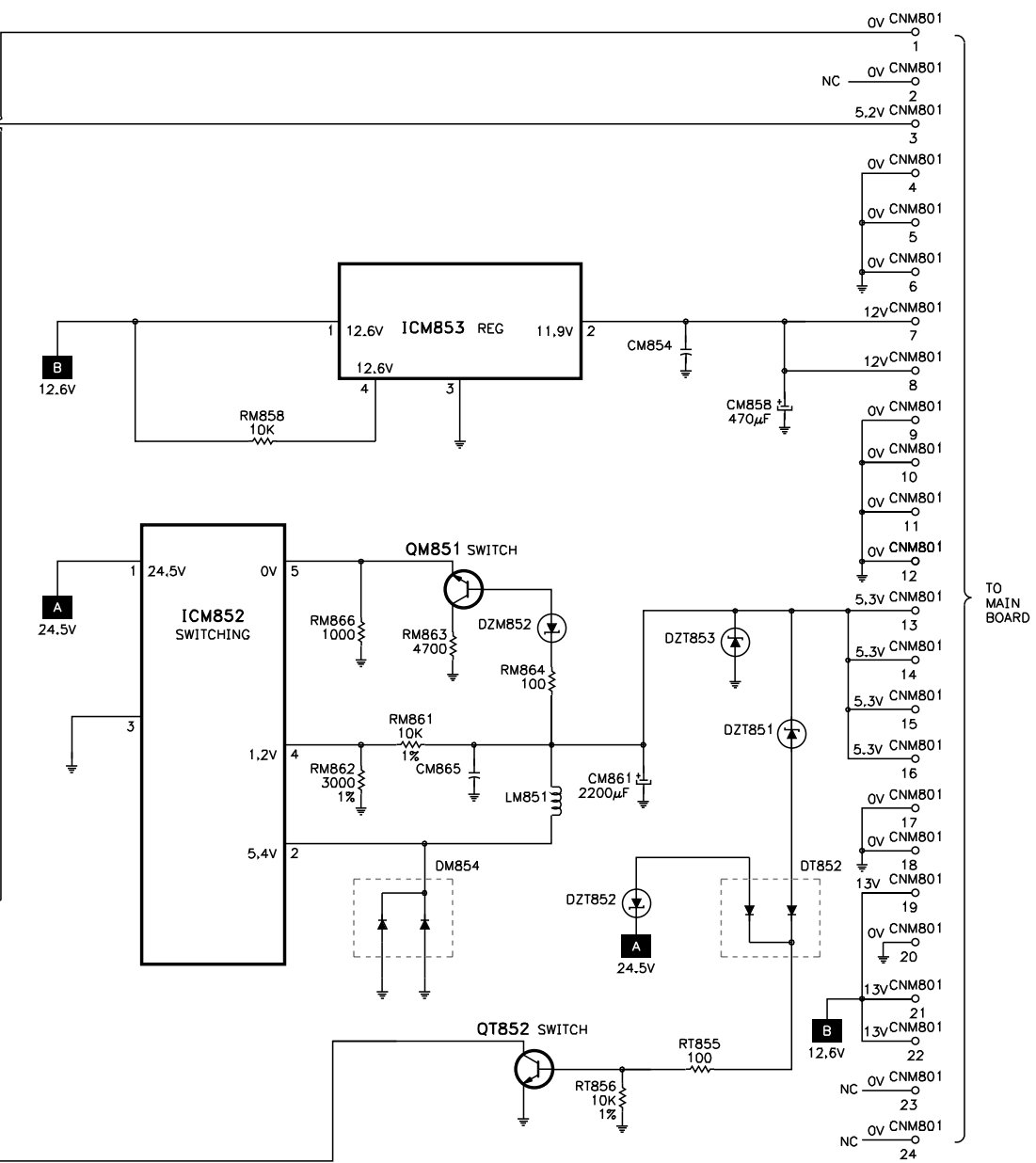


D

SCHEMATIC NOTES

- # For SAFETY use only equivalent replacement part, see parts list.
 - Circuitry not used in some versions.
 - Circuitry used in some versions.
 - ⊥ Ground
 - ⏏ Chassis ground
 - ⏏ Common tie point
 - ⏏ Taken from common tie point
 - 3 Schematic CIRCUITRACE® Voltage source tie point.
 - A Cabling: Heavy lines reduce use of multiple lines.
- Waveforms and voltages are taken from ground, unless otherwise noted.
Waveforms taken with triggered scope and colorbar signal.
Waveform voltage is peak to peak. Timebase is per division. Waveforms shown at 10 divisions.
Supply voltages maintained as seen at input.
Voltages measured with digital meter and a 1000μV RF signal, with colorbar pattern applied to antenna terminal.
Controls adjusted for normal operation.
Capacitors are 50 volts or less, 5% or greater unless noted.
Capacitor values are in microfarads unless noted.
Electrolytic capacitors are 50 volts or less, 20% or greater unless noted.
Resistors are less than 1W, 5% or greater unless noted.
Value in () used in some versions.
Measurements with switching as shown unless noted.
Rated voltage shown on zener diodes.

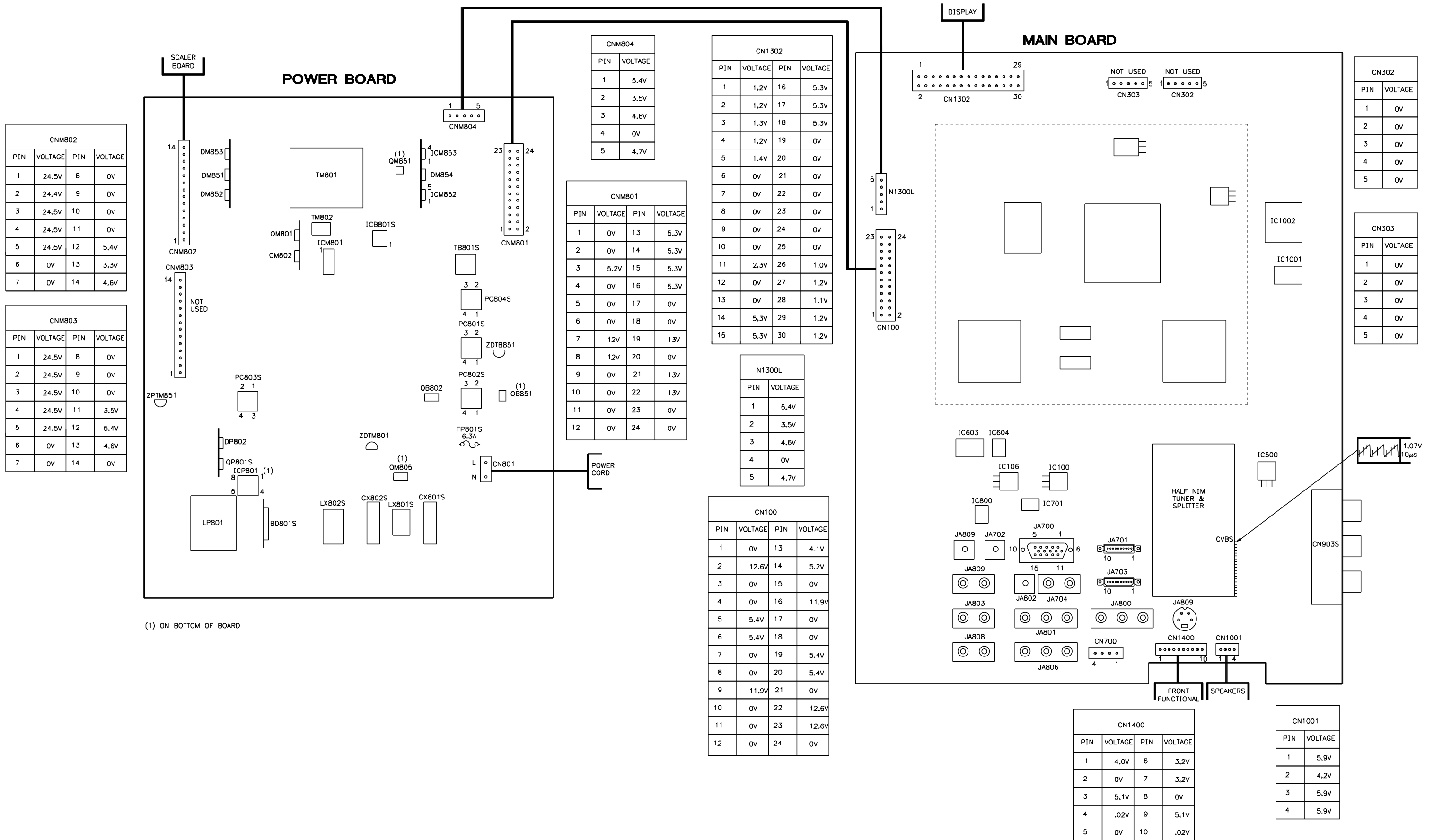
A PHOTOFAC STANDARD NOTATION SCHEMATIC
WITH CIRCUITRACE®
© 2007 SAMS Technical Publishing, LLC



SAMSUNG
MODELS LN-T2642H/HC (CHASSIS GJA26MUS)

TO MAIN BOARD

PLACEMENT CHART (VOLTAGES)

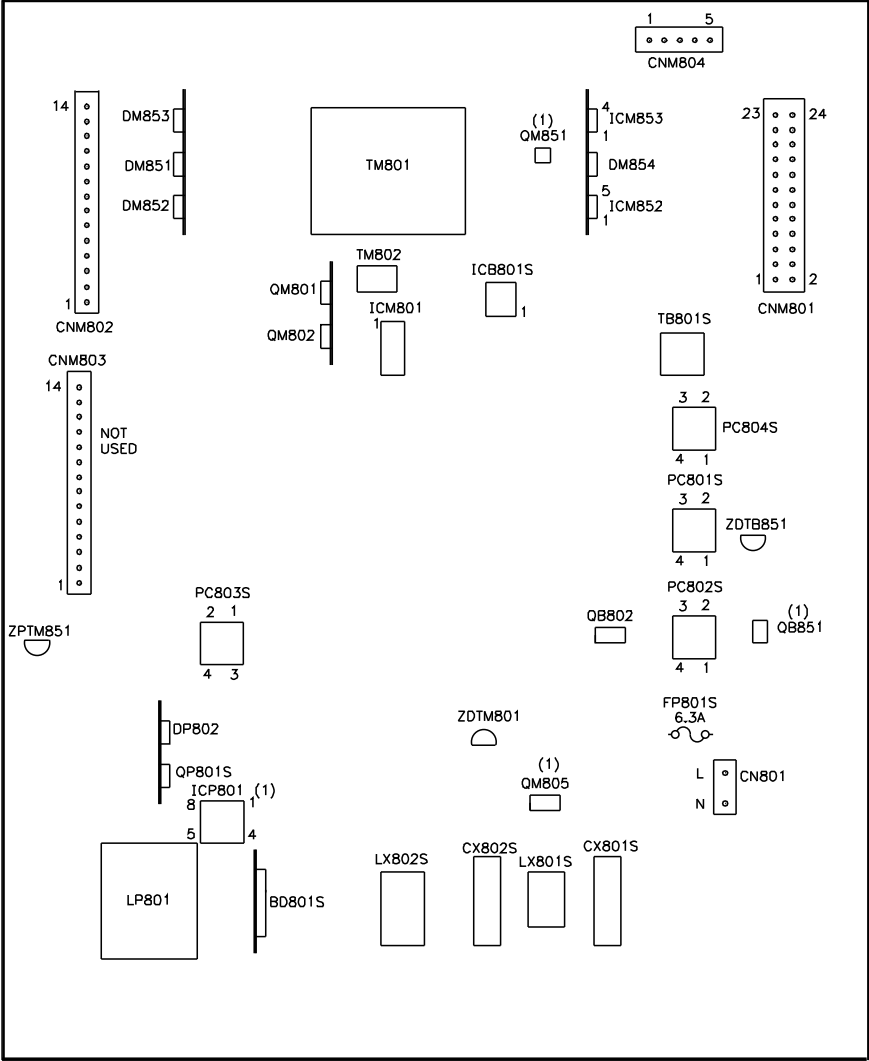


PLACEMENT CHART (RESISTANCES)

POWER BOARD

CNM802			
PIN	RES	PIN	RES
1	6.6K	8	0
2	6.1K	9	0
3	4.8K	10	0
4	4.9K	11	~
5	5.3K	12	~
6	0	13	~
7	0	14	~

CNM803			
PIN	RES	PIN	RES
1	7.9K	8	0
2	6.2K	9	0
3	3.2K	10	0
4	2.9K	11	~
5	3.6K	12	~
6	0	13	~
7	0	14	0



(1) ON BOTTOM OF BOARD
RESISTANCE TAKEN FROM GROUND ↓
~ INFINITE RESISTANCE

CNM804	
PIN	RES
1	~
2	~
3	~
4	0
5	1.5K

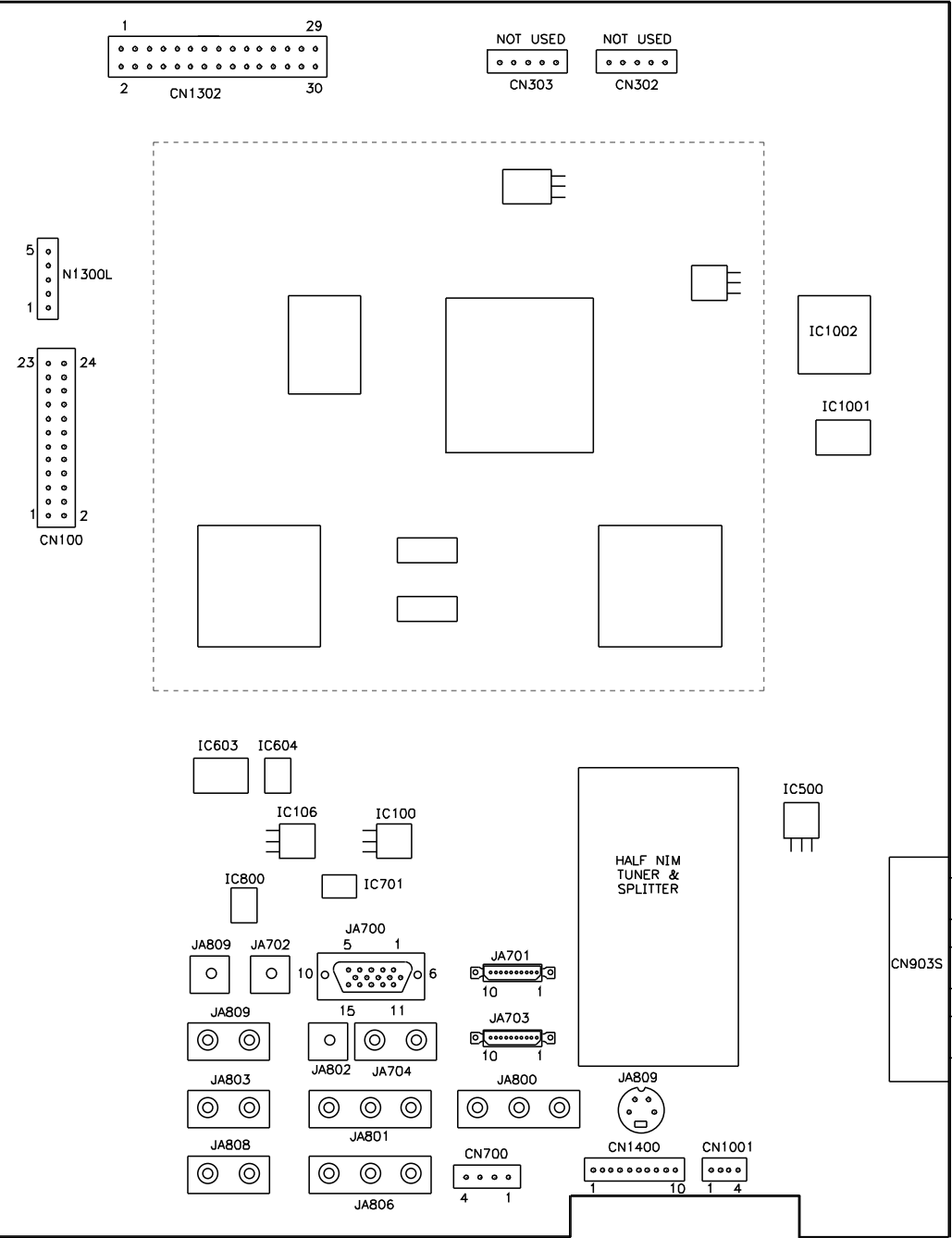
CNM801			
PIN	RES	PIN	RES
1	2.5K	13	2.5
2	~	14	2.5
3	3.5K	15	2.5
4	0	16	2.5
5	0	17	0
6	0	18	0
7	1.5K	19	18
8	1.5K	20	0
9	0	21	18
10	0	22	18
11	0	23	~
12	0	24	~

CN1302			
PIN	VOLTAGE	PIN	RES
1	1.6M	16	7.3K
2	1.6M	17	7.3K
3	1.6M	18	7.3K
4	1.6M	19	0
5	1.6M	20	~
6	1.6M	21	~
7	6.4M	22	~
8	~	23	~
9	0	24	1.6M
10	~	25	1.6M
11	4.7K	26	1.6M
12	0	27	1.6M
13	0	28	1.6M
14	7.7K	29	1.6M
15	7.3K	30	1.6M

N1300L	
PIN	RES
1	26.8K
2	0
3	~
4	490
5	~

CN100			
PIN	RES	PIN	RES
1	~	13	~
2	~	14	~
3	0	15	0
4	0	16	~
5	~	17	0
6	~	18	0
7	0	19	~
8	0	20	~
9	~	21	0
10	0	22	~
11	0	23	~
12	~	24	~

MAIN BOARD



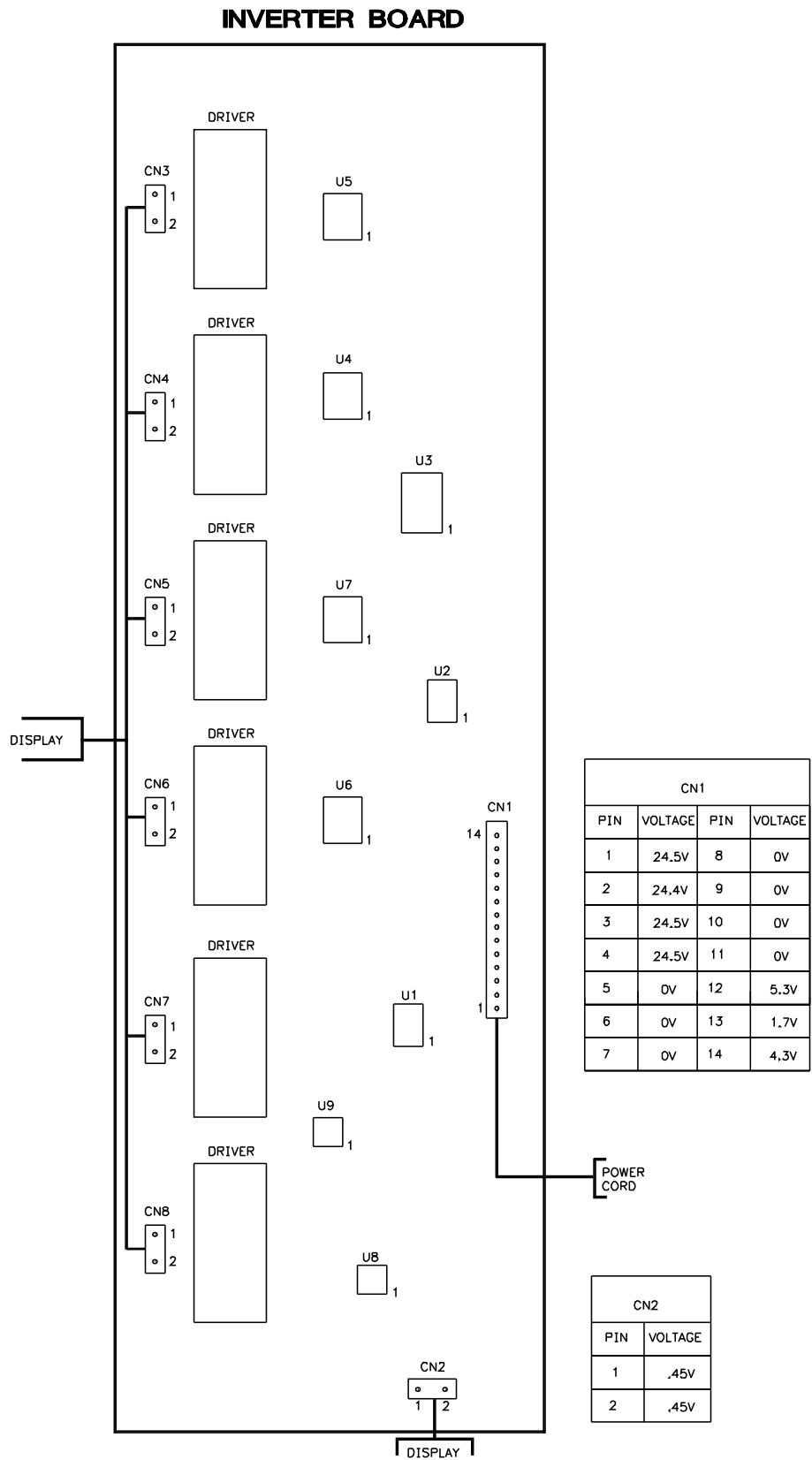
CN302	
PIN	RES
1	5.7K
2	5.7K
3	0
4	1.2K
5	11.2K

CN303	
PIN	RES
1	5.7K
2	5.7K
3	0
4	1.2K
5	11.2K

CN1400			
PIN	RES	PIN	RES
1	2.7M	6	11.2K
2	0	7	11.2K
3	12.2M	8	0
4	3.8M	9	~
5	~	10	19.4K

CN1001	
PIN	RES
1	4.6K
2	4.6K
3	4.6K
4	4.6K

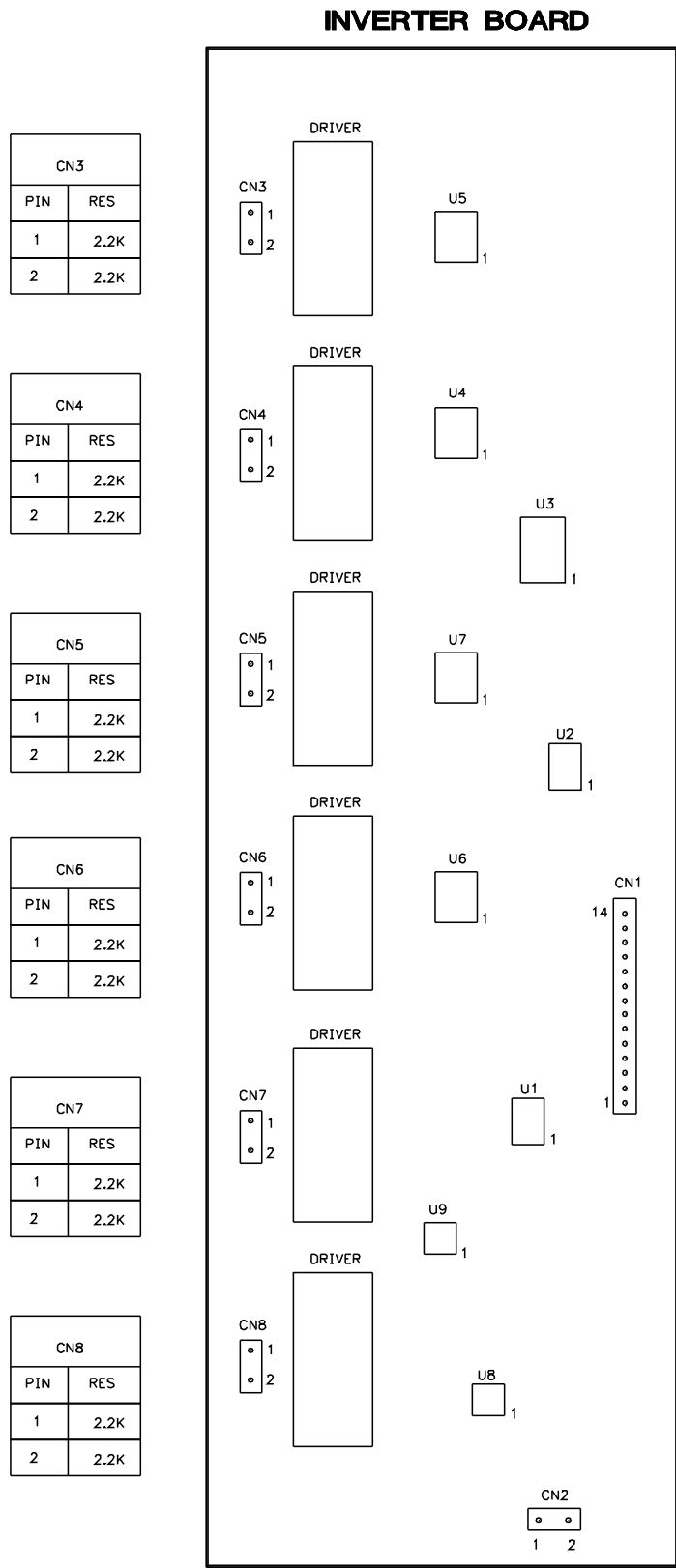
PLACEMENT CHART (VOLTAGES) *continued*



SCHEMATIC COMPONENT LOCATION GUIDE

B801	B2	CP806	C4	DZT854	A12	RB859	C12	RM859	E8
BD801S	A4	CP809	B2	FB802S	A5	RB860	D13	RM861	D15
CB801	C10	CP809	C2	FP801S	A1	RB861	D13	RM862	D15
CB802	D10	CP811	D4	ICB801	D9	RB862	D12	RM864	D15
CB803	E10	CX802	A3	ICM801	D6	RM801	B5	RM866	D15
CB804	E10	CX801S	A2	ICM852	D14	RM802	E5	RP801	D2
CB807	C11	CY802S	A3	ICM853	C15	RM803	E5	RP802	D2
CB852	C12	CY802S	A3	ICP801S	C3	RM804	D5	RP803	D2
CB853	D13	CY803S	D11	LM851	D15	RM805	D6	RP804	D2
CB854	D12	DB801	C10	LP801	C2	RM806	E6	RP805	D2
CM801	E5	DB802	D10	LX801S	A2	RM807	E6	RP806	D2
CM802	D6	DB803	D11	LX802S	A3	RM808	D6	RP807	D2
CM803	E6	DB804	E10	NT811S	A3	RM809	D5	RP808	C4
CM804	D6	DB851	C11	P	A1	RM810	C6	RP809	B4
CM805	C5	DM801	C6	PC801S	D11	RM811	C6	RP810	B4
CM806	D4	DM802	C5	PC802S	D8	RM812	B6	RP811	B3
CM807	D4	DM804	B8	PC803S	E7	RM813	B7	RP812	B3
CM809	D8	DM805	D8	PC804S	E11	RM814	B8	RP813	B3
CM810	D6	DM812	C6	QB802	D10	RM815	D8	RP814	C2
CM811	C5	DM851	A10	QB851	E12	RM816	D8	RP815	C2
CM812	D7	DM852	B10	QM801	B5	RM817	D6	RP816	D4
CM813	C6	DM853	B10	QM802	B8	RM818	D7	RP817	D4
CM850	B11	DM854	E15	QM805	C5	RM819	B4	RP818	D4
CM852	B11	DP801	A4	QM851	D15	RM820	C4	RP819	D4
CM853	A11	DP802	B3	QP801S	D4	RM821	C4	RT854	D8
CM854	C16	DP803	C3	QT852	E15	RM821	C5	RT855	E16
CM855	E7	DP804	D4	RB801	C10	RM822	C4	RT856	E15
CM856	B11	DP805	B4	RB802	D10	RM823	C4	RX801S	A2
CM857	B11	DP806	B3	RB803	D11	RM824	C4	TB801	C11
CM857	B11	DT852	E16	RB804	E11	RM825	C4	TM801S	A9
CM858	C16	DZB801	D10	RB808	E10	RM828	E7	TM802	B7
CM861	D15	DZB802	E10	RB809	D9	RM851	D1	VX801S	A2
CM862	E8	DZB803	E10	RB810	C9	RM852	E1	ZB805	E10
CM863	A11	DZM802	C4	RB811	C9	RM853	D15	ZDTB851	D13
CM865	D15	DZM852	D15	RB851	D12	RM853	E7	ZDTM801	C4
CP801	B4	DZP801	D3	RB852	E12	RM854	E7	ZDTM851	E8
CP803	A4	DZT851	D16	RB853	E12	RM856	E7		
CP804	D3	DZT852	E15	RB857	C12	RM857	D7		
CP805	D3	DZT853	D16	RB858	C13	RM858	C14		

PLACEMENT CHART (RESISTANCES) continued



PARTS LIST

Item No.	Type No.	Mfr. Part No.	Notes
BD801S	TS4B05G	-	-
DB801	GP15M	-	-
DB802	1N4007	-	-
DB804	B3	-	-
DM803, 04, 05	B3	-	-
DM851, 52, 53	YG865C10	-	-
DM854	MBRF1545CT	-	-
DP802	YG972S6	-	-
DP804	B3	-	-
DT852	B3	-	-
DZB801	Y11	-	-
DZB802	5.1Y	-	-
DZB805	15Y	-	-
DZM801	36Z	-	-
DZM852	6.2Y	-	-
DZP801	10Y	-	-
DZT851	6.2Y	-	-
DZT852	Y10	-	-
ICB801S	A6159	-	-
ICM801	MC33067P	-	-
ICM852	1501A	-	-
ICM853	KIA278R12PI	-	-
PC801S	P421	-	-
PC802S, 03S	817B	-	-
PC804S	P421	-	-
QB802	2SD1347	-	-
QB851	ZG	-	-
QM801, 02	11N50CF	-	-
QM805, 51	ZG	-	-
QP801S	11N60C3	-	-
QT852	ZG	-	-
ZDTB851	KIA431A	-	-
ZDTM801, 51	KIA431A	-	-
Item No.	Function/Rating	Mfr. Part No.	Notes
FB802S	Fuse	-	2Amp, 250V
FP801S	Fuse	-	6.3Amp, 250V
	PC Board	-	Main, BN97-01389H
	PC Board	-	Power, BN44-00156A
	PC Board	-	Scaler, VK88070N03

For SAFETY use only equivalent replacement part.



LCD-TV

Chassis	Model
GJA23MUS	LN-T2332H
GJA26MUS	LN-T2632H
GJA32MUS	LN-T3232H
GJA37MUS	LN-T3732H
GJA40MUS	LN-T4032H

SERVICE Manual

LCD TV



Fashion Feature

- RF, DVI-D, PC(Analog), Component, Video, S-Video
- Brightness : 500cd/m²
- Contrast Ratio : 23"/26" => 3000:1,
32"/37"/40" => 5000:1
- Response time : 8ms
- Dynamic contrast
- PIP (on PC only)

Copyright

©2007 by Samsung Electronics Co., Ltd.

All rights reserved.

This manual may not, in whole or in part, be copied, photocopied, reproduced, translated, or converted to any electronic or machine readable form without prior written permission of Samsung Electronics Co., Ltd.

LN-T2332H/LN-T2632H/LN-T3232H/LN-T3732H/
LN-T4032H Service Manual

First edition March 2007.

Printed in Korea.

Trademarks

Samsung is the registered trademark of Samsung Electronics Co., Ltd.

LN-T2332H/LN-T2632H/LN-T3232H/LN-T3732H/
LN-T4032H and MacMaster Cable Adapter are
trademarks of Samsung Electronics Co., Ltd.

Macintosh, Power Macintosh are trademarks of Apple Computer, Inc.

All other trademarks are the property of their respective owners.

Contents

1	Precautions	1-1
1-1	Safety Precautions	1-1
1-2	Servicing Precautions	1-2
1-3	Electrostatically Sensitive Devices (ESD) Precautions	1-2
1-4	Installation Precautions	1-3
2	Product specifications	2-1
2-1	Features	2-1
2-2	Specifications	2-2
2-3	Spec Comparison	2-3
2-4	Option Specification	2-4
3	Alignments and Adjustments	3-1
3-1	General Alignment Instruction	3-1
3-2	Factory Mode Adjustments	3-2
3-3	White Balance - Calibration	3-9
3-4	White Ratio (Balance) Adjustment	3-10
3-5	Servicing Information	3-11
4	Troubleshooting	4-1
4-1	No Power	4-1
4-2	No Video (Analog PC Signal)	4-2
4-3	No Video (HDMI - Digital Signal)	4-4
4-4	No Picture (Tuner_CVBS)	4-6
4-5	No Picture (Tuner DTV TS)	4-8
4-6	No Picture (Video CVBS)	4-10
4-7	No Picture (S-Video Y/C)	4-11
4-8	No Picture (Component1, 2 : 480i, 480p, 720p, 1080i[Y, Pb, Pr])	4-13
4-9	No Sound	4-15
5	Exploded View and Parts List	5-1
5-1	LNT2332H Exploded View	5-1
5-2	LNT2332H Parts list	5-2
5-3	LNT2632H Exploded View	5-3
5-4	LNT2632H Parts list	5-4
5-5	LNT3232H Exploded View	5-5
5-6	LNT3232H Parts list	5-6
5-7	LNT3732H Exploded View	5-7
5-8	LNT3732H Parts list	5-8
5-9	LNT4032H Exploded View	5-9
5-10	LNT4032H Parts list	5-10

Contents

6	Electrical Parts List	6-1
6-1	LNT2332HX Parts List	6-1
6-2	LNT2632HX Parts List	6-22
6-3	LNT3232HX Parts List	6-43
6-4	LNT3732HX Parts List	6-64
6-5	LNT4032HX Parts List	6-83
7	Block Diagram	7-1
8	Wiring Diagram	8-1
8-1	Wiring Diagram	8-1
9	Schematic Diagrams	9-1
10	Operating Instructions and Installation	10-1
10-1	Front	10-1
10-2	Connection Panel	10-2
10-3	Remote Control	10-3
11	Disassembly and Reassembly	11-1
11-1	Disassembly	11-1
11-2	Reassembly	11-6
12	Schematic Diagram	12-1
12-1	Main PCB Diagram	12-1
12-2	Power PCB Layout 23"	12-2
12-3	Power PCB Layout 26"	12-3
12-4	Power PCB Layout 32"	12-4
12-5	Power PCB Layout 37"	12-5
12-6	Power PCB Layout 40"	12-6
13	Circuit Descriptions	13-1
13-1	Block description	13-1
14	Reference Information	14-1
14-1	Technical Terms	14-1
14-2	Pin Assignments	14-4
14-3	Timing Chart	14-6

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*).

