

SAMSUNG

LED-TV

Chassis : U51A

Model : UEC9000****

UAC9000****

SERVICE^{Manual}

TFT-LCD TV



Contents

- 1. Precautions**
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- 3. Disassembly and Reassembly**
- 4. Troubleshooting**
- 5. Exploded View & Part List**
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UEC9000**
UA**C9000****

Refer to the service manual in the GSPN (see the rear cover) for the more information.

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**GSPN (Global Service Partner Network)**

Area	Web Site
North America	http://service.samsungportal.com
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1. Precautions

1-1. Safety Precautions

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

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 LED TV

1. When servicing the LED TV, 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 LED TV 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 LED TV.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistorcapacitor 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).

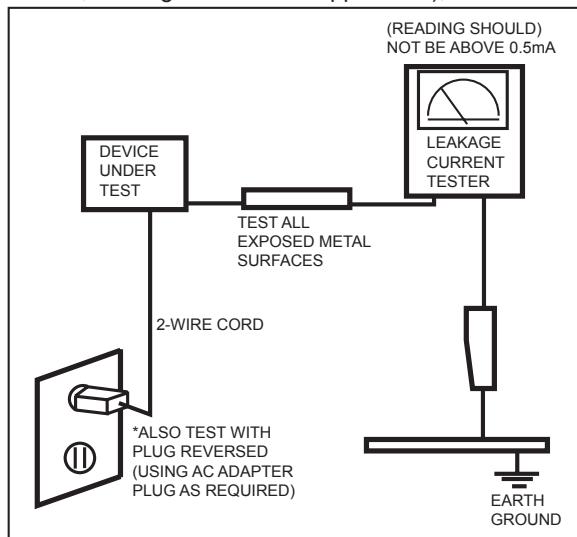


Figure 1-1. Leakage Current Test Circuit

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

1-2. 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 LED TV.
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 a people are required for carrying the product.
2. Keep the power cord away from any heat emitting devices, as a melted covering may cause fire or electric shock.
3. Do not place the product in areas with poor ventilation such as a bookshelf or closet. The increased internal temperature may cause fire.
4. Bend the external antenna cable when connecting it to the product. This is a measure to protect it from being exposed to moisture. Otherwise, it may cause a fire or electric shock.
5. Make sure to turn the power off and unplug the power cord from the outlet before repositioning the product. Also check the antenna cable or the external connectors if they are fully unplugged. Damage to the cord may cause fire or electric shock.
6. Keep the antenna far away from any high-voltage cables and install it firmly. Contact with the highvoltage cable or the antenna falling over may cause fire or electric shock.
7. When installing the product, leave enough space (0.4m) between the product and the wall for ventilation purposes. A rise in temperature within the product may cause fire.

2. Product specifications

2-1. Feature & Specifications

Model	UE46C9000**			
Feature				
<ul style="list-style-type: none"> ▶ Digital-TV, RF, 4-HDMI, 1-Component, 1-AV, 2-USB, D-sub, Optical Out, Ethernet, RS232C, PC Audio In ▶ Brightness : 450cd/m² ▶ Contrast Ratio : Mega CR ▶ Response time :3ms ▶ Dynamic contrast, Super-PVA ▶ PIP(in HDMI 1,2,3,4, component,PC Mode and Sub picture is available in TV analog and digital mode) 				
Specifications				
Item	Description			
LCD Panel	TFT-LCD panel, RGB vertical stripe, SPVA mode, normally black, 46-Inch viewable, 0.53025(H)x0.53025(W) mm pixel pitch			
Scanning Frequency	Horizontal : 67.5KHz (TYP) Vertical : 60Hz (TYP)			
Display Colors	1.07 billion colors			
Maximum resolution	Horizontal : 1920 Pixels Vertical : 1080 Pixels			
Input Signal	Analog 0.7 Vp-p ± 5% positive at 75Ω , internally terminated			
Input Sync Signal	H/V Separate, TTL, P. or N.			
Maximum Pixel Clock rate	148.5MHz			
Active Display Horizontal/Vertical	40.08189 x 22.546063 inches (1018.08(H) x 572.67(V)mm)			
AC power voltage & Frequency	AC 110V ~ 220V, 60 Hz			
Power Consumption	< 210W (< 0.05W, stand by)			
Dimensions Set (W x D x H)	43.47 x 12.05 x 32.36 inches (1104.2 x 306.1 x 819.5 mm)_with stand 43.47 x 0.31 x 32.36 inches (1104.2 x 33.9 x 674.8mm)_without stand			
Weight (Set)	47.96 lbs (21.8kg)_set with Stand 22.66 lbs (10.3kg)_only stand 66.66 lbs (30.3kg)_package with set			
TV System	Tuning	Frequency Synthesize (Refer to detailed Frequency Table)		
	System	DVB T(T2)/C (T2: U.K. only), PAL, SECAM, NT4.43		
	Sound	BG, DK, NICAM, MPEG1		
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10% ~ 80%, non-condensing Storage temperature : -13°F ~ 113°F (-25°C ~ 45°C) Storage Humidity : 5% ~ 95%, non-condensing			
Audio spec.	<ul style="list-style-type: none"> - MAX Internal speaker Out : Right => 15W, Left => 15W - BASS Control Range : -10dB ~ + 10dB - TREBLE Control Range : -10dB ~ +10dB - Output Frequency : RF : ~ 15 kHz A/V : ~ 20 kHz 			
Note: 3D, MOIP(Widget), Anynet+, Media Play, Internet@TV, 3D, 2 TUNER PVR				

2. Product specifications

Model	UE55C9000** / UA55C9000**			
Feature				
<ul style="list-style-type: none"> ▶ Digital-TV, RF, 4-HDMI, 1-Component, 1-AV (2-AV for Australia Model), 2-USB, D-sub, Optical Out, Ethernet, RS232C, PC Audio In ▶ Brightness : 450cd/m² ▶ Contrast Ratio : Mega CR ▶ Response time : 3ms ▶ Dynamic contrast, Super-PVA ▶ PIP(in HDMI 1,2,3,4, component,PC Mode and Sub picture is available in TV analog and digital mode) 				
Specifications				
Item	Description			
LCD Panel	TFT-LCD panel, RGB vertical stripe, SPVA mode, normally black, 55-Inch viewable, 0.63(H) x 0.63(H) mm pixel pitch			
Scanning Frequency	Horizontal : 67.5KHz (typ) Vertical : 60Hz (typ)			
Display Colors	1.07 billion colors			
Maximum resolution	Horizontal : 1920 Pixels Vertical : 1080 Pixels			
Input Signal	Analog 0.7 Vp-p ± 5% positive at 75Ω , internally terminated			
Input Sync Signal	H/V Separate, TTL, P. or N.			
Maximum Pixel Clock rate	148.5MHz			
Active Display Horizontal/Vertical	47.622047 x 26.787402 inches (1209.6(H) x 680.4(V) mm)			
AC power voltage & Frequency	AC 110V ~ 220V, 60 Hz			
Power Consumption	< 230W(< 0.05W, stand by)			
Dimensions Set (W x D x H)	51 x 12.05 x 34.38 inches (1295.6 x 306.1 x 873.3 mm)_with stand 51 x 0.31 x 30.88 inches (1295.6 x 7.98 x 784.4mm)_without stand			
Weight (Set)	55.66 lbs (21.8kg)_set with Stand 22.66 lbs (10.3kg)_only stand 80.08 lbs (36.4kg)_package with set			
TV System	Tuning	Frequency Synthesize (Refer to detailed Frequency Table)		
	System	DVB T(T2)/C (T2: U.K. only), PAL, SECAM, NT4.43		
	Sound	BG, DK, NICAM, MPEG1		
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10% ~ 80%, non-condensing Storage temperature : -13°F ~ 113°F (-25°C ~ 45°C) Storage Humidity : 5% ~ 95%, non-condensing			
Audio spec.	<ul style="list-style-type: none"> - MAX Internal speaker Out : Right => 15W, Left => 15W - BASS Control Range : -10dB ~ + 10dB - TREBLE Control Range : -10dB ~ +10dB - Output Frequency : RF : ~ 15 kHz A/V : ~ 20 kHz 			
Note: 3D, MOIP(Widget), Anynet+, Media Play, Internet@TV, 3D, 2 TUNER PVR				

2-2. Spec Comparison to the Old Models

Model	UC9Z (UE46C9000** / UE55C9000**/ UA55C9000**)		UB8X (UE40B8000X/UE46B8000/UE55B8000)	
Design				
Display Type	LED TV		LED TV	
Resolution	1920 x 1080		1920 x 1080	
LCD Panel	TFT LCD PANEL 240Hz		TFT LCD Panel 120Hz	
Screen Size	46" / 55"		40" / 46" / 55"	
Picture ratio	16 : 9		16 : 9	
Dimensions (W x H x D)	46	43.0 x 11.99 x 28.60 inches_with stand 43.0 x 1.04 x 25.71 inches_without stand		40 39.214 x 10.039 x 27.245 inches _with stand 39.214 x 1.177 x 24.804 inches _without stand
	55	50.52x11.99x32.90 inches_with stand 50.52x1.04x30.00 inches_without stand		46 44.45 x 10.827 x 30.198 inches_with stand 44.45 x 1.177 x 27.757 inches_without stand
Weight	46	42.10 lbs(19.1kg)_with stand 37.03 lbs(16.8)_without stand		40 40.7 lbs(18.5kg)_with stand 32.56 lbs(14.8kg)_without stand
	55	54.01lbs(24.5kg)_with stand 48.94lbs(22.2kg)_without stand		46 49.5lbs (22.5kg)_with stand 38.94 lbs(17.7kg)_without stand
Brightness	450 cd/m ²		500 cd/m ²	
Contrast Ratio	MEGA CR		3,000,000:1	
Picture Enhacer	Crystal Engine		DNle+(FBE3)	
Equalizer	5 Band		5 Band	
Auto Motion Plus 240Hz	YES		NO	
Surround Sound	Dolby Digital Plus		TruSurround HD	
Speaker Output	15W + 15W (46" / 55")		10W + 10W (40", 46") 15W + 15W (55")	
Antenna	1 (Cable/Air)		1 (Cable/Air)	

2. Product specifications

2-3. Detail Factory Option

※ If you replace the main board with new one, please change the factory option as well.

The options you must change are "Type".

		Model Name	UE46C9000**	UE55C9000**
Panel	Vendor	AML	AML	
	CODE	BN95-00398A	BN95-00399A	
	SPEC	T460FCE1-FS	T550FCE1-FS	
SMPS		IP Board (SEC)	BN44-00364A	BN44-00364A
Byte	Item	CHASSIS ASS'Y	BN91-05557A	BN91-05557B
		PBA(e-Catch)	-	-
		Final (Adjustment_spec)	-	-
		PBA ASSY CODE	BN94-03519A	BN94-03519B
0	Factory Reset			-
1	Type		46A2UF7E	55A2UF7E
2	Local set			-
3	Model Name			UC9000
4	Tuner			SEMCO
5	DDR			-
6	Light Effect			OFF
7	Ch table			-
8	Country			USA
9	Front Color			W-Milky

2-4. Channel Table

■ PAL On-Air Channel Frequency Table

channel	Europe	INDONESIA	IRELAND	South Africa	ANGOLA	NEWZEALAND	ITALY	EUROPE	FRANCE		UK	CIS(OIRT)	AUSTRALIA	CHINA
	PAL-BG	PAL-BG	PAL-I	PAL-I	PAL-I	PAL-BG	PAL-BG	SECAM-BG	SECAM-L	PALII	PAL-I	SECAM-DK	PAL-BG	PAL-D
A	x	x	x	x	x	x	53.75	x	47.75	x	x	x	x	x
B	x	x	x	x	x	x	62.25	x	55.75	x	x	x	x	x
C1	x	x	x	x	x	x	x	x	60.50	x	x	x	x	x
C	x	x	x	x	x	x	82.25	x	63.75	x	x	x	x	x
D	x	x	x	x	x	x	175.25	x	x	x	x	x	x	x
E	x	x	x	x	x	x	183.75	x	x	x	x	x	x	x
F	x	x	x	x	x	x	192.25	x	x	x	x	x	x	x
G	x	x	x	x	x	x	201.25	x	x	x	x	x	x	x
H	x	x	x	x	x	x	210.25	x	x	x	x	x	x	x
H1	x	x	x	x	x	x	217.25	x	x	x	x	x	x	x
H2	x	x	x	x	x	x	224.25	x	x	x	x	x	x	x
0	x	x	x	x	x	x	x	x	x	x	x	x	46.25	x
1	x	44.25	45.75	x	43.25	45.25	x	41.25	176.00	45.00	x	49.75	57.25	49.75
2	48.25	55.25	53.75	x	52.25	55.25	x	48.25	184.00	51.75	x	59.25	64.25	57.75
3	55.25	62.25	61.75	x	60.25	62.25	x	55.25	192.00	56.75	x	77.25	86.25	65.75
4	62.25	175.25	175.25	175.25	175.25	175.25	x	62.25	200.00	61.75	x	85.25	95.25	77.25
5	175.25	182.25	183.25	183.25	183.25	182.25	x	175.25	208.00	66.75	x	93.25	102.25	85.25
5A	x	x	x	x	x	x	x	x	x	x	x	x	138.25	x
6	182.25	189.25	191.25	191.25	191.25	189.25	x	182.25	216.00	179.75	x	175.25	175.25	168.25
7	189.25	196.25	199.25	199.25	199.25	196.25	x	189.25	x	184.75	x	183.25	182.25	176.25
8	196.25	203.25	207.25	207.25	207.25	203.25	x	196.25	x	189.75	x	191.25	189.25	184.25
9	203.25	210.25	215.25	215.25	215.25	210.25	x	203.25	x	194.75	x	199.25	196.25	192.25
9A	x	x	x	x	x	x	x	x	x	x	x	x	203.25	x
10	210.25	217.25	223.25	223.25	223.25	217.25	x	210.25	x	199.75	x	207.25	209.25	200.25
11	217.25	224.25	231.25	231.25	x	224.25	x	217.25	x	204.75	x	215.25	216.25	208.25
12	224.25	x	x	239.25	x	x	x	224.25	x	209.75	x	223.25	x	216.25
13	x	x	x	247.25	x	x	x	x	x	214.75	x	x	x	471.25
14	x	x	x	x	x	x	x	x	x	x	x	x	x	479.25
15	x	x	x	x	x	x	x	x	x	x	x	x	x	487.25
16	x	x	x	x	x	x	x	x	x	x	x	x	x	495.25
17	x	x	x	x	x	x	x	x	x	x	x	x	x	503.25
18	x	x	x	x	x	x	x	x	x	x	x	x	x	511.25
19	x	x	x	x	x	x	x	x	x	x	x	x	x	519.25
20	x	x	x	x	x	x	x	x	x	x	x	x	x	527.25
21	471.25													535.25
22	479.25													543.25
23	487.25													551.25
24	495.25													559.25
25	503.25													607.25
26	511.25													615.25
27	519.25													623.25
28	527.25													527.25
29	535.25													534.25
30	543.25													541.25
31	551.25													548.25
32	559.25													555.25
33	567.25													662.25
34	575.25													569.25
35	583.25													576.25
36	591.25													583.25
37	599.25													695.25
38	607.25													590.25
39	615.25													703.25
40	623.25													597.25
41	631.25													711.25
42	639.25													604.25
43	647.25													611.25
44	655.25													727.25
45	663.25													625.25
46	671.25													743.25
47	679.25													632.25
48	687.25													751.25
49	695.25													667.25
50	703.25													791.25
51	711.25													674.25
52	719.25													799.25
53	727.25													707.25
54	735.25													831.25
55	743.25													709.25
56	751.25													847.25
57	759.25													723.25
58	767.25													855.25
59	775.25			x	x	775.25								630.25
60	783.25			x	x	783.25								863.25
61	791.25			x	x	791.25								730.25
62	799.25			x	x	799.25								871.25
63	807.25			x	x	807.25								741.25
64	815.25			x	x	815.25								881.25
65	823.25			x	x	823.25								779.25
66	831.25			x	x	831.25								889.25
67	839.25			x	x	839.25								786.25
68	847.25			x	x	847.25								897.25
69	855.25			x	x	855.25								807.25