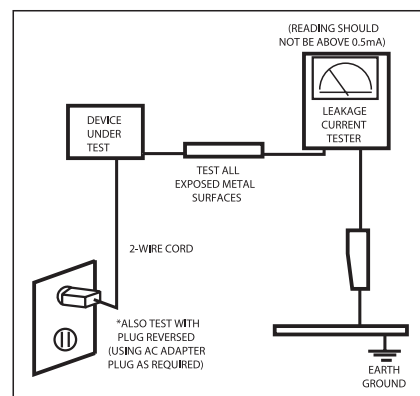


Figure 1-1. Leakage Current Test Circuit

4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

1-1-4 Product Safety Notices

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

1-2 Servicing Precautions

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

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

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

1-2-1 General Servicing Precautions

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

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

1-3 Electrostatically Sensitive Devices (ESD) 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. 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 securely. Contact with the highvoltage 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 Features

- RF, HDMI(DVI-D), PC(Analog), Component, Video, S-Video
- Brightness : 500cd/m²
- Contrast Ratio : 23"/26" => 3000:1, 32"/37"/40" => 5000:1
- Response time : 8ms
- Dynamic contrast
- PIP (on PC only)

2-2 Specifications

2-2-1 LNT2332H Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally white, 23-Inch viewable, 0.4215 (H) x 0.4215(V)mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 61 kHz (Automatic) / Vertical : 60 Hz ~ 75 Hz (Automatic)	
Display Colors	16.7 Million colors	
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 HV Level : TTL level	
Maximum Pixel Clock rate	80 MHz	
Active Display Horizontal/Vertical	20 inches / 11.25 inches	
AC power voltage & Frequency	AC 110 , 60Hz	
Power Consumption	< 100 W (< 1W, stand by)	
Dimensions(W x D x H) Set	26.5 x 3.1 x 16.1 inches_without stand 26.5 x 8.9 x 18.3 inches_with stand	
Weight Body Set(After installation Stand)	6.4kg (14.1 lbs_without stand) 8.0kg (17.6 lbs_with stand)	
TV System	Tuning	Frequency Synthesize
	System	ATSC, NTSC
	Sound	MONO, STEREO, SAP
Environmental Considerations	Operating Temperature : 10°C ~ 40°C Operating Humidity : 10 % ~ 80 %, non-condensing Storage Temperature : -20°C ~ 45°C Storage Humidity : 5 % ~ 95 %, non-condensing	
Antenna Input	75 Ω	
Sound Characteristic	- MAX Internal speaker Out : Right => 3W, Left => 3W - 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 AV : 80 Hz ~ 20 kHz	

2-2-2 LNT2632H Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normaly white, 26-Inch viewable, 0.4215 (H) x 04215 (V)mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 61 kHz (Automatic) / Vertical : 60 Hz ~ 75 Hz (Automatic)	
Display Colors	16.7 Million colors	
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	22.79inches / 12.83 inches	
AC power voltage & Frequencya	AC 110 , 60Hz	
Power Consumption	< 130 W (< 1W, stand by)	
Dimensions(W x D x H) Set	29.7 x 3.1 x 18.3 inches_without stand 29.7 x 8.9 x 20.4 inches_with stand	
Weight Body Set(After installation Stand)	9.1kg(20.06 lbs_without stand) 10.7kg(23.6 lbs_with stand)	
TV System	Tuning	Frequency Synthesize
	System	ATSC, NTSC
	Sound	MONO, STEREO, SAP
Environmental Considerations	Operating Temperature : 10°C ~ 40°C Operating Humidity : 10 % ~ 80 %, non-condensing Storage Temperature : -20°C ~ 45°C Storage Humidity : 5 % ~ 95 %, non-condensing	
Antenna Input	75 Ω	
Sound Characteristic	- MAX Internal speaker Out : Right => 3W, Left => 3W - 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 AV : 80 Hz ~ 20 kHz	

2 Product Specifications

2-2-3 LNT3232H Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally white, 32-Inch viewable, 0.51075 (H) x 0.51075(V)mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 61 kHz (Automatic) / Vertical : 60 Hz ~ 75 Hz (Automatic)	
Display Colors	16.7 Million colors	
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	27.47 inches / 36.7 inches	
AC power voltage & Frequencya	AC 110 , 60Hz	
Power Consumption	< 170W (< 1W, stand by)	
Dimensions(W x D x H) Set	35.1 x 3.2 x 21.4 inches_without stand 35.1 x 9.8 x 24.2 inches_with stand	
Weight Body Set(After installation Stand)	9.9kg(21.83 lbs_without stand) 13.9kg(30.6 lbs_with stand)	
TV System	Tuning	Frequency Synthesize
	System	ATSC, NTSC
	Sound	MONO, STEREO, SAP
Environmental Considerations	Operating Temperature : 10°C ~ 40°C Operating Humidity : 10 % ~ 80 %, non-condensing Storage Temperature : -20°C ~ 45°C Storage Humidity : 5 % ~ 95 %, non-condensing	
Antenna 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 AV : 80 Hz ~ 20 kHz	



2-2-4 LNT3732H Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally white, 37-Inch viewable, 0.648 (H) x 0.648(V)mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 61 kHz (Automatic) / Vertical : 60 Hz ~ 75 Hz (Automatic)	
Display Colors	16.7 Million colors	
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 HV Level : TTL level	
Maximum Pixel Clock rate	80 MHz	
Active Display Horizontal/Vertical	32.27inches / 18.14 inches	
AC power voltage & Frequency	AC 110 , 60Hz	
Power Consumption	< 180 W (< 1W, stand by)	
Dimensions(W x D x H) Set	40.4 x 3.7 x 24.6 inches_without stand 40.4 x 13 x 27.5 inches_with stand	
Weight Body Set(After installation Stand)	18.5kg(40.78 lbs_without stand) 22.5kg(49.6 lbs_with stand)	
TV System	Tuning	Frequency Synthesize
	System	ATSC, NTSC
	Sound	MONO, STEREO, SAP
Environmental Considerations	Operating Temperature : 10°C ~ 40°C Operating Humidity : 10 % ~ 80 %, non-condensing Storage Temperature : -20°C ~ 45°C Storage Humidity : 5 % ~ 95 %, non-condensing	
Antenna Input	75 Ω	
Sound Characteristic	- MAX Internal speaker Out : Right => 7.5 W, Left => 7.5 W - 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 AV : 80 Hz ~ 20 kHz	


2-2-5 LNT4032H 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 : 60 Hz ~ 75 Hz (Automatic)	
Display Colors	16.7 Million colors	
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 HV Level : TTL level	
Maximum Pixel Clock rate	80 MHz	
Active Display Horizontal/Vertical	34.85 inches / 19.57 inches	
AC power voltage & Frequencya	AC 110 , 60Hz	
Power Consumption	< 195 W (< 1W, stand by)	
Dimensions(W x D x H) Set	43.3 x 3.7 x 26 inches_without stand 43.3 x 13 x 28.8 inches_with stand	
Weight Body Set(After installation Stand)	19.7kg(43.43 lbs_without stand) 23.7kg(52.2 lbs_with stand)	
TV System	Tuning	Frequency Synthesize
	System	ATSC, NTSC
	Sound	MONO, STEREO, SAP
Environmental Considerations	Operating Temperature : 10°C ~ 40°C Operating Humidity : 10 % ~ 80 %, non-condensing Storage Temperature : -20°C ~ 45°C Storage Humidity : 5 % ~ 95 %, non-condensing	
Antenna Input	75 Ω	
Sound Characteristic	- MAX Internal speaker Out : Right =>7.5W, Left => 7.5W - 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 AV : 80 Hz ~ 20 kHz	

2-3 Spec Comparison

Model	LNT2332H / LNT2632H/ LNT3232H / LNT3732H / LNT4032H	LN-S2651D / LN-S3251D / LN-S4051D / LN-S2652D / LN-S3252D / LN-S4052D
Design		
Frequency Horizontal Vertical Display Color	30 ~ 61 kHz 60 ~ 75 Hz 16,777,216 colors	30 ~ 61 kHz 60 ~ 75 Hz 16,777,216 colors
PC Resolution Maximum mode	1360 x 768 / 60 Hz	1360 x 768 / 60 Hz
Input Signal Sync Signal Video Signal	H/V Separate, TTL, P. or N. 0.7 Vp-p @ 75ohm	H/V Separate, TTL, P. or N. 0.7 Vp-p @ 75ohm
Power Consumption Normal Power Saving	100W/130W/170W/180W/195W <1W	133W / 165W / 218W < 1W
Input source Difference	2HDMI	2HDMI
PIP	PIP(PC Only)	PIP, POP
Sound	3W / 5W/ 7.5W	3W / 5W / 10W

2-4 Option Specification

Item	Item Name	Code.No	Remark
	Remote Control & Batteries (AAA x 2)	BN59-00598A	
	Power Cord	3903-000144	
	Cover-Bottom	BN63-03093A	
	Stand	BN96-03192A(23"/26") BN96-03698B(32") BN96-03697B(37"/40")	
	Stand Screw (4 ea)	6002-001294	
	Owner's Instructions	BN68-01250A	
	Cleaning Cloth	BN63-01798A	
	Warranty Card / Registration Card / Safety Guide Manual (Not available in all locations)	BN63-00860A	

3 Alignments and Adjustments

3-1 General Alignment Instruction

1. Usually, a color LCD-TV 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 transformer.

3-2 Factory Mode Adjustments

3-2-1 Entering Factory Mode

To enter 'Service Mode' Press the remote -control keys in this sequence :

- If you do not have Factory remote - control



3-2-2 How to Access Service Mode

Using the Customer Remote

1. Turn the power off and set to stand-by mode
2. Press the remote buttons in this order; POWER OFF-MUTE-1-8-2-POWER ON to turn the set on.
3. The set turns on and enters service mode.
4. Press the Power button to exit and store data in memory.
 - If you fail to enter service mode, repeat steps 1 and 2 above.
5. Initial SERVICE MODE DISPLAY State

1. Calibration	
2. Option Byte	
3. White Balance	
4. W/B Movie	T-SC37AUSC-1004
5. Calibration Target	T-SC37AUSM-1002
6. Calibration Value	ACL 28.20.2.1
7. MST3388	RFS:T-SC37AUSC-20070228
8. X242	2007-03-05
9. X242 NTSC	DTP-LO-0022
10. FBE2	
11. Sound	
12. Dynamic Contrast	
13. Checksum 0x0000	
14. Reset	

6. Buttons operations withn Service Mode

KEY	FUNCTION
▲ / ▼	Item selection by moving the cursor
◀ / ▶	Data Increase/Decrease for the selected Item
MENU	Save set Data to EEPROM and go upper mode
DIGIT	Change channel
TV/VIDEO	Change AV mode

3-2-3 Factory Data

1.Calibration	
2.Option Byte	
3.White Balance	
4.W/B Movie	
5.Calibration Target	T-SC37AUSC-1004
6.Calibration Value	T-SC37AUSM-1002
7.MST3388	ACL 28.20.2.1
8.X242	RFS:T-SC37AUSC-20070228
9.X242 NTSC	2007-03-05
10.FBE2	DTP-LO-0022
11.Sound	
12.Dynamic Contrast	
13.Checksum 0x0000	
14.Reset	

AV Calibration
Comp Calibration
PC Calibration
Hdmi Calibration

1.Calibration	
2.Option Byte	
3.White Balance	
4.W/B Movie	
5.Calibration Target	T-SC37AUSC-1004
6.Calibration Value	T-SC37AUSM-1002
7.MST3388	ACL 28.20.2.1
8.X242	RFS:T-SC37AUSC-20070228
9.X242 NTSC	2007-03-05
10.FBE2	DTP-LO-0022
11.Sound	
12.Dynamic Contrast	
13.Checksum 0x0000	
14.Reset	

Factory Name	RF	DTV	AV/ SVIDEO	COMP	PC	HDMI
Caption Level	On					
Watchdog enable	On					
Spread Spectrum	1	1	0	0	1	0
Panel Option	26AU					
Dimming	EXT_PWM					
RS-232C	Debug					
Gamma	0					
Panel Display Time	XX Hr					
Mute Time[RF]	600mS					
CH Memory	SAMEX					
Shop Mode	OFF					
SUB MICOM DOWN	OFF					
MAIN EEPROM WP	OFF					
DDC WP	OFF					
PC Mode Ident	Auto					
HDMI Mode Ident	Auto					
HPD Ctl Method	1					
HPD Low Duration	900ms					
Download RRT	OFF					
7.5 IRE On/Off	On					
7.5 IRE Offset	60					
HDMI Mute Time	1500					

3 Alignments and Adjustments

1.Calibration	
2.Option Byte	
3.White Balance	
4.W/B Movie	
5.Calibration Target	T-SC37AUSC-1004
6.Calibration Value	T-SC37AUSM-1002
7.MST3388	ACL 28.20.2.1
8.X242	RFS:T-SC37AUSC-20070228
9.X242 NTSC	2007-03-05
10.FBE2	DTP-LO-0022
11.Sound	
12.Dynamic Contrast	
13.Checksum 0x0000	
14.Reset	

Sub Brightness	128
R-Offset	512
G-Offset	512
B-Offset	512
Sub Contrast	128
R-Gain	512
G-Gain	512
B-Gain	512

1.Calibration	
2.Option Byte	
3.White Balance	
4.W/B Movie	
5.Calibration Target	T-SC37AUSC-1004
6.Calibration Value	T-SC37AUSM-1002
7.MST3388	ACL 28.20.2.1
8.X242	RFS:T-SC37AUSC-20070228
9.X242 NTSC	2007-03-05
10.FBE2	DTP-LO-0022
11.Sound	
12.Dynamic Contrast	
13.Checksum 0x0000	
14.Reset	

W/B Movie On/Off	on	NOR_RGain	7
Mode	Dynamic	NOR_BGain	-11
Color Tone	Cool1	NOR_ROffset	-2
MSub Brightness	128	NOR_BOffset	2
MSub Contrast	128	C2_RGain	-32
W1_RGain	19	C2_BGain	22
W1_BGain	-26	C2_ROffset	5
W1_ROffset	-1	C2_BOffset	1
W1_BOffset	4	Movie Contrast	70
W2_RGain	49	Movie Bright	50
W2_BGain	-43	Movie Color	25
W2_ROffset	-4	Movie Sharpness	45
W2_BOffset	4		

1.Calibration	T-SC37AUSC-1004 T-SC37AUSM-1002 ACL 28.20.2.1 RFS:T-SC37AUSC-20070228 2007-03-05 DTP-LO-0022
2.Option Byte	
3.White Balance	
4.W/B Movie	
5.Calibration Target	
6.Calibration Value	
7.MST3388	
8.X242	
9.X242 NTSC	
10.FBE2	
11.Sound	
12.Dynamic Contrast	
13.Checksum 0x0000	
14.Reset	

1st_AV_Low	18	2nd_AV_High	235
1st_AV_High	220	2nd_AV_Delta	1
1st_AV_Delta	1	2nd_COMP_Low	1
1st_COMP_Low	16	2nd_COMP_High	235
1st_COMP_High	235	2nd_COMP_Delta	1
1st_COMP_Delta	1	2nd_PC_Low	1
1st_PC_Low	4	2nd_PC_High	235
1st_PC_High	235	2nd_PC_Delta	1
1st_PC_Delta	1	2nd_HDMI_Low	1
2nd_AV_Low	1	2nd_HDMI_High	235
		2nd_HDMI_Delta	1

1.Calibration	T-SC37AUSC-1004 T-SC37AUSM-1002 ACL 28.20.2.1 RFS:T-SC37AUSC-20070228 2007-03-05 DTP-LO-0022
2.Option Byte	
3.White Balance	
4.W/B Movie	
5.Calibration Target	
6.Calibration Value	
7.MST3388	
8.X242	
9.X242 NTSC	
10.FBE2	
11.Sound	
12.Dynamic Contrast	
13.Checksum 0x0000	
14.Reset	

LUMA_OFFSET	501
LUMA_GAIN	582
RED CUTOFF	-
GREEN CUTOFF	-
BLUE OFFSET	-
RED GAIN	-
GREEN GAIN	-
BLUE GAIN	-
2nd_X242_R_L	134
2nd_X242_G_L	134
2nd_X242_B_L	134
2nd_X242_R_H	1150
2nd_X242_G_H	1150
2nd_X242_B_H	1150

3 Alignments and Adjustments

1.Calibration	
2.Option Byte	
3.White Balance	
4.W/B Movie	
5.Calibration Target	T-SC37AUSC-1004
6.Calibration Value	T-SC37AUSM-1002
7.MST3388	ACL 28.20.2.1
8.X242	RFS:T-SC37AUSC-20070228
9.X242 NTSC	2007-03-05
10.FBE2	DTP-LO-0022
11.Sound	
12.Dynamic Contrast	
13.Checksum 0x0000	
14.Reset	

RED CUTOFF	126	HSOPW	24
GREEN CUTOFF	93	SYNC_CTRL	64
BLUE CUTOFF	125	SOGMID_CTRL	189
PHASE_CC	0	SEP_THR	32
RED GAIN	200	PRECST	4
GREEN GAIN	200	POSTCST	14
BLUE GAIN	200	ADC_BW0	68
PLLDIV	858	ADC_BW1	4
PLL_GAIN	1	RDOFFSC	120
CLPDLY	8	GDOFFSC	0
CLPDUR	8	BDOFFSC	10

1.Calibration	
2.Option Byte	
3.White Balance	
4.W/B Movie	
5.Calibration Target	T-SC37AUSC-1004
6.Calibration Value	T-SC37AUSM-1002
7.MST3388	ACL 28.20.2.1
8.X242	RFS:T-SC37AUSC-20070228
9.X242 NTSC	2007-03-05
10.FBE2	DTP-LO-0022
11.Sound	
12.Dynamic Contrast	
13.Checksum 0x0000	
14.Reset	

CH filter	ss_CH01
CV filter	Hardware
NR	ON
UVNR	OFF
LTI-YEE	ON
CTI-UVEE	ON
YH_MAX	128
YH_Edge	4096
YH_MIN	128
UVH_MAX	255
UVH_Edge	300
UVH_MIN	8
Color_Mid_Value	50

1.Calibration	T-SC37AUSC-1004 T-SC37AUSM-1002 ACL 28.20.2.1 RFS:T-SC37AUSC-20070228 2007-03-05 DTP-LO-0022
2.Option Byte	
3.White Balance	
4.W/B Movie	
5.Calibration Target	
6.Calibration Value	
7.MST3388	
8.X242	
9.X242 NTSC	
10.FBE2	
11.Sound	
12.Dynamic Contrast	
13.Checksum 0x0000	
14.Reset	

In Phase Line	24	CR_OFFSET	0
In Phase Frame	26	CB_GAIN	512
Out Phase Line	12	CB_OFFSET	0
Out Phase Frame	22	Y_DELAY_POS	0
CORING	2	Y_DELAY_NEG	12
LUMA_BW	0	CB_DELAY_POS	0
CHROMA_BW	4	CB_DELAY_NEG	13
CKILL_TH1	48	CR_DELAY_POS	0
CKILL_TH2	80	CR_DELAY_NEG	13
LUMA_GAIN	582	AGC_ON/OFF	OFF
LUNA_OFFSET	501	AGC_GAIN	538
CR_GAIN	512		

1.Calibration	T-SC37AUSC-1004 T-SC37AUSM-1002 ACL 28.20.2.1 RFS:T-SC37AUSC-20070228 2007-03-05 DTP-LO-0022
2.Option Byte	
3.White Balance	
4.W/B Movie	
5.Calibration Target	
6.Calibration Value	
7.MST3388	
8.X242	
9.X242 NTSC	
10.FBE2	
11.Sound	
12.Dynamic Contrast	
13.Checksum 0x0000	
14.Reset	

Patt-Sel	0	ACR-Th2	100
B-Slope gain	64	Skin-Enable	1
B-Tilt min	70	Skin-Tu	128
B-Tilt max	140	Skin-Tv	128
Lfunc-Basis	75	Sub color	128
Hfunc-Basis	88	M-Skin-Tu	128
Mean-Offset1	75	M-Skin-Tv	128
Mean-Offset2	150	M-Au-Sub color	128
Mean-Slope	41	MW-Skin-Tu	128
Input-offset	128	MW-Skin-Tv	128
ACR-Offset	30	M-Wi-Sub color	128
ACR-Th1	30		

3 Alignments and Adjustments

1.Calibration	T-SC37AUSC-1004 T-SC37AUSM-1002 ACL 28.20.2.1 RFS:T-SC37AUSC-20070228 2007-03-05 DTP-LO-0022
2.Option Byte	
3.White Balance	
4.W/B Movie	
5.Calibration Target	
6.Calibration Value	
7.MST3388	
8.X242	
9.X242 NTSC	
10.FBE2	
11.Sound	
12.Dynamic Contrast	
13.Checksum 0x0000	
14.Reset	

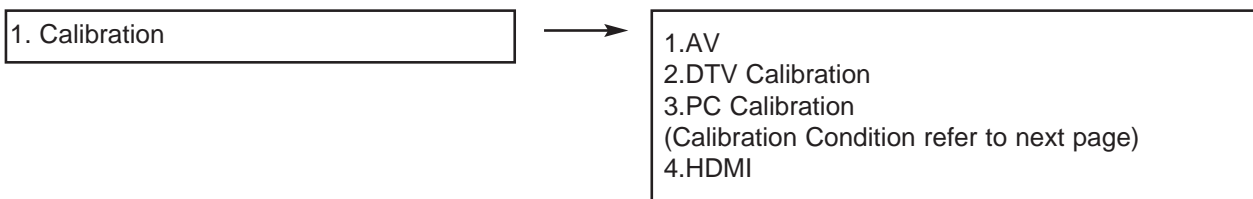
Carrier Mute	1
Stereo Pilot High	13
Stereo Pilot Low	7
Audio Delay	45
Spdif Delay	OFF
Melody Speak Vol.	5
Melody HP Vol.	5
NTP_Amp Vol.	30
NTP_PWM Mod.	243
NTP_DRC Thresh.	12
NTP_Speaker EQ	Off

1.Calibration	T-SC37AUSC-1004 T-SC37AUSM-1002 ACL 28.20.2.1 RFS:T-SC37AUSC-20070228 2007-03-05 DTP-LO-0022
2.Option Byte	
3.White Balance	
4.W/B Movie	
5.Calibration Target	
6.Calibration Value	
7.MST3388	
8.X242	
9.X242 NTSC	
10.FBE2	
11.Sound	
12.Dynamic Contrast	
13.Checksum 0x0000	
14.Reset	

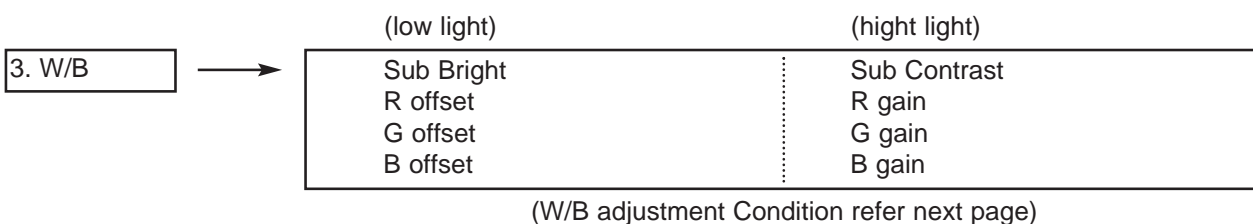
Dynamic CE	Off
Dynamic Dimming	Off
FBE2 Y_MEAN READ	Read Value

3-3 White Balance - Calibration

3-3-1 White Balance -Calibration



3-3-2 White Balance - Adjustment



3-3-3 Conditions for Measurement

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

- INPUT SIGNAL GENERATOR : MSPG-925LTH

* Mode NO 1 : 744X484@60 Hz

NO 6 : 1280X720@60 Hz (Component 720P)

NO 21 : 1024X768@60 Hz

* Pattern NO 15 : Color bar

NO 16 : Toshiba ABL Pattern

NO 17 : 16 gray

2. Optical measuring device : CA210 (FL)

Please use the MSPG-925 LTH generator for model LNR2355W,LNR2755W,LNR3255W.

3-4 White Ratio (Balance) Adjustment

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

It varies with Panel's size and Specification.

- Equipment : CA-210
- Pattern: Master MIK K7256 #92 "ABL Pattern" as standard
 - Use other equipment only after comparing the result with that of the Master equipment.
- Set Aging time : 60min ↑
- Calibration and Manual setting for WB adjustment.



HDMI: No Calibration Manual adjustment at #16 pattern (720p)

COMP: Calibration at #24 Chessboard Pattern → Manual adjustment at #16 pattern (720p)

CVBS: Calibration at #24 Chessboard Pattern → Manual adjustment at #16 pattern (NTSC)

PC : Calibration at #24 Chessboard Pattern → No Manual adjustment (1024x768@60Hz)

-White Balance Manual Adjustment (ABL Pattern)

	CA-210				
		x	y	Y (cd/m ²)	T(K) ± MPCD
CVBS (NTSC) #1, #92	H/L	272	278	-	15000K/0
	L/L	272	278	4	15000K/0
COMP (720P) #6, #92	H/L	272	278	-	15000K/0
	L/L	272	278	4	15000K/0
DVI (720P) #6, #92	H/L	272	278	-	15000K/0
	L/L	272	278	4	15000K/0

-Adjustment Specification

White Balance : High light (± 3), Low light (± 5)

Luminance : High light (± 10%)

Low light (2.0fL ± 0.1fL, 2.1fL ± 0.2fL)

3-5 Servicing Information

3-5-1 USB Download Method

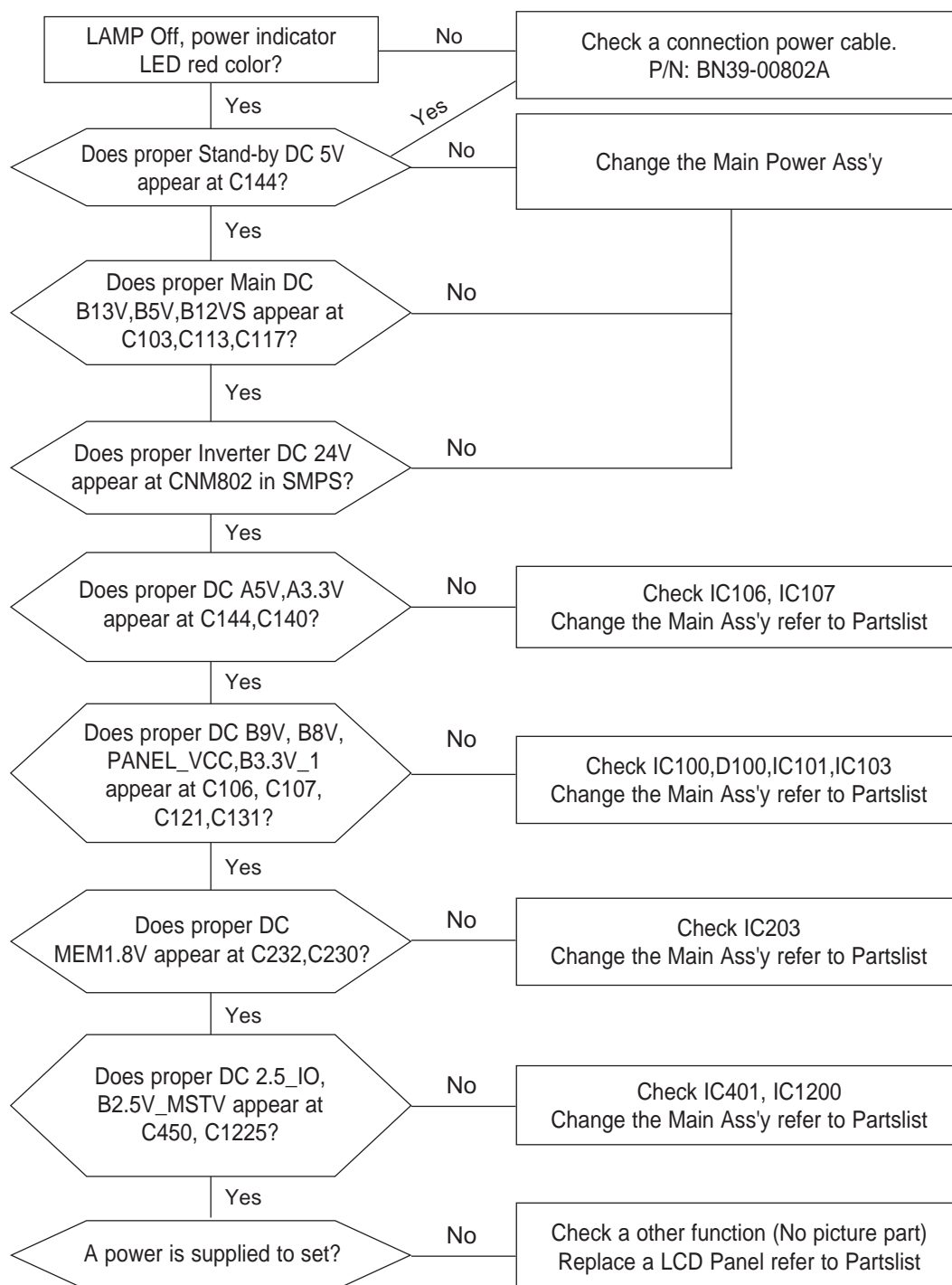
1.USB Download Method

- (1) Download the upgrade file in USB flash driver.
- (2) Extract the file. "T-SC37AUSC" folder will be appeared.
- (3) Turn on the LCD TV.
- (4) Insert the USB flash driver into the service jack of LCD TV and press the MENU button.
- (5) Place the cursor to SW Upgrade of Setup MENU.
- (6) Press the "ENTER" button.
- (7) "Scanning for USB..... It may take up to 30 seconds." will be appeared.
- (8) Press the "ENTER" button.
- (9) "Upgrading now... Please do not disconnect USB before upgrade is completed." will be appeared.
- (10) When upgrade is completed, the OSD says "Upgrade is completed. Power will be off 3 seconds from now and turned on automatically."

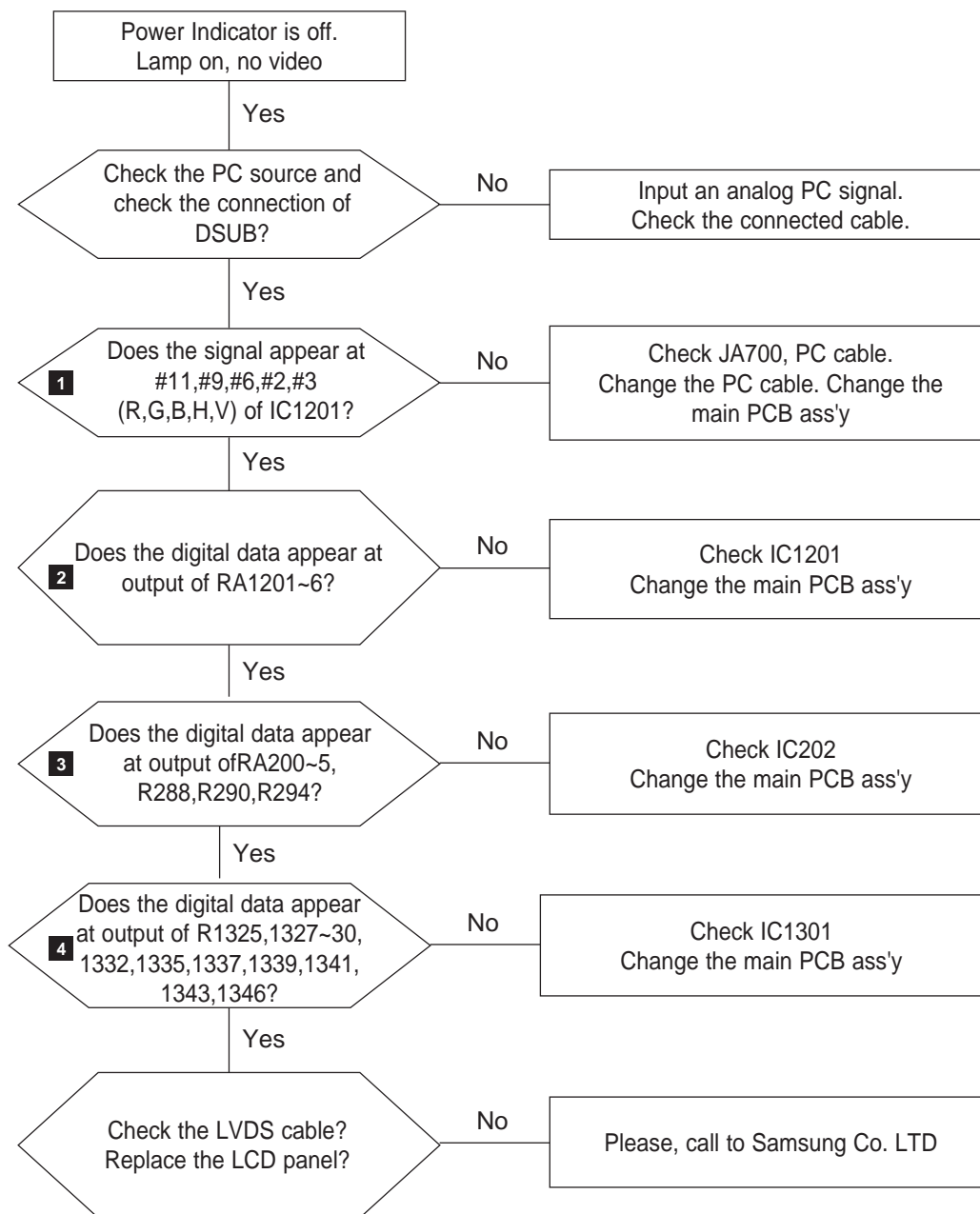
Memo

4 Troubleshooting

4-1 No Power

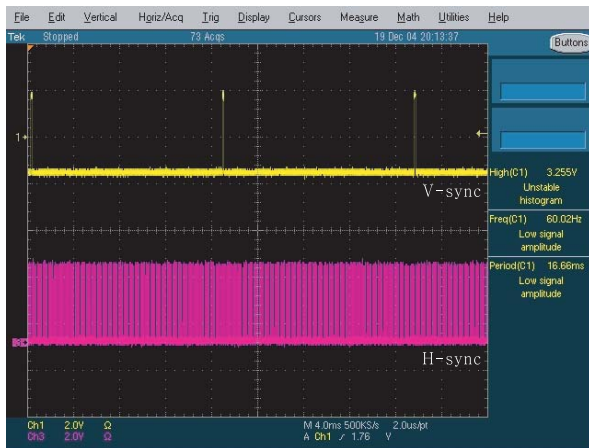


4-2 No Video (Analog PC Signal)

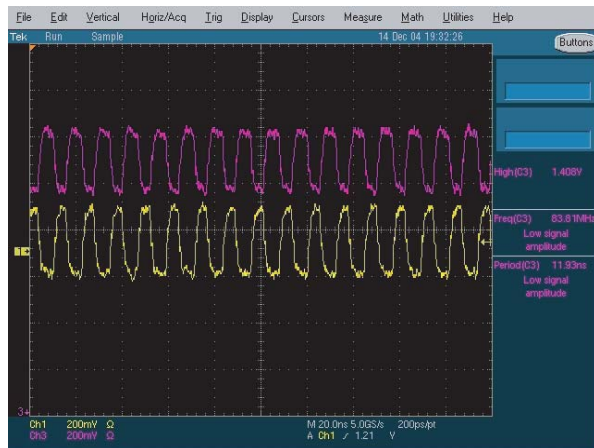


WAVEFORMS

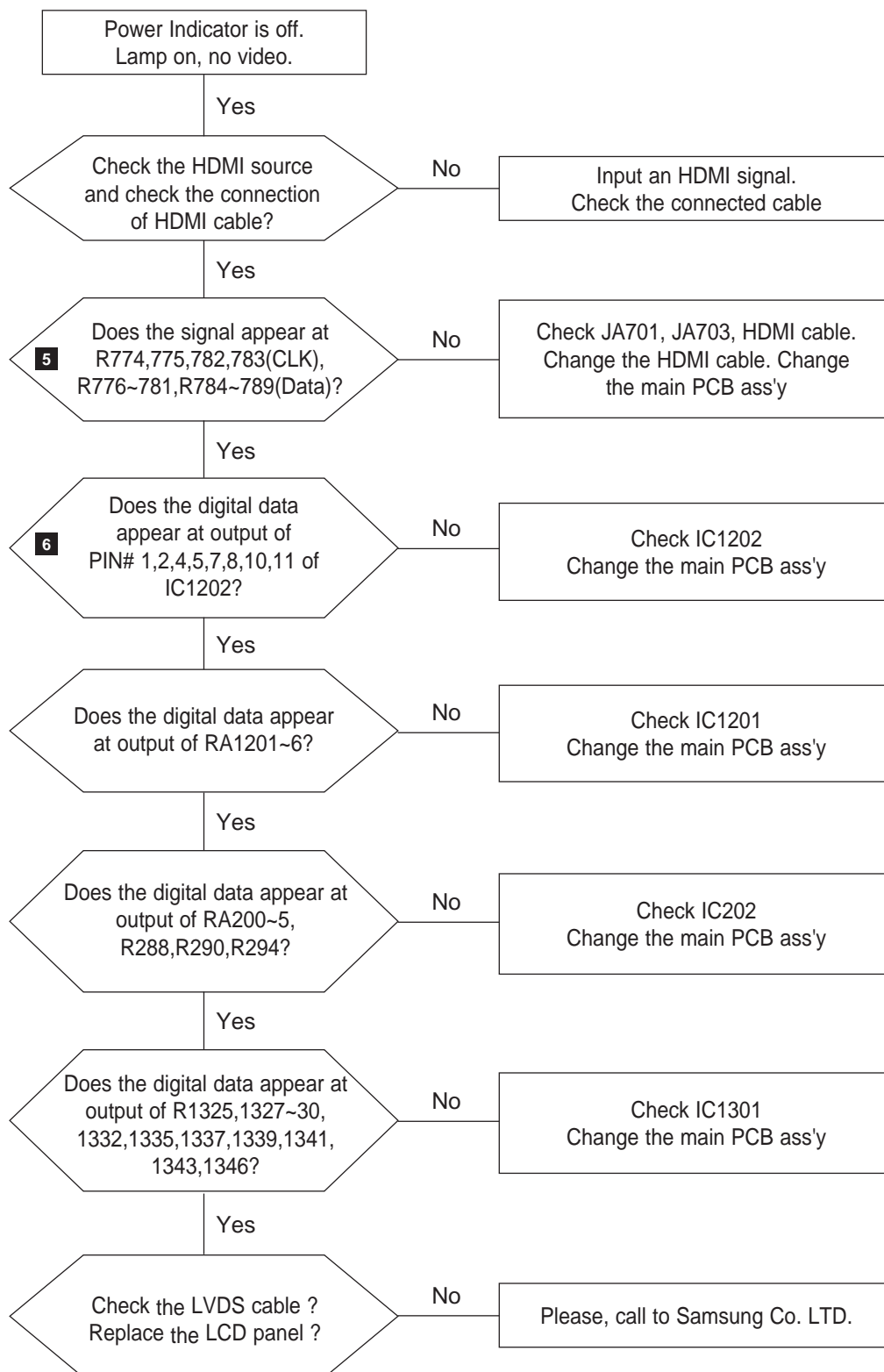
1 2 3 PC Input (V-Sync, H-Sync)



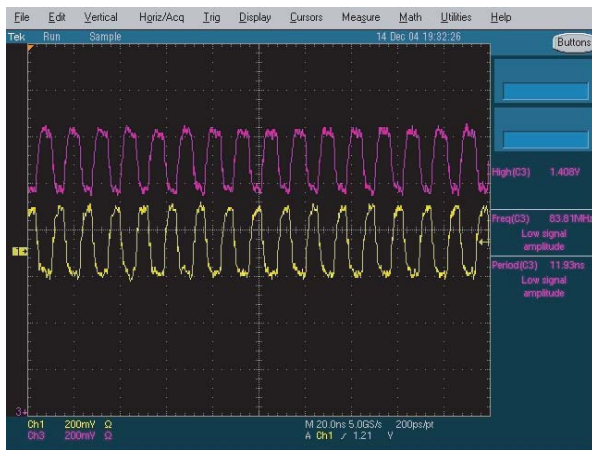
4 LVDS Out (CLK + / -)



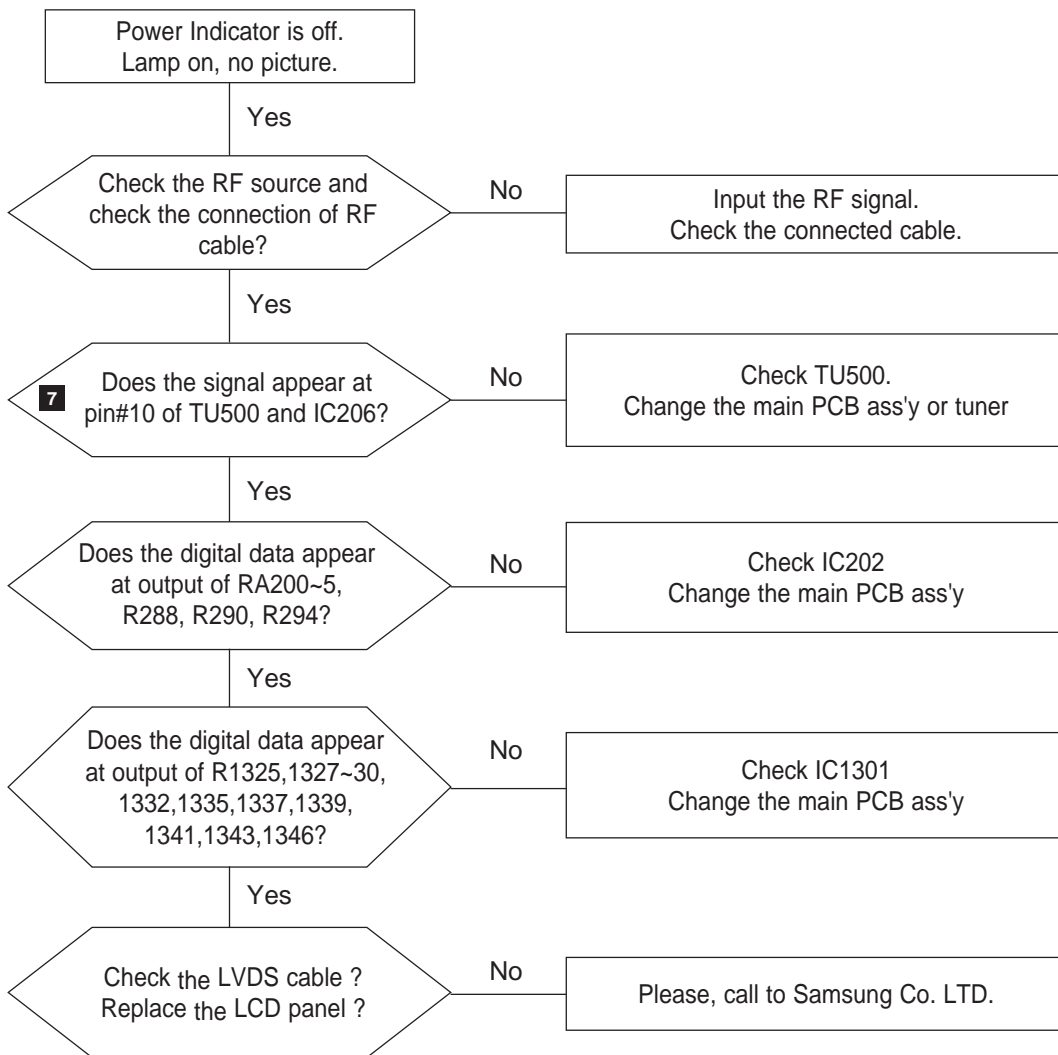
4-3 No Video (HDMI - Digital Signal)



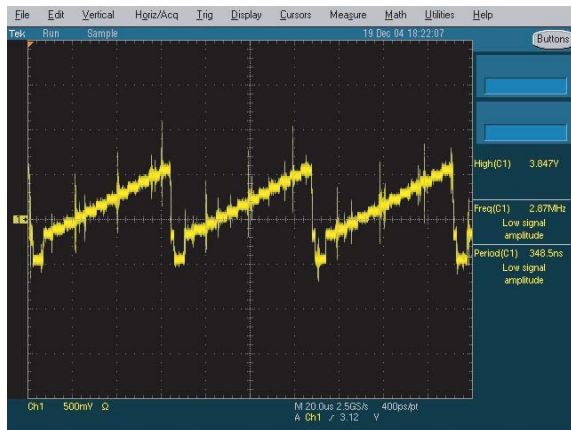
WAVEFORMS

5 6 HDMI Input (CLK + / -)

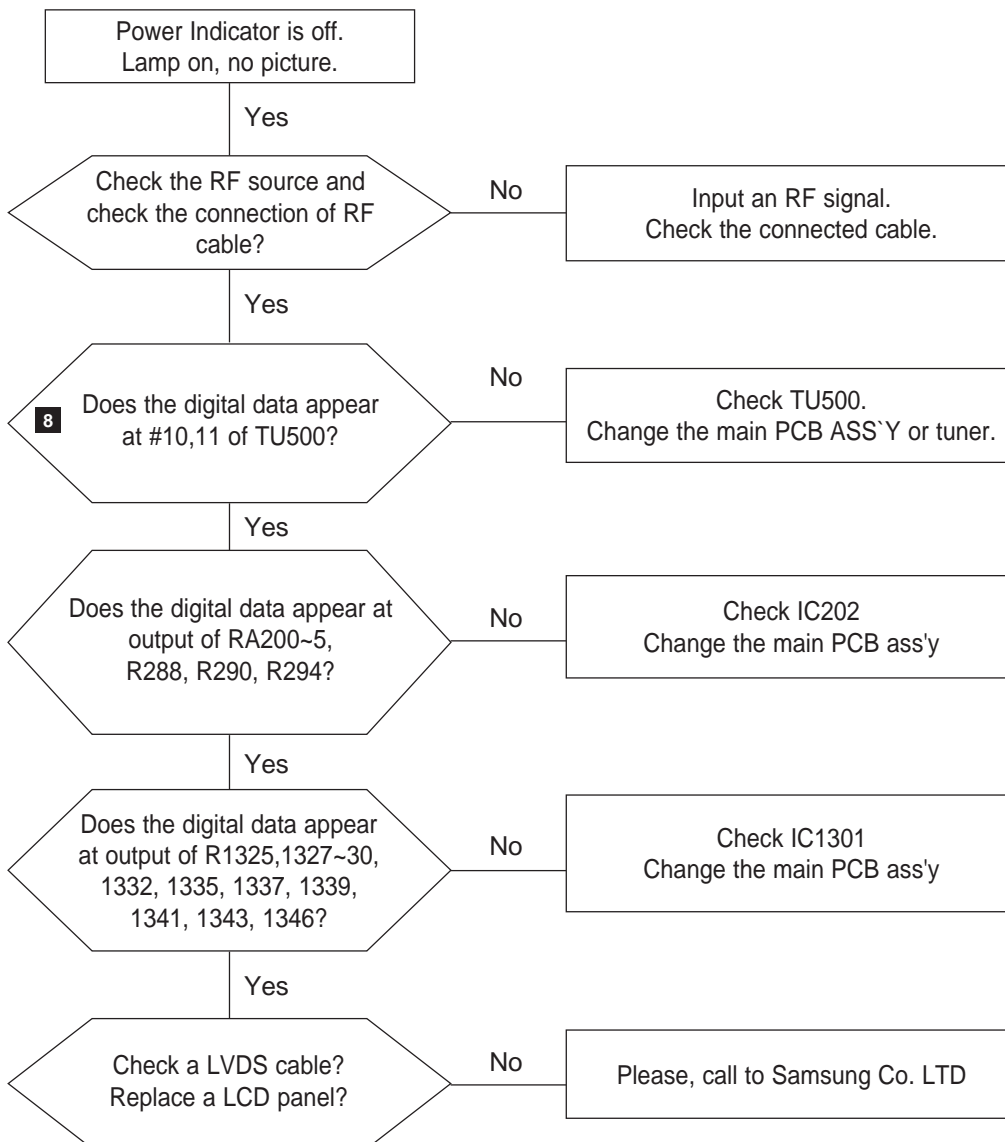
4-4 No Picture (Tuner_CVBS)



WAVEFORMS

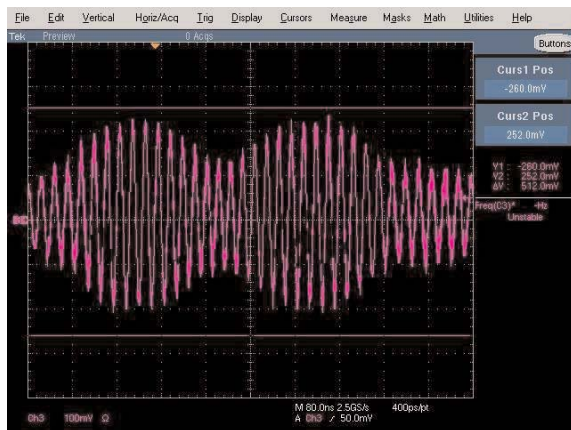
7 Tuner CVBS Out (Pattern: Grey Bar)

4-5 No Picture (Tuner DTV TS)

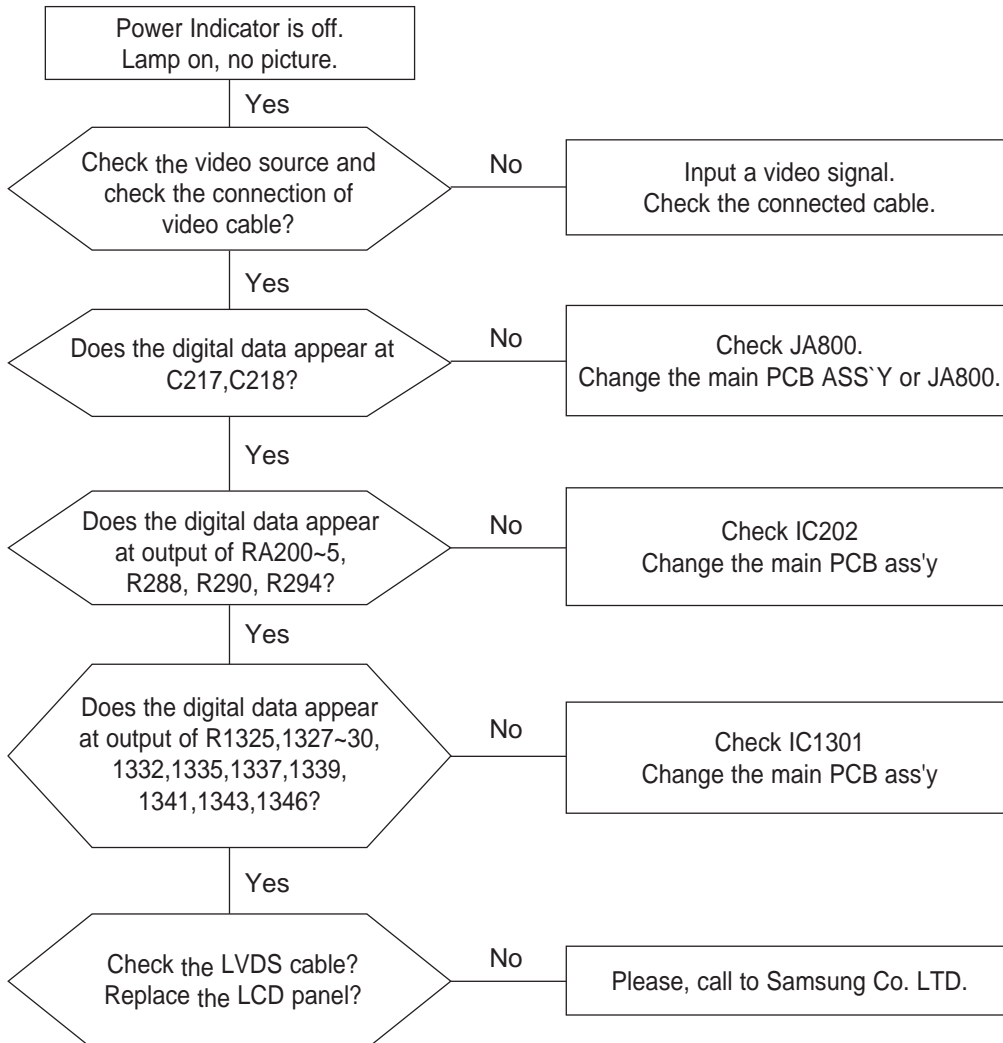


WAVEFORMS

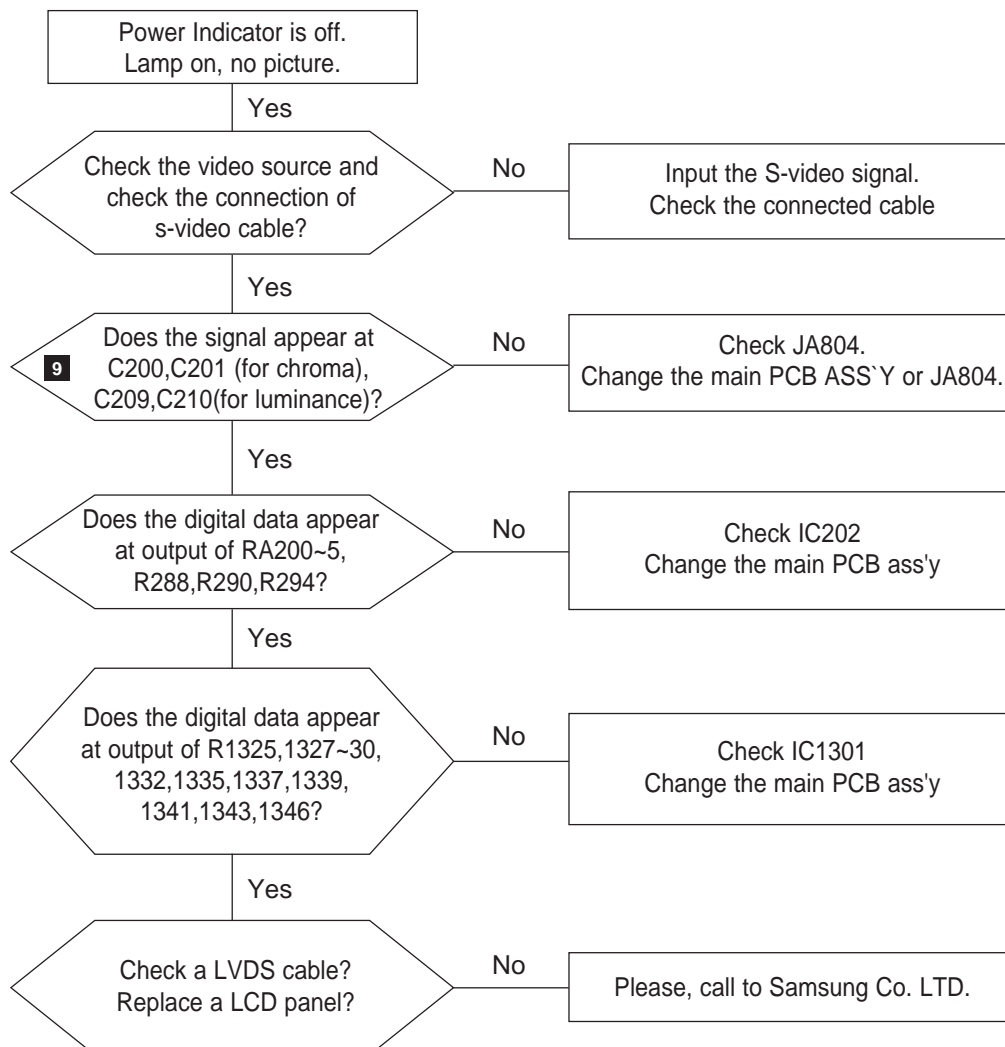
8 DTV RF +/-



4-6 No Picture(Video CVBS)

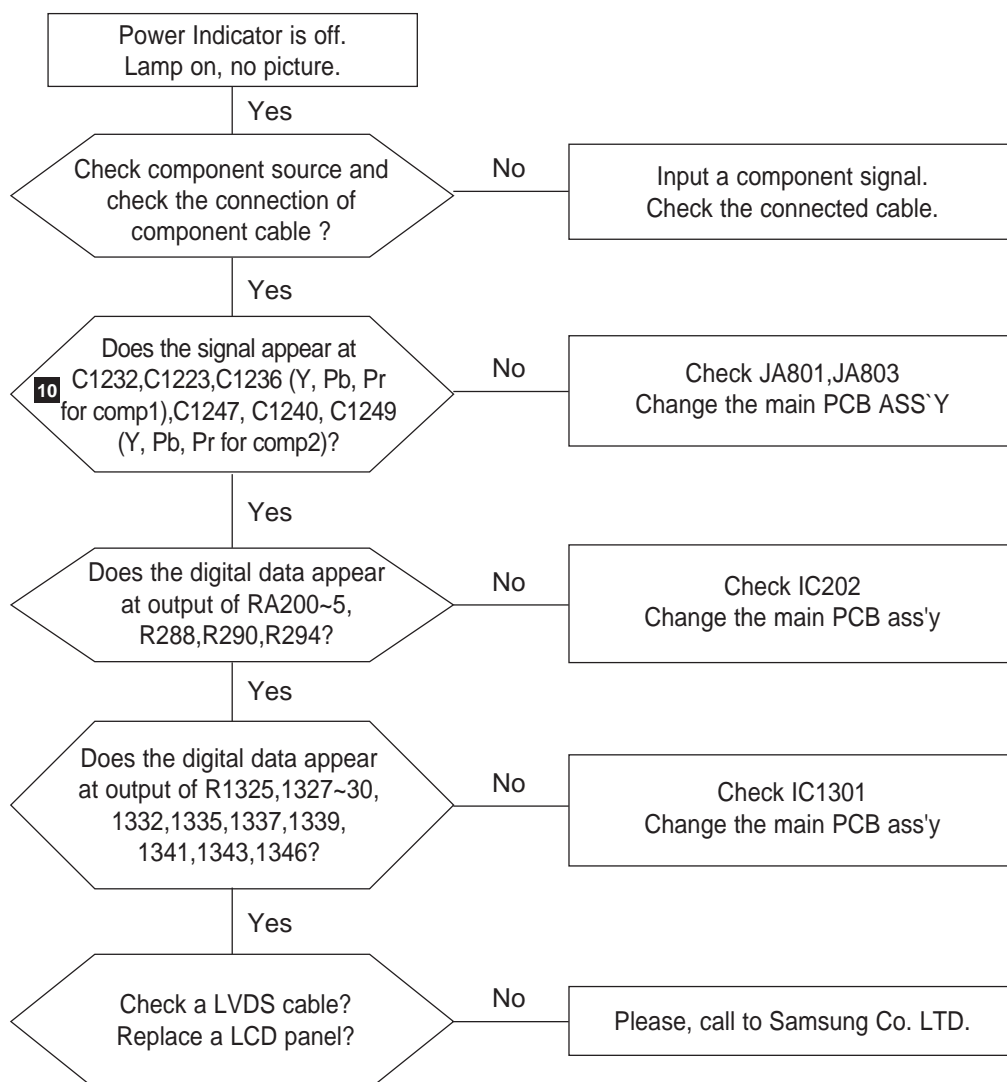


4-7 No Picture(S-Video Y/C)



WAVEFORMS**9 S-VIDEO Input (Y/C)**

4-8 No Picture(Component1, 2 : 480i, 480p, 720p, 1080i[Y, Pb, Pr])

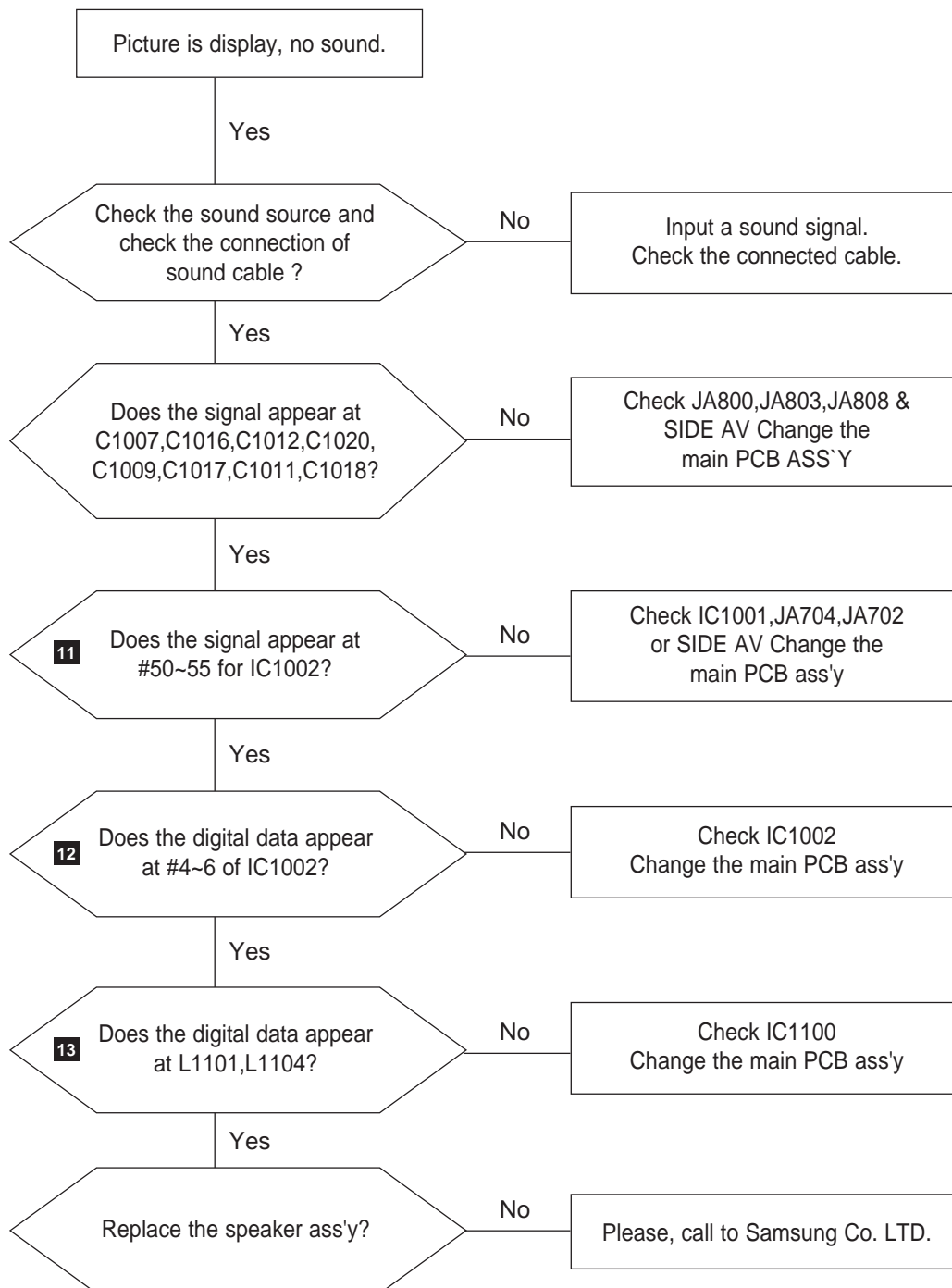


WAVEFORMS

10 Component Input (Y/Pb)

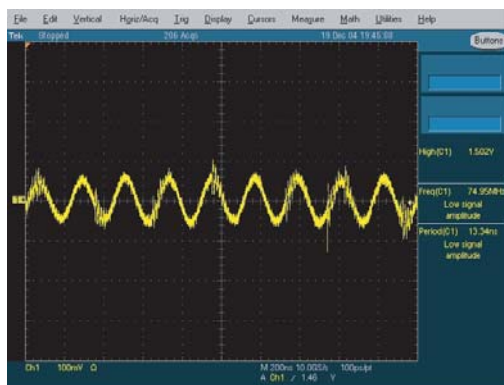


4-9 No Sound

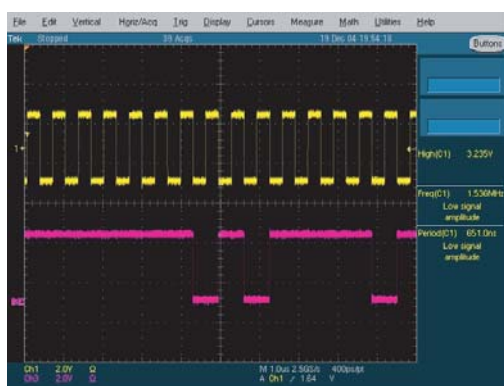


WAVEFORMS

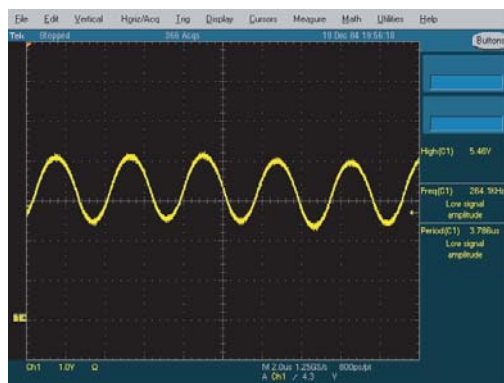
11 Audio Input (Sign Wave)