■ PAL CATV Channel Frequency Table

channel	Europe PAL-BG	INDONESIA PAL-BG	IRELAND PAL-BG	South Africa SEAAM	ANGOLA SEAAM	NEWZEALAND PAL-BG	ITALY PAL-BG	CCIR SEAAM	FRANCE SEAAM-L	PALII	PALI UK	SECAM OIRT	AUSTRALIA PAL-BG	CHINA PAL-D
S1'	69.25													x
S2'	76.25													x
S3'	83.25													x
S4'	90.25													x
S5'	97.25													x
S1	105.25								116.75	103.25			105.25	112.25
S2	112.25								128.75	111.25			112.25	120.25
S3	119.25								140.75	119.25			119.25	128.25
S4	126.25								152.75	127.25			126.25	136.25
S5	133.25								164.75	135.25			133.25	144.25
S6	140.25								176.75	143.25			140.25	152.25
S7	147.25								188.75	151.25			147.25	160.25
S8	154.25								200.75	159.25			154.25	224.25
S9	161.25								212.75	167.25			161.25	232.25
S10	168.25								224.75	231.25			168.25	240.25
S11	231.25								236.75	239.25			231.25	248.25
S12	238.25								248.75	247.25			238.25	256.25
S13	245.25								260.75	253.00			245.25	264.25
S14	252.25								272.75	263.25			252.25	272.25
S15	259.25								284.75	271.25			259.25	280.25
S16	266.25								296.75	279.25			266.25	288.25
S17	273.25								0	287.25			273.25	296.25
S18	280.25								0	295.25			280.25	304.25
S19	287.25								0	303.25			287.25	312.25
S20	294.25								0	0.00			294.25	320.25
S21	303.25								303.25	0.00			303.25	328.25
S22	311.25								311.25	311.25				336.25
S23	319.25								319.25	319.25				344.25
S24	327.25								327.25	327.25				352.25
S25	335.25								335.25	335.25				360.25
S26	343.25								343.25	343.25				368.25
S27	351.25								351.25	351.25				376.25
S28	359.25								359.25	359.25				384.25
S29	367.25								367.25	367.25				392.25
S30	375.25								375.25	375.25				400.25
S31	383.25								383.25	383.25				408.25
S32	391.25								391.25	391.25				416.25
S33	399.25								399.25	399.25				424.25
S34	407.25								407.25	407.25				432.25
S35	415.25								415.25	415.25				440.25
S36	423.25								423.25	423.25				448.25
S37	431.25								431.25	431.25				456.25
S38	439.25								439.25	439.25			x	
S39	447.25								447.25	447.25				x
S40	455.25								455.25	455.25				x
S41	463.25								463.25	463.25				x

2-5. DVB-T2

■ DVB-T vs T2

	DVB-T	DVB-T2
FEC	Convolutional Coding + Reed Solomon 1/2, 2/3, 3/4, 5/6, 7/8	LPDC + BCH 1/2, 3/5 , 2/3, 3/4, 4/5 , 5/6
Modes	QPSK, 16QAM, 64QAM	QPSK, 16QAM, 64QAM, 256QAM
Guard Interval	1/4, 1/8, 1/16, 1/32	1/4, 19/256 , 1/8, 19/128 , 1/16, 1/32, 1/128
FFT size	2k, 8k	1k, 2k, 4k, 8k, 16k, 32k
Scattered Pilots	8% of total	1%, 2%, 4%, 8% of total
Continual Pilots	2.6% of total	0.35% of total

■ DVB-T2 Capacity

	Current UK mode	T2
Modulation	64QAM	256QAM
FFT size	2K	32K
Guard Interval	1/32	1/128
FEC	2/3 CC + RS (8%)	3/5LDPC + BCH (0.3%)
Scattered Pilots	8%	1%
Continual Pilots	2.6%	0.35%
P1/P2 overhead	0%	0.7%
Bandwidth	Standard	Extended
Capacity	24 Mbit/s	35.4Mbit/s

DVB-T2 Channel capacity increased 47% than DVB-T.

2-6. New Functional Explanation

2-6-1. Contents View

■ Internet@TV 2010 vs Internet@TV 2009

Internet@TV 2009

- Launcher – Internet widget
- Gallery – Free Widge Download/Installation
- Support Horizontal/Vertical View Mode



Internet@TV 2010

- **Contents Unity Launcher** : Internet widget, Flash, Game, Yahoo, MolP, Gallery etc.
- **Samsung Apps** : Support Download/Installation of Free/Non-Free Contents Unity Launcher.
- **PIA**: Movement to the Image, advertisement(flash type), detailed advertisement.
- Support Channel Bound Widge Service.
- Icon chastity function and prefered contents setting function.



■ Internet@TV 2010 Concept

Service Platform



Content Service



- **Samsung Widget Engine for Global Service** (supporting Y! service as well in 13 regions)
- **Simple & Easy User Interface**
- **Samsung Service Ecosystem** : SDK, Developer Forum and Server Infrastructure

- **Internet@TV Home** : Customize "my favorite widgets"
- **Application Store**: Download new widgets submitted by content partners
- **5 categories** : Video, Game, Sports, Lifestyle, Info

Contents Unity launcher Based on Downloadable Widget

- Unity launcher can execute Internet widget/flash/game/MoIP/Yahoo
- Automatic Contents version update
- Contents erase

connection of TV device and Hub Site

- List Syncronization function
- Contents list management based on Model ID/Firmware/Country

A-Store

- Showing Free/Non-Free Unity Contents
- Free/Non-Free Unity Contents download and Installation

Combined Log in [Single-Sign-On]

- Create and activate lots of CP WEB User/Password information by combined ID/Password

Connecting web users and TV device

- A Function to purchase charged contents
- To control purchase lists person by person
- To control person's cash information that holding

To realize Samsung place

- Rolling advertisement (type - image/movie/flash)
- Realize detailed page view of advertisement

Contents lock setting

- Protect children by different lock according to the Widgets.

Channel Bound service

- Widget services activated on certain channels

2-6-2. What is AllShare™ ?

■ Function

Showing condition of DLNA Server connection

Showing DLNA servers [DNS:Digital Media Server, RUIS: Remote UI Server] connected to Home Network at a glance and also connects to Media Play or ScreenShare Application.

Menu - Application - Content View - AllShare™ (Valencia)
 Menu - Application - AllShare™ (Trident)



A function of DLNA Server connection inform (icon mode)

After the TV's on, if the Samsung DLNA server starts to activate, AllShare™ will sense it and display the server info [icon, name].

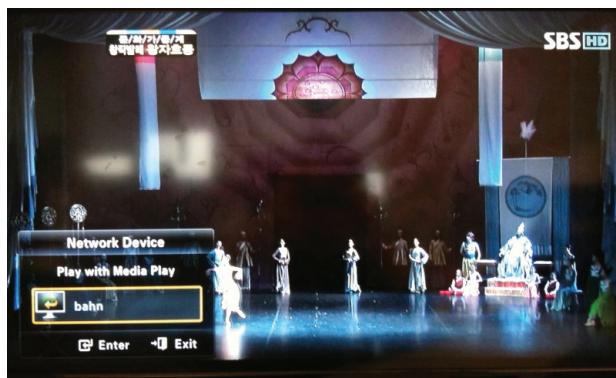
If the certain application [Content View etc.] is already performing, AllShare™ will show it in a simple icon.



A function of DLNA Server connection inform (window mode)

After the TV's on, if the Samsung DLNA server starts to activate, AllShare™ will sense it and display the server info [icon, name].

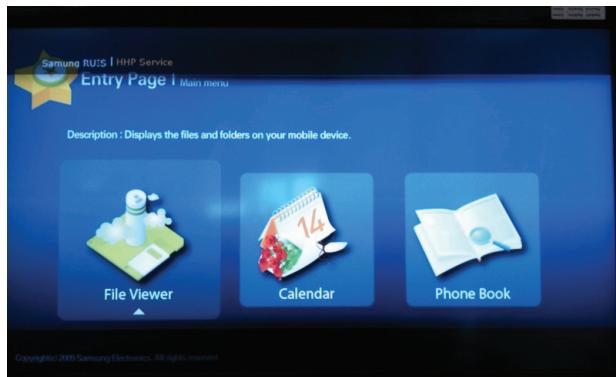
If user is watching TV, AllShare™ will allow the user to play Media Play or ScreenShare by Window node.



ScreenShare

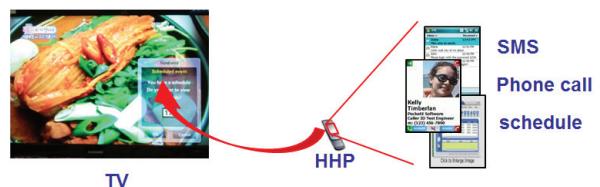
TV could support a function that Samsung mobile phones do services form of a web server.

At present, Samsung mobile phones provide a function of file viewer, calendar, phone book.



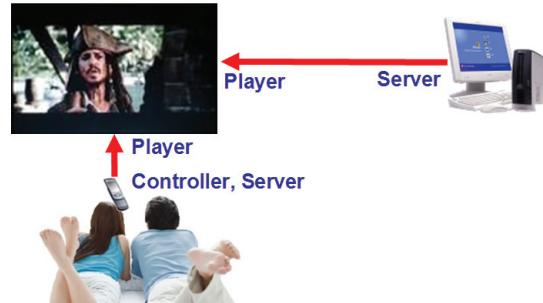
Message

Message : one of the function of AllShare™, checking the call from the cell phone, SMS information, schedule booked on mobile phone



Media

One of the function of AllShare™, showing videos, pictures, MP3 files of cell phone on TV by controlling the cell phone.



■ AllShare™ setup

Function

Message :

On/off the Message function on TV.

Media :

On/off the media function on TV.

TV name :

Change the name of the TV showing on the mobile phone.

AllShare™ Setup :

Menu - Application - Content View - AllShare™ - A

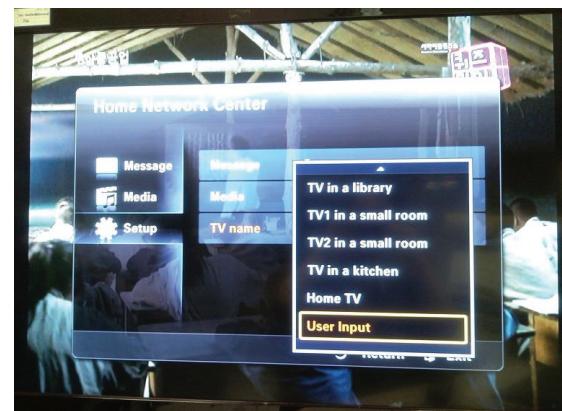


Change the TV name

Change the name among already supplied lists.



OSK(On Screen Keyboard): Able to type name of the TV.



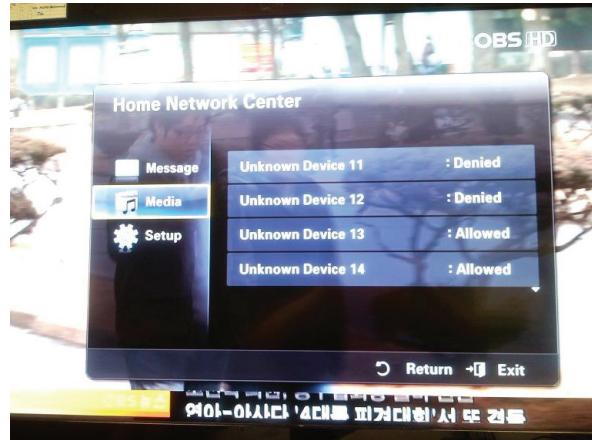
Message: approach control

- ① TV allows the cell phone(201-123-4567) access to send message.
- ② TV blocks the cell phone(201-123-4567) access to send message to this TV set. after blocking like this, the cell phone cannot find TV set on the network, at all.
- ③ IF the cell phone(201-123-4567) is not used at all, you can delete that entry from the access control list. If the same cell phone turns on, it can appear the list .



Media: approach control

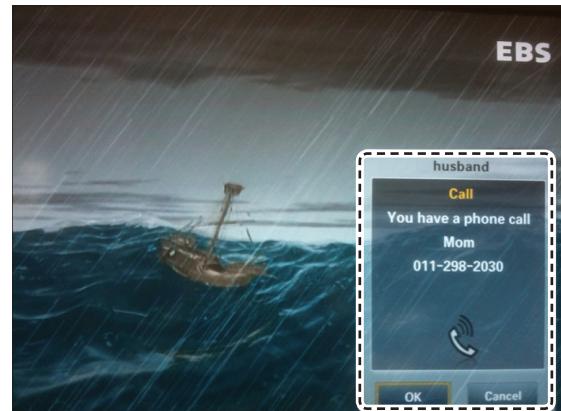
Same as Message approach control.



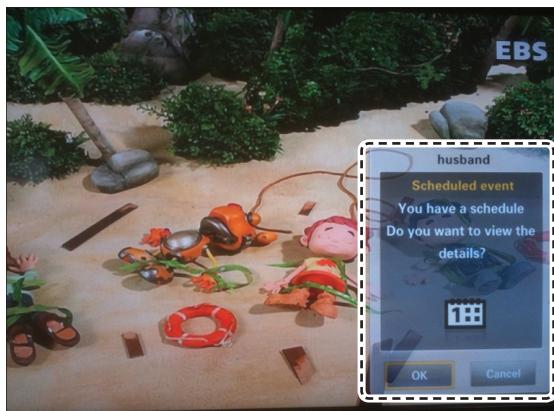
■ Message Play



Sending Message while watching TV



A call from someone while watching TV



Delivered schedule note while watching TV



while playing Media Play , if a message is delivered TV will show it in a small icon form
(Exit Media Play in order to check detail information)

Showing 20 seconds , 3 chances, 5 minutes term

■ Media Play



3 SECONDS
AFTER



Sending Media while watching TV

Press Exit or Return button on remote controller in order to cancel Media Play.



After Media Play
finish, return to
original mode

Media PLAY ON



Media play



2. Product specifications

■ AllShare™ setup and checklists

Problem	Possible Solution
Deleted mobile phone list showing up again.	<ul style="list-style-type: none"> [Menu > Application > Content View > AllShare™ > Message] Where need to block the added mobile phone or device again. Because deleted device would be added again if that device turns on or attempt to approach.
Want to turn off the function of receiving message from the mobile phone.	<ul style="list-style-type: none"> One of the setup lists of AllShare™, you need to turn 'Message' list to 'Off'.
Want to turn off the function of receiving Media from mobile phone or home network devices on TV.	<ul style="list-style-type: none"> One of the setup lists of AllShare™, you need to turn 'Media' list to 'Off'.
Want to add deleted mobile phone or home network devices again.	<ul style="list-style-type: none"> Power on the deleted mobile phone or home network devices. Set up the network and activate the home network function, check the connection at AllShare™.
Several same names of TV shows up on mobile phone.	<ul style="list-style-type: none"> At AllShare™ set up menu, change the name of the TV.
Messages/schedules/notifications from unknown mobile phone show up on TV.	<ul style="list-style-type: none"> [Menu > Application > Content View > AllShare™ > Message] Where You can block the unknown mobile phone.
SMS message notification shows up in small window.	<ul style="list-style-type: none"> Besides watching TV, If some other function is activating, SMS message will show up in small icon. You need to finish the function and exit to Watching TV mode in order to display SMS message in large window.
Received SMS message is not showing up on TV.	<ul style="list-style-type: none"> Check if TV's network setup is all right according to setup guide. Check if mobile phone's network (Wi-Fi) is activated. Among the AllShare™ setup lists , check if the Message is 'on'. Check if the mobile phone number is showing up on AllShare™ message list. Check if the TV's showing up on mobile phone's setup lists.
Contents that play on mobile phone doesn't play on TV.	<ul style="list-style-type: none"> Contents formats play on TV is exactly same as Media Play format. That means some contents may not play according to its resolution and format
Suddenly TV display is changed, unwanted movie/picture/music is playing	<ul style="list-style-type: none"> Before the device play, Block the device at AllShare™ media list. Or press 'return' or 'exit' button of remote controller so that the device may not play.
The name of the TV is not appearing while try to play media on mobile phone.	<ul style="list-style-type: none"> Check the network of TV. Activate the network (Wi-Fi) of mobile phone and connect to home network . Check if the setup list of media on AllShare™ is 'on'. Check if mobile phone is blocked on media list . If blocked, change it to permission.
Movie is not playing or disconnected.	<ul style="list-style-type: none"> High resolution of Movie may not play when Wi-Fi network is not in good condition.