12 12S Input (Clk, Data)



13 Audio Amp Out (Sign Wave)

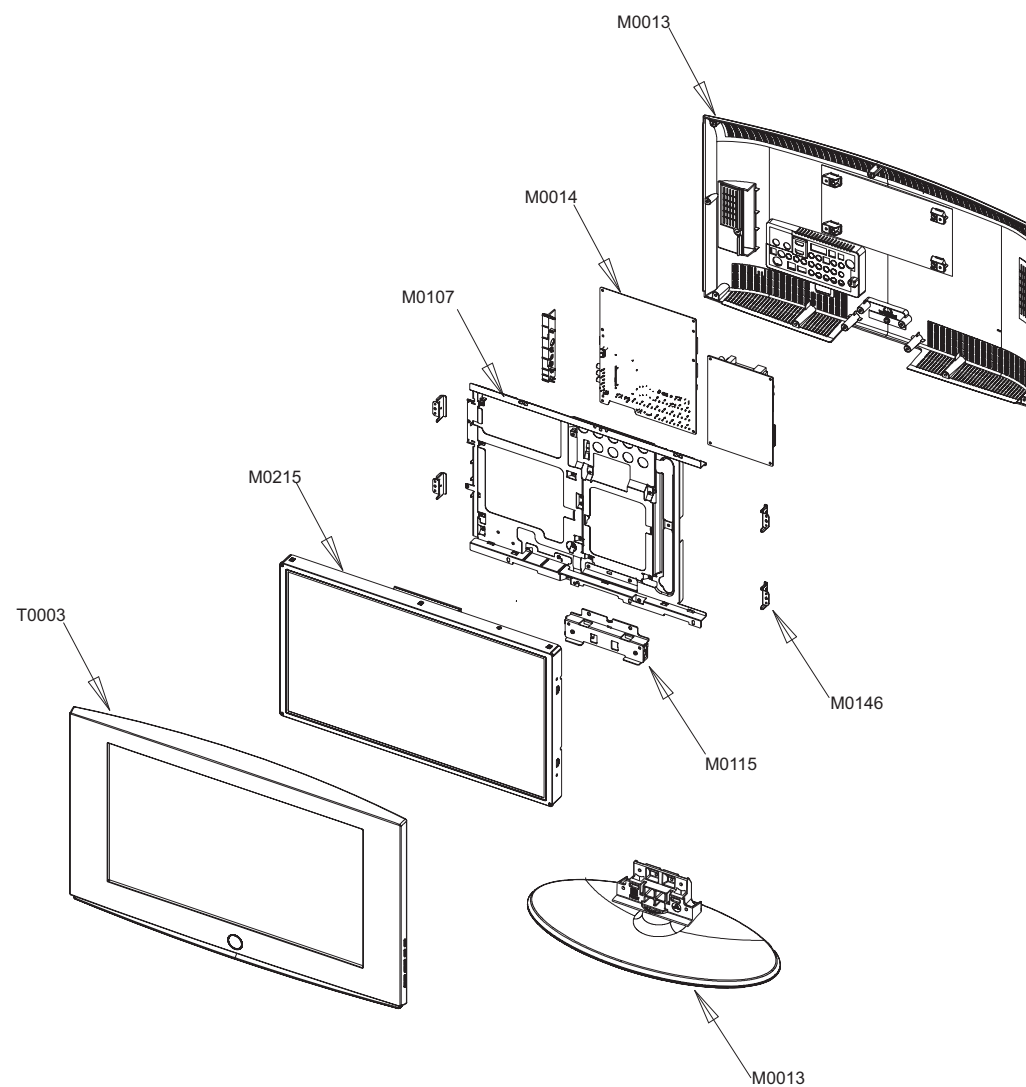


5 Exploded View and Parts List

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

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

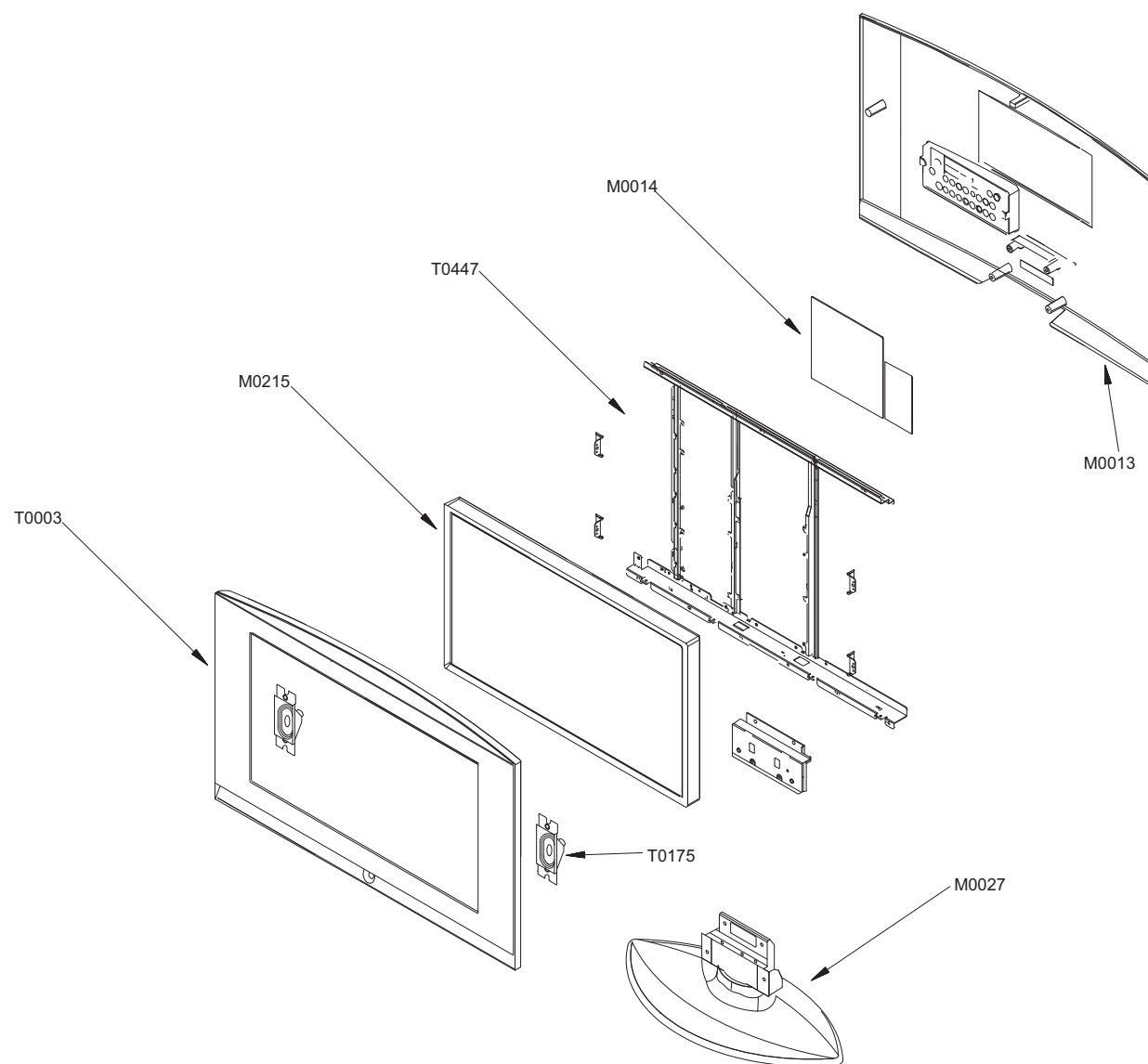
5-1 LNT2332H Exploded View



5-2 LNT2332H Parts list

Location	Code.No	Item & Specification	Q'ty	SA/SNA	Remark
T0003	BN96-03540C	ASSY COVER P-FRONT;23T71,UO,HIPS,V0,BK50	1	S.A	
T0175	BN96-04769A	ASSY SPEAKER P;16ohm,4pin,5W,Jasmine 23"	1	S.A	
M0215	BN07-00365A	LCD-PANEL;T230XW01,8bit,23inch,16.7M,16:	1	S.A	
M0115	BN61-02364A	BRACKET-STAND LINK;SONOMA 32,SECC,T1.6	1	S.N.A	
M0014	BN94-01294A	ASSY PCB MAIN-ATD;LNT2332HX/XAA	1	S.A	
M0013	BN96-05366A	ASSY COVER P-REAR;23T71,UO,HIPS,V0,BK500	1	S.A	
M0013	BN96-03192A	ASSY STAND P-BASE;26T70,HIPS,HB,BK500,BK	1	S.A	

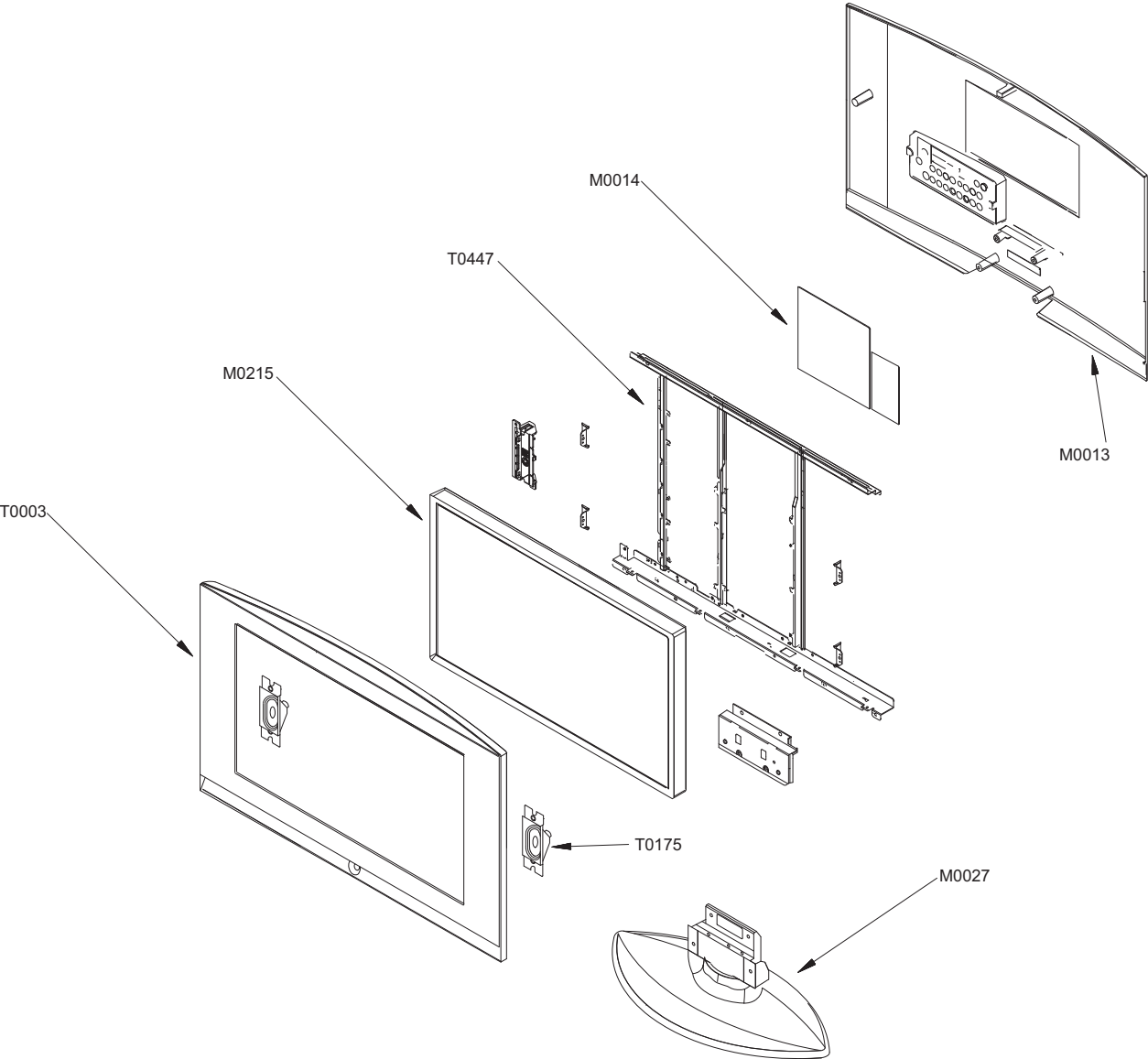
5-3 LNT2632H Exploded View



5-4 LNT2632H Parts list

Location	Code.No	Item & Specification	Q'ty	SA/SNA	Remark
T0003	BN96-03174A	ASSY COVER P-FRONT;26T70,UO,HIPS,V0,BK50	1	S.A	
T0175	BN96-04769A	ASSY SPEAKER P;16ohm,JASMINE 26,5W,N	1	S.N.A	
M0215	BN07-00364A	LCD-PANEL;V260B1-L04,26inch,16.2M,16:9,0.1405(H)*0.4215(W)	1	S.A	
T0447	BN96-03008D	ASSY BRACKET P-PANEL;BORDEAUX,26,AUO,SMP	1	S.N.A	
M0014	BN94-01294B	ASSY PCB MAIN-CMO;LNT2632HX/XAA	1	S.N.A	
M0013	BN96-03189A	ASSY COVER P-REAR;26T70,UO,HIPS,V0,BK500	1	S.A	
M0013	BN96-03192A	ASSY STAND P-BASE;26T70,HIPS,HB,BK500,BK	1	S.A	

5-5 LNT3232H Exploded View

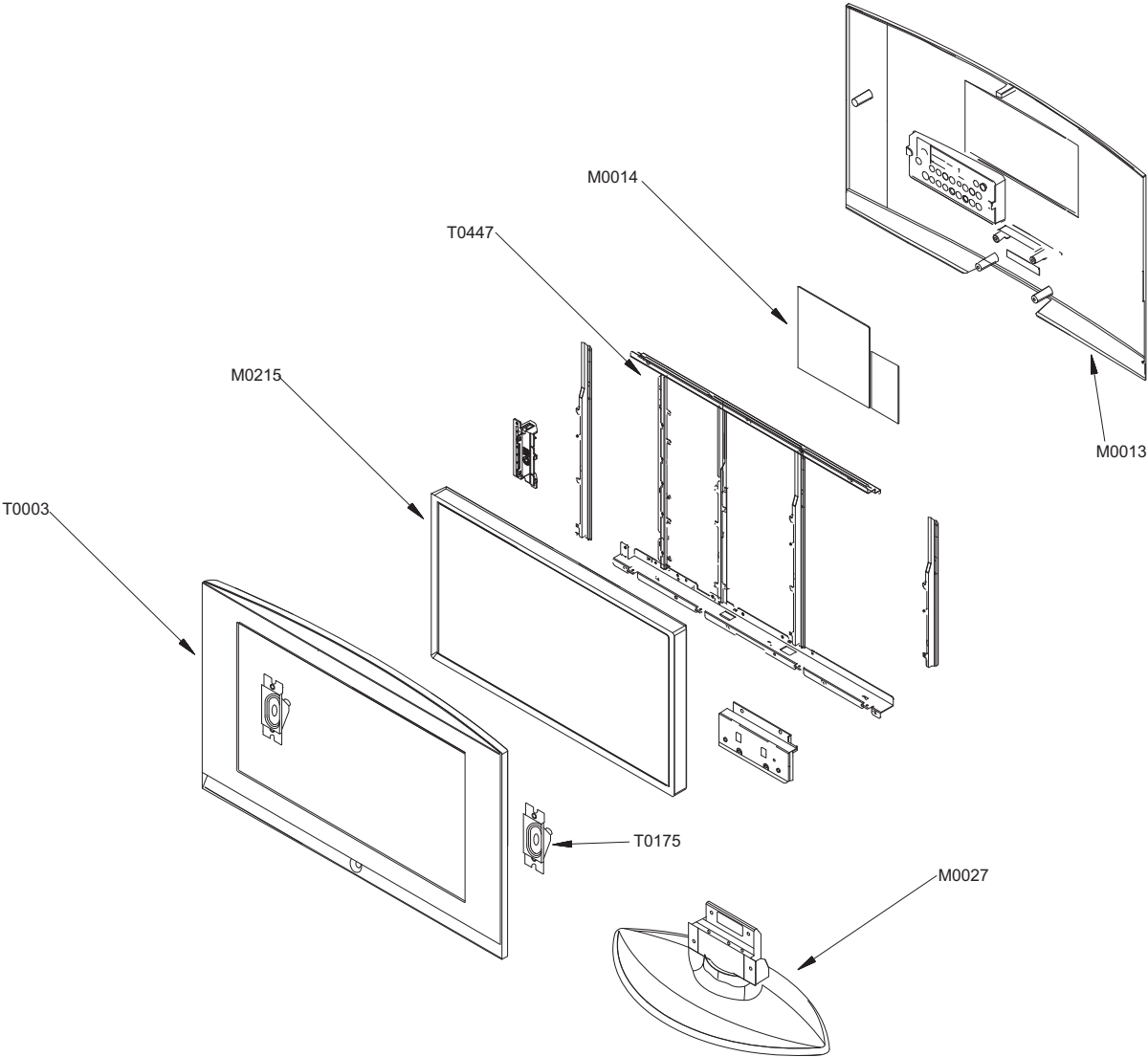


5 Exploded View & Parts List

5-6 LNT3232H Parts list

Location	Code.No	Item & Specification	Q'ty	SA/SNA	Remark
T0003	BN96-03628P	ASSY COVER P-FRONT;32T71,UO,PC+ABS,V0,BK	1	S.A	
T0175	BN96-04770A	ASSY SPEAKER P;8ohm,4pin,10W,Jasmine 32"	1	S.A	
M0215	BN07-00453A	LCD-PANEL;LTA320WT-L06,8bit,32inch,16.7M	1	S.A	
T0447	BN96-02999T	ASSY BRACKET P-PANEL;SONOMA-2,32,SECC,AM	1	S.N.A	
M0027	BN96-03698B	ASSY STAND P-BASE;SONOMA,32,ABS+PMMA,HB,	1	S.A	
M0013	BN96-05368A	ASSY COVER P-REAR;32T71,UO,HIPS,V0,BK500	1	S.A	

5-7 LNT3732H Exploded View

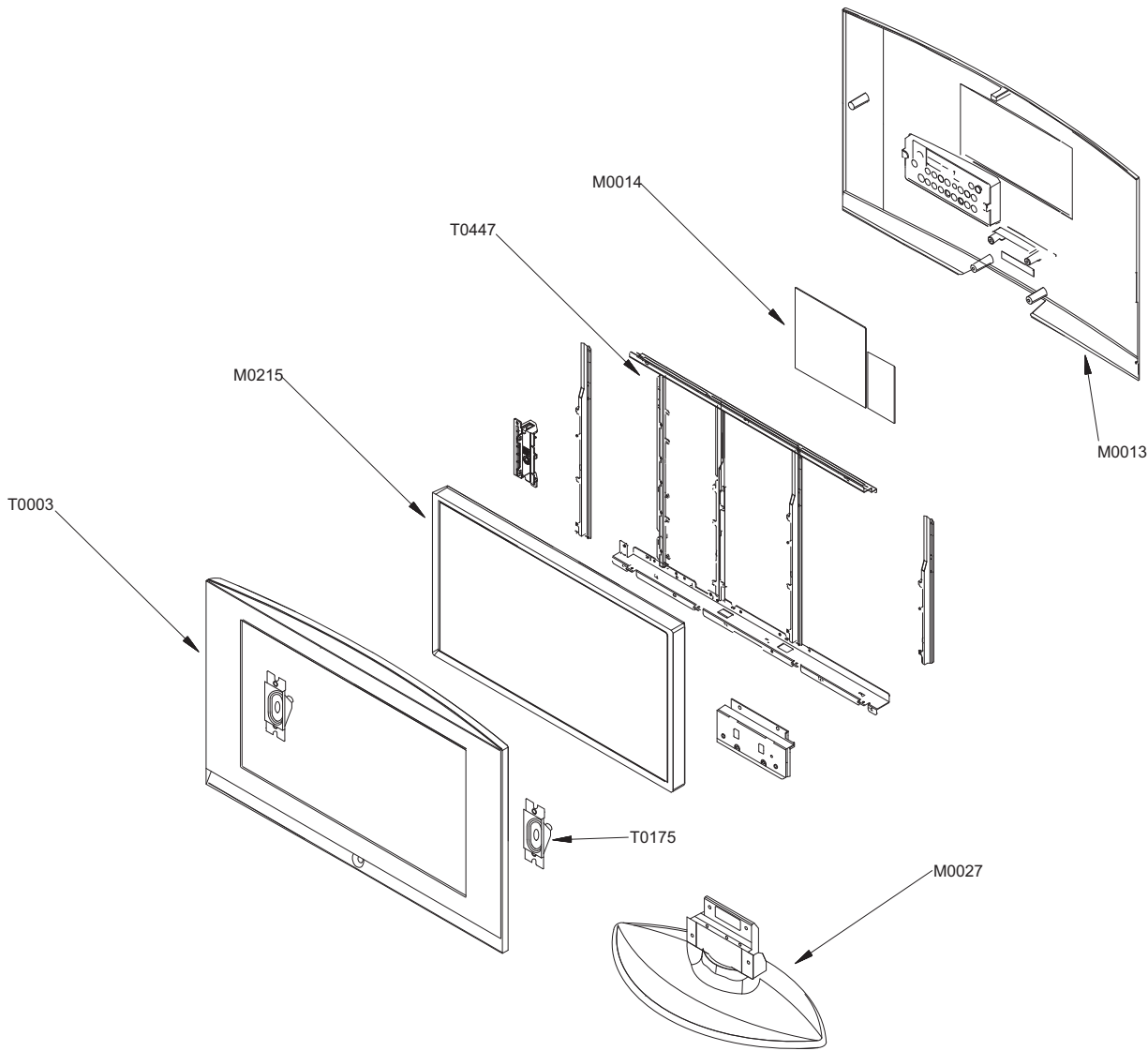


5 Exploded View & Parts List

5-8 LNT3732H Parts list

Location	Code.No	Item & Specification	Q'ty	SA/SNA	Remark
T0003	BN96-04044H	ASSY COVER P-FRONT;37T71,UO,PC+ABS,V0,BK	1	S.A	
T0175	BN96-04770B	ASSY SPEAKER P;8ohm,4pin,10W,600/1250mm,	1	S.A	
M0215	BN07-00446A	LCD-PANEL;CLAA370WA03SC,8bit,37inch,16.7	1	S.A	
T0447	BN96-05378A	ASSY BRACKET P-PANEL;37T71,UO,JASMINE CH	1	S.N.A	
M0027	BN96-03697B	ASSY STAND P-BASE;SONOMA,40,ABS+PMMA,HB,	1	S.A	
M0013	BN96-05370A	ASSY COVER P-REAR;37T71,UO,HIPS,V0,BK500	1	S.A	

5-9 LNT4032H Exploded View



5 Exploded View & Parts List

5-10 LNT4032H Parts list

Location	Code.No	Item & Specification	Q'ty	SA/SNA	Remark
T0003	BN96-03394N	ASSY COVER P-FRONT;40T71,UO,PC+ABS,V0,BK	1	S.A	
T0175	BN96-04770B	ASSY SPEAKER P;8ohm,4pin,10W,600/1250mm,	1	S.A	
M0215	BN07-00370A	LCD-PANEL;T400XW02,8bit,40inch,16.7M,16:	1	S.A	
T0447	BN96-03528F	ASSY BRACKET P-PANEL;SONOMA-2,40,SECC,AU	1	S.N.A	
M0014	BN94-01294F	ASSY PCB MAIN-AUO;LNT4032HX/XAA	1	S.N.A	
M0027	BN96-03697B	ASSY STAND P-BASE;SONOMA,40,ABS+PMMA,HB,	1	S.A	
M0013	BN96-05369A	ASSY COVER P-REAR;40T71,UO,HIPS,V0,BK500	1	S.A	

6 Electrical Parts List

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

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

6-1 LNT3232HX Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
0		LA37R81BX/UMG	LA37R81B,N31A/37R80-GBP,37,LCD-TV,SAUDI		
0.1	M0001	BN90-01144D	ASSY COVER FRONT;37R81,SO,ABS+PMMA,HB,BK	1	S.N.A
..2	T0003	BN96-04657D	ASSY COVER P-FRONT;-;37R81,SO,-,ABS+PMMA	1	S.A
...3	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	2	S.A
...3	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,ZPC(WHT),S	1	S.N.A
...3	M0112	BN63-03111D	COVER-FRONT;37R81,SO,ABS+PMMA,HB,BK27,S/	1	S.N.A
...3	T0603	BN64-00588A	WINDOW-RMC;32,BORDEAUX PLUS,PC,-,-,HB,	1	S.N.A
...3		BN96-04700A	ASSY HOLDER P-BOSS;37,40R81,-,HIPS,HB,-,	1	S.N.A
...4		BN61-02959A	HOLDER-BOSS BOTTOM;37,40R81,HIPS,HB,-,-,	1	S.N.A
...4	T0069	AA60-00091M	SPACER-FELT;-;FELT,35X10,-,-,BLK,T0.5,-,	4	S.N.A
...4		BN61-03261A	BOSS-TAPE;Tulip,ACRYL,T1.1,W12mm,GRAY,TA	1.45	S.N.A
...3	M0102	BN96-04802A	ASSY BLU P;Bordeaux Plus,BACK LIGHT UNIT	1	S.A
...3	M0145	BN96-04809C	ASSY BOARD P-FUNCTION&IR;LE40R81BDX,CT50	1	S.A
...3	T0056	BN63-03416A	COVER-DECORATION;37 BORDEAUX PLUS,PC,CLE	1	S.N.A
...3	CCM1	BN63-02183C	COVER-SHEET;Rhcm,PE Vinyl,T0.05,200mm,20	3.4	S.N.A
..2	T0175	BN96-04768A	ASSY SPEAKER P;8ohm,4pin,10W,Bordeaux PI	1	S.A
0.1	M0216	BN90-01148A	ASSY STAND;37,40R81,SWIVEL,-,-,-,-	1	S.N.A
..2	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	4	S.A
..2	M0027	BN96-04661A	ASSY STAND P-BASE;-;37,40R81,SWIVEL,-,AB	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(WHT),S	8	S.A
...3		BN61-02248A	HOLDER-SWIVEL RING;40R71,ACETAL NATUAL,T	1	S.N.A
...3		BN61-02883A	BRACKET-STAND BOTTOM;BORDEAUX PLUS,40,SE	1	S.N.A
...3		BN61-02885A	HOLDER-SWIVEL RING;MURANO40,ACETAL NATUR	1	S.N.A
...3		BN61-02886A	BRACKET-HINGE SWIVEL;BORDEAUX PLUS,40,SE	1	S.N.A
...3	T0920	BN61-02984A	GUIDE-STAND;40R81,ABS,V0,-,-,BK500,-	1	S.N.A
...4		BN61-02981A	BRACKET-SUPPORT STAND;40 BORDEAUX PLUS,S	1	S.N.A
...4		BN61-03045A	BRACKET-SUPPORT STAND;40 BORDEAUX PLUS,S	1	S.N.A
...3	CCM1	BN63-02183E	COVER-SHEET;Rhcm,PE Vinyl,T0.05,750mm,20	0.5	S.N.A
...3	T0004	BN63-03030A	COVER-STAND BASE;40R81,ABS+PMMA,-,-,-,HB	1	S.N.A
...3	T0132	BN73-00052A	RUBBER FOOT;ARES 17,CR Rubber Gray,T1.5	4	S.N.A
0.1	M0002	BN90-01152D	ASSY COVER REAR;37R81,SO,ABS+PMMA,HB,BK2	1	S.N.A
..2	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	2	S.A
..2	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	1	S.A
..2	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	12	S.A
..2	M0013	BN96-04665B	ASSY COVER P-REAR;-;37R81,SO,-,ABS+PMMA,	1	S.A
...3	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,ZPC(WHT),S	2	S.N.A
...3	CCM1	BN63-02183G	COVER-SHEET;Rhcm,PE Vinyl,T0.05,1100mm,2	0.99	S.N.A
...3	M0006	BN63-03118A	COVER-REAR;37R81,SO,ABS+PMMA,-,-,-,HB,-,	1	S.N.A
...3	T0071	BN64-00557C	INLAY-TERMINAL;07,COMMON,SO,LO,PS SHEET,	1	S.N.A
...3	T0064	BN65-00002A	CLAMPER CORE;BORDEAUX,PP,V0,BLK	1	S.N.A
...3	T0101	BN61-03348A	BRACKET-WALL;LCD TV 32",SECC T1.6	2	S.N.A
0.1		BN91-01342A	ASSY LCD-AUO;LE37R86BDX/*	1	S.N.A
..2	M0215	BN07-00393A	LCD-PANEL;T370XW02,8bit,37inch,16.7M,16:	1	S.A
0.1	M0003	BN92-02456H	ASSY BOX;37R81,SO(UMG)	1	S.N.A
..2	M0521	BN69-01731A	BOX-SET,IN;37M8,CB,C-01,DY-01,AB,W1401,D	1.01	S.N.A
..2		BN69-01752A	BOX-01,SET,OUT;37R8,CB,DY-01,AB,YEL,C3,W	1.01	S.N.A
0.1	M0113	BN92-02457A	ASSY P/MATERIAL;37R81	1	S.N.A
..2	T0214	BN74-00008A	TAPE-OPP MASKING;OPP-2,T0.05,W100,L800M,	1.17	S.N.A
..2	T0376	6902-000001	BAG AIR;LDPE,T0.2,L1800,W1000,TRP,,,LDPE	0.01	S.N.A
..2	T0376	6902-000061	BAG AIR;LDPE,T0.2,L1000,W500,TRP,,,	0.03	S.N.A
..2	T0524	6902-000524	BAG PE;HDPE/NITRON,T0.015/T0.5,W1200,L11	1	S.N.A
..2	T0214	AA61-20285A	HOLDER-BOX;CTV,PP,NTR,HB	2	S.N.A
..2		6922-000003	BAND PP;PP,T0.8,W18,L1650M,TRP,DA69-9014	4.74	S.N.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
0.1	M0045	BN92-02419X	ASSY ACCESSORY;LA37R81BX/UMG,LA40R81BX/U	1	S.N.A
.2	M0045	BN96-04829T	ASSY ACCESSORY-CABLE;LA37R81BX/UMG,-,LA4	1	S.A
...3	T0251	3721-001066	PLUG-CONVERSION;3P,-,-,NI	1	S.A
...3	T0268	3903-000193	CBF-POWER CORD;DT,GB,GP3/YES,U(IEC C13-R	1	S.A
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	1	S.N.A
...3	T0074	BN59-00602A	REMOCON;BORDEAUX PLUS,TM87C,samsung 28p+	1	S.A
...3	ACCESSORY	BN63-01798A	CLOTH-CLEAN;RE40**,CLOTH,180,200,RHCM	1	S.N.A
...3	T0531	BN63-03113A	COVER-BOTTOM;37,40R81,HIPS,-,-,HB,-,BK	1	S.A
.2	M0045	BN96-04830K	ASSY ACCESSORY-MANUAL;LA32R81BX/UMG,-,BD	1	S.A
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	1	S.N.A
...3	ACCESSORY	AA68-03879A	MANUAL FLYER-01,REGISTRATION C;comm,Sams	1	S.N.A
...3	T0752	AA68-40113A	CARD-WARRANTY;- ,W/P 100(G)-,WHT,UMG,-,S	1	S.N.A
...3	M0596	BN68-01199K	MANUAL USERS-00;COMM,SAMSUNG,English,Asi	1	S.N.A
...3	T0511	BN68-01199N	MANUAL USERS;COMM,SAMSUNG,Ara,M.Asia/Afr	1	S.N.A
...3	T0511	AA68-03242M	MANUAL FLYER-SAFETY GUIDE;comm,Samsung,E	1	S.N.A
0.1	M0019	BN92-02594D	ASSY LABEL;LA37R81BX/UMG	1	S.N.A
0.1	M0112	BN91-01735C	ASSY SHIELD;LA37R81B*,DELETE THE GASKET	1	S.N.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	6003-000337	SCREW-TAPTITE;BH,+,S,M4,L10,ZPC(BLK),SWR	4	S.A
.2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,ZPC(WHT),S	2	S.N.A
.2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,ZPC(WHT),S	13	S.N.A
.2	M0081	6003-001439	SCREW-TAPTITE;BH,+,S,M4,L8,ZPC(WHT),SW	1	S.N.A
.2	M2893	BN39-00674A	LEAD CONNECTOR;LNR469DX/XAA,UL1007#26,5P	1	S.A
.2	M2893	BN39-00802F	LEAD CONNECTOR;LE46S86BDX,UL1007#26,24PI	1	S.A
.2	M2893	BN39-00849A	LEAD CONNECTOR;LE37M86BDX/XEC,UL1007 #26	1	S.A
.2	M2893	BN39-00850A	LEAD CONNECTOR-LVDS;LE37R86BDX,UL1571#30	1	S.A
.2	T0764	BN44-00157A	SMPS-LCDTV;MK37,SEM,AC/DC,280W,AC100 ~ 2	1	S.A
.2	M0146	BN61-02241A	BRACKET-PANEL SIDE;Bordeaux 37,SECC,T1.2	1	S.N.A
.2	M0146	BN61-02242A	BRACKET-PANEL SIDE;Bordeaux 37,SECC,T1.2	1	S.N.A
.2	M0114	BN61-02500A	HOLDER-WIRE;NYLON6.6,NATURAL	2	S.N.A
.2	M0115	BN61-02882A	BRACKET-STAND LINK;TULIP,40,SECC,T1.6,-,	1	S.A
.2	M0254	BN61-02952A	HOLDER-SIDE AV;07 COMMON,SO,LO,ABS+PMMA,	1	S.N.A
.2	T0447	BN96-04680F	ASSY BRACKET P-PANEL;- ,37R81,-,-,-,NEW	1	S.N.A
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	2	S.A
...3	T0101	BN61-02968A	BRACKET-WALL;40 BORDEAUX PLUS,SECC,T1.2,	1	S.N.A
...3	M0146	BN61-02971A	BRACKET-PANEL TOP;37 BORDEAUX PLUS,SECC,	1	S.N.A
...3		BN61-02977A	BRACKET-PANEL BOTTOM;37 BORDEAUX PLUS,SE	1	S.N.A
...3		BN61-02980A	BRACKET-GUIDE MAIN;37 BORDEAUX PLUS,SECC	1	S.N.A
...3		BN61-03033A	BRACKET-GUIDE POWER;37 BORDEAUX PLUS,SEC	1	S.N.A
...3		BN61-03034A	BRACKET-GUIDE POWER;37 BORDEAUX PLUS,SEC	1	S.N.A
.2	M0125	BN96-05361A	ASSY INLET P;LE37M87BDX,XEC,200,150MM,-,	1	S.A
0.1	M0017	BN91-01751L	ASSY CHASSIS;BN94-01446L	1	S.N.A
.2	M0014	BN94-01546K	ASSY PCB MAIN;BN94-01446L,839E	1	S.N.A
...3	T0245	0202-001492	SOLDER-WIRE FLUX;HSE-02 LFM48 SR-34 S,-,	0.25	S.N.A
...3	JA1410_NSI	3701-001388	CONNECTOR-HDMI;20P,Phosphor Bronze,ANGLE	1	S.A
...3	JA1406_OP	3701-001400	CONNECTOR-DSUB;15P,3R,FEMALE,STRAIGHT,NI	1	S.A
...3	CN330	3711-000058	HEADER-BOARD TO CABLE;BOX,4P,1R,2.5MM,AN	1	S.A
...3	CN330	3711-004484	HEADER-BOARD TO CABLE;BOX,5P,1R,2mm,STRA	1	S.A
...3	CN330	3711-004531	HEADER-BOARD TO CABLE;BOX,10P,1R,2mm,ANG	1	S.A
...3	CN330	3711-005606	HEADER-BOARD TO CABLE;BOX,30P,2R,2mm,STR	1	S.A
...3	CN330	3711-005842	HEADER-BOARD TO CABLE;BOX,24P,2R,2MM,STR	1	S.A
...3	JA330	3722-000143	JACK-PHONE;1P(VER),AG,BLK,ANGLE	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	JA332	3722-001163	JACK-VHS;4P,AU,BLK,ANGLE	1	S.A
...3	JA333	3722-002143	JACK-PIN;5P,NI,GRN/BLU/RED/WHT/RED,STRAI	1	S.A
...3	JA333	3722-002360	JACK-PIN;3P,AU,GRN/BLU/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	JA333	3722-002362	JACK-PIN;2P,Sn,WHT/RED,STRAIGHT	1	S.A
...3	JA333	3722-002523	JACK-PIN;3P,NI,YEL/WHT/RED,STRAIGHT	1	S.A
...3	JA333	3722-002543	JACK-PIN;3P,Sn,RED/WHT/YEL,ANGLE	1	S.A
...3	CIS3	BN40-00083A	TUNER;TCPS3001PD32S(H),TCPS3001PD32S(H),	1	S.A
...3	T0603	BN63-02494A	SHIELD-PCB MAIN;MOSEL 40",SPTE,T0.3,EURO	1	S.N.A
...3	CCMM1	BN73-00024D	SILICON/RUBBER;BORDEAUX,SILICON,28x28XT6	1	S.N.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
...3	CCMM1	BN73-00151A	SILICON/RUBBER;GP1500 380ML,20X20X9.5T	1	S.N.A
...3	T0174	BN97-01871K	ASSY SMD;BN94-01546K,839E	1	S.N.A
....4	SUB05	0202-001477	SOLDER-CREAM;LST309-M,-,D20-45#,#,96.5Sn/	3.778	S.N.A
....4	D1107	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
....4	D1204	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
....4	D1208	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
....4	D1209	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
....4	D1210	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
....4	D1211	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
....4	D1212	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
....4	D1213	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
....4	D1214	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
....4	D1218	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
....4	D1219	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
....4	D1640	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
....4	D1641	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
....4	D1807	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
....4	D2201_LUX	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
....4	D1101	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1403	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1404	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1407	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1410	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1411	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1412	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1424	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1425	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1426	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1434	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1435	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1450_NSID	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1451_NSID	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1472	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1473	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1474	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1475	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1476	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1477	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1478	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1479	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1482	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1483	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1484	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1485	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1486	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1487	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1488	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1489	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1492_NSID	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1493_NSID	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1494_NSID	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1495_NSID	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1496_NSID	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1497_NSID	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1498_NSID	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1499_NSID	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1603_LCD	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1621_LCD	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1624_LCD	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1625_ASI	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1643	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1644	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1645	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1646_PAD	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1647	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1648_LAMP	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1649	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1650	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1653	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
....4	D1808	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D1456	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
....4	D1457	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
....4	D1458	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
....4	D1507	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
....4	D1508	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
....4	D1509	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
....4	D1651	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
....4	D1652	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
....4	D1654	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
....4	D0254	0402-001019	DIODE-SCHOTTKY;MBRS340,40V,3000mA,DO-214	1	S.A
....4	D0254	0402-001019	DIODE-SCHOTTKY;MBRS340,40V,3000mA,DO-214	1	S.A
....4	D1436	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A
....4	D1104	0403-000614	DIODE-ZENER;RLZ8.2B,7.78-8.19V,500mW,LL-	1	S.A
....4	D1217	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D1429	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D1430	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D1431	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D1432	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D1433	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D1452	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D1453	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D1454_NSID	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D1806	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
....4	D1500	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500mW,LL-	1	S.A
....4	D1501	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500mW,LL-	1	S.A
....4	D1502_NSID	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500mW,LL-	1	S.A
....4	D1503	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500mW,LL-	1	S.A
....4	D1504	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500mW,LL-	1	S.A
....4	D1505	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500mW,LL-	1	S.A
....4	D1506	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500mW,LL-	1	S.A
....4	D1402	0403-001052	DIODE-ZENER;RD8.2MB,7.7-8.7V,200mW,SOT-2	1	S.A
....4	D1428	0403-001052	DIODE-ZENER;RD8.2MB,7.7-8.7V,200mW,SOT-2	1	S.A
....4	D1449_NSID	0403-001052	DIODE-ZENER;RD8.2MB,7.7-8.7V,200mW,SOT-2	1	S.A
....4	D1804	0403-001052	DIODE-ZENER;RD8.2MB,7.7-8.7V,200mW,SOT-2	1	S.A
....4	D1810	0403-001052	DIODE-ZENER;RD8.2MB,7.7-8.7V,200mW,SOT-2	1	S.A
....4	D1608	0403-001169	DIODE-ZENER;RLZ16C,15.96-16.51V,500MW,LL	1	S.A
....4	D1636	0403-001169	DIODE-ZENER;RLZ16C,15.96-16.51V,500MW,LL	1	S.A
....4	D1105	0403-001425	DIODE-ZENER;BZX84C33,31-35V,350mW,SOT-23	1	S.A
....4	D1405	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1406	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1408	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1409	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1413	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1414	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1422	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1423	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1446	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1447	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1601_LCD	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1602_LCD	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1605	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1607	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1615	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1616_LCD	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1617_LCD	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1618_LCD	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1619	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1622_LCD	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1623_LCD	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1630	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1631	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1632	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1633	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1634	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D1201	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D1801	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D1802	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D1803_NSID	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
....4	Q1101_LCD	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1102_LCD	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1104	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1203	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1204	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1205	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1206	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1207	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1208	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1209	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1210	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1211	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1602	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1603	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1604_RED	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1801	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1805	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1821	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1823	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q2201_LUX	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q2202_LCD	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1201	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	Q1202	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	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	0505-000110	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	0505-000110	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	0505-002169	FET-SILICON;Si4435BDY-T1-E3,P,-30V,-9.1A	1	S.N.A
....4	IC104	0801-002095	IC-CMOS LOGIC;74LCX245,TRANSCEIVER,TSSOP	1	S.A
....4	IC104	0801-002633	IC-CMOS LOGIC;NC7WBD3125,2BIT BUS SWITCH	1	S.A
....4	IC1802	0903-001488	IC-MICROCOMPUTER;M308A0SGP,LQFP,100P,14x	1	S.A
....4	IC1805	1001-000164	IC-ANALOG MULTIPLEX;74HC4052,CMOS,SOP,16	1	S.A
....4	IC106	1001-001440	IC-VIDEO SWITCH;Si19185CTU,QFP,80P,3.3V,	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	1103-000129	IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x	1	S.A
....4	IC112	1103-001385	IC-EEPROM;24C256,256Kbit,32Kx8,SOP,8P,5x	1	S.A
....4	IC113	1105-001791	IC-DRAM;EM6A9320BI,DDR,128Mbit,4Mx32,FBG	1	S.A
....4	DU410	1201-000166	IC-OP AMP;LM358,SOP,ST,8P,150MIL,DUAL,10	1	S.A
....4	T0124	1201-002430	IC-POWER AMP;NTP-3000,QFN,56P,8x8mm,DUAL	1	S.A
....4	IC012	1203-001519	IC-POSITIVE ADJUST REG.;LM317,SOT223,3P,274	1	S.A
....4	T0087	1203-001815	IC-POSITIVE FIXED REG.;78M09,TO-252,3P,-,PLA	1	S.A
....4	T0087	1203-002842	IC-POSITIVE FIXED REG.;AP1117D-33A,TO-252,3P	1	S.A
....4	T0087	1203-002855	IC-POSITIVE FIXED REG.;MC33269DTRK-5.0,DPRK,	1	S.A
....4	T0087	1203-002898	IC-POSITIVE FIXED REG.;G950T45R,TO-252,3P,6.	1	S.A
....4	T0087	1203-002974	IC-POSITIVE FIXED REG.;AP1117D-25A,TO-252,3P	1	S.A
....4	IC012	1203-002995	IC-POSITIVE ADJUST REG.;AP1117D-A,TO-252,3P,	1	S.A
....4	T0170	1203-003059	IC-SWITCH VOL. REG.;MP1583,SOIC,8P,4.9x3	1	S.A
....4	T0087	1203-003696	IC-POSITIVE FIXED REG.;NCP1117DT18T5G,DPAK,3	1	S.A
....4	IC1809	1203-004363	IC-VOL. DETECTOR;RT9818C-29PV,SOT-23,3P,	1	S.A
....4	IC1204	1203-004364	IC-VOL. DETECTOR;RT9818C-42PV,SOT-23,3P,	1	S.A
....4	IC1810	1203-004364	IC-VOL. DETECTOR;RT9818C-42PV,SOT-23,3P,	1	S.A
....4	IC1113	1203-004379	IC-DC/DC CONVERTER;AP1530SA,SOP,8P,5x3.9	1	S.A
....4	IC118	1204-002718	IC-VIDEO PROCESS;SVP-UJX68,BGA,336P,27x27	1	S.A
....4	IC1202	1204-002719	IC-AUDIO PROCESSOR;SGTV5810,LQFP,100P,14	1	S.A
....4	IC118	1204-002729	IC-VIDEO PROCESS;S4LF119X01,PBGA,208P,17	1	S.A
....4	D1471	1405-001185	VARIATOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	D1481	1405-001185	VARIATOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
....4	D1491_NSID	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	D1612	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	D1613	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	D1614	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	D1809	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A
....4	R1527	2007-000042	R-CHIP;499ohm,1%,1/10W,TP,1608	1	S.A
....4	R2139	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A
....4	R2226	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A
....4	R2227	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1903	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1904	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1905	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1906	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1907	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1908	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1909	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1910	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1941	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1944	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1993_LCD	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1111	2007-000060	R-CHIP;100Kohm,1%,1/10W,TP,1608	1	S.A
....4	R2205	2007-000060	R-CHIP;100Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1117	2007-000066	R-CHIP;20Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1118	2007-000067	R-CHIP;15Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1266	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1333_UX	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1334_UX	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1335_UX	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1336_UX	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1337_UX	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1338_UX	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1339_UX	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1340_UX	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1418	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1456	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1464	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1471	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1501_HDMI	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1502	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1503	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1505	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1507_HDMI	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1519	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1524	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1525	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1542	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1543	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1547	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1550	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1553	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1554	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1555	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1556	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1557	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1558	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1559	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1560	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1561	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1574	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1575	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1576	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1578	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1581_NSID	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1584	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1585	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1586_HDMI	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1587_HDMI	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1655	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1708_NMMS	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
....4	R1709_NMMS	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1710_NMMS	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1805	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1826	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1828	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1830	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1831	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1834	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1837	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1838	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1839	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1840	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1844	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1879	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1895	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1927	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1932	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1934	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1935	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1936	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1937	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1957	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1975	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1976	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2004	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2007	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2011	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2014_UX	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2015_UX	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2022_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2023_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2024_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2028_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2029_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2031_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2032_UX	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2033_UX	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2039_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2040_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2041_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2053	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2054_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2057_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2058_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2059	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2066	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2067	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2068	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2070_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2072_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2074_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2076_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2078_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2080_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
....4	R2379_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R2380_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1413	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1414	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1451	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1462	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1468	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1469	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1498_OP	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1499_OP	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1700_LAMP	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1701_LAMP	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	R2149	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	R2229	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R2230	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	R2281_OP	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1205	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1206	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1405	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1406	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1450	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1452	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1460	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1461	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1493_NSID	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1494_NSID	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1864	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1960	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1961	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R2201	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R2202	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1203	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1217	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1218	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1219	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1220	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1222	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1225	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1226	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1228	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1229	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1230	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1231	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1232	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1233	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1234	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1235	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1236	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1237	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1240	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1241	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1243	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1244	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1254	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1264	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1273	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1416	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1419	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1459	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1470	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1488	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1489	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1500_HDMI	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1603_LCD	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1617	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1631_LCD	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
....4	R1634	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1639_LCD	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1642_ASI	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1666	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1668	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1808	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1835	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1836	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1855	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1856	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1858	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1861	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1862	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1868	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1870	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1874	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1875	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1877	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1878	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1949	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1952	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1955	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2005	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2006	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2030	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2204	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2208	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2243_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2285_LCD	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2292_LCD	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2381_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2382_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2383_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2384_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2385_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2386_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2387_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2388_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2389_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2390_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2391_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R2392_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R1101	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	S.A
....4	R1267	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	S.A
....4	R1268	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	S.A
....4	R1582	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	S.A
....4	R1583	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	S.A
....4	R1654	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	S.A
....4	R1659	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	S.A
....4	R1846	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	S.A
....4	R1891	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	S.A
....4	R1403	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R1404	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R1407	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R1412	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R1442	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R1444	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R1605	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R1613	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R1628_LCD	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R1629_LCD	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R1657	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R1661	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R1688	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R1691	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R1958	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R2052	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R2246_LCD	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R2287_LCD	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
....4	R1265	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1408	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1463	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1495_NSID	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1640_LCD	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1641_LCD	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1698_PAD	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1702_LAMP	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1823	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1829	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1833	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1845	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1915_LCD	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1929	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1939	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1951	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2008	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2061	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2210	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2252_LCD	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2284_LCD	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2293_LCD	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1816	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1820	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1821	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1866	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1867	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2288_LCD	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2289_LCD	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1109_LCD	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1248	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1250	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1256	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1257	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1411	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1467	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1497_HDMI	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1520	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1521	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1523	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1552	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1697_RED	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1802	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1803	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1807	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1809_ASI	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1818	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1819	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1824	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1825	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1865	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1885	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1886	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1887	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1888	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1892	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1893	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1902	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1912	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1913	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1917	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1918	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1923	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1925	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1930	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1954	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1959	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1974	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1989	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
....4	R1991	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1992	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1994_PAD	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1995	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1997	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1998	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1999	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2254_LCD	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2286_LCD	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2294_LUX	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2295_LCD	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2371_FBE	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2372_FBE	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2373_FBE	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2374_HD	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1114	2007-000086	R-CHIP;5.6Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1627	2007-000087	R-CHIP;6.8Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1669	2007-000087	R-CHIP;6.8Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1106_LCD	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1107_LCD	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1119	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1204	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1207	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1208	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1209	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1212	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1401	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1402	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1409	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1445	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1446	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1453	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1454	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1457	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1465	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1466	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1490_HDMI	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1491_HDMI	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1496_HDMI	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1588	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1801	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1813	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1814	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1815	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1876	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1880	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1881	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1882	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1883	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1889	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1896	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1931_2M	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1938_2M	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1972	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1996	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	R2150	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2151	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2152	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2290_FBE	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1126	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1104	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1201	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1202	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1221	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1223	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1224	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1227	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1242	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
....4	R1245	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1687	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1690	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1812	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1540	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1541	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1102_LCD	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1103	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1120_12V	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1699_LAMP	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2203	2007-000106	R-CHIP;220Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2207	2007-000106	R-CHIP;220Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2209	2007-000106	R-CHIP;220Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1990	2007-000107	R-CHIP;470Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1271	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R1272	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2017_UX	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2019_UX	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2020_UX	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R2025	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R1128	2007-000116	R-CHIP;120ohm,5%,1/10W,TP,1608	1	S.A
....4	R2148	2007-000118	R-CHIP;390ohm,5%,1/10W,TP,1608	1	S.A
....4	R1350	2007-000119	R-CHIP;560ohm,5%,1/10W,TP,1608	1	S.A
....4	R1940	2007-000120	R-CHIP;680ohm,5%,1/10W,TP,1608	1	S.A
....4	R1108_LCD	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1349	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1694_RED	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1695_RED	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1696_RED	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1942	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1973	2007-000129	R-CHIP;27Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1124	2007-000208	R-CHIP;1.1Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1113	2007-000219	R-CHIP;1.2Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1671_ASI	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	S.A
....4	R1420	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1421	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1423	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1424	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1428	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1429	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1430	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1431	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1432	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1433	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1434	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1435	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1436	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1437	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1438	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1439	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1472	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1473	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1474	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1475	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1476	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1477	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1478	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1479	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1480	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1481	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1482	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1483	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1484	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1485	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1486	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1487	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1504_HDMI	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1506_HDMI	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1508_HDMI	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
....4	R1509_HDMI	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1510_HDMI	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1511_HDMI	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1512_HDMI	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1513_HDMI	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1514_HDMI	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1515_HDMI	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1516_HDMI	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1518_HDMI	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1538_HDMI	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1539_HDMI	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1544_HDMI	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1546_HDMI	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1577	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1579	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1580	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1841	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1842	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1847	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1848_1M2M	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1849_1M2M	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1857	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1859	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1860	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1863	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1869	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1871	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1872	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1873	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1953_2M	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1637_LCD	2007-000312	R-CHIP;10ohm,5%,1/4W,TP,3216	1	S.A
....4	R1638_LCD	2007-000312	R-CHIP;10ohm,5%,1/4W,TP,3216	1	S.A
....4	R1616	2007-000458	R-CHIP;18Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1665	2007-000458	R-CHIP;18Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1686	2007-000458	R-CHIP;18Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1689	2007-000458	R-CHIP;18Kohm,5%,1/10W,TP,1608	1	S.A
....4	R2021	2007-000475	R-CHIP;1Mohm,1%,1/10W,TP,1608	1	S.A
....4	R1123	2007-000640	R-CHIP;270ohm,1%,1/10W,TP,1608	1	S.A
....4	R1112	2007-000643	R-CHIP;270ohm,5%,1/10W,TP,1608	1	S.A
....4	R2318_FBE	2007-000669	R-CHIP;2Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1258	2007-000683	R-CHIP;3.3Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1269	2007-000869	R-CHIP;4.7Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1246	2007-000882	R-CHIP;4.7ohm,5%,1/10W,TP,1608	1	S.A
....4	R1247	2007-000882	R-CHIP;4.7ohm,5%,1/10W,TP,1608	1	S.A
....4	R1249	2007-000882	R-CHIP;4.7ohm,5%,1/10W,TP,1608	1	S.A
....4	R1251	2007-000882	R-CHIP;4.7ohm,5%,1/10W,TP,1608	1	S.A
....4	R1252	2007-000882	R-CHIP;4.7ohm,5%,1/10W,TP,1608	1	S.A
....4	R1253	2007-000882	R-CHIP;4.7ohm,5%,1/10W,TP,1608	1	S.A
....4	R1259	2007-000882	R-CHIP;4.7ohm,5%,1/10W,TP,1608	1	S.A
....4	R1260	2007-000882	R-CHIP;4.7ohm,5%,1/10W,TP,1608	1	S.A
....4	R1410	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R1415	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R1422	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R1601_LCD	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R1602_LCD	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R1618	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R1619	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R1620	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R1633_LCD	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R1125	2007-000962	R-CHIP;5.1Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1115	2007-000979	R-CHIP;5.6Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1121	2007-000979	R-CHIP;5.6Kohm,1%,1/10W,TP,1608	1	S.A
....4	R2233	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R2237	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R1131	2007-001135	R-CHIP;68ohm,5%,1/4W,TP,3216	1	S.A
....4	R1132	2007-001135	R-CHIP;68ohm,5%,1/4W,TP,3216	1	S.A
....4	R1425	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R1426	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R1427	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
....4	R1611_LCD	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R1612_LCD	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R1623	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R1624	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R1625	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R1626	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R1635_LCD	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R1636	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R1670	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R2206	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R1440	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R1441	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R1443	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R1447	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R1448	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R1449	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R1455	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R1458	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R2055	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R2056	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	RA2201	2011-000002	R-NET;22ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA2202	2011-000002	R-NET;22ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA2203	2011-000002	R-NET;22ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA2204	2011-000002	R-NET;22ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA2205	2011-000002	R-NET;22ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA2206	2011-000002	R-NET;22ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA2207	2011-000002	R-NET;22ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA2208	2011-000002	R-NET;22ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1803	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1804	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1807	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1808	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1809	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1811	2011-000651	R-NET;10ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1814	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	S.A
....4	RA1401_NSI	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	S.A
....4	RA1402_NSI	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	S.A
....4	RA1403_NSI	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	S.A
....4	RA2209_FBE	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	S.A
....4	RA2212	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	S.A
....4	RA2213	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	S.A
....4	RA2214	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	S.A
....4	RA2215	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	S.A
....4	RA2216	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	S.A
....4	RA2217	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	S.A
....4	RA2218	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	S.A
....4	RA1801	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1802	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1806	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1810	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1812	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1813	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1815	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1816	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1818	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1820	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1821	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1822	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	RA1823	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	S.A
....4	C1106	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1111	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1118	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1120	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1122	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1129	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1143	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1144	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1151	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

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
....4	C1170	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1178	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1214	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1216	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1217	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1218	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1219	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1220	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1221	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1231	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1232	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1256	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1281	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1282	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1295	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1296	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1298	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1300	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1303	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1319	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1339	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1402	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1414	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1416	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1423_NSID	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1427	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1428	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1429	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1430	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1445	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1446	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1448	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1449	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1450	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1451	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1452	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1453	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1454	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1645	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1648	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1819	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1820	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1851	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2074	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2077_UX	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2078_UX	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2079_UX	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2085	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2086	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2087	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2088	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2091	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2092	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2093	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2095	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2096	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2097	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2098	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2101	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2121	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2272_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2273_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2274_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2281_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2282_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2283_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2302_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2304_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2305_FBE	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	S.A/S.N.A
....4	C2316_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2409	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C2227	2203-000204	C-CER,CHIP;100nF,10%,25V,X7R,2012	1	S.A
....4	C2228	2203-000204	C-CER,CHIP;100nF,10%,25V,X7R,2012	1	S.A
....4	C1293	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1309	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1408	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1409	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1417	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1418	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1419	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1420	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1601_LCD	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1605	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1607	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1608_LCD	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1620	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1622	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C2406	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C2407	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1101	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1116	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1121	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1130	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1138	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1148	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1155	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1164	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1173	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1174	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1647	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1652	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1653	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1654_PAD	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1655	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1656_LAMP	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1853	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2027	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2032	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2033	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2034	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2035	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2043	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2044	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2045	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2105	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2106	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2107	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2108	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2109	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2110	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2111	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2112	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2113	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2114	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2115	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2116	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2117	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2118	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2119	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2120	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2206	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2207	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2208	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2209	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2210	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2221	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2231	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2268_LCD	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
....4	C2269_LCD	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2275_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2276_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2277_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2284_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2285_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2286_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2293_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2294_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2295_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2296_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2297_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2312_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2313_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2314_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2315_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C2317_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1855	2203-000332	C-CER,CHIP;0.012nF,5%,50V,C0G,1608	1	S.A
....4	C1856	2203-000332	C-CER,CHIP;0.012nF,5%,50V,C0G,1608	1	S.A
....4	C1112	2203-000405	C-CER,CHIP;0.18nF,5%,50V,C0G,1608	1	S.A
....4	C1205	2203-000426	C-CER,CHIP;0.018nF,5%,50V,C0G,1608	1	S.A
....4	C1206	2203-000426	C-CER,CHIP;0.018nF,5%,50V,C0G,1608	1	S.A
....4	C2080	2203-000426	C-CER,CHIP;0.018nF,5%,50V,C0G,1608	1	S.A
....4	C2082	2203-000426	C-CER,CHIP;0.018nF,5%,50V,C0G,1608	1	S.A
....4	C1215	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1230	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1272	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1273	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1274	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1277	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1279	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1283	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1291	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1292	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1294	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1299	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1308	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1310	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1311	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1816	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1818	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1823	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1843	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C2257_LCD	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C2288_FBE	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C2289_FBE	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C2299_FBE	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C2300_FBE	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C2301_FBE	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C1105	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,1608	1	S.A
....4	C2019	2203-000531	C-CER,CHIP;2.7nF,10%,50V,X7R,1608	1	S.A
....4	C2030	2203-000531	C-CER,CHIP;2.7nF,10%,50V,X7R,1608	1	S.A
....4	C1824	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	S.A
....4	C1825	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	S.A
....4	C1134	2203-000715	C-CER,CHIP;3.3nF,10%,50V,X7R,1608	1	S.A
....4	C1403	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C1404	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C1411	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C1412	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C1457	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C1458	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C1603_LCD	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C1609_LCD	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C1610_LCD	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C1613_LCD	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C1614_LCD	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C1615_LCD	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C1619	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A
....4	C1621	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
....4	C1317	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	S.A
....4	C1318	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	S.A
....4	C1107	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C1233	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C1234	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C1235	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C1236	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C1259	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C1260	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C1261	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C1262	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C1263	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C1264	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C1265	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C1266	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C1267	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C1268	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C2203	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C2204	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	S.A
....4	C1278	2203-000925	C-CER,CHIP;470nF,+80-20%,50V,Y5V,2012	1	S.A
....4	C1302	2203-000925	C-CER,CHIP;470nF,+80-20%,50V,Y5V,2012	1	S.A
....4	C1136	2203-000972	C-CER,CHIP;47nF,10%,16V,X7R,1608	1	S.A
....4	C1612	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	S.A
....4	C1624	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	S.A
....4	C1651	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	S.A
....4	C1800	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	S.A
....4	C1801	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	S.A
....4	C2319_FBE	2203-001034	C-CER,CHIP;5.6nF,10%,50V,X7R,1608	1	S.A
....4	C2320_FBE	2203-001052	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1608	1	S.A
....4	C1203	2203-001222	C-CER,CHIP;0.82nF,10%,50V,X7R,1608	1	S.A
....4	C1226	2203-001222	C-CER,CHIP;0.82nF,10%,50V,X7R,1608	1	S.A
....4	C1227	2203-001222	C-CER,CHIP;0.82nF,10%,50V,X7R,1608	1	S.A
....4	C1202	2203-001402	C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608	1	S.A
....4	C1139	2203-001607	C-CER,CHIP;0.22nF,5%,50V,NP0,1608	1	S.A
....4	C1284	2203-002398	C-CER,CHIP;22nF,10%,50V,X7R,1608	1	S.A
....4	C1285	2203-002398	C-CER,CHIP;22nF,10%,50V,X7R,1608	1	S.A
....4	C1290	2203-002398	C-CER,CHIP;22nF,10%,50V,X7R,1608	1	S.A
....4	C1316	2203-002398	C-CER,CHIP;22nF,10%,50V,X7R,1608	1	S.A
....4	C1128	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1146	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1147	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1153	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1154	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1157	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1159	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1161_LCD	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1162	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1171	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1425	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1650_RED	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1826	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1827	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1829	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1830	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1831	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1836	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1837	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1838	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1847	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1849	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C1854	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C2201	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C2202	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C2214	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C2215	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C2253_LCD	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C2265_LCD	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C2404	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C2405	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
....4	C1132	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C1135_LCD	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C1201	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C1286	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C1288	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C1289	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C1312	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C1852	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2003	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2004	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2006	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2008	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2011	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2014	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2016	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2017	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2020	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2022	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2023	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2024	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2031	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2039	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2040	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2041	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2042	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2052	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2055	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2056	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2059	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2060	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2061	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2062	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2070	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2071	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2072	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2073	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2075	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2076	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2255_LCD	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C2256_LCD	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C1210	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1276	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1280	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1297	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1305	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1321	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1322	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1323	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1324	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	S.A
....4	C1102	2203-005809	C-CER,CHIP;1000nF,10%,16V,X7R,-,2012	1	S.A
....4	C2266_LCD	2203-005809	C-CER,CHIP;1000nF,10%,16V,X7R,-,2012	1	S.A
....4	C1222	2203-005918	C-CER,CHIP;1000nF,10%,6.3V,X7R,1608	1	S.A
....4	C1223	2203-005918	C-CER,CHIP;1000nF,10%,6.3V,X7R,1608	1	S.A
....4	C1224	2203-005918	C-CER,CHIP;1000nF,10%,6.3V,X7R,1608	1	S.A
....4	C1225	2203-005918	C-CER,CHIP;1000nF,10%,6.3V,X7R,1608	1	S.A
....4	C1237	2203-005918	C-CER,CHIP;1000nF,10%,6.3V,X7R,1608	1	S.A
....4	C1238	2203-005918	C-CER,CHIP;1000nF,10%,6.3V,X7R,1608	1	S.A
....4	C1239	2203-005918	C-CER,CHIP;1000nF,10%,6.3V,X7R,1608	1	S.A
....4	C1240	2203-005918	C-CER,CHIP;1000nF,10%,6.3V,X7R,1608	1	S.A
....4	C1241	2203-005918	C-CER,CHIP;1000nF,10%,6.3V,X7R,1608	1	S.A
....4	C1242	2203-005918	C-CER,CHIP;1000nF,10%,6.3V,X7R,1608	1	S.A
....4	C1243	2203-005918	C-CER,CHIP;1000nF,10%,6.3V,X7R,1608	1	S.A
....4	C1244	2203-005918	C-CER,CHIP;1000nF,10%,6.3V,X7R,1608	1	S.A
....4	C1245	2203-005918	C-CER,CHIP;1000nF,10%,6.3V,X7R,1608	1	S.A
....4	C1247	2203-005918	C-CER,CHIP;1000nF,10%,6.3V,X7R,1608	1	S.A
....4	C1103	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1145	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1152	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1156	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
....4	C1160_LCD	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1166_LCD	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1208	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1211	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1212	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1213	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1228	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1229	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1246	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1248	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1251	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1252	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1253	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1254	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1255	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1271	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1301	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1304	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1401	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1413	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1415	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1422_NSID	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1426	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1431	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1432	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1435	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1447	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1455	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1456	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1459	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1460	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1461	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1646	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1821	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1822	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1828	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1839	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1840	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1846	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1850	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C2089	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C2090	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C2211	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C2212	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C2213	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C2220	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C2280_FBE	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C2287_FBE	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C2298_FBE	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1424	2402-001086	C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3	1	S.A
....4	C1117	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1123	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1127	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1131	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1140	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1150	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1158	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1204	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1269	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1270	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C2267_LCD	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1149	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1179	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1649	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C2408	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1137	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C1209	2402-001226	C-AL,SMD;4.7UF,20%,35V,HR,TP,4.3X4.3X5.8	1	S.A
....4	C1104	2402-001238	C-AL,SMD;1uF,20%,50V,HR,TP,4.3x4.3x5.2mm	1	S.A
....4	C1110	2402-001263	C-AL,SMD;1000uF,20%,10V,WT,SMD,10x10	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A
....4	C1165	2402-001263	C-AL,SMD;1000uF,20%,10V,WT,SMD,10x10	1	S.A
....4	C1167	2402-001263	C-AL,SMD;1000uF,20%,10V,WT,SMD,10x10	1	S.A
....4	C1177	2402-001263	C-AL,SMD;1000uF,20%,10V,WT,SMD,10x10	1	S.A
....4	C1275	2402-001273	C-AL,SMD;220uF,20%,35V,WT,REEL,10X10mm	1	S.A
....4	C1287	2402-001273	C-AL,SMD;220uF,20%,35V,WT,REEL,10X10mm	1	S.A
....4	C1108	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
....4	C1141	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
....4	C1172	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
....4	C1175	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
....4	C2046	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
....4	C2099	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	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	2703-000417	INDUCTOR-SMD;220uH,5%,3225	1	S.A
....4	T0052	2703-001229	INDUCTOR-SMD;2.2uH,10%,1608	1	S.A
....4	T0052	2703-001229	INDUCTOR-SMD;2.2uH,10%,1608	1	S.A
....4	T0052	2703-001229	INDUCTOR-SMD;2.2uH,10%,1608	1	S.A
....4	T0052	2703-001229	INDUCTOR-SMD;2.2uH,10%,1608	1	S.A
....4	T0052	2703-001229	INDUCTOR-SMD;2.2uH,10%,1608	1	S.A
....4	T0052	2703-001229	INDUCTOR-SMD;2.2uH,10%,1608	1	S.A
....4	T0052	2703-001229	INDUCTOR-SMD;2.2uH,10%,1608	1	S.A
....4	T0052	2703-001426	INDUCTOR-SMD;680uH,20%,7070	1	S.A
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	S.A
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	S.A
....4	T0052	2703-002722	INDUCTOR-SMD;22uH,20%,12x12mm	1	S.A
....4	T0052	2703-002722	INDUCTOR-SMD;22uH,20%,12x12mm	1	S.A
....4	L1201	2704-000018	INDUCTOR-SMD-ARRAY;15uH,2000mA,2,0.124oh	1	S.N.A
....4	L1202	2704-000018	INDUCTOR-SMD-ARRAY;15uH,2000mA,2,0.124oh	1	S.N.A
....4	X1802	2801-003326	CRYSTAL-SMD;24MHZ,30PPM,28-ABX,20PF,500H	1	S.A
....4	X2001	2801-003326	CRYSTAL-SMD;24MHZ,30PPM,28-ABX,20PF,500H	1	S.A
....4	X1201	2801-003804	CRYSTAL-SMD;24.576MHz,30ppm,28-AAN,20pF,	1	S.A
....4	X1801	2801-003923	CRYSTAL-SMD;10MHz,30ppm,28-AAN,20pF,60oh	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	3301-001148	BEAD-SMD;60ohm,1608,TP,-,-	1	S.N.A
....4	T0568	3301-001163	BEAD-SMD;80ohm,2012,TP,-,192ohm/867MHz	1	S.N.A
....4	T0568	3301-001163	BEAD-SMD;80ohm,2012,TP,-,192ohm/867MHz	1	S.N.A
....4	T0568	3301-001176	BEAD-SMD;80ohm,2012,TP,-,-	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