2-6-3. Medioplay

■ Function intro

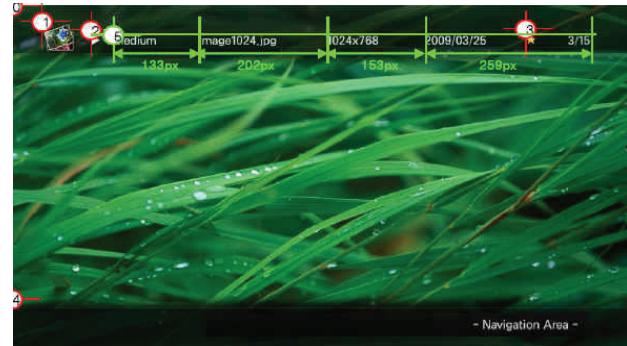
Home

- UI and function Unity of TV and BD products
- Adding Recorded TV function to 2009 MediaPlay
- Supply device mode
- Able to change the skin



Player

- Supply differentiated Player according to the Contents
 - Adding 3 steps of Fast Forward and Fast rewind when playing Movie
 - Adding Skip function when playing Music



Picture Player ◀



Music Player ◀



Movie Player ◀

■ Movie Auto Chaptering function

- Extract Chaptering automatically in movie file
- Able to display primary sights of the movies that playing
- Able to jump and play to the user's favorite chapter

Auto Chaptering function while playing movie ◀



■ Additional Contents classify method

- Classify picture files according to the person

Extend category of pictures of people not only color or composition

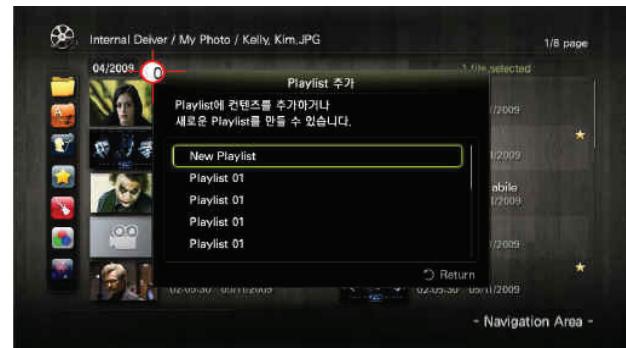
Classify pictures of people ◀



■ PlayList function

- User makes the playlist of the music files

Adding Playlist ◀



Playing Playlist ◀



■ Contents Movement among devices

- USB -> internal flash memory / internal HDD (BD products) copy
- DLNA server -> internal flash / internal HDD Download
- Local Device -> DLAN server Upload

■ Appliance of Single Live UI

- Apply motion effect on Premium Products
 - When move icons of home display
 - Shuffle effect of the picture
 - Showing simple menu and sliding effect of arranged popup windows at Brower display
 - Motion effect by enlargement of message box at Browser display
 - Effect of enlargement of contents choice window at Photostory
 - Fade-in/Fade-out effect when playing Contents
 - Sliding effect of info window when playing Contents
 - Screen Saver Motion of pictures and music at Screen Saver

■ Additional Contents Format

- Movie File
 - H.263, RMVB, AVS, FLV format added
- Music File
 - WMA format added

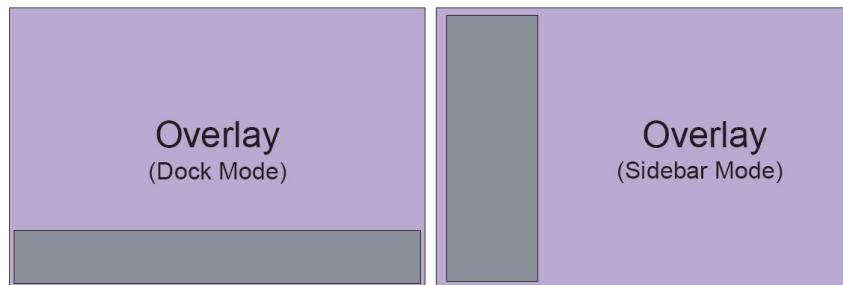
■ Possible Movie Format

Container	Video Decoder	Resolution	Frame/sec	Mbps	Audio codec	Audio Sampling rate
AVI ASF MKV MP4 3GPP VRO VOB PS TS RMVB FLV	Divx 3.11	1920x1080	6 ~ 30	8	MP3 AC3 LPCM ADPCM (MULAW, ALAW) AAC HE-AAC WMA DD+ MPEG DTS Core AMR NB/WB G.729 QCELP Real Audio (RealAudio6 Cook, RealAudio9,10 RealAudio Lossless)	8000 11025 12000 16000 22050 24000 32000 44100 48000
	Divx 4.x	1920x1080	6 ~ 30	8		
	Divx 5.1	1920x1080	6 ~ 30	8		
	Divx 6.0	1920x1080	6 ~ 30	20		
	Xvid	1920x1080	6 ~ 30(60)	20		
	H.264	1920x1080	6 ~ 30	25		
	MPEG-4 SP	1920x1080	6 ~ 30(60)	8		
	MPEG-4 ASP	1920x1080	6 ~ 30(60)	8		
	Motion JPEG	1920x1080	6 ~ 30	8		
	Window Media Video v9	1920x1080	6 ~ 30	25		
	MPEG2	1920x1080	24/25/30	40		
	RV3.0/ RV4.0	720x576	24/25/30	10		

2-6-4. Internet@TV

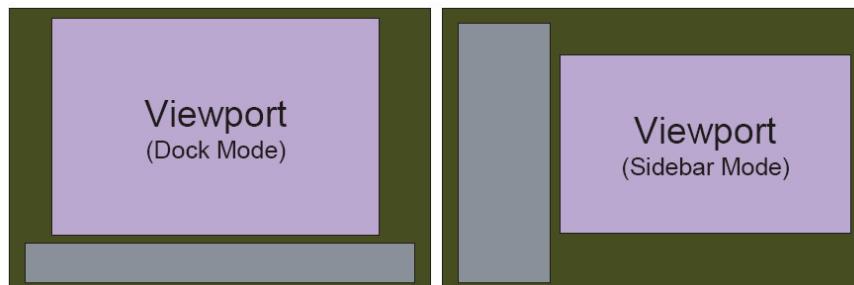
■ Overlay Mode

It offers contents to maximize the benefits of the large screen size.



- A. In overlay mode, the video plays in its native size, covering up to the full screen.
Graphical elements in the graphical plane are overlaid on top of the video plane.
- B. In overlay mode while displaying the sidebar, at least 2/3 of the video is free of graphical overlays.
- C. In overlay mode while displaying the dock, at least 3/4 of the video is free of graphical overlays.
- D. YahooTV is executed to overlay mode at first time.

■ Viewport Mode



- A. In viewport mode, the video plays in a scaled-down size, covering only a portion of the screen. This smaller viewing area for video is called the viewport.
- B. The viewport should cover at least half of the screen area. Graphics are displayed in areas outside of the viewport.
- C. The purpose of the viewport mode is to display the entire video without obstruction.
- D. The viewport mode preserves the 16:9 aspect ratio of the video.

2-6-5. 3D Display

■ What is 3D Display?

- A system that display 3D images artificially
- How? → Using binocular time delay
 - ① Left eye recognizes left image, right eye recognizes right image.
 - ② Human eyes are far away from each other 65mm horizontally.
So each eye feels a little bit of time delay of left and right information.
Human brain merges those images and can feel three-dimensional.



■ 3D OSD terms

3D Format : There are several 3D formats existing on how to merge Left and Right images.

Format	Input images	explanation	Input source	notes
Frame Packing		<ul style="list-style-type: none"> Inserting Blink Active Space between Left and Right images. <ul style="list-style-type: none"> * Full resolution : 1920 x 1080 x 2 (Left and Right each) + Blink = 1920 x 2205 	HDMI 1.4	1. HDMI 1.4 standard format 2. Automatically activating (Not in the menu or UI) 3. BD format
Top & Bottom		<ul style="list-style-type: none"> In 1 frame, Left image on the upper half, Right image on the bottom half. <ul style="list-style-type: none"> * Vertically half resolution 	HDMI, USB, DTV(VOD), PC	3D Broadcasting Format
Side by Side		<ul style="list-style-type: none"> In 1 frame, Left image on the left half, Right image on the right half. <ul style="list-style-type: none"> * Horizontally half resolution 	HDMI, USB, DTV(VOD), PC	3D Broadcasting Format
Line by Line		<ul style="list-style-type: none"> In 1 frame, every horizontal line, Left and Right image in turn. <ul style="list-style-type: none"> * Vertically half resolution 	PC	1. MPEG encoding impossible 2. Only in PC
Vertical Stripe		<ul style="list-style-type: none"> In 1 frame, every vertical line, Left and Right image in turn. <ul style="list-style-type: none"> * Horizontally half resolution 	PC	1. MPEG encoding impossible 2. Only in PC
Checker Board		<ul style="list-style-type: none"> In 1 frame, every pixel, Left and Right image in turn. <ul style="list-style-type: none"> * Half resolution both vertically and horizontally 	PC	1. MPEG encoding impossible 2. Only in PC
Frame Sequential		<ul style="list-style-type: none"> Left And Right image in turn in every frame. Full resolution spatially but Half resolution timely. 	PC	
2D → 3D	Extract Left and Right images artificially from normal 2D contents input and show it in 3D. (a function of TV)			
3D → 2D	When watching 3D TV (input is 3D source), if a viewer feels tired of watching 3D TV, a viewer can change the TV into 2D. (In this case, TV only displays one of Left and Right images)			
Depth	Only activating in '2D → 3D Mode' Control the depth of 3D. 1~10 steps, Tiredness goes higher as depth goes higher.			
L/R correction	Switch the position of Left and Right images so that correspond with 3D glasses.			
3D Disable (3D off)	'3D off' has below meanings according to present modes . (1) In 2D → 3D Mode : coming back to 2D			
	(2) In 3D mode			

2. Product specifications

■ 3D Supporting Formats

	DTV (VOD)	ATV	AV	Comp.	PC	HDMI	USB
Top-Bottom	A					A(PC)	A
Side by Side	A					A(PC)	A
Line by line						PC only	
Vertical Stripe						PC only	
Frame Seq.						PC only * 60Hz only	
Checker BD						PC only	
2D → 3D	O	O	O	O	O	O	O

A : Support in 720P, 1080I, 1080P resolution | **PC** : Support in PC resolution, 1:1 original Size | **O** : Always support regardless of resolution

■ 3D Format Test

3D Format : There are several 3D formats existing on how to merge Left and Right images.

Format	Input images	Test Method
Frame Packing (HDMI 1.4)		<ul style="list-style-type: none"> • Able to test only by HDMI 1.4 BD Player or MSPG-4600MT(Master Device)
Top & Bottom		<ul style="list-style-type: none"> • Using Format_test.bmp <ul style="list-style-type: none"> - Check in the PC(HDMI) source. PC resolution and format resolution must be same - Wearing 3D glass, left eye sees only 'L' letter, right eye sees only 'R' letter (close your eyes one by one)
Side by Side		<ul style="list-style-type: none"> • Using Format_test.bmp <ul style="list-style-type: none"> - Check in the PC(HDMI) source. PC resolution and format resolution must be same - Wearing 3D glass, left eye sees only 'L' letter, right eye sees only 'R' letter (close your eyes one by one)
Line by Line		<ul style="list-style-type: none"> • Using Format_test.bmp <ul style="list-style-type: none"> - Check in the PC(HDMI) source. PC resolution and format resolution must be same - Wearing 3D glass, left eye sees only 'L' letter, right eye sees only 'R' letter (close your eyes one by one)
Vertical Stripe		<ul style="list-style-type: none"> • Using Format_test.bmp <ul style="list-style-type: none"> - Check in the PC(HDMI) source. PC resolution and format resolution must be same - Wearing 3D glass, left eye sees only 'L' letter, right eye sees only 'R' letter (close your eyes one by one)
Checker Board		<ul style="list-style-type: none"> • Using Format_test.bmp <ul style="list-style-type: none"> - Check in the PC(HDMI) source. PC resolution and format resolution must be same - Wearing 3D glass, left eye sees only 'L' letter, right eye sees only 'R' letter (close your eyes one by one)
Frame Sequential		<ul style="list-style-type: none"> • Using Frame Seq.avi <ul style="list-style-type: none"> - Check in the PC(HDMI) source. PC resolution and format resolution must be same - Wearing 3D glass, you only see one of the numbers(1 or 2) when closing one of the eye.
2D → 3D		<ul style="list-style-type: none"> • Check in the normal 2D source. Check not in the test pattern but in the actual video. <ul style="list-style-type: none"> * Left/Right black region will grow more and more as the depth goes higher.

■ Other 3D patterns

Checker Board		Frame Sequential	
Line by Line (Horizontal Stripe)		Side by Side	
Top & Bottom		Vertical Stripe	

2-6-6. Recorded TV

To use the recording or Timeshift Mode function, the connected USB device must be available for recording. **Device format** is recommended to use USB HDD.

 During the Device formatting, do not disconnect the device while formatting is in progress. If you format the device, all files will be deleted.

Playing Recorded TV Programme

1. Press the **◀** or **▶** button to select **Recorded TV**, then press the **ENTER** button in the **Media Play** menu.
2. Press the **◀/▶/▲/▼** button to select the desired file in the file list.
3. Press the **ENTER** button or **▶** (Play) button.
 - The selected file is displayed on the top with its playing time.
 - During playing the recorded TV programme, you can search using the **◀** and **▶** button.



Using the Timeshift Mode function

If you missed a live broadcast, you can see from the recorded broadcast using this feature.

When the **Timeshift Mode** is set to **Auto**, the TV stores the channel you watch currently to record automatically.

When the **Timeshift Mode** is set to **Manual**, if you press the **▶** (Play) button, the TV stores the channel from the point of view you want to record.

NOTE

- Recorded videos are DRM (digital rights management) protected and cannot be played on a PC or other TVs, nor can they be played when the main board of the TV is changed.
- Data broadcasts cannot be recorded.
- The availability of both recording and the **Timeshift Mode** function may differ depending on picture quality and the free space on the hard disk drive.
- If you press the **▲** or **▼** button, you can see the current channel being on air, or can see the start point the recorded broadcast.
- The **Timeshift Mode** operates for a maximum of 90 minutes.
- After the **Timeshift Mode** function has run for the maximum time, the time information will be fixed to "00:00:00." Note that if you have paused the recording the TV will automatically resume playback.
- If the 5% free memory space limit of the USB storage device is reached, the current recording process will be closed.
- When recording is performed by both the PVR (Personal Video Recorder) function and a device that supports the HDMI-CEC feature, recording by the PVR function takes precedence.
- During a playback or the **Timeshift Mode**, the picture will be displayed according to the display settings of the TV.
- If you change the input source during recording, the screen will go blank until the change is completed.
- An application which supports neither the recording nor the **Timeshift Mode** function will close automatically if you try to use it during either function.
- A message may appear in front of the application window indicating that the recording or the **Timeshift Mode** function is closed.
- **Timeshift Mode** function is not supported for radio channels.
- The recording and the **Timeshift Mode** functions are disabled for channels locked with **Child Lock**.
- If the USB device has failed the **Device Performance Test**, the USB device must go through the **Device Format** and **Device Performance Test** again before you record with the **Guide** or **Channel Manager**.
- The recording and **Timeshift Mode** functions can only be used with a USB storage device that completed the **Device Performance Test**.
- If you attempt the recording or **Timeshift Mode** function with a device that did not have the **Device Performance Test**, the function will not start.
- If you press (REC) on the remote control while the **Channel Manager** screen is being displayed or record with **Timer Recording**, the TV may start or stop recording 1 or 2 seconds later than you intended due to the time needed to process the command.

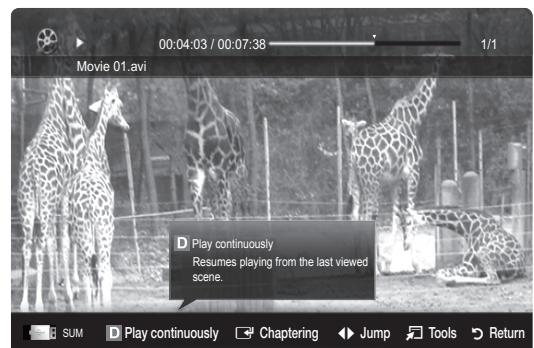
- If a USB device dedicated to recording is connected, existing **Timeshift Mode** or recording files that were saved abnormally will automatically be deleted.
- If you switch to external input mode during recording, the recording will continue but the (REC) button will be disabled.
- If any function that turns off the TV (**Sleep Timer**, Off timer, etc.) is set for a time that conflicts with recording, the TV will be turned off once the recording is complete.