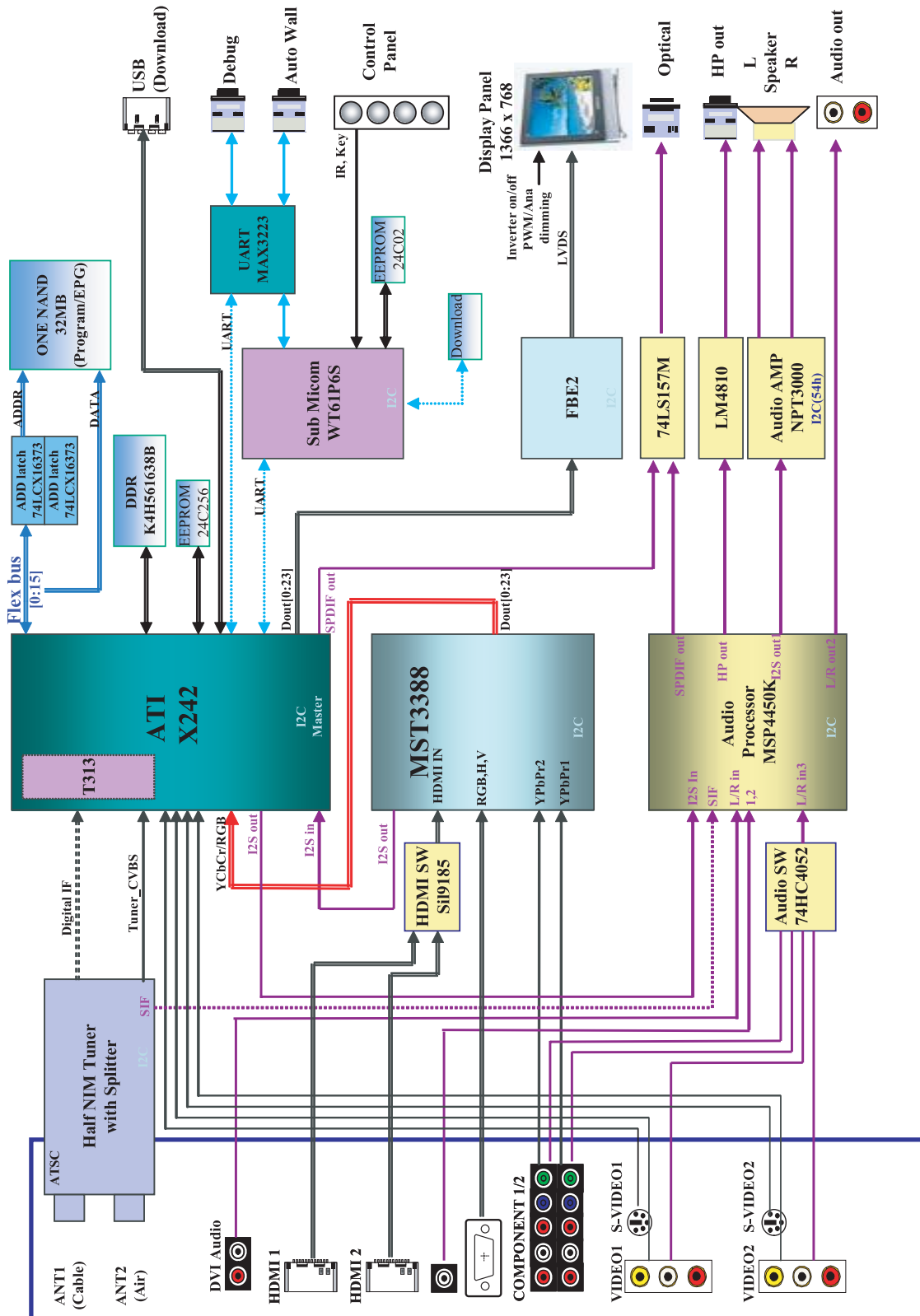
6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	S.A/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	3301-001393	BEAD-SMD;60ohm,3216,1500mA,TP,41ohm/40MH	1	S.N.A
....4	T0568	3301-001393	BEAD-SMD;60ohm,3216,1500mA,TP,41ohm/40MH	1	S.N.A
....4	T0568	3301-001393	BEAD-SMD;60ohm,3216,1500mA,TP,41ohm/40MH	1	S.N.A
....4	T0568	3301-001393	BEAD-SMD;60ohm,3216,1500mA,TP,41ohm/40MH	1	S.N.A
....4	T0568	3301-001393	BEAD-SMD;60ohm,3216,1500mA,TP,41ohm/40MH	1	S.N.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A
....4	T0568	3301-001428	BEAD-SMD;2000ohm,2x1.25x0.85mm,200mA,TP,	1	S.N.A
....4	T0568	3301-001428	BEAD-SMD;2000ohm,2x1.25x0.85mm,200mA,TP,	1	S.N.A
....4	T0568	3301-001428	BEAD-SMD;2000ohm,2x1.25x0.85mm,200mA,TP,	1	S.N.A
....4	JA1404	3701-001367	CONNECTOR-HDMI;19P,2R,FEMALE,SMD,AU	1	S.A
....4	JA1407	3701-001367	CONNECTOR-HDMI;19P,2R,FEMALE,SMD,AU	1	S.A
....4	M0018	BN97-01388C	ASSY MICOM;T-BDPMPEUS-1004,N30A,T-CALMPE	1	S.N.A
....5	IC520	0903-001485	IC-MICROCONTROLLER;44P,12x12mm,24MHz,TR,	1	S.N.A
....4	MAIN	BN97-01595A	ASSY MICOM-MAIN;T-BDPMPEA-1012,200707.27	1	S.N.A
....5	IC115	1107-001453	IC-FLASH MEMORY;-16Mbit,2Mx8/1Mx16,T SOP	1	S.N.A
....4	T0077	BN41-00839E	PCB MAIN;READY BORDEAUX PLUS,JASMINE,TUL	1	S.N.A

7 Block Diagram

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

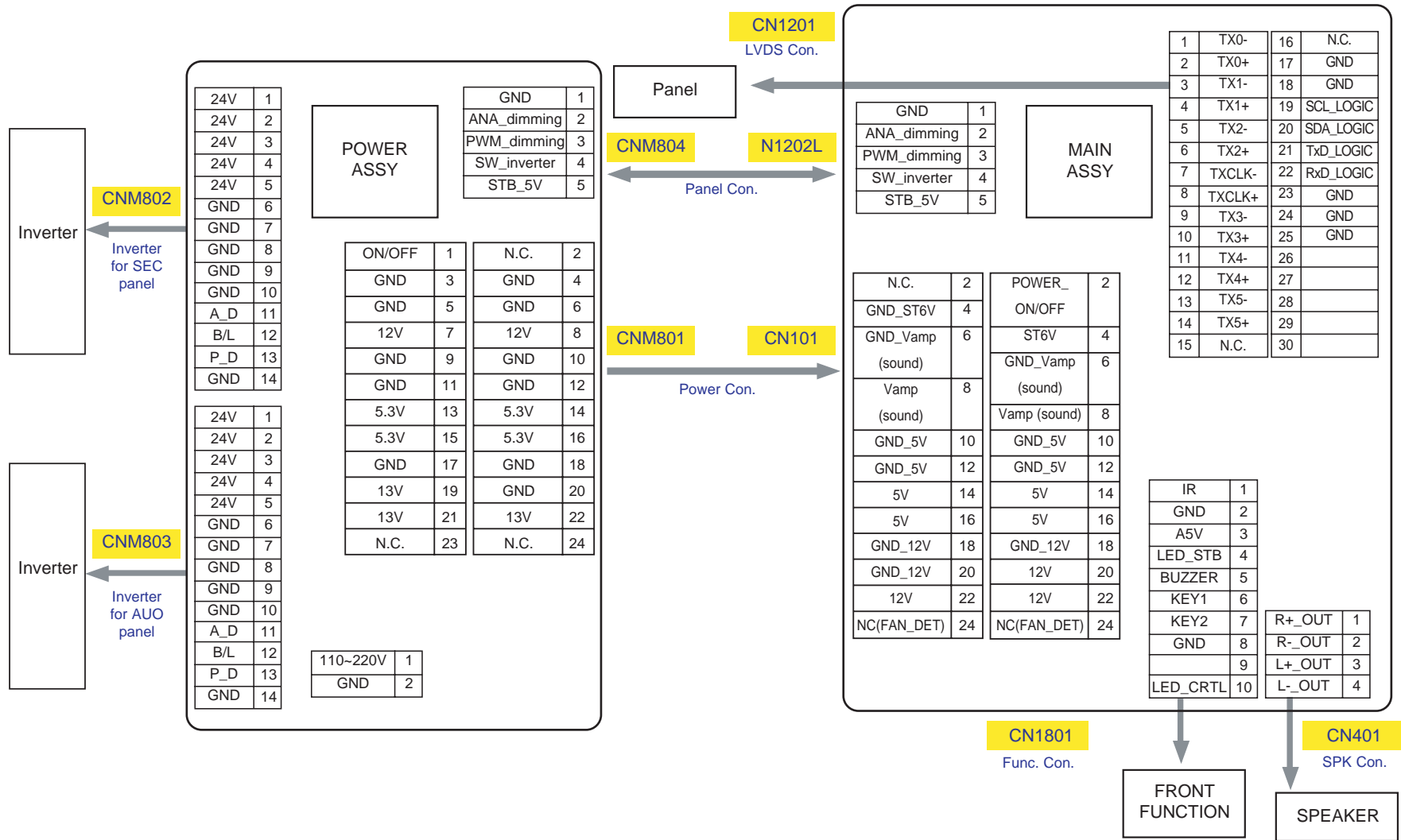
X242 Block Diagram - Entry



Memo

8 Wiring Diagram

8-1 Wiring Diagram



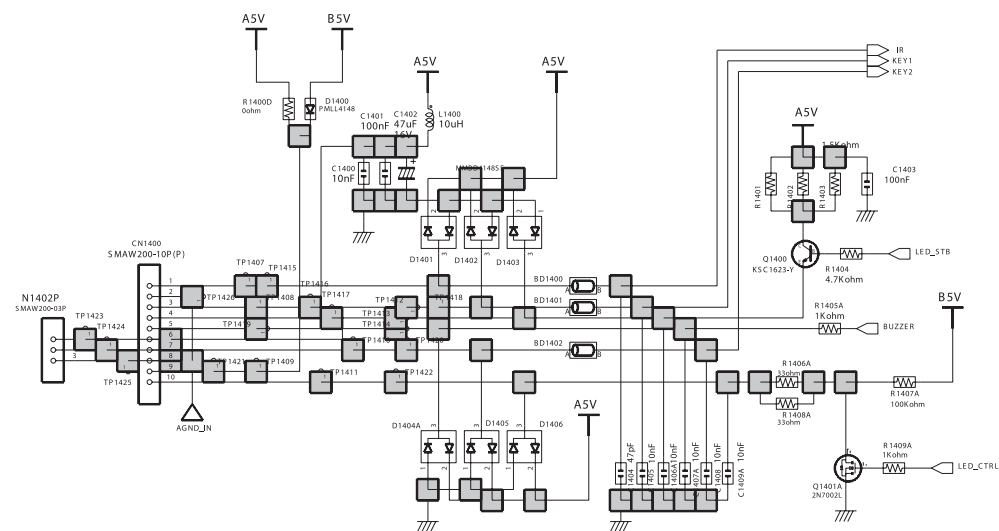
Memo

9 Schematic Diagrams

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

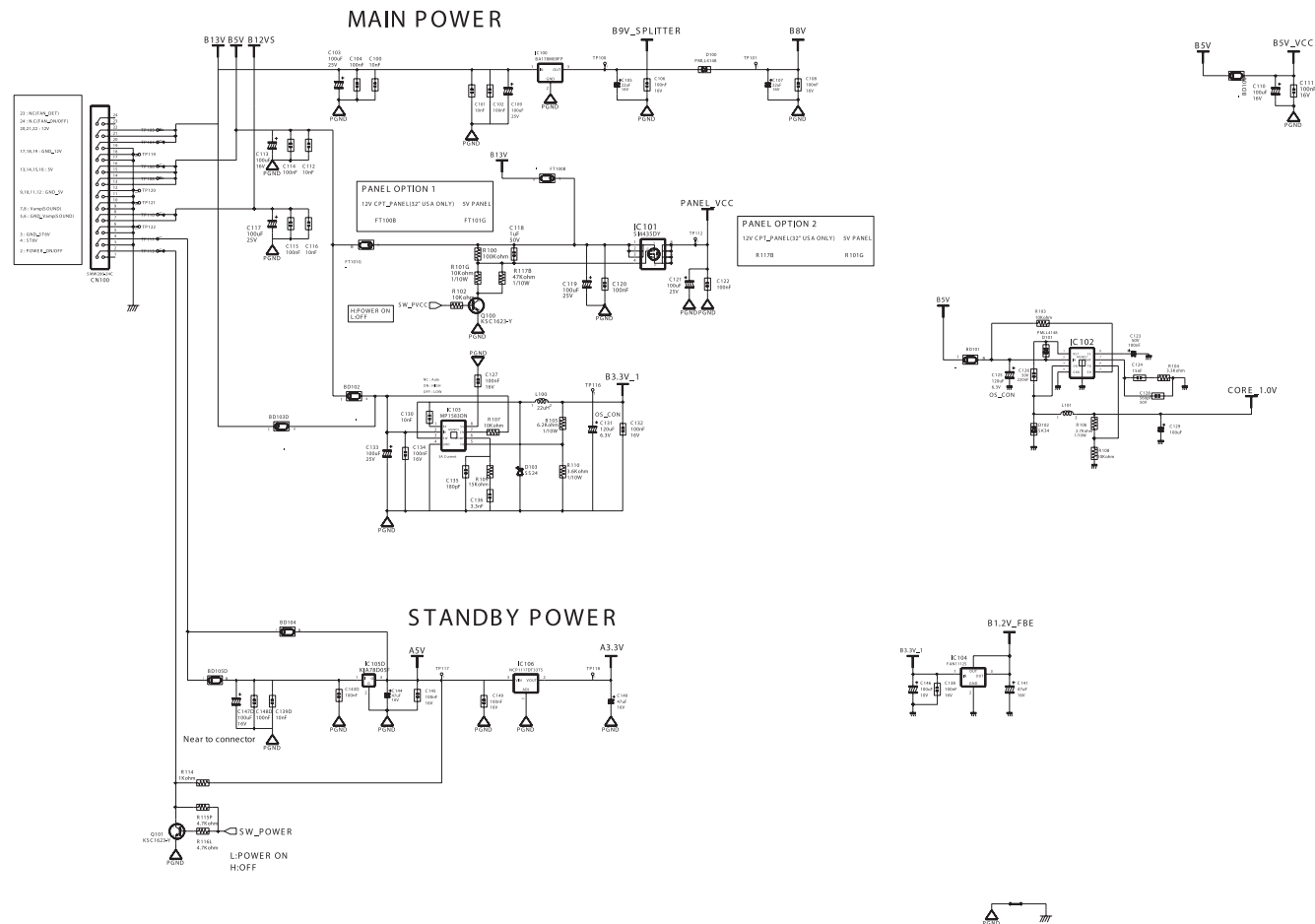
9-1 SUB-FUNCTION Schematic Diagram

SUB FUNCTION I/F



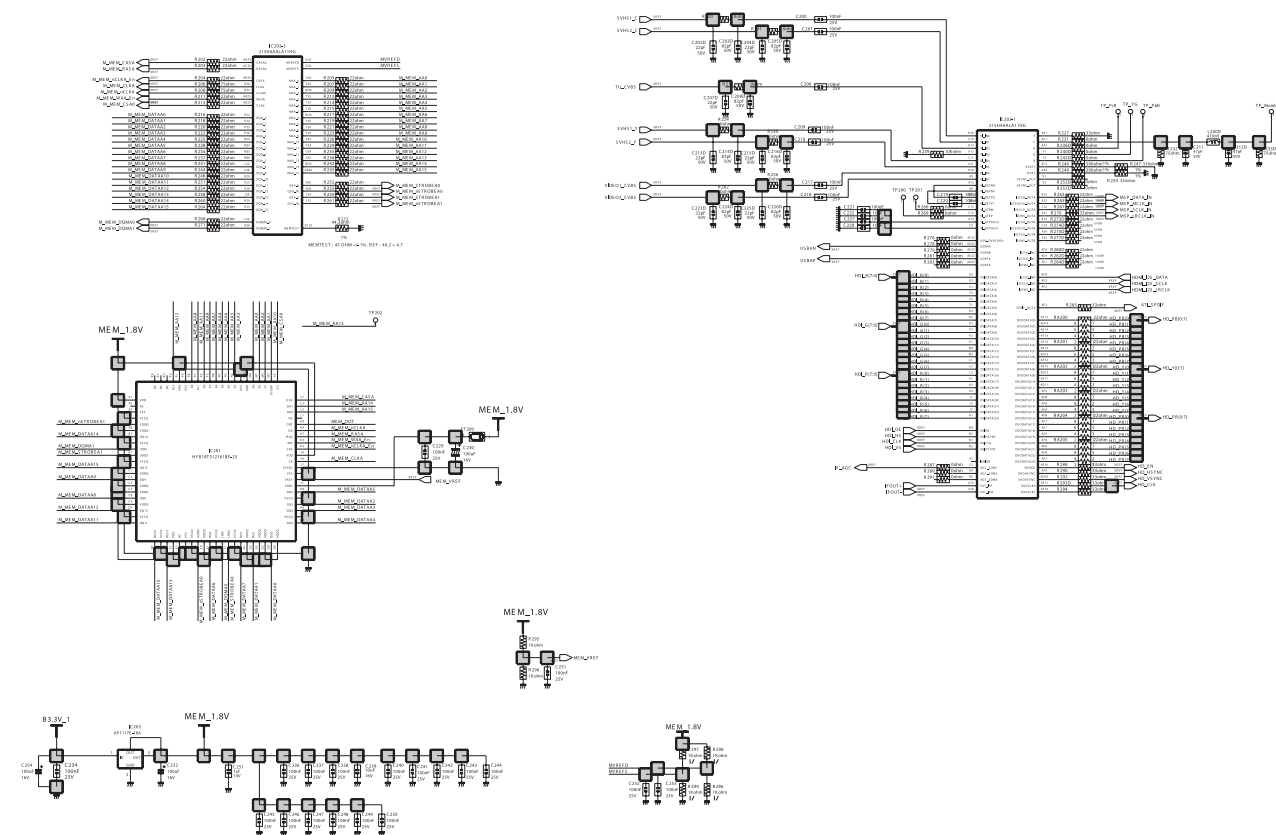
- This Document can not be used without Samsung's authorization.

9-2



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

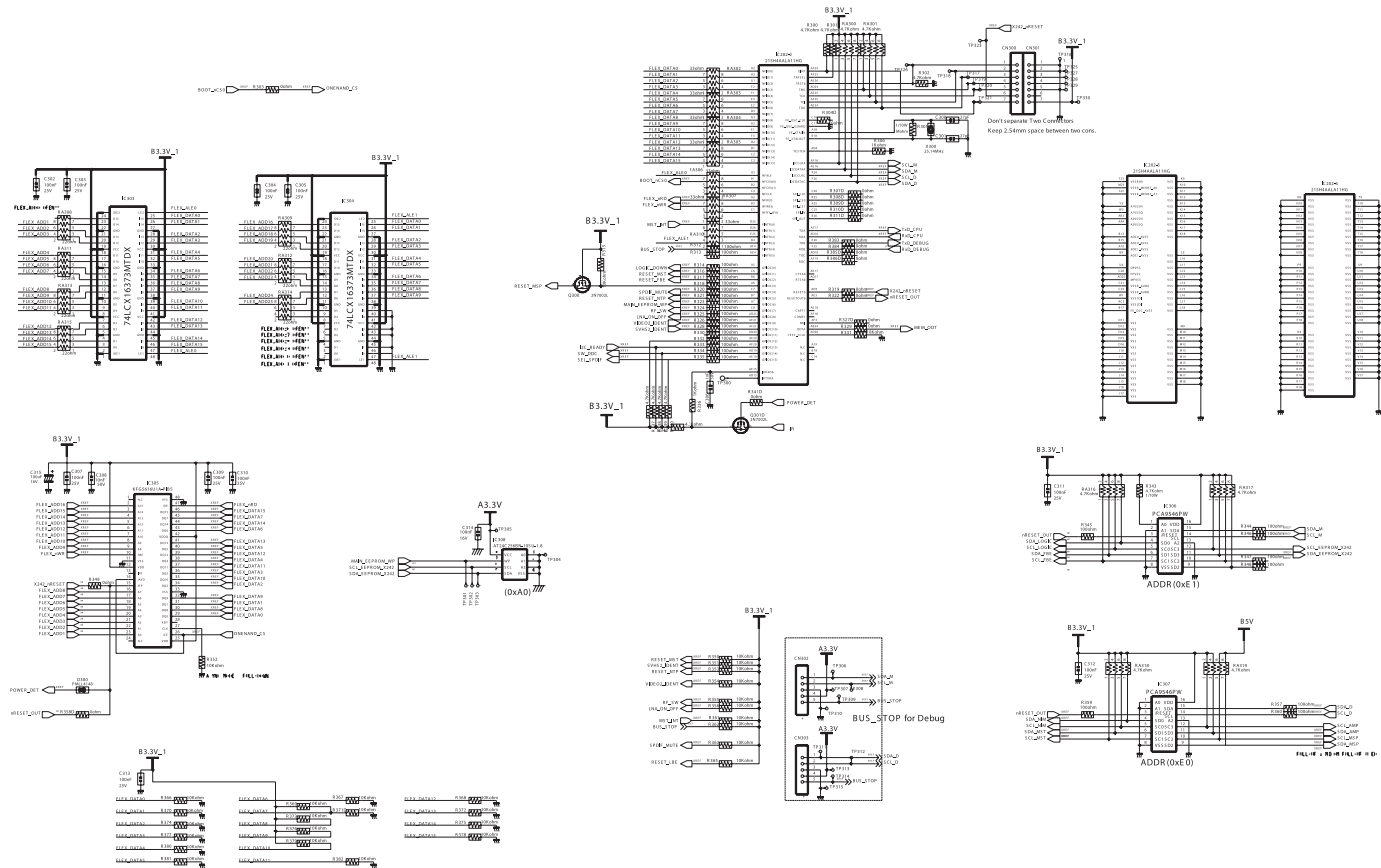
9-3 X242 INOUT MEM Schematic Diagram



9 Schematic Diagrams

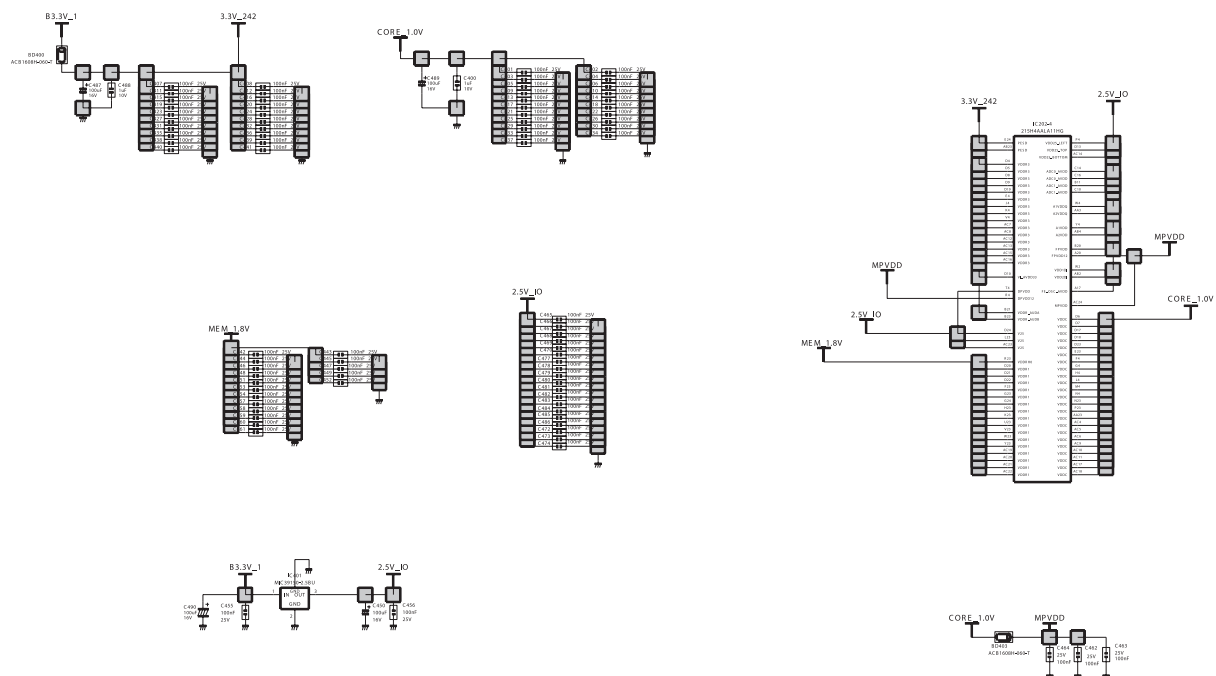
- This Document can not be used without Samsung's authorization.

9-4 FLEXBUS_PCI_FLASH Schematic Diagram



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

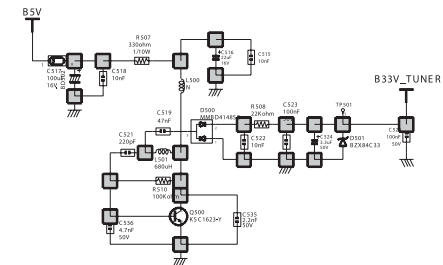
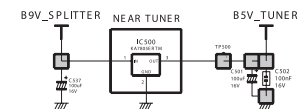
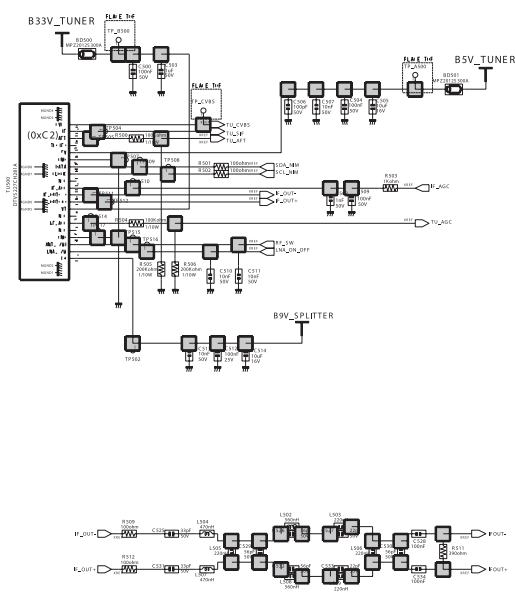
9-5 X242 POWER Schmetic Diagram



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

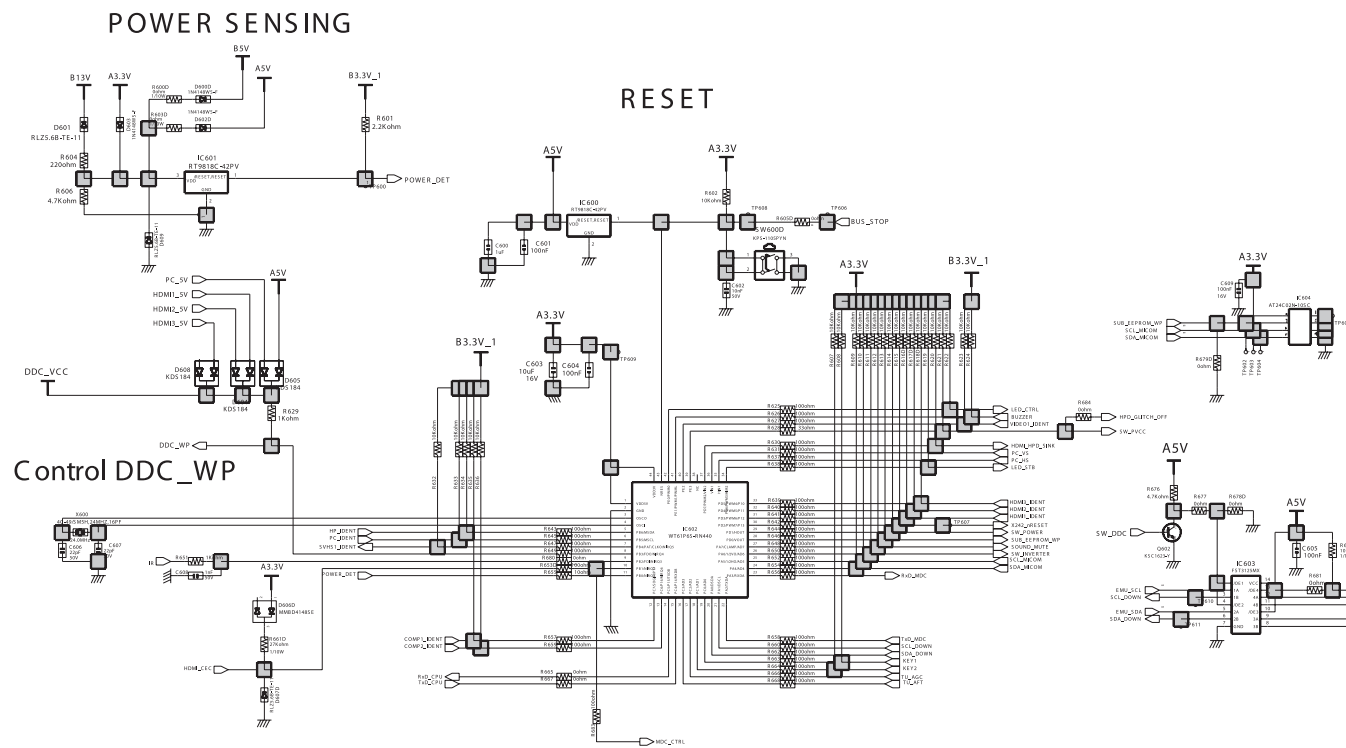
9-6 TUNER & SPLITTER Schmetic Diagram

ATSC HALF NIM TUNER

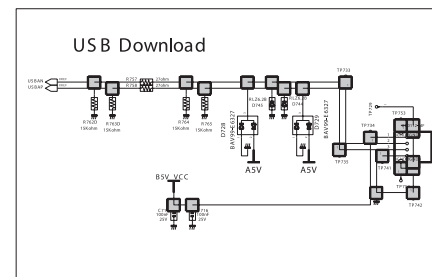
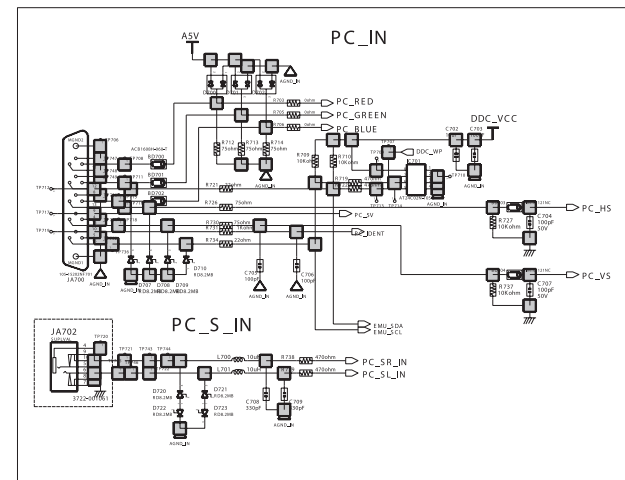
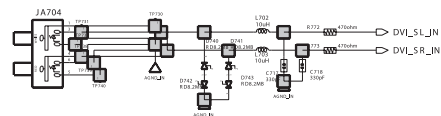


- This Document can not be used without Samsung's authorization.