Playing recorded TV or movie file continuously (Resume Play)

If you exit the playing Recorded TV or Videos function, it can be played later from the point where it was stopped.

 If you press the **ENTER** button (**Chaptering**) during playing the file, you can explore scene divided into 5 chapters you want.

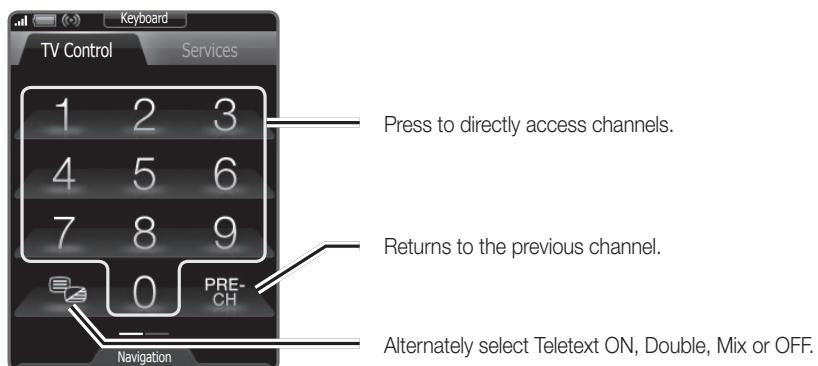
1. Select the movie file you want to play continuously by pressing the **◀** or **▶** button to select it from the file list section.
 2. Press the **[▶]** (Play) / **ENTER** button.
 3. Select **Play Continuously** (Resume Play) by pressing the Blue button. The Movie will begin to play from where it was stopped.
-  The Blue button is available when resuming play.
-  If the **Cont. movie play help** function is set to **On** in the **Settings** menu, a pop-up message will appear when you resume play a movie file.



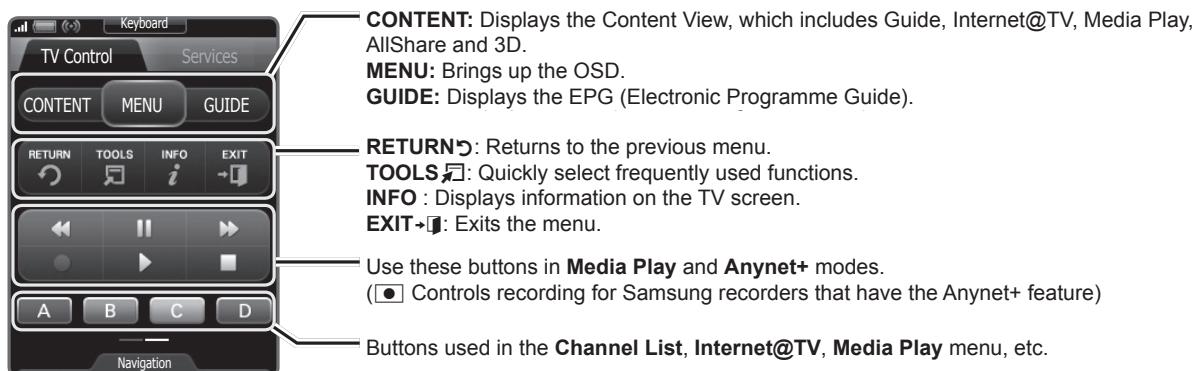
2-6-7. 3" Premium Remote

■ Remote Control Screen Display

1 Initial Screen



2 Drag to the Left direction



3 Tap the Navigation or Menu button.

4 Tap Services.



Selects the on-screen menu items and changes the values seen on the menu.

■ Setting Up Your Remote

You can set up your 3" LCD Touch Control to control your TV in three ways:

As a standard, IR (Infra Red) remote

As an IR remote, your LCD Touch Control works the same way as a standard push button remote, except you touch icons and symbols on the LCD screen to control your TV instead of pushing buttons. Using your Touch Control as an IR remote requires no more set up than a standard remote and gives you access to most of the remote's functions and features.

As an extended distance, Wi-Fi remote

As an extended distance, Wi-Fi remote, your Touch Control offers all the functions and features of the IR mode and, because it uses Wi-Fi radio waves instead of infra red waves to control your TV, it lets you control your TV from a much greater distance and even from around corners. It also gives you access to the Twin Display function which lets you watch the Programme or content that is on your TV screen on the LCD screen of the Touch Control. The long distance, Wi-Fi mode requires a few additional setup steps; possibly including re-initialization. It also requires you to attach Samsung's Wireless LAN Adapter (WIS09ABGN, WIS09ABGN2, or WIS10ABGN) to one of your TV's USB ports.

As a networked, Wi-Fi remote

As a networked, Wi-Fi remote, your Touch Control gives you all the functions and features of the IR and the extended distance modes and also gives you access to the Multimedia function which lets you listen to or view music, movie, and picture files from your PC on your TV screen. You can also download upgrades to your Touch Control's software directly from the Internet. The networked, Wi-Fi mode requires the largest number of setup steps. In addition, to use the networked, Wi-Fi mode, you need a working local area network and a wireless router. You also need to attach Samsung's Wireless LAN Adapter (WIS09ABGN, WIS09ABGN2, or WIS10ABGN) to one of your TV's USB ports. To use the Multimedia function, you need to install Samsung's PC Share Manager on your PC. You can download PC Share Manager from <http://www.samsung.com>.

■ Setting up the Network

You can set up a wireless network for the 3-inch remote control.

How to connect using PBC (WPS)

If your router has a PBC (WPS) button, follow these steps:

1. Connect your TV to your LAN.
2. On the **Services** screen, touch **Settings → Remote Settings**.
3. Touch **Network**.
4. Touch the **PBC(WPS)**.
5. If the **Press PBC button on the access point within 120 seconds.** message appears, press the PBC button on the device to connect.
☞ For more information, refer to the wireless network setup manual of the device to be connected.
6. If the device is connected properly to the TV after starting count on message box then message box will be disappeared automatically.
☞ If the connection fails, please retry after 2 minutes.

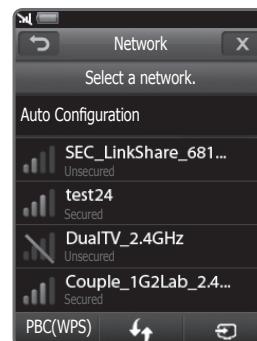
Press the PBC button on the access point within 120 seconds.
 Remaining Time : 112

Connecting to network

To setup the wireless connection automatically, follow these steps:

1. Follow Steps 1 through 3 in the "How to connect using PBC (WPS)" procedure.
☞ If the intended network cannot be found in the list, select to open the list of networks again.
2. Select a network and connect to the network using the encryption method (PIN, security key, ad-hoc, etc.) set for the network.
3. When the network connection is complete, select **Test** to perform a network test.
☞ For the automatic IP, the AP will automatically define the **IP Address, Subnet Mask, Gateway and DNS server**.
☞ For the manual IP, you can select **Edit** and directly enter the **IP Address, Subnet Mask, Gateway and DNS server**.

☞ For Full Touch Control instructions, please read the Touch Control's user manual.



■ Setting Up Your Remote

When the TV is initially powered on, a sequence of on-screen prompts will assist in configuring basic settings. Press the **POWER** button. **Plug & Play** is available only when the **Input** source is set to TV.

 To return to the previous step, press the Red button.

1	Turn on the TV and Touch Control.	<ul style="list-style-type: none"> Turn on the Touch Control and then tap OK on your remote. <p> It may take about one minute to establish a wireless connection between the TV and Touch Control using the Samsung Wireless LAN Adapter.</p>	
2	Connect the Samsung Wireless LAN Adapter	<ul style="list-style-type: none"> Connect the Samsung Wireless LAN Adapter to the TV. You can connect the Samsung Wireless LAN Adapter using one of the methods shown on page 35. If the connection fails, reconnect the Samsung Wireless LAN Adapter and then try again. 	
3	Selecting a language	Press the ▲ or ▼ button, then press the ENTER button. Select the desired OSD (On Screen Display) language.	
4	Selecting Store Demo or Home Use	Press the ◀ or ▶ button, then press the ENTER button. <ul style="list-style-type: none"> Select the Home Use mode. Store Demo Mode is for retail environments. To return the unit's settings from Store Demo to Home Use (standard): Press the volume button on the TV. When the OSD volume is displayed, press and hold MENU for 5 sec. 	
5	Selecting a country	Press the ▲ or ▼ button, then press the ENTER button. Select the appropriate country. <p> After selecting the country in the Country menu, some models may proceed with an additional option to setup the pin number.</p> <p> When you input the PIN number, 0-0-0-0 is not available.</p>	
6	Selecting an antenna	Press the ▲ or ▼ button, then press the ENTER button. Select Air or Cable .	
7	Selecting a channel	Press the ▲ or ▼ button, then press the ENTER button. Select the channel source to memorise. When setting the antenna source to Cable , a step appears allowing you to assign numerical values (channel frequencies) to the channels. For more information, refer to Channel → Auto Store (p. 18). <p> Press the ENTER button at any time to interrupt the memorisation process.</p>	
8	Setting the Clock Mode	Set the Clock Mode automatically or manually. Press the ▲ or ▼ button to select Auto , then press the ENTER button.	
9	Time Zone	Press the ▲ or ▼ button to select the your time zone, then press the ENTER button. (depending on the country)	
10	Viewing the HD Connection Guide .	The connection method for the best HD screen quality is displayed.	
11	Enjoy your TV.	Press the ENTER button.	

If You Want to Reset This Feature...

Select **Setup - Plug & Play** (Initial Setup). Enter your 4 digit PIN number. The default PIN number is "0-0-0-0." If you want to change the PIN number, use the **Change PIN** function.

3. Disassembly and Reassembly

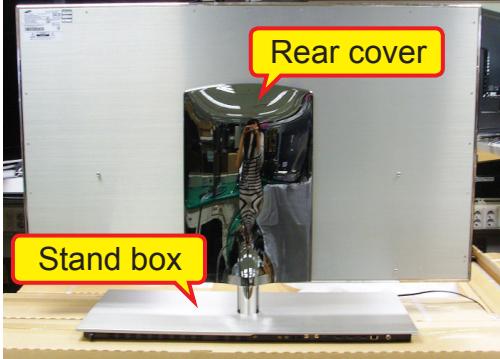
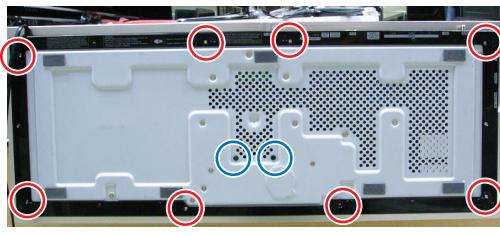
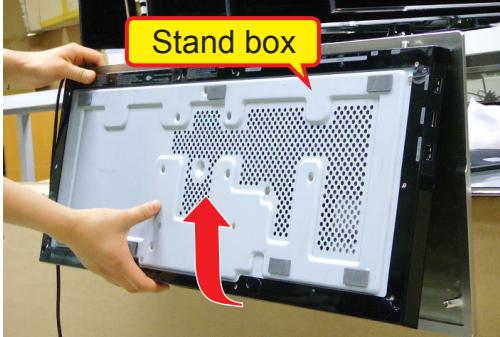
This section of the service manual describes the disassembly and reassembly procedures for the UN46/55C9000ZF LED TV.

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

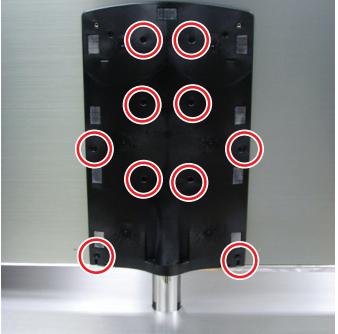
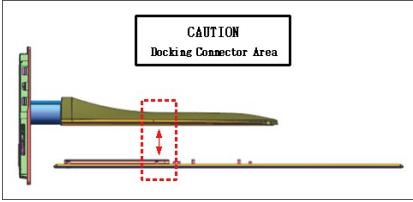
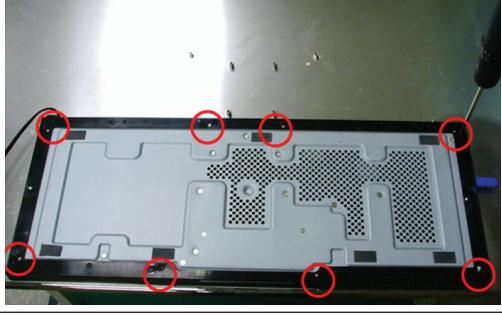
3-1. Disassembly and Reassembly

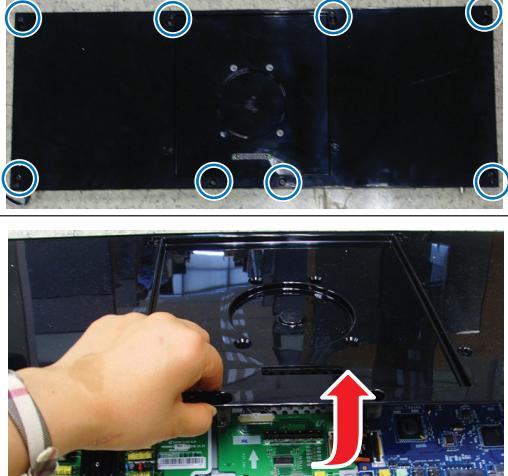
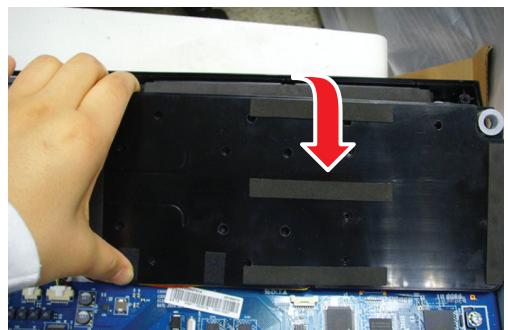
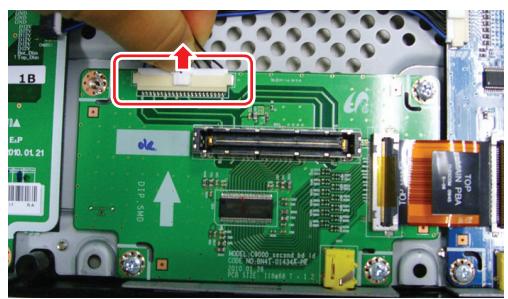
⚠ Cautions:

1. Disconnect the LED TV from the power source before disassembly.
2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.

Description	Picture Description	Screws
1. Place the face down on cushioned table. Remove screw from stand bottom.		
		 6003-000133 (M4, L8, MACHINE)  6003-001003 (M4, L12, TAPTYPE)
2. Lift up the rear-cover.		
		

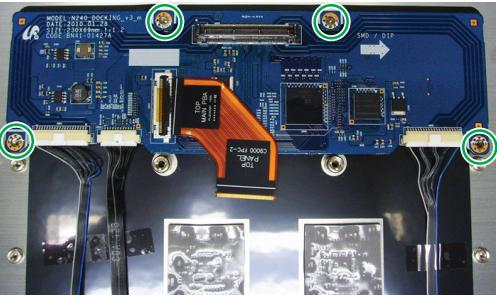
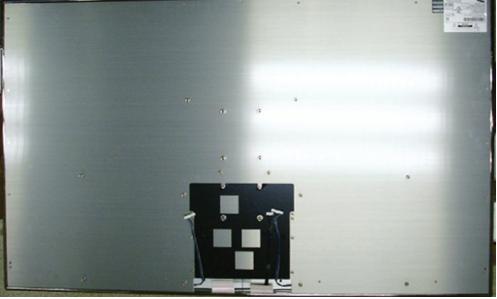
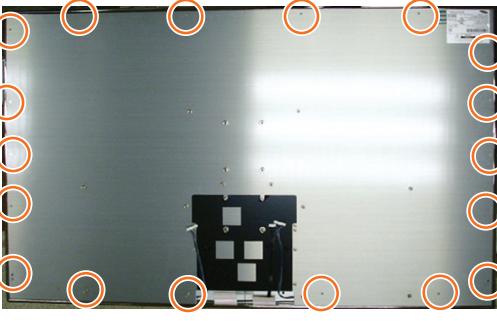
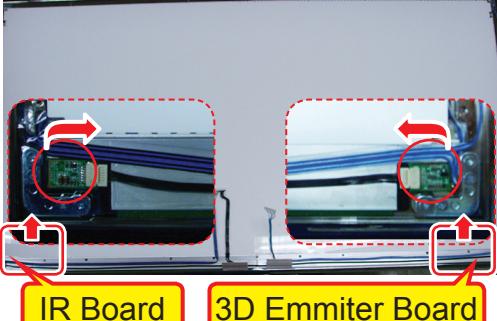
3. Disassembly and Reassemble

Description	Picture Description	Screws
3. Remove screw from rear cover.		 6003-000133 (M4, L8, MACHINE)
Lift up the Stand.  * Then, You can change the Panel.		
in case of wall-mount		
1. Remove the TV from Wall.		
2. Remove the Screws from Stand Box.		 6003-000133 (M4, L8, MACHINE)
3. Remove the Stand box from Panel. * Then, You can change the Panel.		