9-7 STANDBY MICOM (WT61P6S) Schmetic Diagram

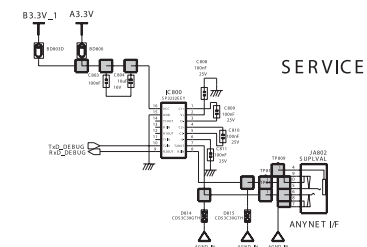
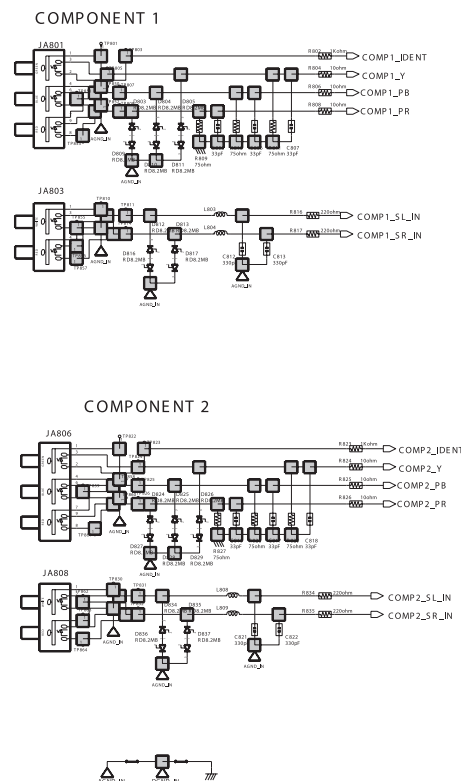
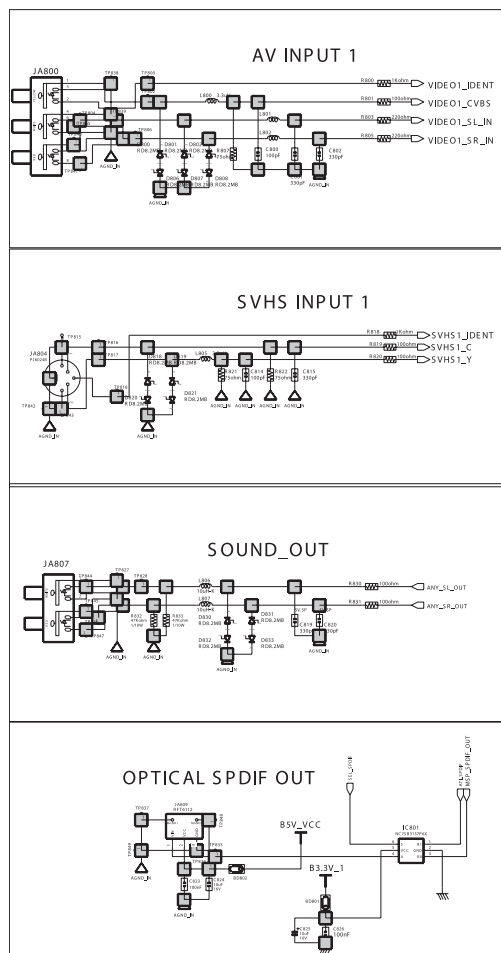


9-8



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

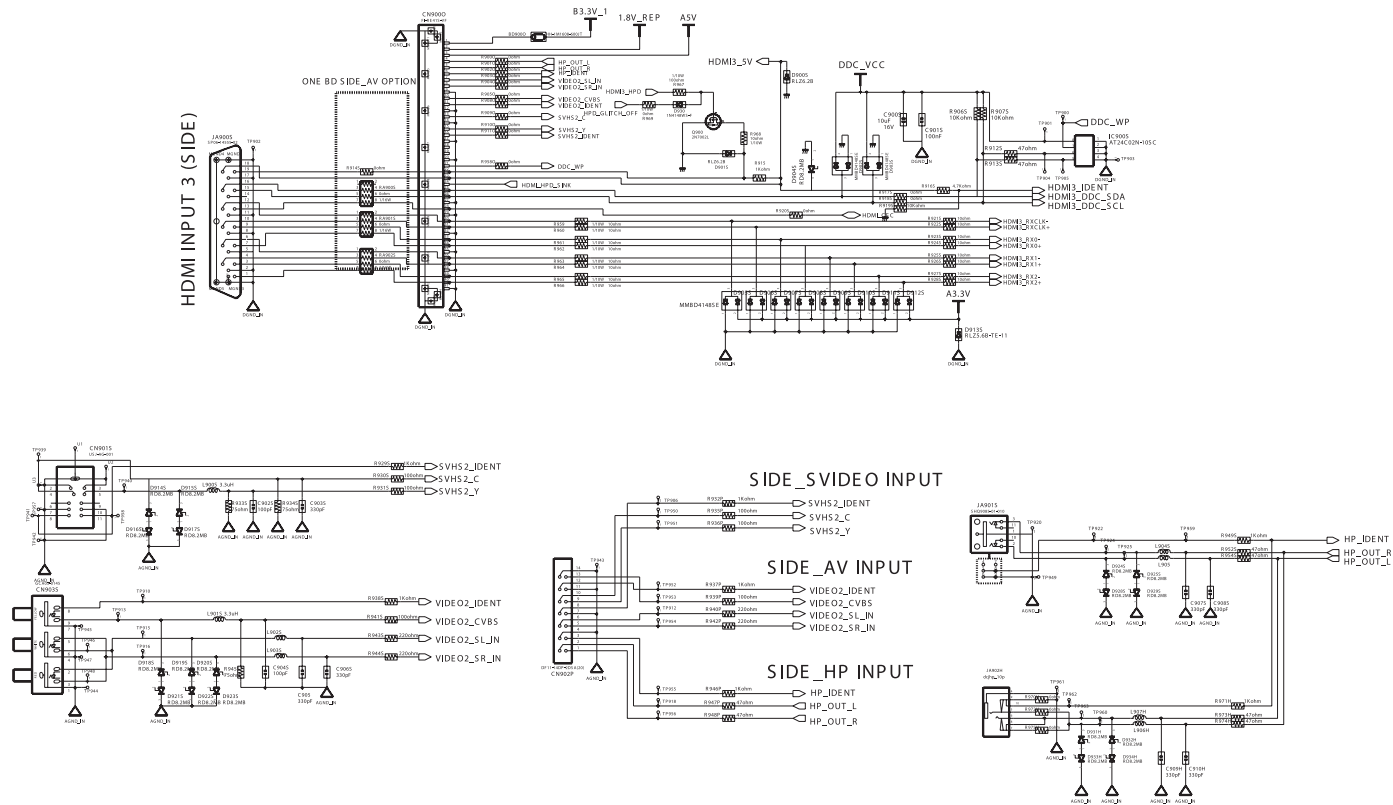
9-9 AV INPUT / OUTPUT Schmatic Diagram



9 Schematic Diagrams

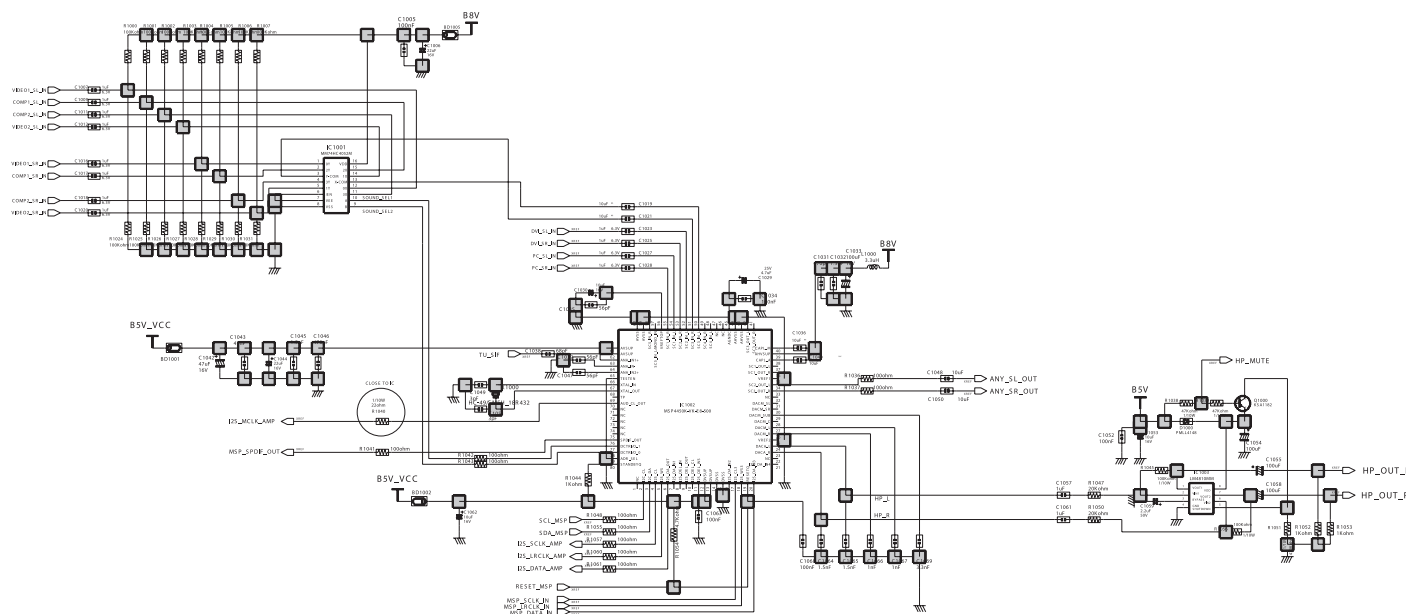
- This Document can not be used without Samsung's authorization.

9-10 SIDE AV Schmatic Diagram



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

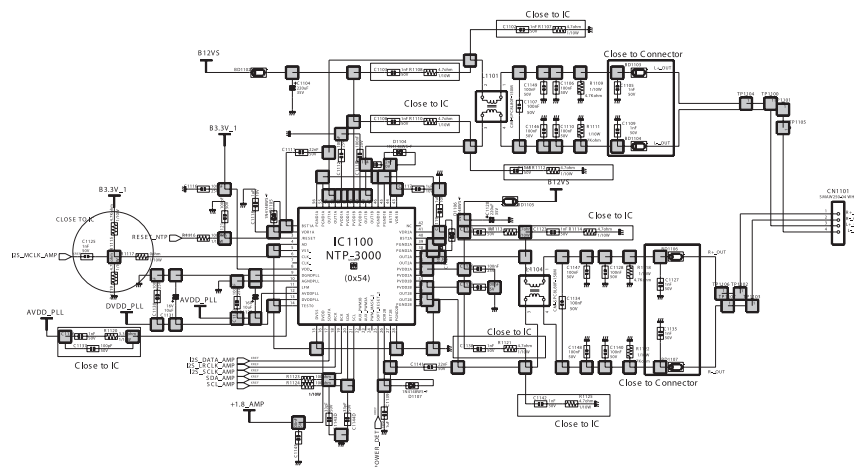
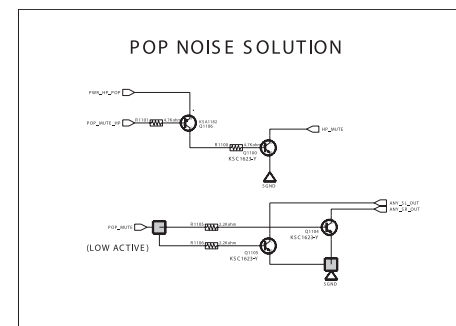
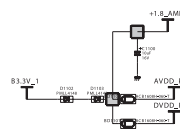
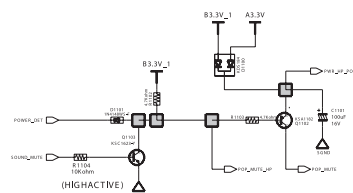
9-11 MSP4450K Schmatic Diagram



9 Schematic Diagrams

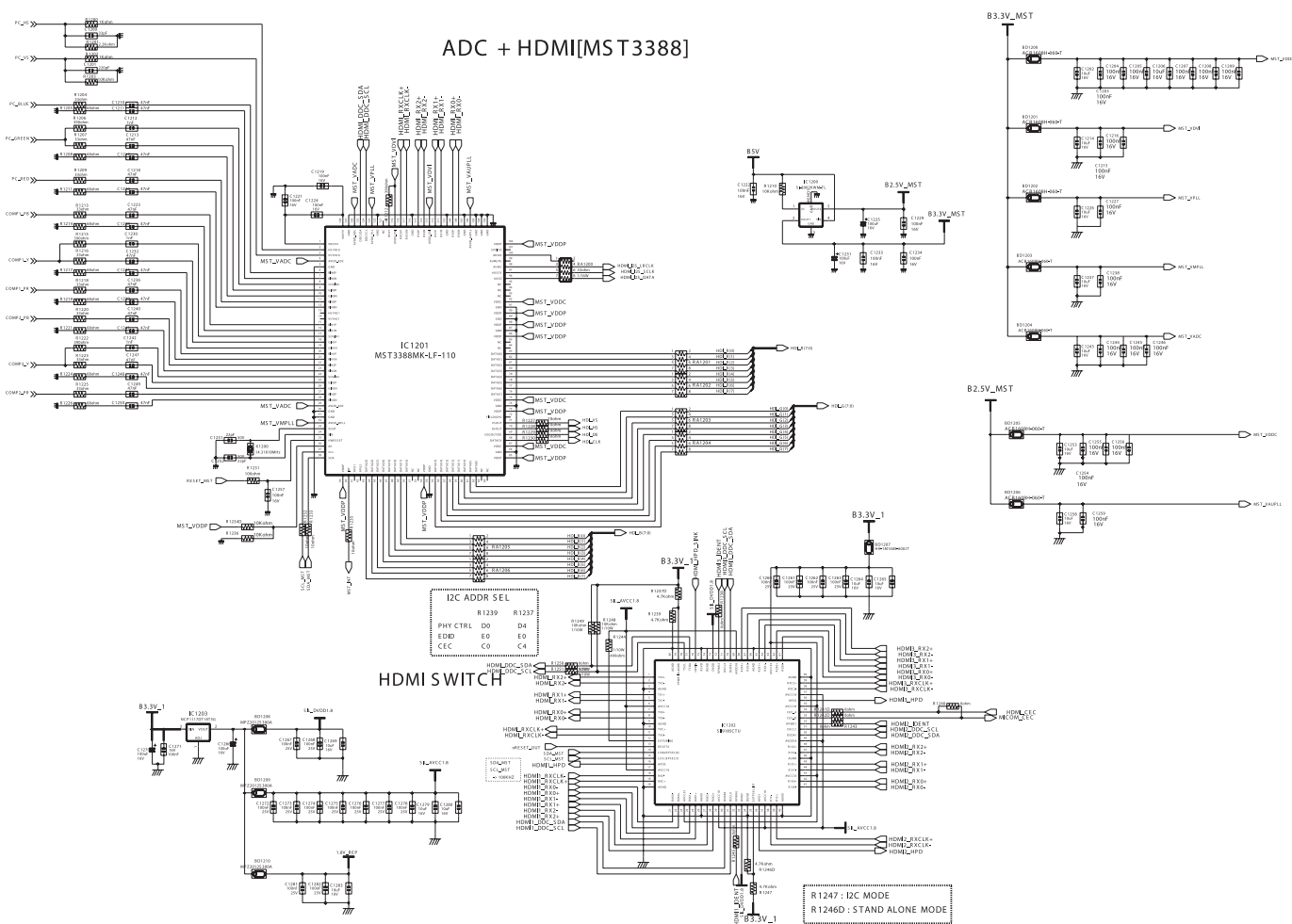
- This Document can not be used without Samsung's authorization.

9-12 SOUND AMP(NTP3000) Schmatic Diagram



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

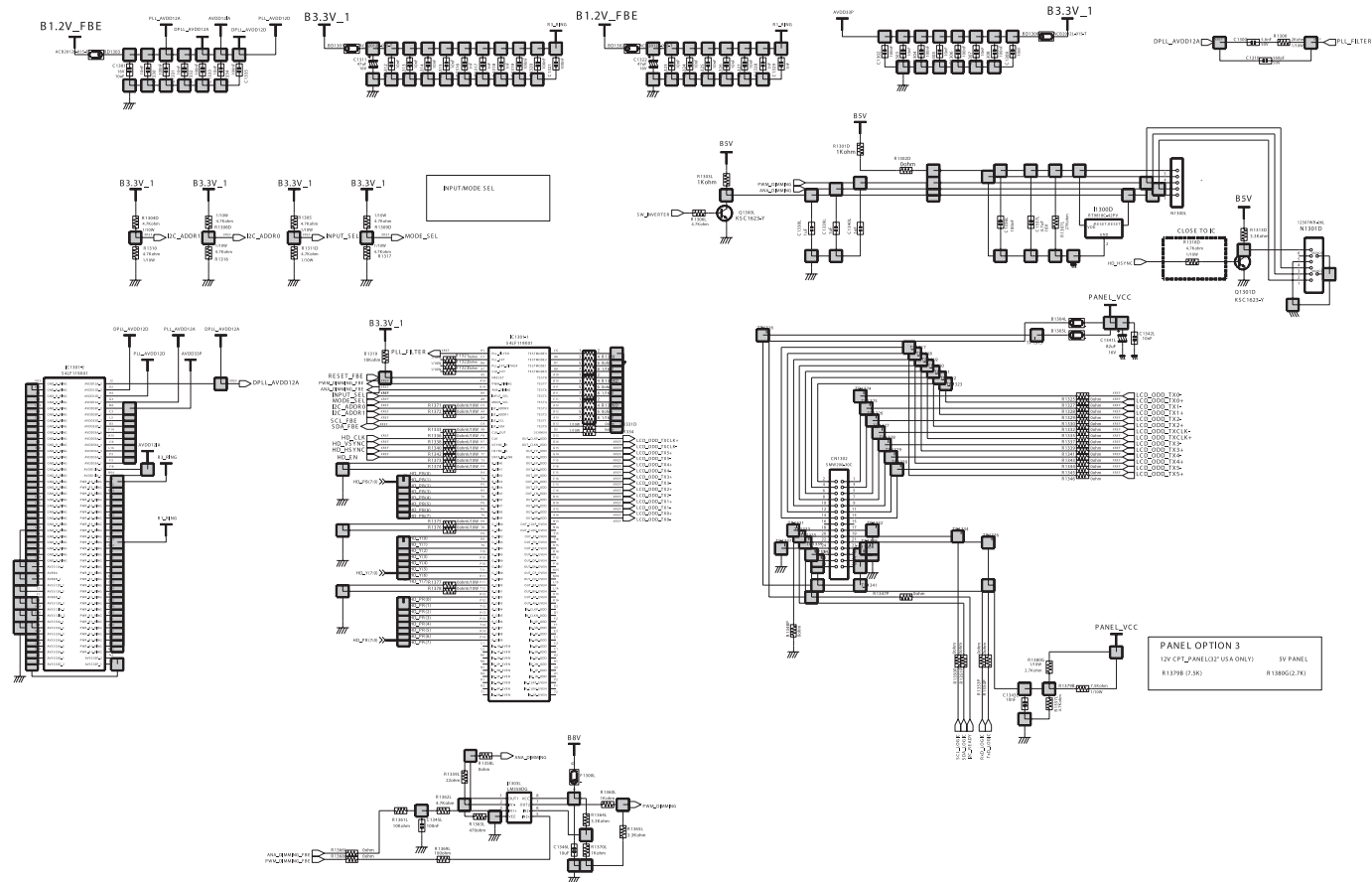
9-13 MST3388 & SIL9185 Schmatic Diagram



9 Schematic Diagrams

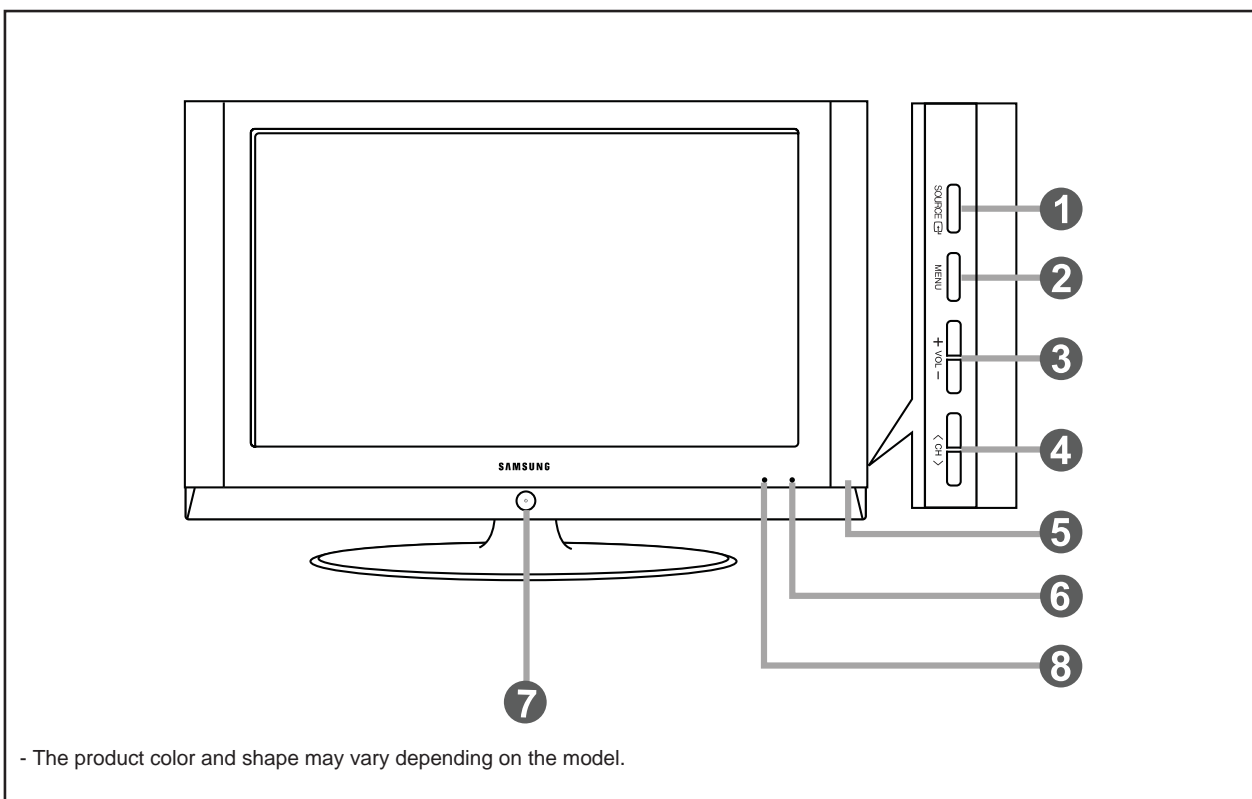
- This Document can not be used without Samsung's authorization.

9-14 FBE Schmetic Diagram



10 Operating Instructions and Installation

10-1 Front



1. SOURCE

Toggles between all the available input sources (TV, AV1, AV2, S-Video 1, S-Video 2, Component1, Component2, PC, HDMI1, HDMI2)

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

- The LN-T2332H and LN-T2632H models supports TV, AV, S-Video, Component1, Component2, PC, HDMI1 and HDMI2.

2. MENU

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

3. + VOL —

Press to decrease or increase the volume.

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

4. < CH >

Press to change channels.

In the on-screen menu, use the < CH > buttons as you use the ▼ and ▲ buttons on the remote control.

5. SPEAKERS

6. REMOTE CONTROL SENSOR

Aim the remote control towards this spot on the TV.

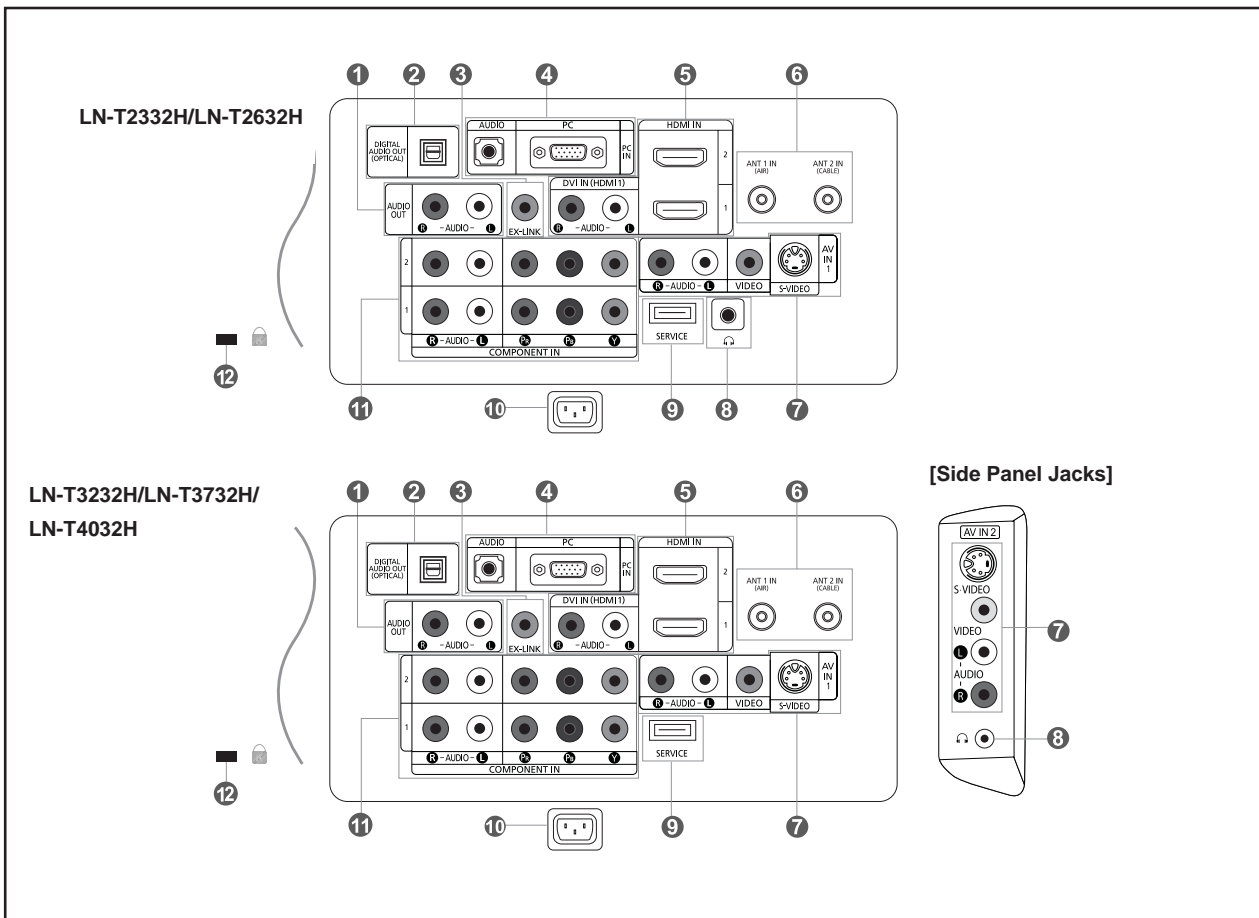
7. (POWER)

Press to turn the TV on and off.

8. POWER INDICATOR

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

10-2 Connection Panel



1. AUDIO OUT

Connects to the audio input jacks on your Amplifier/ Home theater.

2. DIGITAL AUDIO OUT (OPTICAL)

Connect to a Digital Audio component.

3. EX-LINK

Connect this to the jack on the optional wall mount bracket. This will allow you to adjust the TV viewing angle using your remote control.

4. PC IN

Connects to the video and audio output jacks on your PC.

5. HDMI IN 1,2 /DVI IN(HDMI1) (AUDIO R/L)

Connect to the HDMI jack of a device with an HDMI output. Use the HDMI 1 IN terminal for a DVI connection to an external device. You should use the DVI to HDMI cable or DVI-HDMI adapter (DVI to HDMI) for a video connection, and the DVI IN 'R-AUDIO-L' terminal for audio.

- No sound connection is needed for an HDMI to HDMI connection
- When using an HDMI/DVI cable connection, it is only possible from the HDMI IN 1 terminal.

6. ANT 1 IN/ANT 2 IN

Connects to an antenna or cable TV system.

7. AV IN 1, AV IN 2

(LN-T3232H/LN-T3732H/LN-T4032H)

Video and audio inputs for external devices, such as a camcorder or VCR.

S-VIDEO

Connects an S-Video signal from a camcorder or VCR.

8. HEADPHONE

Connects a set of external headphones for private listening.

9. SERVICE

Connector for service only.

10. POWER INPUT

Connect the supplied power cord.

11. COMPONENT IN 1,2

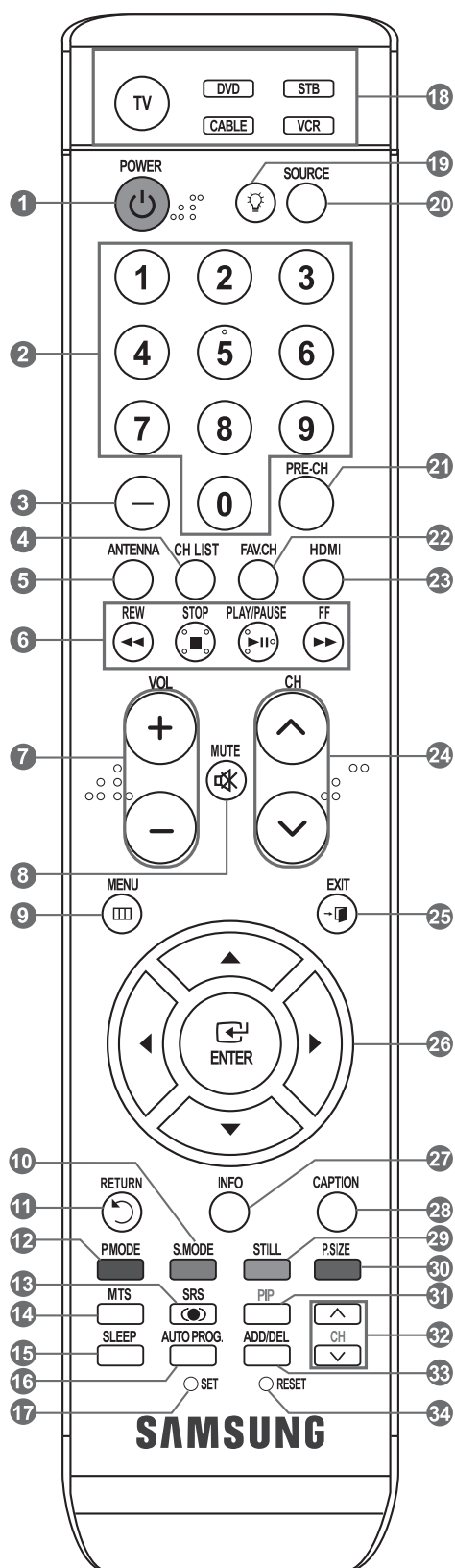
Connects Component video/audio.

12. 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



- This is a special remote control for the visually impaired, and has Braille points on the Power, Channel and Volume buttons.

1. POWER

Turns the TV on and off.

2. NUMERIC BUTTONS

Press to change the channel.

3. _

Press to select additional channels(digital and analog) being broadcast by the same station. For example, to select channel "54-3", press "54", then press "." and "3".

4. CH LIST

Used to display Channel Lists on the screen.

5. ANTENNA

Press to select "AIR" or "CABLE".

6. VCR/DVD Functions

- Rewind
- Stop
- Play/Pause
- Fast/Forward

7. VOL \oplus / VOL \ominus

Press to increase or decrease the volume.

8. \odot (MUTE)

Press to temporarily cut off the sound.

9. MENU

Displays the main on-screen menu.

10.S.MODE

Sound mode selection.

11.RETURN

Returns to the previous menu.

12.P.MODE

Picture effect selection.

13.SRS

Selects TruSurround XT mode.

14.MTS

Press to choose stereo, mono or Separate Audio Program(SAP broadcast).

15.SLEEP

Press to select a preset time interval for automatic shut off.

16. AUTO PROG.

Press to automatically store selected TV/Cable channels.

17. SET

Adjusts 5 separate devices -
TV, VCR, Cable, DVD, or Set-Top Box

18. TV, DVD, STB, CABLE, VCR

Make the remote control work for TV,
DVD, STB, CABLE, or VCR

19.When pressing this button, a number of buttons on the remote control (e.g. TV, DVD, STB, CABLE, VCR, MUTE, VOL and CH buttons) light up for a few seconds and then turn off to save power. This function is convenient for using the remote at night or when dark.

20.SOURCE

Press to display all of the available video sources.

21. PRE-CH

Turns to the previous channel.

22. FAV.CH

Press to switch to your favorite channels.

23.HDMI

Selects the HDMI mode directly.

24.CH \odot / CH \odot

Press to change channels.

25.EXIT

Press to exit the menu.

26.UP \blacktriangle / DOWN \blacktriangledown / LEFT \blacktriangleleft / RIGHT \blacktriangleright / ENTER

Use to select on-screen menu items and change menu values.

27.INFO

Press to display information on the TV screen.

28.CAPTION

Controls the caption decoder.

29.STILL

Press to stop the action during a particular scene. Press again to resume normal video.

30.P.SIZE

Picture size selection.

31.PIP

Picture-in Picture ON/OFF.

32.CH \wedge / \vee

Displays the available channels in sequence. (These buttons change channels in the PIP window only.)

33.ADD/DEL

Use to store and delete channels to/from memory.

34.RESET

When your remote does not work, change the batteries and press the RESET button for 2-3 seconds before use.




11 Disassembly and Reassembly

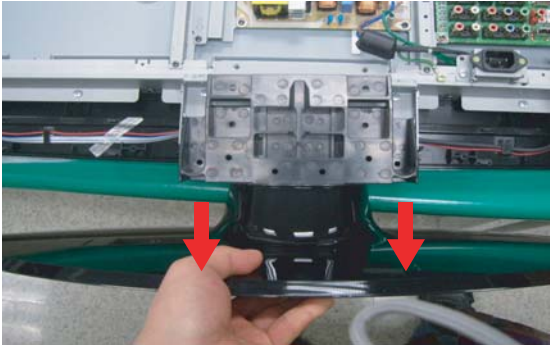

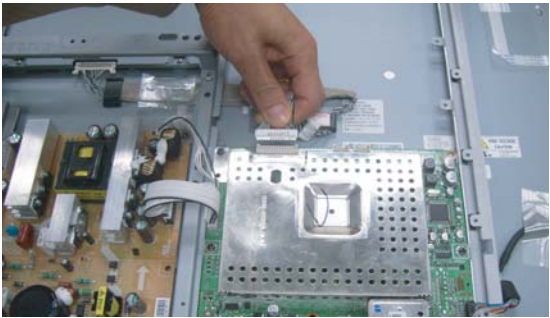
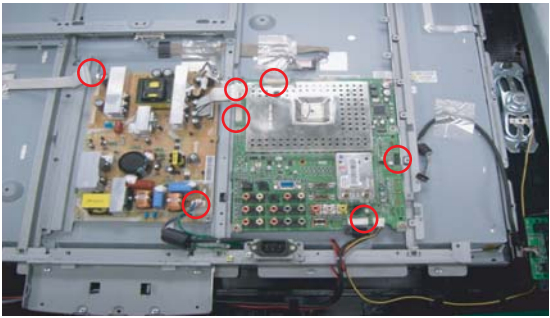
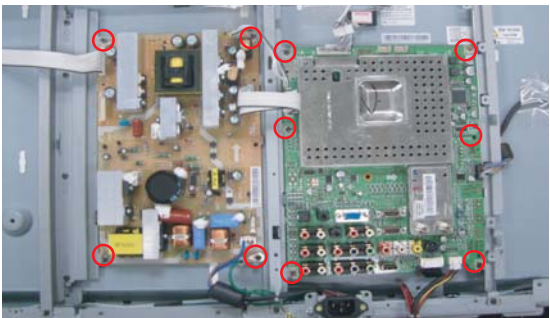
This section of the service manual describes the disassembly and reassembly procedures for the TFT-LCD TV.


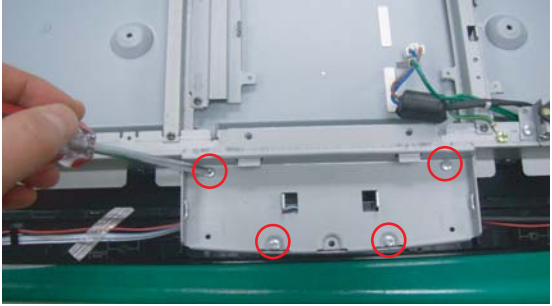
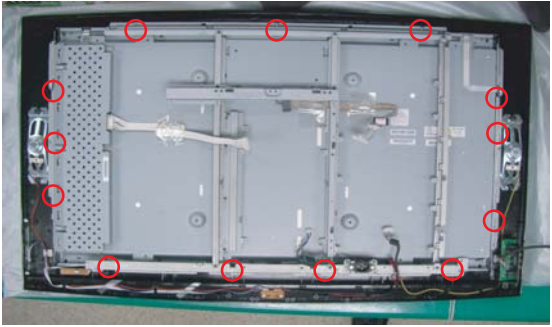
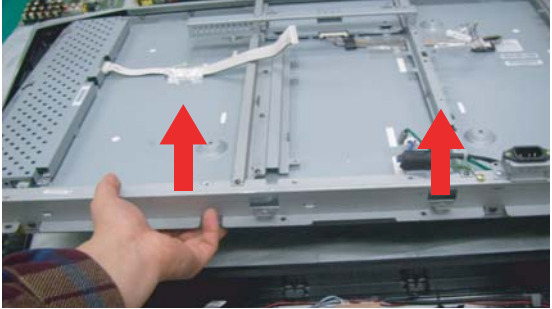

⚠ WARNING : This monitor contains electrostatically sensitive devices. Use caution when handling these components.

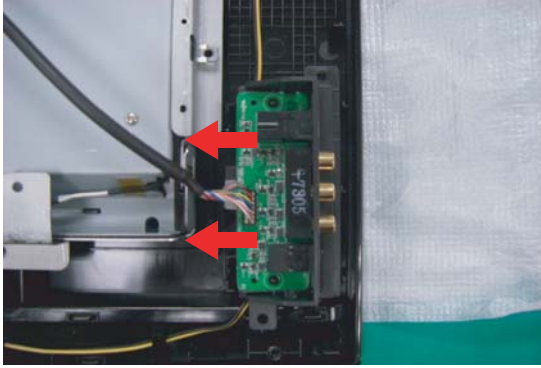
11-1 Disassembly

- ⚠ 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	Description Picture
1. Place monitor face down on cushioned table. Remove screws from the rear cover. Remove screws from the stand.	
	
	

Description	Description Picture
<p data-bbox="177 259 542 286">2. Remove stand from the set.</p>	<div data-bbox="833 253 1385 598"></div> <div data-bbox="833 638 1385 978"></div>
<p data-bbox="177 1021 718 1164">3. Disconnect cables from the mainboard and SMPS. Remove screws from the main board and SMPS.</p>	<div data-bbox="833 1025 1385 1341"></div> <div data-bbox="833 1375 1385 1691"></div> <div data-bbox="833 1724 1385 2040"></div>

Description	Description Picture
<p>4. Remove screws from the stand BRKT and lift up the stand BRKT.</p>	
	
<p>5. Remove screws and lift up the LCD panel.</p>	
	
	

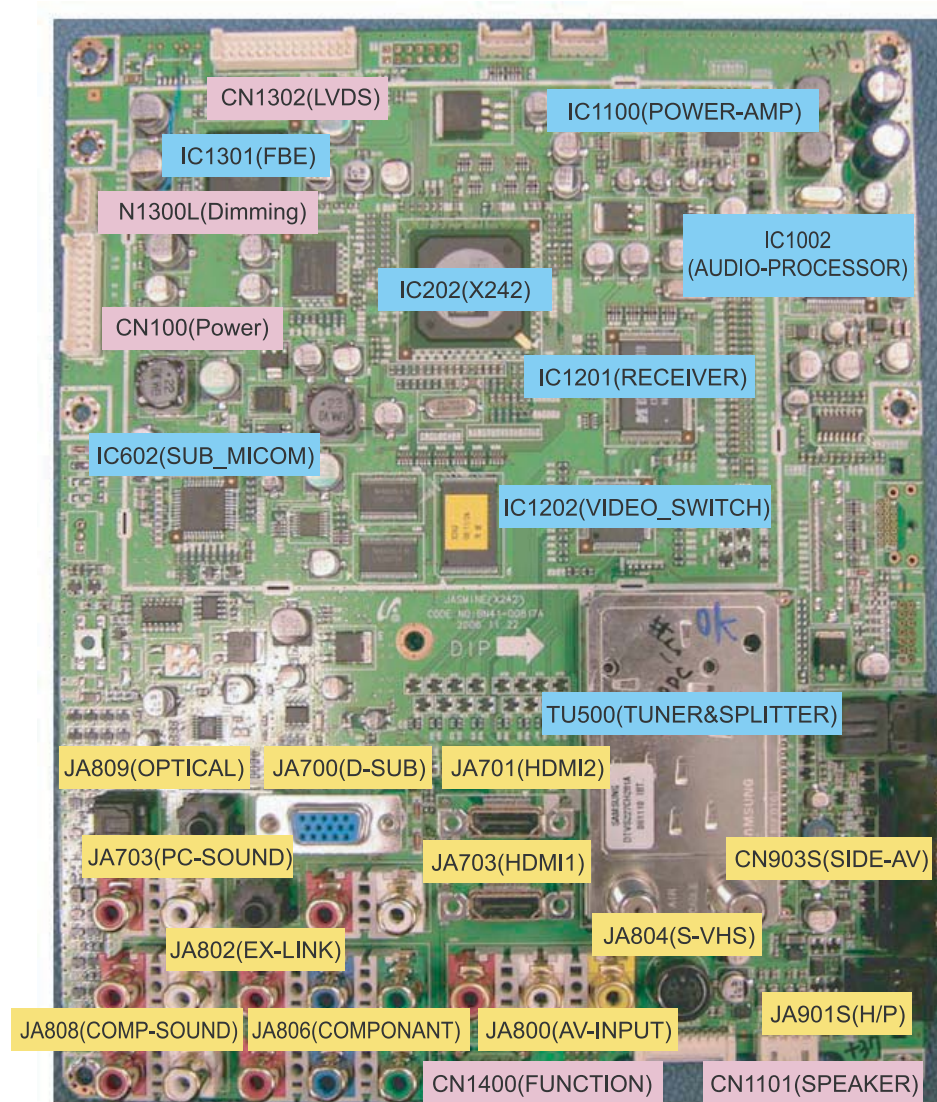
Description	Description Picture
6. Pull the side AV to the inside.	

11-2 Reassembly

Reassembly procedures are in the reverse order of disassembly procedures.

12 PCB Diagram

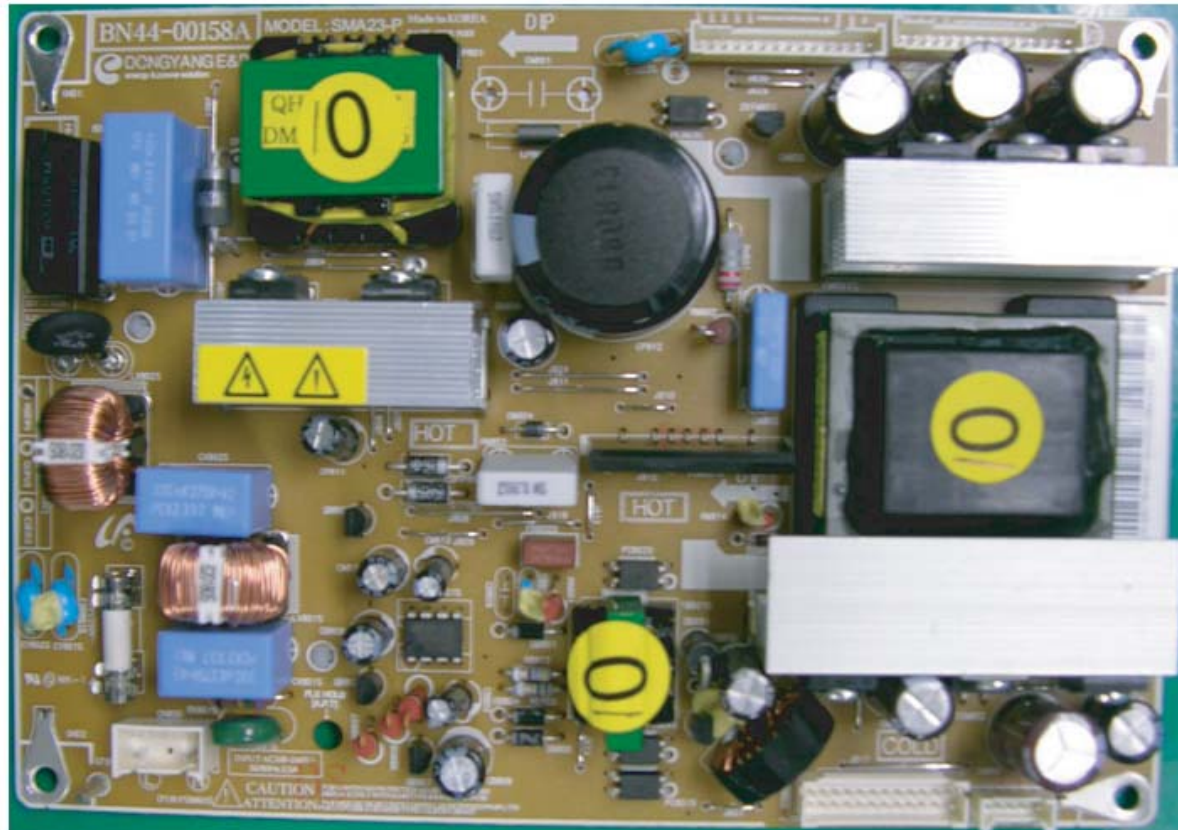
12-1 Main PCB Diagram



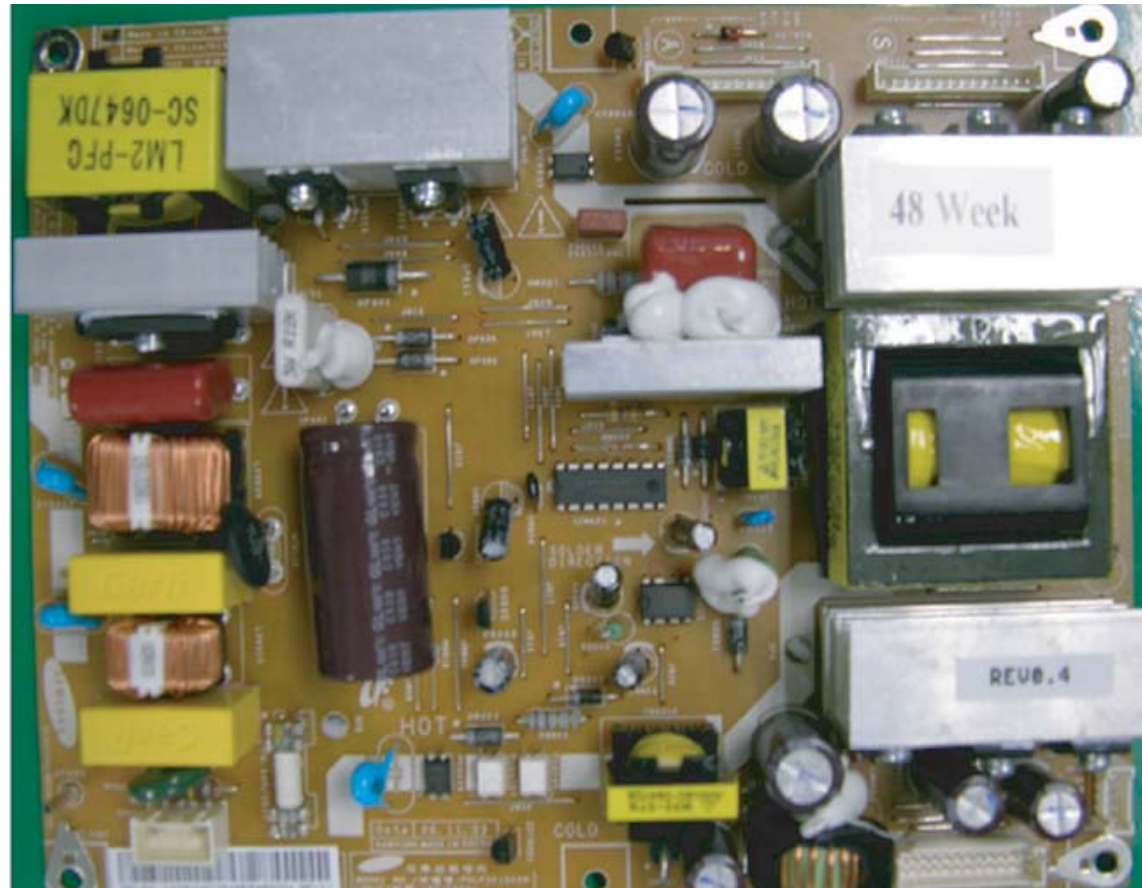
Main IC & Tuner

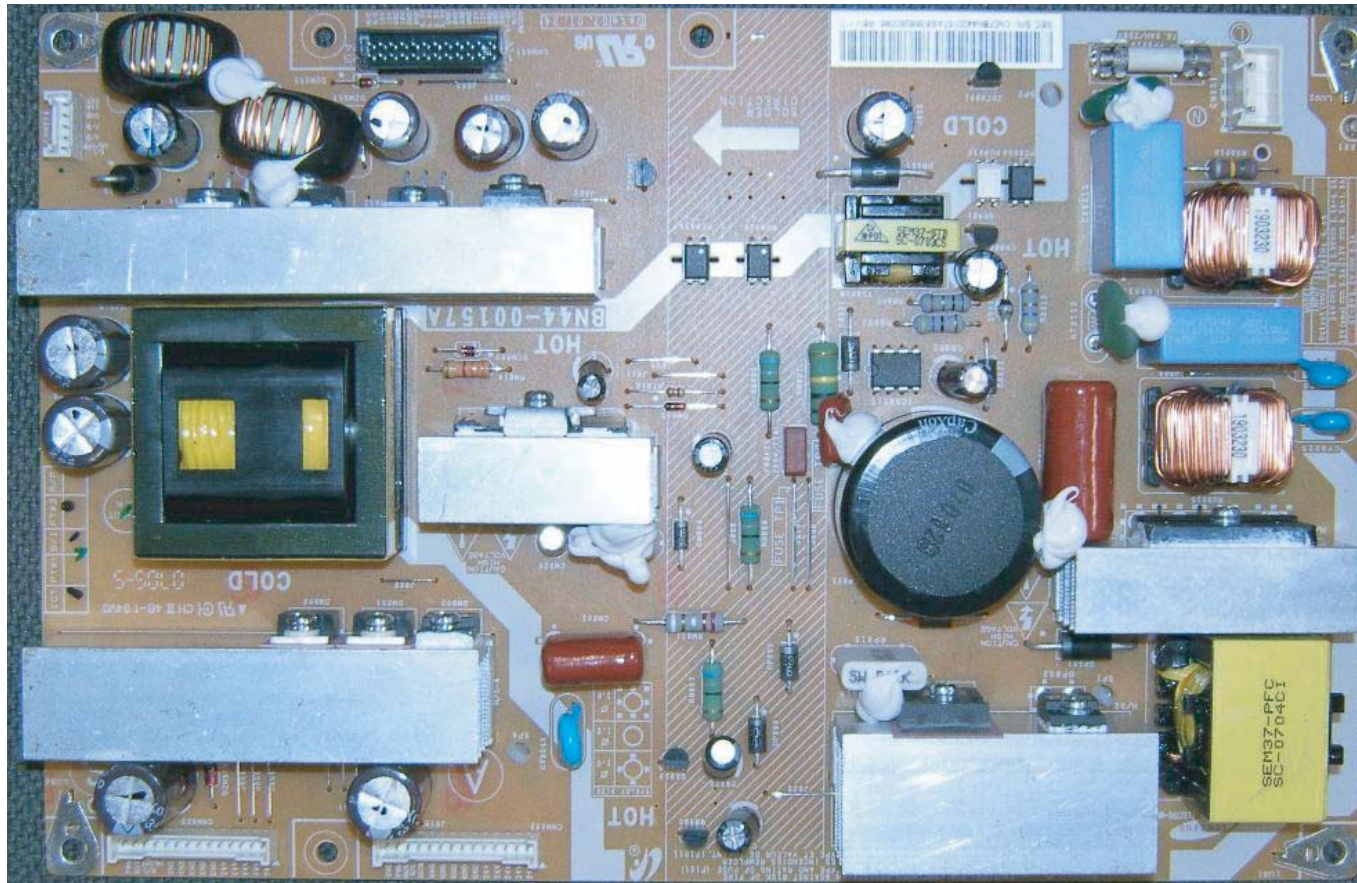
Internal Interface Parts

External Interface Parts

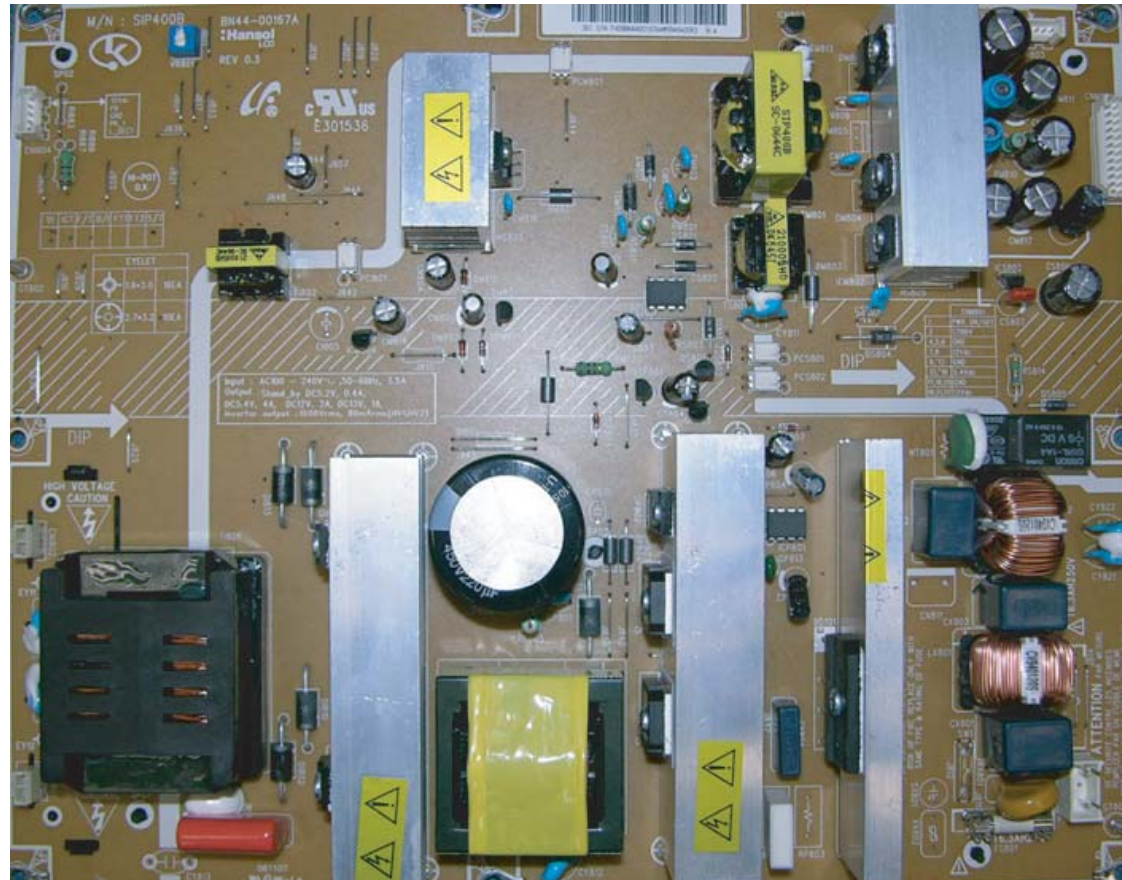


12-3 Power PCB Layout 26", 32"





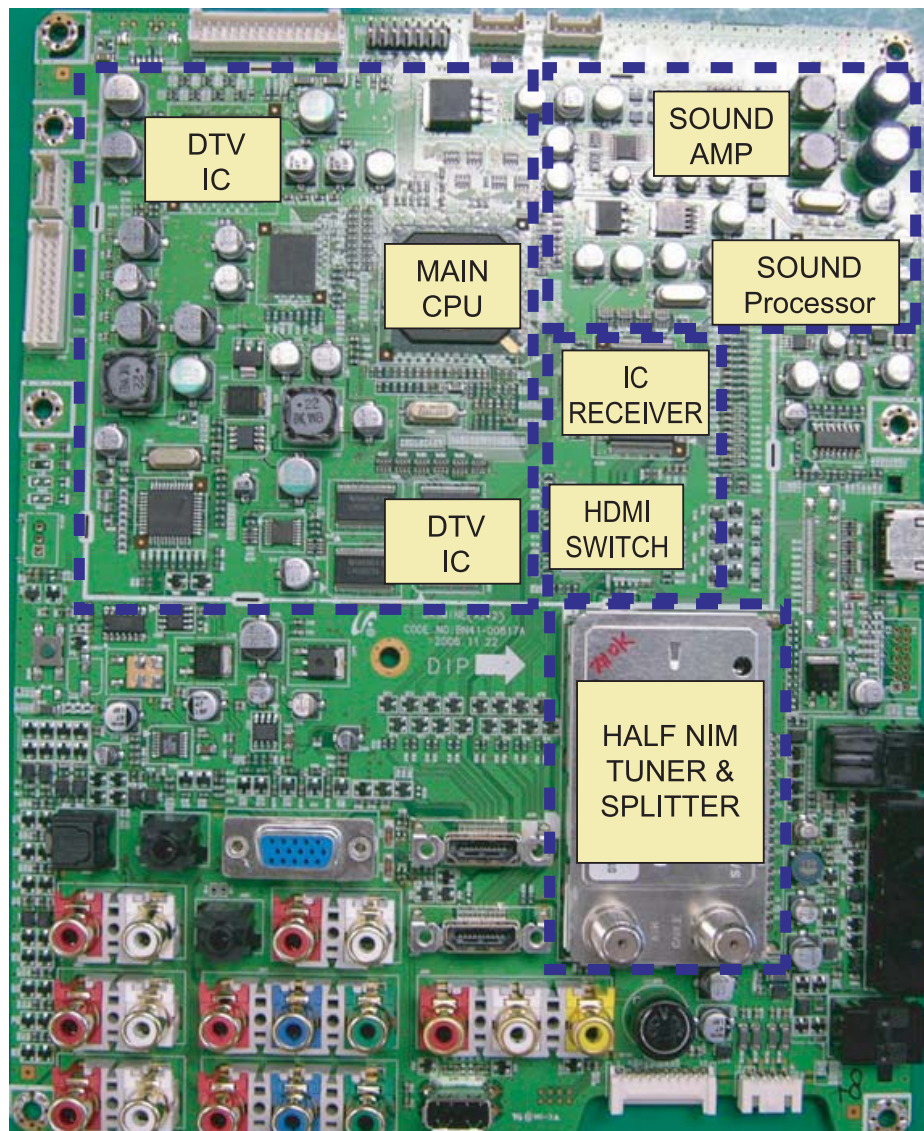
12-5 Power PCB Layout 40"



Memo

13 Circuit Descriptions

13-1 Block description



NO.	BLOCK	DESCRIPTION	REMARK
1	X242(IC202)	DTV DECODER	215H4AALA11HG
2	FBEX(IC1301)	IMAGE BACKEND ENHANCER	NZ2YFKC
3	SUB_MICOM(IC602)	CONTROL POWER,PANEL, etc.	WT61P6S
4	SOUND AMP(IC1100)	SOUND AMP IC	NTP3000(H12363B)
5	SOUND PROCESSOR(IC1002)	SOUND MAIN PROCESSOR IC	MSP4450K E8
6	TUNER(TU500)	HALF-NIM-TUNER & SPLITTER	DTVS227CH281A
7	DDR MEMORY(IC201)	X242 DDR MEMORY	HYB18T512161BF-25
8	IC-RECEIVER(IC1201)	2ADC+1HDMI	MST3388MK-LF-110
9	HDMI SWITCH(IC1202)	3 TO 1 HDMI SWITCH	SIL9185CTU

Memo

14 Reference Information

14-1 Technical Terms

- TFT-LCD

(Thin film Transistor Liquid Crystal Display)

ADC(Analog to Digital Converter)

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

- PLL(Phase Locked Loop)

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

- Inverter

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

- AC Adapter

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

- SMPS(Switching Mode Power Supply)

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

- FRC(Frame Rate Controller)

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

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

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

- Image Scaler

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

- Auto Configuration(Auto adjustment)

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

- OSD(On Screen Display)

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

- Image Lock

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

- FINE

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

- COARSE

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

- DVI (Digital Visual Interface)

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

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

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

- DVI (Digital Visual Interface)

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

- T.M.D.S

(Transition minimized Differential Signaling)

a kind of transmission method for Digital.

It can be used from Video card to Main PBA.

- DDC(Display data channel)

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

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

- EDID

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

- Dot Pitch

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

- Vertical Frequency

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

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

- Horizontal Frequency

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

- Interlace and Non-Interlace Methods

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

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

- Plug & Play

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

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

- Resolution

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

This number shows the accuracy of the display.

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

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

- BTSC

Broadcast Television System Committee

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

- EIAJ

Electronic Industries Association of Japan.

- RF Cable

A round signal cable generally used for TV antennas.

- Satellite Broadcasting

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

- Sound Balance

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

- Cable TV

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

- CATV

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

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

- S-Video

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

- VHF/UHF

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

- Channel Fine Tuning

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

- External Device Input

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

14-2 Pin Assignments

14-2-1 DVI-D

<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-	

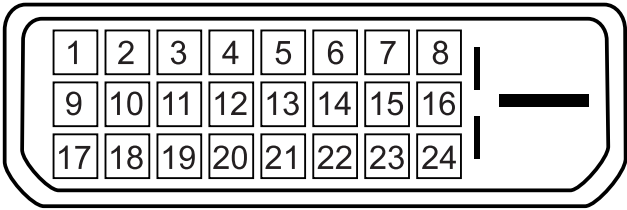


Figure 1.

14-2-2 Component 1, 2

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 1,2

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	+ / +

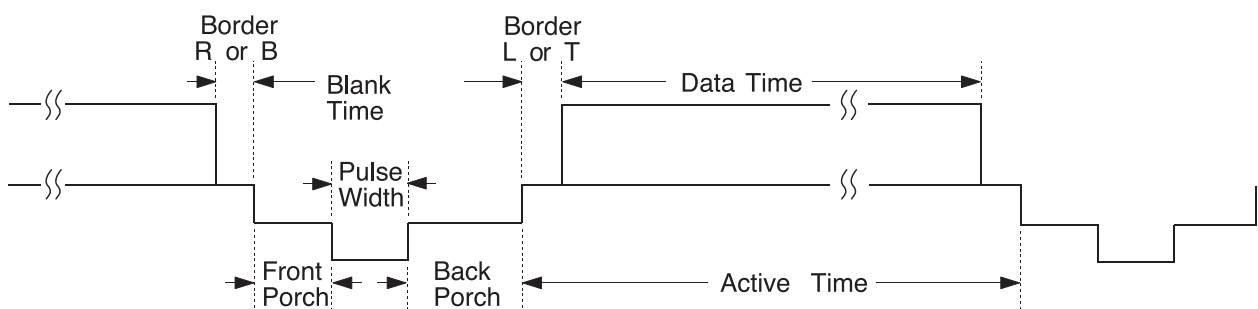
- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.
- DVI dose not support PC function.

14-3 Timing Chart

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

14-3-1 LCD Panel Mode1 mode

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



14-3-2 Supported Modes (1)

Timing No. Originator Mode Name Resolution (HxV)	2 IBM VGA2 720x400	3 IBM VGA3 640x480	11 VESA 640/72Hz 640x480	17 VESA 640/75Hz 640x480	32 MAC 640/67Hz 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
Activetime	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. Originator Mode Name Resolution (HxV)	13 VESA 800/60Hz 800x600	14 VESA 800/72Hz 800x600	18 VESA 800/75Hz 800x600
HORIZONTAL Frequency Total time Active time Blank time Border(L / R) Data time Front porch Sync. width Back porch Sync. polarity	37.879kHz 26.400 μ s 20.000 μ s 6.400 μ s 0.000 μ s 20.000 μ s 1.000 μ s 3.200 μ s 2.200 μ s Positive	48.077kHz 20.800 μ s 16.000 μ s 4.800 μ s 0.000 μ s 16.000 μ s 1.120 μ s 2.400 μ s 1.280 μ s Positive	46.875kHz 21.333 μ s 16.162 μ s 5.171 μ s 0.000 μ s 16.162 μ s 0.323 μ s 1.616 μ s 3.232 μ s Positive
VERTICAL Frequency Total time Active time Blank time Border(T / B) Data time Front porch Sync. width Back porch Sync polarity	60.317Hz 16.579ms 15.840ms 0.739ms 0.000ms 15.840ms 0.026ms 0.106ms 0.607ms Positive	72.188Hz 13.853ms 12.480ms 1.373ms 0.000ms 12.480ms 0.770ms 0.125ms 0.478ms Positive	75.000Hz 13.333ms 12.800ms 0.533ms 0.000ms 12.800ms 0.021ms 0.064ms 0.448ms 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



-This Service Manual is a property of Samsung Electronics Co., Ltd.
Any unauthorized use of Manual can be punished under applicable International and/or domestic law.

Samsung Electronics Co., Ltd.
416, Maetan-3Dong, Yeongtong-Gu, Suwon City,
Gyeonggi-Do, Korea, 443-742
Printed in Korea
P/N : BN82-00203A-00
URL : <http://itself.sec.samsung.co.kr/>