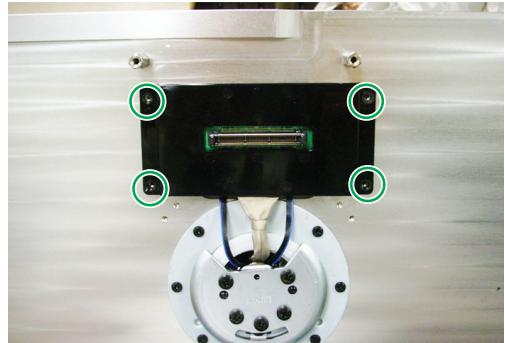
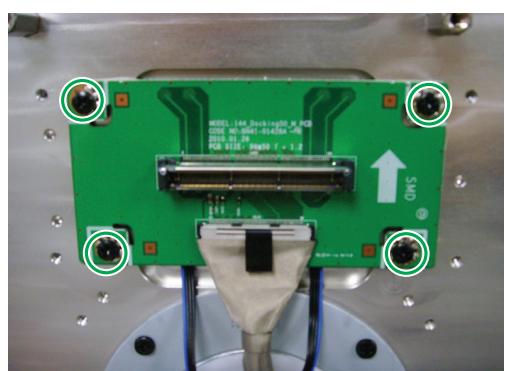
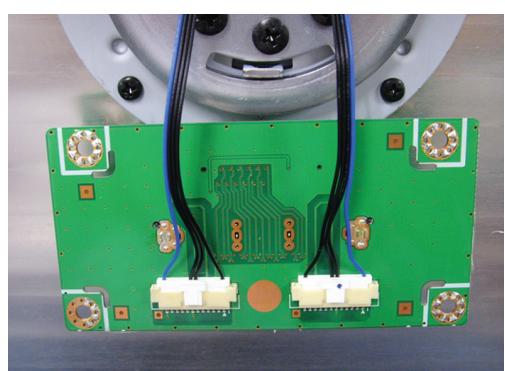
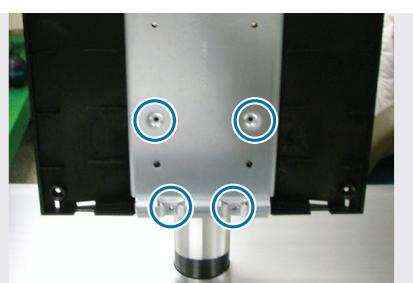
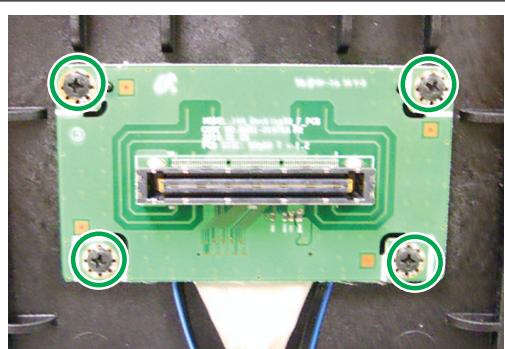
Description	Picture Description	Screws
4. Remove screw from stand box, lift up the stand box cover.	 	 6003-001003 (M4, L12, TAPTYPE)
5. Remove the Main board. Lift up the Woofer.		
Remove the cable from Main_docking board.		
Remove the screw of the Main_docking board and lift up LVDS connector locking of main board.		 6001-002283 (M3, L5, Machine)

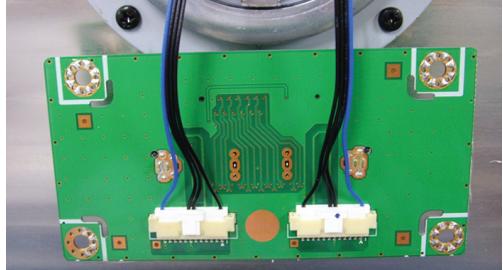
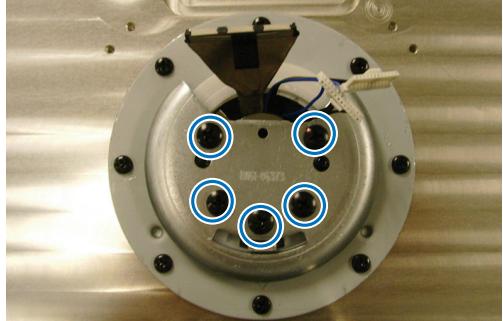
3. Disassembly and Reassemble

Description	Picture Description	Screws
Remove the Main_docking board (BN94-03610B).		
Remove the screw of main board.		 6001-002283 (M3, L5, Machine)
Remove the main board. * when remove the main board, sliding to the left and lift up		
6. Remove the screw of IP board.		 6001-002283 (M3, L5, Machine)
7. Remove T-con board & panel_docking board. Remove the screw of panel cover.		 6001-002283 (M3, L5, Machine)

Description	Picture Description	Screws
Detach the cable connected to T-con Board and Remove the screw of T-con. * If is not perfect connection, may cause vertical noise. So, be careful.		 6001-002283 (M3, L5, Machine)
Remove the screw of Panel_docking board.		 6001-002283 (M3, L5, Machine)
Panel		 6001-002283 (M3, L5, Machine)
8. Remove the IR & 3D Emmiter. Remove the screws from Panel.		 6001-000352 (M3, L6, Machine)
Remove the IR & 3D emmitter board. (assy board P-IR & 3D Emitter) when assembling the Panel, be careful of dust. Remove any dust with a soft lintfree towel.		

3. Disassembly and Reassemble

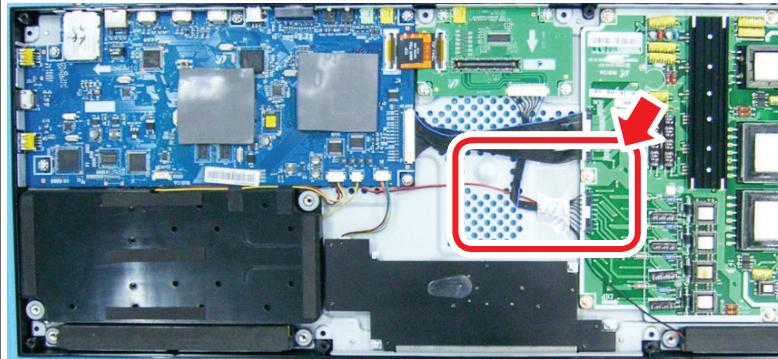
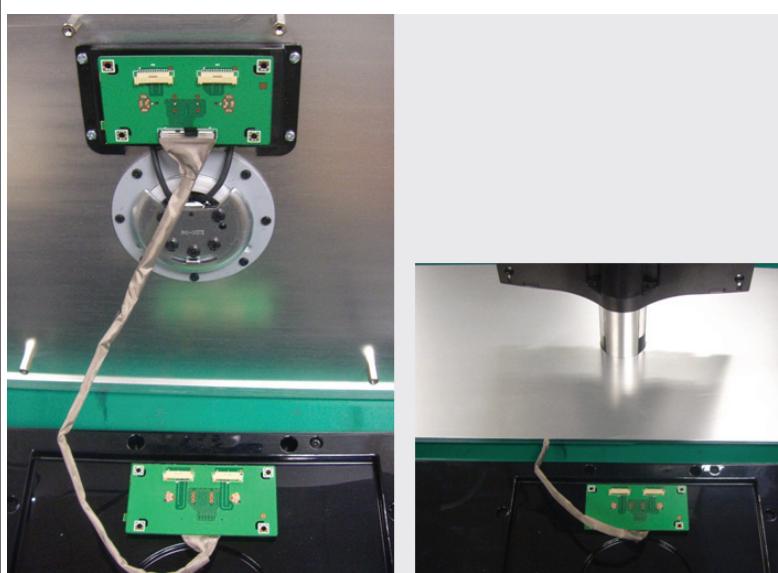
Description	Picture Description	Screws
<p>9. Remove the Male Docking board from stand. Remove the screw from Stand bottom.</p>		 6001-002283 (M3, L5, Machine)
<p>Remove the male Docking PCB from Stand bottom(BN96-14758B). * When assembling the Female Docking PCB, tighten screw then back out 1 and 1/2 turns to leave the board loose. This allows easy mating of the female and male docking PCB.</p>		 6001-002283 (M3, L5, Machine)
<p>Disconnect the cable from the Male Docking PCB bottom.</p>		
<p>Remove the Female Docking board from stand. Remove the screw from Stand back.</p>		 6003-001003 (M4, L12, TAPTYPE)
<p>Remove the screws form the Male Docking PCB(BN96-14759B).</p>		 6001-002283 (M3, L5, Machine)

Description	Picture Description	Screws
<p>Remove the cable from Female Docking PCB bottom.</p> <ul style="list-style-type: none"> * When assemble the Docking PCB, be careful of the direction of cable. 		
<p>10. Remove the cable between Male Docking PCB and Female Docking PCB.</p> <ul style="list-style-type: none"> * Remove the Screws from Stand. 		 6003-001003 (M4, L12, TAPTYPE)
Remove the Screws from Stand bottom.		 6003-001003 (M4, L12, TAPTYPE)
Cable.		

※ Reassembly procedures are in the reverse order of disassembly procedures.

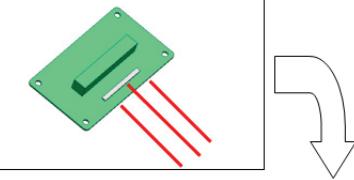
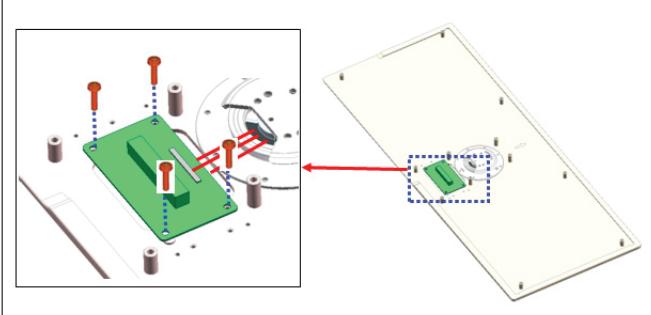
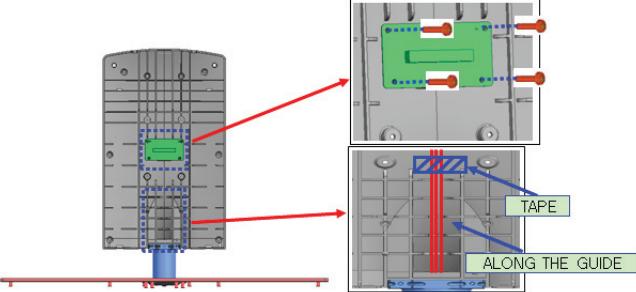
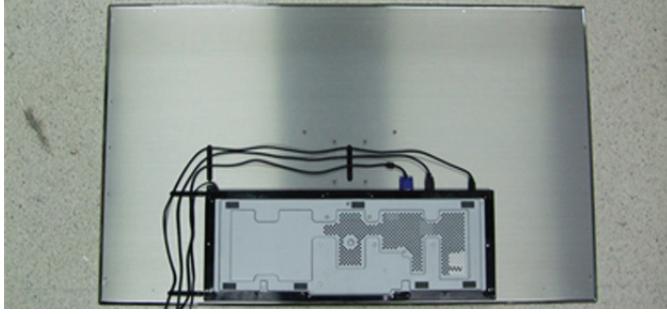
3. Disassembly and Reassemble

Assemble Caution

Description	Picture Description
<p>1. When you do assemble. If do not attach the filament tape on speaker cable, the cable can be pressed by stand cover.</p>	
<p>2. After repair the board. (Main board or sub docking boards). you can check the TV working condition by connecting male and female docking board without assembling the Stand. Male docking board connect to Main_docking board, Female docking board connect to Panel_docking board. refer to side the picture.</p>	

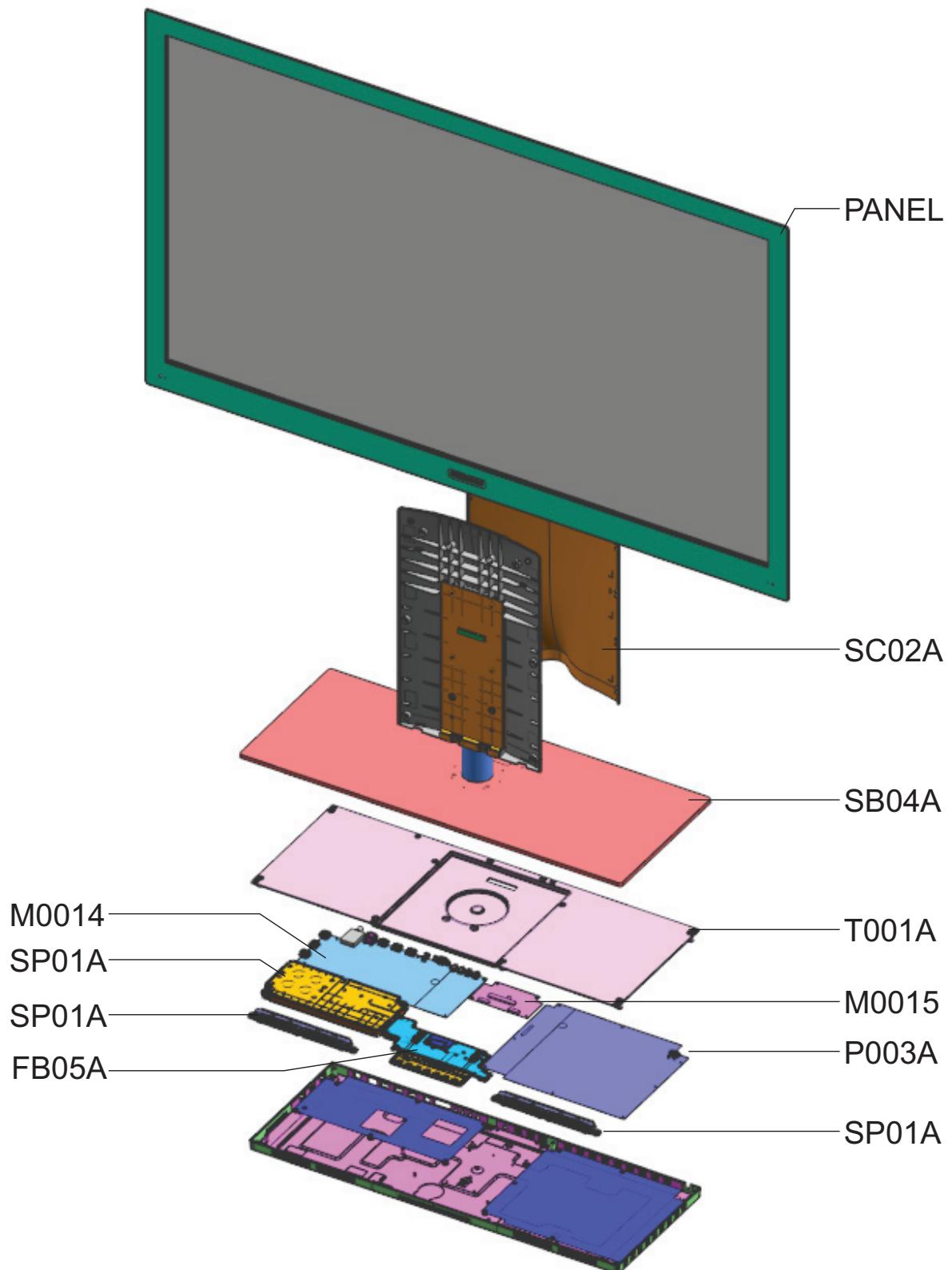
※ Do not disassemble the Panel except to change IR & 3D Emmiter board.

 **Assemble Caution**

Description	Picture Description
Docking PCB Assembly method	
Male DOCKING PCB + STAND 1. Get wires connected with Docking PCB bottom. 2. Put wires though neck as side picture. 3. Fasten Screw on the top of Docking PCB bottom.	 
GUIDE STAND + STAND + Female DOCKING PCB 1. Put wires along the guide rib and fix its position by putting tape on them. 2. Fasten Screws on the top of Docking PCB TOP(4 PCS).	
Wall type * Specification of the connection of the wires in wallmounting.	
	

5. Exploded View & Part List

5-1. UE55C9000SW Exploded View



5. Exploded View & Part List

5-1-1. UE55C9000SW Parts List

Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
PANEL	BN95-00399C	ASSY PRODUCT LCD;T550FCE1-FS,SLL8DS1,10b	1	SA	
SC02A	BN96-14599A	ASSY COVER P-GUIDE STAND;UC9000,PC,V0,BK	1	SA	
SB04A	BN96-14107C	ASSY STAND P-BASE;UC9000,EO,AL	1	SNA	
T001A	BN96-15367B	ASSY COVER P-TOP;UC9000,EO,CIS,SO,BRAZIL	1	SNA	
M0015	BN94-03610B	ASSY PCB MISC-MAIN BOX SECOND;UN55C9000Z	1	SA	
P003A	BN44-00364B	DC VSS-LED TV PD BD;PD55BF2_ZDY,PD55BF2_	1	SA	
SP01A	BN96-13901A	ASSY SPEAKER P;8ohm,4pin,15,9015 unit (2	1	SA	
M0014	BN94-03436L	ASSY PCB MAIN;UE55C9000ZWXRU	1	SA	
SP01A	BN96-13902A	ASSY SPEAKER P;4ohm,4pin,25W,160mm,9030	1	SA	
FB05A	BN96-14587C	ASSY BOARD P;UC9Z 46,MGMPDW282EU,SENTRON	1	SA	

5-2. UE55C9000SW Parts List

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
			UE55C9000SWXRU			
0.1	S001A	BN90-02799C	ASSY STAND;UC9000,EO	1	SNA	
.2	SB04A	BN96-14107C	ASSY STAND P-BASE;UC9000,EO,AL	1	SNA	
...3	T0081	6001-002283	SCREW-MACHINE;BH,+,M3,L5,ZPC(WHT),SWRCH1	8	SNA	
...3	M0081	6003-000115	SCREW-TAPTYPE;BH,+,B,M3,L6,ZPC(BLK),SWRC	4	SNA	
...3	SCREW	6003-001782	SCREW-TAPTYPE;BH,+,B,M4,L12,ZPC(BLK),SWR	6	SA	
...3	EC13	BN39-01341A	LEAD CONNECTOR;UN55C9000ZFXZA,Lead Conne	1	SA	
...3	CB18	BN61-06380A	BRACKET-STAND LINK;UC9000,HGI,T3.0	1	SNA	
...3	AC280	BN63-06893A	COVER-PCB;UC9000,PC+ABS,T1.5,V0,BK0007	1	SNA	
...3		BN63-07346A	GASKET;GASKET EMI,Polyurethane Sponge+Po	1	SNA	
...3		BN63-07347A	GASKET;GASKET EMI,Polyurethane Sponge+Po	1	SNA	
...3	BS01A	BN96-14907C	ASSY BRACKET P-STAND TOP;UC9000,EO,AL,T8	1	SA	
....4	T0081	6001-002283	SCREW-MACHINE;BH,+,M3,L5,ZPC(WHT),SWRCH1	8	SNA	
....4	SCREW	6003-001782	SCREW-TAPTYPE;BH,+,B,M4,L12,ZPC(BLK),SWR	6	SA	
....4		BN61-06365A	HOLDER-SWIVEL RING BOTTOM;UC9000,ACETAL	1	SNA	
....4		BN61-06370A	HOLDER-SWIVEL RING TOP;UC9000,ACETAL	1	SNA	
....4	SG01	BN61-06371A	GUIDE-STAND NECK;UC9000,PETG,V2,TP0003	1	SA	
....4		BN61-06373A	BRACKET-SWIVEL BOTTOM;UC9000,HGI-SGHC,T3	1	SNA	
....4		BN61-06374A	BRACKET-SWIVEL TOP;UC9000,EGI,T2.0	1	SNA	
....4		BN61-06376C	BRACKET-STAND TOP;UC9000,EO,AL,T8.0	1	SNA	
....4		BN74-00031A	GREASE;kanto-kasei FL-955,grease,wht	0.4	SNA	
....4	DN01	BN96-15164B	ASSY DECORATION P-NECK;UC9000,EO,PC+ABS,	1	SA	
....5		BN64-01374B	DECORATION-NECK;UC9000,ABS+PC,V1,NC0035,	1	SNA	
....5		BN60-00189B	SPACER-FELT;UC9000,L53,T0.5,W10	2	SNA	
....5		BN74-00080B	TAPE-REFLECTOR;UC9000,UX150,WHITE,T0.2 W	2	SNA	
....5		BN74-00080C	TAPE-REFLECTOR;UC9000,UX150,WHITE,T0.2 W	1	SNA	
....4		BN63-07381A	GASKET;GASKET EMI,Polyurethane Sponge+ P	1	SNA	
....4		BN63-07397A	GASKET;GASKET EMI,Polyurethane Sponge+ P	2	SNA	
....4		BN63-07469A	GASKET;GASKET EMI,Polyurethane Sponge+ P	1	SNA	
...3	EC13	BN39-01373A	LEAD CONNECTOR;UN55C9000ZF,Lead Connecto	1	SA	
...3	BD02A	BN96-14758B	ASSY BOARD P-DOCKING;UC9Z,SJ10-01-006C,S	1	SA	
...3	BD02A	BN96-14759B	ASSY BOARD P-DOCKING;UC9Z,SJ10-01-006D,S	1	SA	
...3		0203-001319	TAPE-CONDUCTOR;DK-K102-60-130,T0.13,W130	1	SNA	
...3		BN68-02990A	LABEL-STICKER;WW,Art PAPER,T0.05,100,60,	1	SNA	
...3	SG03A	BN96-15586A	ASSY STAND P-GUIDE;UC9000 46/55,PC+GF20%	1	SNA	
....4		BN60-00209A	SPACER-DUAL LOCK;UC9000,CLEAR,W20,SJ 457	9	SNA	
....4	SG03	BN61-06364A	GUIDE-STAND;UC9000,PC+GF20%,BK0007	1	SA	
0.1		BN91-05378C	ASSY SHIELD;UE55C9000ZWXXC	1	SNA	
.2	T0081	6001-002283	SCREW-MACHINE;BH,+,M3,L5,ZPC(WHT),SWRCH1	19	SNA	
.2	M0081	6003-000337	SCREW-TAPTYPE;BH,+,S,M4,L10,ZPC(BLK),SWR	20	SA	
.2	SCREW	6003-001782	SCREW-TAPTYPE;BH,+,B,M4,L12,ZPC(BLK),SWR	8	SA	
.2	EC11	BN96-12845B	ASSY POWER CORD;250/2.5A,LP-21L,H03VVH2F	1	SA	
.2	SP01A	BN96-13901A	ASSY SPEAKER P;8ohm,4pin,15,9015 unit (2	1	SA	
.2	SP01A	BN96-13902A	ASSY SPEAKER P;4ohm,4pin,25W,160mm,9030	1	SA	
.2		BN96-14105F	ASSY COVER P-MAIN BOX;UC9000 46/55,EO,PC	1	SNA	
...3		6001-002624	SCREW-MACHINE;FH,+,M3,L4,BLK,SWRCH18A	10	SNA	
...3		BN61-06375C	BRACKET-STAND BOT;UC9000,EO,SECC,T1.0	1	SNA	

5. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...3		BN63-06884A	SHEET-INSULATOR POWER;PC T0.43	1	SNA	
...3	AC352	BN63-06892F	COVER-SIDE;UC9000,EO,PC+ABS,T3.0,V0,BK00	1	SNA	
...3		BN64-01366A	GRILLE-SPEAKER FRONT;UC9000,PET,T0.35	1	SNA	
...3	AG060	BN64-01367A	GRILLE-SPEAKER L;UC9000,PET,T0.35	1	SNA	
...3	AG070	BN64-01392A	GRILLE-SPEAKER R;UC9000,PET,T0.35	1	SNA	
...3		BN73-00286A	RUBBER-FOOT;UC9000,RUBBER,16*33,T3,BLK	7	SNA	
...3		BN60-00162X	SPACER-FOAM;FOAM,30000mm,Dark Gray,1T,15	0.72	SNA	
...3		BN63-06885B	SHEET-INSULATOR PCB;PC T0.43,EO	1	SNA	
...3		BN73-00286B	RUBBER-FOOT;UC9000,RUBBER,8*33,T3,BLK	1	SNA	
..2	FL06	BN96-14108C	ASSY CABLE P-FPCB LVDS CABLE;C9000,FPCB	1	SA	
..2	FB05A	BN96-14587C	ASSY BOARD P;UC9Z 46,MGMPDW282EU,SENTRON	1	SA	
..2	SC02A	BN96-14599A	ASSY COVER P-GUIDE STAND;UC9000,PC,V0,BK	1	SA	
...3		BN60-00209A	SPACER-DUAL LOCK;UC9000,CLEAR,W20,SJ 457	9	SNA	
...3		BN63-06883A	COVER-GUIDE STAND;UC9000,PC,V0,BK0008,TI	1	SNA	
..2	EC13	BN39-01342B	LEAD CONNECTOR;UN55C9000ZF,Flat Connecto	1	SA	
..2	EC13	BN39-01344B	LEAD CONNECTOR;UN55C9000ZF,Flat Connecto	1	SA	
..2	P003A	BN44-00364B	DC VSS-LED TV PD BD;PD55BF2_ZDY,PD55BF2_	1	SA	
..2		BN73-00291A	SILICON/RUBBER-GAPPAD;UC9Z,SILICON+POLYM	2	SNA	
..2		BN73-00292A	SILICON/RUBBER-GAPPAD;UC9Z,SILICON+POLYM	1	SNA	
..2		BN73-00241A	SILICON/RUBBER-GAPPAD;UN55B9000XF,SILICO	1	SNA	
..2		BN73-00295A	SILICON/RUBBER-GAPPAD;UE55C9000,SILICON+	1	SNA	
..2		BN73-00296A	SILICON/RUBBER-GAPPAD;UE55C9000,SILICON+	1	SNA	
..2	T001A	BN96-15367B	ASSY COVER P-TOP;UC9000,EO,CIS,SO,BRAZIL	1	SNA	
...3	T001	BN63-06891B	COVER-TOP;UC9000,PC+ABS,T2.5,BK0007,EO,C	1	SNA	
...3		BN60-00162X	SPACER-FOAM;FOAM,30000mm,Dark Gray,1T,15	0.22	SNA	
..2		BN73-00273B	SILICON/RUBBER-GAPPAD;UE32C6500,SILICON+	1	SNA	
0.1		BN91-05648C	ASSY LCD-AMLCD VD;BN95-00399C	1	SNA	
..2	PANEL	BN95-00399C	ASSY PRODUCT LCD;T550FCE1-FS,SLL8DS1,10b	1	SA	
...3	T0081	6001-002283	SCREW-MACHINE;BH,+,M3,L5,ZPC(WHT),SWRCH1	6	SNA	
...3		6001-002623	SCREW-MACHINE;FH,+,M1.6,L5,Cr+3 PLT,SWCH	44	SNA	
...3		6001-002624	SCREW-MACHINE;FH,+,M3,L4,BLK,SWRCH18A	2	SNA	
...3	W392	6003-000282	SCREW-TAPTYPE;BH,+,-,B,M3,L8,ZPC(BLK),SW	4	SA	
...3		BN63-07168A	SHEET-DIFFUSER;UC9000 55inch,UTE23-10B,0	1	SNA	
...3		BN63-07169A	SHEET-PRISM;UC9000 55inch,UTE33-10B,0.3,	1	SNA	
...3		BN63-07170A	SHEET-DBEF D2-400;UC9000 55inch,DBEF D2-	1	SNA	
...3	CCMM1	BN73-00218A	SILICON/RUBBER;UE32B6000VWXXC,SILICON+PO	5	SNA	
...3		BN73-00282A	SILICON/RUBBER-GAPPAD;UC9Z,SILICON+POLYM	4	SNA	
...3		BN74-00055A	TAPE-WIRE;DW-0.1T,30*12*0.05T	12	SNA	
...3		BN74-00081A	TAPE-REFLECTOR;UC9000 55",UX150,WHITE,T0	4	SNA	
...3		BN74-00082A	TAPE-REFLECTOR;UC9000 55",UX150,WHITE,T0	2	SNA	
...3		BN74-00098A	TAPE-CELL;UC9000 55",W11, L1230, BLACK &	1	SNA	
...3	TCON	BN81-04721A	A/S-T CON LTQ550HQ01;LTQ550HQ01	1	SA	
...3		BN96-13547A	ASSY MISC P-LED BAR;UC9000 55inch (B),SE	2	SNA	
...3		BN96-14006A	ASSY MISC P-LED BAR;UC9000 55inch (A1),S	2	SNA	
...3		BN96-14007A	ASSY MISC P-LED BAR;UC9000 55inch (A2),S	2	SNA	
...3	F001A	BN96-14101A	ASSY COVER P-FRONT;55,UC9000,UC,SUS416 T	1	SNA	
....4		BN61-04248C	BOSS-TAPE;#4920,acryl,0.45mm,12mm,3M,whi	4	SNA	
....4		BN61-06372A	BRACKET-CORNER;UC9000,SK5,T1.0	4	SNA	
....4		BN61-06608A	GUIDE-CELL;UC9000,SILICON,T1.0,WHITE	2	SNA	
....4		BN61-06609A	GUIDE-CELL;UC9000,SILICON,T2.0,WHITE	10	SNA	
....4	F001	BN63-06869A	COVER-FRONT;UC9000 55",SUS416,0.6,HAIR L	1	SNA	

5. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4		BN63-06879A	COVER-MIDDLE TOP;UC9000,AL,extrusion	1	SNA	
....4		BN63-06880A	COVER-MIDDLE L;UC9000,AL,extrusion	1	SNA	
....4		BN63-06882A	COVER-MIDDLE BOTTOM;UC9000 55",AL,extrus	1	SNA	
....4		BN63-06909A	COVER-MIDDLE R;UC9000 55,AL	1	SNA	
....4		BN63-06962A	SHEET-INSULATOR S-BOARD L;PET,T0.1	1	SNA	
....4		BN63-06963A	SHEET-INSULATOR S-BOARD R;PET,T0.1	1	SNA	
....4		BN64-01444A	BADGE-BRAND;UC9000,AL,W 65,ELETRO FORMIN	1	SNA	
....4		6001-002624	SCREW-MACHINE;FH,+,M3,L4,BLK,SWRCH18A	16	SNA	
....4		BN63-07229A	COVER-SHEET;rose70",urethane,T0.052,W50m	2.94	SNA	
....4		BN63-07229C	COVER-SHEET;rose70",urethane,T0.052,W70m	1.32	SNA	
....4		BN60-00123K	SPACER-FELT;UC9000,FELT,L1226,BLK,T0.35,	2	SNA	
....4		BN60-00123L	SPACER-FELT;UC9000,FELT,L684,BLK,T0.35,W	2	SNA	
...3	CS03A	BN96-14106A	ASSY SHIELD P-PCB;UC9000 46/55,AL,T1.0	1	SNA	
....4	RS01	BN63-06900A	SHIELD-PCB;UC9000,AL,T0.8,conversion tre	1	SNA	
....4		BN63-06959A	SHEET-INSULATOR SHIELD;PET,T0.2	1	SNA	
....4		BN63-07349A	GASKET;GASKET EMI,Polyurethane Sponge+ P	1	SNA	
....4		BN63-07350A	GASKET;GASKET EMI,Polyurethane Sponge+ P	1	SNA	
...3	FL06	BN96-14108D	ASSY CABLE P-FPCB LVDS CABLE;C9000,FPCB	1	SA	
...3		BN96-14146A	ASSY OPEN CELL;LTQ550HQ01,C9000,8bit,55i	1	SNA	
...3		BN96-14205A	ASSY MISC P-LGP-LED;C9K 55inch LGP-LED,L	1	SNA	
....4		BN61-06593A	LGP-LED;C9K 55inch,PMMA,2.0,1241.80*710.	1	SNA	
...3	FB30A	BN96-14398B	ASSY BOARD P-IR & 3D EMITTER;UC9Z 55,CT5	1	SA	
...3	BD01A	BN94-03564B	ASSY PCB MISC-N240 DOCKING;UN55C9000ZF	1	SA	
....4		0202-001608	SOLDER-WIRE FLUX;LFC7-107,D0.8,99.3Sn/0.	0.25	SNA	
....4		BN97-04379B	ASSY SMD;UN55C9000ZF,BN94-03564B	1	SNA	
....5		0202-001477	SOLDER-CREAM;LST309-M,D20~45um,96.5Sn/3A	4.805	SNA	
....5	Q101	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	SA	
....5		1105-002086	IC-DDR SDRAM;EM6A9320BIA,128MB,LFBGA,144	1	SA	
....5	IC012	1203-003544	IC-POSI.ADJUST REG.;RT9173BPS,SOP-8,P,5	1	SA	
....5		1203-005538	IC-DC/DC CONVERTER;AOZ1021HAIL,SOP,8P,4.	2	SA	
....5		1203-006133	IC-POSI.ADJUST REG.;AP1117D-25-GZ-13-89,	1	SA	
....5	T0087	1203-006135	IC-POSI.FIXED REG.;AP1117D-33-GZ-13-89,T	1	SA	
....5		1205-003733	IC-SWITCH;AP2191MPG-13,MSOP-8L-EP,8P,2.9	1	SA	
....5		1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	4	SA	
....5	KAR13	2007-000060	R-CHIP;100Kohm,1%,1/10W,TP,1608	1	SA	
....5	KAR21	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
....5	R319	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	3	SA	
....5	R111	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	10	SA	
....5	HDR17	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	36	SA	
....5	UR23	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	53	SA	
....5	R109	2007-000293	R-CHIP;100ohm,5%,1/4W,TP,3216	1	SA	
....5	ZR45	2007-000329	R-CHIP;11Kohm,5%,1/10W,TP,1608	1	SA	
....5		2007-000633	R-CHIP;270Kohm,1%,1/10W,TP,1608	1	SA	
....5	RF03	2007-000828	R-CHIP;39Kohm,1%,1/10W,TP,1608	1	SA	
....5		2007-001096	R-CHIP;62Kohm,1%,1/10W,TP,1608	1	SNA	
....5	R326	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	1	SA	
....5	R133	2007-007004	R-CHIP;12Kohm,1%,1/10W,TP,1608	1	SA	
....5	PR8	2007-007015	R-CHIP;13Kohm,5%,1/16W,TP,1005	1	SA	
....5	R365	2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005	2	SA	
....5	DR4	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	1	SA	
....5		2007-007156	R-CHIP;1ohm,5%,1/16W,TP,1005	2	SA	

5. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....5		2007-007306	R-CHIP;100ohm,1%,1/16W,TP,1005	14	SA	
....5		2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005	4	SA	
....5		2007-007352	R-CHIP;130Kohm,1%,1/10W,TP,1608	1	SA	
....5		2007-007698	R-CHIP;5.1Kohm,1%,1/16W,TP,1005	1	SNA	
....5	C254	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	4	SA	
....5	AC139	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,1608	1	SA	
....5	AD480	2203-000995	C-CER,CHIP;.047nF,5%,50V,C0G,TP,1005	2	SA	
....5	C101	2203-001124	C-CER,CHIP;0.68nF,10%,50V,X7R,TP,1005	1	SA	
....5	AD480	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,1005	6	SNA	
....5	AD480	2203-002494	C-CER,CHIP;470nF,10%,16V,X7R,2012	1	SNA	
....5	C711	2203-002982	C-CER,CHIP;6.8nF,10%,50V,X7R,1005	1	SA	
....5	DC108	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	7	SC	
....5	AAC1	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	8	SA	
....5	VC37	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,1005	76	SA	
....5	C102	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	7	SA	
....5	C802	2203-006348	C-CER,CHIP;1000nF,10%,25V,X5R,TP,1608	1	SA	
....5	C125	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	12	SC	
....5	HE4	2203-006474	C-CER,CHIP;22000nF,20%,6.3V,X5R,2012	16	SA	
....5	AD480	2203-006842	C-CER,CHIP;0.47nF,5%,50V,C0G,1005	4	SNA	
....5	AD480	2203-007138	C-CER,CHIP;2200nF,10%,50V,X7R,TP,3216	1	SA	
....5	AD480	2203-007270	C-CER,CHIP;10000nF,10%,10V,X5R,TP,1608	11	SNA	
....5	T0052	2703-003559	INDUCTOR-SMD;4.7uH,20%,8080	1	SNA	
....5	T0052	2703-003713	INDUCTOR-SMD;1.5uH,20%,7366	1	SA	
....5	L2011	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	SA	
....5	T0568	3301-001236	BEAD-SMD;60ohm,1608	4	SNA	
....5	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	6	SA	
....5	AC510	3708-002777	CONNECTOR-FPC/FFC/PIC;82P,0.5mm/0.75mm,S	1	SA	
....5	HB01A	3711-005471	HEADER-BOARD TO CABLE;BOX,12P,1R,1.25mm,	1	SNA	
....5	HB01A	3711-005472	HEADER-BOARD TO CABLE;BOX,20P,1R,1.25mm,	2	SNA	
....5		3711-007441	CONNECTOR-HEADER;144P,2R,0.5mm,STRAIGHT,	1	SA	
....5	IC125	BN13-00031A	IC ASIC;LUNA,SDP95,400,3.6,-40to+125C,CA	1	SA	
....5	J1	3708-002203	CONNECTOR-FPC/FFC/PIC;40P,0.5mm,SMD-A,AU	1	SA	
....5		BN41-01427C	PCB MAIN;UC9000,FR-4,4,1.2,242*139.5,N99	1	SNA	
...3	EC13	BN39-01372A	LEAD CONNECTOR;55" C9000, wire-harness,F	2	SA	
...3		BN63-07418A	SHEET-PANEL;UC9000,PET Film,0.3,Heating	1	SNA	
...3	R001A	BN96-14104B	ASSY COVER P-REAR;UC9000 55,STAND ONLY,A	1	SNA	
....4		BN60-00162H	SPACER-FOAM;FOAM,50000mm,Dark Gray,0.5T,	2.8	SNA	
....4		BN60-00218A	SPACER-RING;UC9000 55",INNER 5.6,OUTER 1	2	SNA	
....4	R001	BN63-06877B	COVER-REAR;UC9000 55,STAND ONLY,AL,T2.2,	1	SNA	
....4		BN63-06958A	SHEET-INSULATOR T-CON;PET,T0.2	1	SNA	
....4		BN63-07195A	SHEET-INSULATOR REAR;UC9000,PET,T0.075,W	2	SNA	
...3		BN68-02471A	LABEL-STICKER;WW,Art Paper,80,40,AV	1	SNA	
...3		6001-002638	SCREW-MACHINE;FH,+,M3,L6,Ni-plate,SWRCH1	23	SA	
...3		BN96-15385A	ASSY BRACKET P-PCB L;55,UC9000,AL	1	SNA	
....4		BN61-06383A	BRACKET-PCB L;UC9000 55",AL	1	SNA	
....4		BN61-06605A	BOSS-TAPE;UC9000,acryl,T0.15,W17,Transpa	0.58	SNA	
....4		BN63-06960A	SHEET-INSULATOR COF L;PET,T0.1	1	SNA	
...3		BN96-15386A	ASSY BRACKET P-PCB R;55,UC9000,AL	1	SNA	
....4		BN61-06386A	BRACKET-PCB R;UC9000 55,AL	1	SNA	
....4		BN61-06605A	BOSS-TAPE;UC9000,acryl,T0.15,W17,Transpa	0.58	SNA	
....4		BN63-06961A	SHEET-INSULATOR COF R;PET,T0.1	1	SNA	

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Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...3		BN63-07440A	SHEET-REFLECTOR;55C9000,SLP7-85R,0.35,12	1	SNA	
0.1		BN92-06044A	ASSY LABEL;UE46C9000ZWXXC	1	SNA	
.2	T0527	AA68-03752B	LABEL-STICKER;WW,ALL,Art Paper(90g),25,3	1	SNA	
.2		BN68-02974A	LABEL RATING;WW,PET,T0.05,15,340,LED TV	1	SNA	
0.1		BN92-06087P	ASSY BOX;UC9000,55,CIS	1	SNA	
.2		BH68-00662A	LABEL BOX-00;ALL MODEL,MOJO 90G,60,110,W	1	SNA	
.2		BN69-04846A	BOX-SET,IN;55UC9000,CB,C-01,DW1,YEL,W17	1	SNA	
.2		BN69-04847E	BOX-SET,OUT;55UC9000,CB,C-03,DW3,YEL,W1	1	SNA	
.2		BH68-00672C	LABEL SERIAL-00;ALL MODEL,ART PAPER 90G,	1	SNA	
0.1		BN92-06089A	ASSY P/MATERIAL;UC9000 55	1	SNA	
.2	T0214	0203-001269	TAPE-OPP MASKING;#301,T0.06,W75,L50000,N	1.16	SNA	
.2		BN74-00008D	TAPE-OPP MASKING;OPP,T0.05,W75,L800M,CLR	1.56	SNA	
.2		6902-000061	BAG AIR;LDPE,T0.2,W500,L1000,TRP,370.000	1	SNA	
.2		6902-000379	BAG AIR;LDPE,T0.2,W1000,L1800,TRP,1260.0	1	SNA	
.2		6902-000609	BAG ROLL;LDPE,T0.05,W2400,L1000,TRP,30.0	0.29	SNA	
.2	T0524	6902-001042	BAG PE;HDPE/NITRON,T0.015/T0.5,W1500,L10	1	SNA	
.2	T0214	AA61-20285C	HOLDER-BOX;CORAL,PP,BLACK,HB,17.5g	4	SNA	
.2		BN69-04835A	CUSHION-02,SET;UC9000 55",EPS,HQ & EXPOR	1	SNA	
.2		BN69-04848A	PAD-TYPE;55UC9000,CB,DW-3,YEL,W3308,D685	1	SNA	
.2		6902-001241	BAG SHEET;HDPE/NITRON,T0.015/T1.0,W700,L	1	SNA	
0.1	ACCE1	BN92-06599P	ASSY ACCESSORY;UE55C9000SWXRU	1	SNA	
.2		BN96-15339N	ASSY ACCESSORY-MANUAL/CABEL;UE55C9000SWX	1	SNA	
...3	T0120	4301-000121	BATTERY-MN;1.5V,R03,10.5x44.5m,HOLDER,7.	2	SNA	
...3		AA68-03242V	MANUAL FLYER-SAFETY GUIDE;comm,Samsung,1	1	SNA	
...3		AA68-03576B	MANUAL FLYER-REGISTRATION CARD;comm,Sams	1	SNA	
...3	M0114	BN39-01154C	CBF SIGNAL;Chelsea Slim, STEREO Plug to	1	SA	
...3	M0114	BN39-01154F	CBF SIGNAL;UE40B7000WWXXC,24P/20P,30AWG,	1	SA	
...3	M0114	BN39-01154H	CBF SIGNAL;UE40B7000WWXXC,RCA 3PIN,30AWG	1	SA	
...3	EC03	BN39-01154J	CBF SIGNAL;UE40C7700WSXZG,18P,UL20276,11	1	SA	
...3		BN39-01154L	CBF SIGNAL-LAN GENDER;UE40C7700WSXZG,18P	1	SA	
...3		BN39-01154M	CBF SIGNAL-OPTICAL GENDER;UE40C7700WSXZG	1	SA	
...3	REMO2	BN59-01054A	REMOCON;TM1080,SAMSUNG,20PIN SINGLE,49KE	1	SA	
...3	M9889	BN63-01798B	CLOTH-CLEAN;cloth,180,200,sea blue,ToC	1	SNA	
...3	T0527	BN68-00513A	LABEL-E,PASS;ALL MODEL,YUPO(110G),50X15,	1	SNA	
...3		BN68-01925G	MANUAL FLYER-WARRANTY CARD;comm,Samsung,	1	SNA	
...3		BN68-02186A	MANUAL FLYER-TOC GUIDE;COMM,SAMSUNG,11 L	1	SNA	
...3		BN68-02820G	MANUAL USERS;C9000,SAMSUNG,3LANGS,RU,W/P	1	SNA	
...3		BN69-05208A	PAD-01,TYPE;UC9000_ACC,CB,W492,L500,SW,E	1	SNA	
...3		BN69-05305A	CUSHION-BLISTER;UC9000 ACCESSORY,PET,CLE	1	SNA	
...3		BN69-05354A	BOX-01,SET;9000_ACC_BOX-SET(RUS),CB,NON-	1	SNA	
...3		BN68-02977A	MANUAL FLYER-3D GLASSES GUIDE;All,SAMSUN	1	SNA	
...3		BN68-02462B	LABEL-STICKER;CIS,T0.05,93,40,TV-MONITOR	1	SNA	
...3		AA68-03576C	MANUAL FLYER-LEAFLET;comm,Samsung,Russia	1	SNA	
.2		BN96-15292A	ASSY ACCESSORY 3D GLASSES;SSG-2100	1	SNA	
...3	AC180	BN63-06150A	COVER-BATTERY;3D GLASS,ABS,BLK	1	SA	
...3	3DGLA	BN81-04627A	A/S-GLASSES;SSG-2100AB/ZA,LC LENS,DC,60H	1	SA	
...3		BN81-04817A	BAG-ENVELOPE;CLOTH	1	SNA	
...3	FC04A	BN96-14337A	ASSY COVER P-SIDE L;SSG2100,Leg, Holder,	1	SA	
...3		BN96-14338A	ASSY COVER P-SIDE R;SSG2100,Leg, Holder,	1	SA	
0.1	M0017	BN91-05379L	ASSY CHASSIS;UE55C9000ZWXRU	1	SNA	
.2	M0014	BN94-03436L	ASSY PCB MAIN;UE55C9000ZWXRU	1	SA	

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Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...3		0202-001608	SOLDER-WIRE FLUX;LFC7-107,D0.8,99.3Sn/0.	0.25	SNA	
...3		3709-001624	CONNECTOR-CARD EDGE;68P,2.1mm,ANGLE,NI+S	1	SA	
...3	JA330	3722-002844	JACK-PHONE;1/7P,NI,LAUREL-GREEN,ANGLE	1	SA	
...3	JA330	3722-002845	JACK-PHONE;1/7P,NI,YELLOW,ANGLE	1	SA	
...3	JA330	3722-002846	JACK-PHONE;1/6,NI,BLACK,ANGLE	1	SNA	
...3	EC20	BN39-01222B	CBF COAXIAL CABLE;UA55C9000ZR,MINI PHONE	1	SA	
...3	EC20	BN39-01222C	CBF COAXIAL CABLE;UE46C9000Z,MINI PHONE	1	SNA	
...3	ET01	BN40-00191A	TUNER;DTOS30CVH081A,DTOS30CVH081A,DVB-T	2	SA	
...3		BN59-00956B	MODULE;TFQ-9SD12,TFQ-9SD12,1IN/2OUT,50~1	1	SNA	
...3	T0066	BN62-00071A	HEAT SINK-ES;22*22*2.5,Ceramic,T2.6,TAPE	2	SNA	
...3		BN62-00094A	HEAT SINK-CERAMIC;30*30*2.6,Ceramic,T2.6	3	SNA	
...3		BN97-04242L	ASSY SMD;UE55C9000ZWXRU,BN94-03436L	1	SNA	
....4		0202-001767	SOLDER-CREAM;LST-5710,D20~38,42Sn/57Bi/1	5.567	SNA	
....4	DS01A	0401-000116	DIODE-SWITCHING;MMSD914T1,100V,200mA,SOD	5	SA	
....4	DS01A	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	13	SA	
....4	D1	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	SA	
....4	DR01A	0402-001098	DIODE-RECTIFIER;SK34,40V,3A,SMC,TP	1	SNA	
....4		0403-001164	DIODE-ZENER;MMSZ5232B,5.32-5.88V,500mW,S	1	SA	
....4		0403-001783	DIODE-ZENER;BZB84-C6V2,5.8/6.6V,300mW,SO	19	SNA	
....4	D0254	0404-001404	DIODE-SCHOTTKY;BAT721C,40V,200mA,SOT-23,	8	SA	
....4	T0139	0406-001200	DIODE-TVS;RCLAMP0504F,6/-/V,150W,SC-70	2	SA	
....4	T0139	0406-001271	DIODE-TVS;RCLAMP0524P,6/-/V,150W,SLP251	8	SNA	
....4	AD12	0407-000123	DIODE-SWITCHING;DAN202K,80V,100mA,SOT-23	1	SA	
....4	Q101	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	9	SA	
....4		0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	2	SA	
....4	CEQ2	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	6	SA	
....4	Q409	0505-002386	FET-SILICON;AO3415AL,P,-20V,-4A,0.045ohm	5	SA	
....4	IC104	0801-002630	IC-CMOS LOGIC;74AHCT1G08,2-INPUT AND GAT	1	SA	
....4	ND51C2	0801-002780	IC-CMOS LOGIC;74LVC1G17,SCHMITT-TRIGGER	1	SA	
....4	IC104	0801-003330	IC-CMOS LOGIC;Octal buffer,DQFN,20P,4.5x	7	SA	
....4	IC104	0802-001012	IC-CMOS LOGIC;74LCX245,TRANSCEIVER,DQFN,	1	SNA	
....4		0903-001663	IC-MICROCOMPUTER;CLM7600,BGA,400P,17x17m	1	SA	
....4		0904-002119	IC-I/O SUPPORT CHIP;PCF8574TS,8Bit,SSOP,	1	SA	
....4	T0596	0904-002554	IC-USC;AU6256-JBF,QFN,28P,5x5mm,12MHz,TP	1	SA	
....4		1001-000164	IC-ANALOG MULTIPLEX;74HC4052,CMOS,SOP,16	1	SA	
....4	IC106	1001-001627	IC-VIDEO SWITCH;Si9389CTU,TQFP,100P,14x	1	SA	
....4	IC112	1103-001310	IC-EEPROM;24LC02B,256X8BIT,SOIC,8P,3.91X	1	SNA	
....4	IC112	1103-001385	IC-EEPROM;AT24C256,256Kbit,32Kx8,SOP,8P,	1	SA	
....4		1105-002049	IC-DDR2 SDRAM;EM68B16CWPA-25H,DDR2 SDRAM	2	SA	
....4		1105-002058	IC-DDR2 SDRAM;K4T1G164QE-HCF8,DDR2,1Gbit	2	SA	
....4		1105-002075	IC-DDR2 SDRAM;K4T1G084QE-HCF8,DDR2,1Gbit	4	SA	
....4	T0124	1201-002992	IC-POWER AMP;STA369BWS,PSSO,36P,10.3x7.5	2	SA	
....4	T0087	1203-002519	IC-POSI.FIXED REG.;KIA7809AF,DPAK,3P,240	2	SA	
....4	IC012	1203-003544	IC-POSI.ADJUST REG.;RT9173BPS,SOP-8,8P,5	1	SA	
....4		1203-004363	IC-VOL. DETECTOR;RT9818C-29PV,SOT-23,3P,	1	SA	
....4		1203-004364	IC-VOL. DETECTOR;RT9818C-42PV,SOT-23,3P,	1	SA	
....4	IC012	1203-004937	IC-POSI.ADJUST REG.;MP2000DJ-ADJ-LF-Z,TS	1	SA	
....4		1203-005538	IC-DC/DC CONVERTER;AOZ1021HAIL,SOP,8P,4.	2	SA	
....4	IC012	1203-005756	IC-POSI.ADJUST REG.;AP7173-SP,SOP-8L-EP,	2	SA	
....4		1203-006012	IC-DC/DC CONVERTER;MP8725EL,QFN14,14P,3x	1	SA	
....4		1203-006013	IC-DC/DC CONVERTER;AOZ1031AI,SO-8,8P,4.9	3	SA	

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Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	T0087	1203-006109	IC-POSI.FIXED REG.;S-1206B33-M3T1G,SOT-2	1	SA	
....4	T0087	1203-006130	IC-POSI.FIXED REG.;S-1172B25-U5T1G,SOT-8	1	SA	
....4	T0087	1203-006135	IC-POSI.FIXED REG.;AP1117D-33-GZ-13-89,T	1	SA	
....4	T0087	1203-006136	IC-POSI.FIXED REG.;AP1117D-18-GZ-13-89,T	1	SA	
....4	IC012	1203-006138	IC-POSI.ADJUST REG.;AP1117DGZ-13-89,TO-2	3	SA	
....4	T0087	1203-006141	IC-POSI.FIXED REG.;S-1172B33-U5T1G,SOT-8	2	SA	
....4		1203-006142	IC-DC/DC CONVERTER;BD8924G,5P,2.9x1.6x1.	1	SA	
....4		1203-006167	IC-POSI.FIXED REG.;S-1172B12-U5T1G,SOT-8	1	SA	
....4		1204-003056	IC-DEMODULATOR;S5H1432A,TQFN,48P,7x7x0.7	1	SNA	
....4		1204-003100	IC-DECODER;SDP92,FCPBGAH,937P,35x35mm,PL	1	SA	
....4	IC118	1204-003101	IC-VIDEO PROCESS;SDP94,PBGA,345P,19x19mm	1	SNA	
....4	IC118	1204-003128	IC-VIDEO PROCESS;FRC9459S,FBGA,372P,23x2	1	SNA	
....4		1205-003479	IC-SWITCH;TPS2051BDBVR,SOT-23,5P,2.9x1.6	1	SA	
....4		1205-003733	IC-SWITCH;AP2191MPG-13,MSOP-8L-EP,8P,2.9	2	SA	
....4		1205-003735	IC-SWITCH;AP2151WG-7,SOT25,5P,2.9x1.6mm,	1	SA	
....4		1205-003834	IC-ETHERNET CONTROLLER;RTL8201E-VC-GR,QF	1	SA	
....4		1205-003840	IC-CODEC;WM8595GEFL/RS,QFN,48P,7x7x0.9mm	1	SA	
....4		1209-001978	IC-SYNTHESIZER;ICS451,SOIC,8P,4.9x3.9mm,	1	SA	
....4		1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	SA	
....4		1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	16	SA	
....4	J914	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	1	SA	
....4		2007-000039	R-CHIP;0ohm,1%,1/10W,TP,1608	2	SA	
....4	KAR21	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	4	SA	
....4	AR30	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	17	SA	
....4	AR150	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA	
....4	FMR4	2007-000080	R-CHIP;2Kohm,5%,1/10W,TP,1608	3	SA	
....4	MROP1	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	9	SA	
....4	MR604	2007-000137	R-CHIP;2Kohm,5%,1/16W,TP,1005	10	SA	
....4	R105	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	22	SA	
....4	HDR7	2007-000139	R-CHIP;220ohm,5%,1/16W,TP,1005	1	SA	
....4	AR49	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	49	SA	
....4	MR306	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	2	SA	
....4	R319	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	66	SA	
....4		2007-000146	R-CHIP;6.8Kohm,5%,1/16W,TP,1005	1	SA	
....4	R104	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	57	SA	
....4	R102	2007-000149	R-CHIP;12Kohm,5%,1/16W,TP,1005	1	SA	
....4	AR43	2007-000155	R-CHIP;27Kohm,5%,1/16W,TP,1005	1	SA	
....4	MR13	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	11	SA	
....4	DR39	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	5	SA	
....4	R509	2007-000170	R-CHIP;1Mohm,5%,1/16W,TP,1005	4	SA	
....4	R111	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	31	SA	
....4	HDR17	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	8	SA	
....4	R338	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	46	SA	
....4	UR23	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	3	SA	
....4		2007-000231	R-CHIP;1.3Kohm,1%,1/10W,TP,1608	2	SA	
....4	R1035	2007-000287	R-CHIP;100ohm,1%,1/10W,TP,1608	3	SA	
....4	UR53	2007-000305	R-CHIP;10Mohm,5%,1/10W,TP,1608	2	SA	
....4	R809	2007-000475	R-CHIP;1Mohm,1%,1/10W,TP,1608	1	SA	
....4	RT01	2007-000483	R-CHIP;1ohm,5%,1/8W,TP,2012	2	SA	
....4	HR12	2007-000591	R-CHIP;22ohm,1%,1/10W,TP,1608	3	SNA	
....4		2007-000606	R-CHIP;240ohm,1%,1/10W,TP,1608	2	SA	

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Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	JR11	2007-000614	R-CHIP;24Kohm,1%,1/10W,TP,1608	2	SA	
....4		2007-000633	R-CHIP;270Kohm,1%,1/10W,TP,1608	1	SA	
....4	PR2	2007-000651	R-CHIP;27Kohm,1%,1/10W,TP,1608	1	SA	
....4		2007-000736	R-CHIP;30Kohm,1%,1/10W,TP,1608	1	SA	
....4	R19	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	3	SA	
....4	R124	2007-000775	R-CHIP;33Kohm,5%,1/16W,TP,1005	3	SA	
....4	DR37	2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005	2	SA	
....4		2007-000946	R-CHIP;47ohm,1%,1/10W,TP,1608	7	SA	
....4	S1I0240	2007-001119	R-CHIP;680ohm,5%,1/16W,TP,1005	1	SNA	
....4	R509	2007-001179	R-CHIP;8.2Kohm,5%,1/10W,TP,1608	1	SA	
....4	R740	2007-001217	R-CHIP;82ohm,5%,1/16W,TP,1005	1	SA	
....4		2007-001285	R-CHIP;5.6ohm,5%,1/16W,TP,1005	4	SA	
....4	OTR1	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	26	SA	
....4	DR43	2007-001298	R-CHIP;51ohm,5%,1/16W,TP,1005	1	SA	
....4	MR31	2007-001305	R-CHIP;120ohm,5%,1/16W,TP,1005	1	SA	
....4	CER07	2007-001308	R-CHIP;200ohm,5%,1/16W,TP,1005	3	SA	
....4		2007-001333	R-CHIP;18Kohm,5%,1/16W,TP,1005	1	SA	
....4	R1	2007-002425	R-CHIP;1ohm,5%,1/10W,TP,1608	1	SA	
....4	MR316	2007-002796	R-CHIP;510ohm,5%,1/16W,TP,1005	1	SA	
....4	PR24	2007-002970	R-CHIP;56ohm,5%,1/16W,TP,1005	1	SA	
....4		2007-003022	R-CHIP;62ohm,5%,1/16W,TP,1005	17	SNA	
....4		2007-007008	R-CHIP;300ohm,5%,1/16W,TP,1005	1	SA	
....4	TR30	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	5	SA	
....4	PR8	2007-007015	R-CHIP;13Kohm,5%,1/16W,TP,1005	2	SA	
....4	R365	2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005	6	SA	
....4		2007-007132	R-CHIP;15Kohm,1%,1/16W,TP,1005	1	SA	
....4		2007-007134	R-CHIP;39Kohm,1%,1/16W,TP,1005	3	SA	
....4		2007-007136	R-CHIP;4.7Kohm,1%,1/16W,TP,1005	7	SA	
....4		2007-007137	R-CHIP;1.2Kohm,1%,1/16W,TP,1005	1	SA	
....4		2007-007138	R-CHIP;27Kohm,1%,1/16W,TP,1005	3	SA	
....4		2007-007139	R-CHIP;47Kohm,1%,1/16W,TP,1005	8	SA	
....4	DR4	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	10	SA	
....4		2007-007156	R-CHIP;1ohm,5%,1/16W,TP,1005	6	SA	
....4		2007-007197	R-CHIP;3.3ohm,5%,1/16W,TP,1005	2	SNA	
....4		2007-007306	R-CHIP;100ohm,1%,1/16W,TP,1005	5	SA	
....4		2007-007316	R-CHIP;3.3Kohm,1%,1/16W,TP,1005	2	SNA	
....4		2007-007317	R-CHIP;2.2Kohm,1%,1/16W,TP,1005	3	SA	
....4		2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005	32	SA	
....4		2007-007352	R-CHIP;130Kohm,1%,1/10W,TP,1608	1	SA	
....4		2007-007463	R-CHIP;1.1Kohm,1%,1/16W,TP,1005	1	SA	
....4		2007-007469	R-CHIP;110ohm,1%,1/16W,TP,1005	2	SNA	
....4	HDR44	2007-007470	R-CHIP;7.5Kohm,1%,1/16W,TP,1005	2	SA	
....4	WR23	2007-007525	R-CHIP;3.4Kohm,1%,1/10W,TP,1608	2	SNA	
....4		2007-007617	R-CHIP;2.49Kohm,1%,1/10W,TP,1608	1	SA	
....4		2007-007698	R-CHIP;5.1Kohm,1%,1/16W,TP,1005	2	SNA	
....4		2007-007730	R-CHIP;6.8Mohm,1%,1/10W,TP,1608	1	SA	
....4		2007-007797	R-CHIP;44.2ohm,1%,1/10W,TP,1608	2	SA	
....4		2007-007947	R-CHIP;36ohm,1%,1/10W,TP,1608	1	SA	
....4	MR11	2007-008015	R-CHIP;75ohm,1%,1/16W,TP,1005	24	SA	
....4		2007-008136	R-CHIP;36Kohm,1%,1/16W,TP,1005	1	SA	
....4		2007-008263	R-CHIP;3Kohm,1%,1/16W,TP,1005	2	SA	

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Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4		2007-008275	R-CHIP;30Kohm,1%,1/16W,TP,1005	2	SNA	
....4		2007-008294	R-CHIP;33ohm,1%,1/16W,TP,1005	61	SA	
....4		2007-008391	R-CHIP;6.34Kohm,1%,1/16W,TP,1005	1	SA	
....4		2007-008811	R-CHIP;1.5ohm,5%,1/16W,TP,1005	1	SA	
....4		2007-009853	R-CHIP;1.6Kohm,1%,1/16W,TP,1005	2	SNA	
....4	MR38	2011-001093	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	SA	
....4	ZRN10	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,2.	2	SA	
....4	DAR09	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	34	SA	
....4		2011-001264	R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,2.	6	SNA	
....4		2011-001345	R-NETWORK;10Kohm,5%,1/16W,L,CHIP,8P,TP,2	2	SA	
....4	DRP29	2011-001396	R-NETWORK;4.7Kohm,5%,1/16W,L,CHIP,8P,TP,	4	SA	
....4		2011-001427	R-NETWORK;0ohm,5%,1/16W,L,CHIP,8P,TP,2.0	3	SA	
....4		2011-001449	R-NETWORK;22ohm,5%,1/16W,L,4P,TP,1010	7	SA	
....4		2011-001497	R-NETWORK;470ohm,5%,1/16W,L,CHIP,4P,TP,1	1	SNA	
....4		2011-001589	R-NETWORK;0ohm,5%,1/16W,L,CHIP-V,4P,TP,1	1	SNA	
....4	C24	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,C0G,1608	1	SA	
....4	AC1	2203-000125	C-CER,CHIP;1.2nF,10%,50V,X7R,TP,1608,-	6	SA	
....4	PC43	2203-000233	C-CER,CHIP;0.1nF,5%,50V,C0G,TP,1005	12	SA	
....4	MC2	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,TP,1005	6	SA	
....4	C134	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	27	SA	
....4	DC54	2203-000278	C-CER,CHIP;.01nF,0.5pF,50V,C0G,TP,1005	6	SA	
....4	RC34	2203-000280	C-CER,CHIP;0.01nF,0.5pF,50V,C0G,1608	1	SA	
....4	VC4	2203-000357	C-CER,CHIP;0.15nF,5%,50V,C0G,1608	1	SA	
....4	C3	2203-000384	C-CER,CHIP;0.015nF,5%,50V,C0G,1608	2	SA	
....4	DC1	2203-000386	C-CER,CHIP;.015nF,5%,50V,C0G,TP,1005	4	SA	
....4	MC302	2203-000425	C-CER,CHIP;.018nF,5%,50V,C0G,TP,1005	10	SA	
....4	C254	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	17	SA	
....4	C212	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,TP,1608	3	SA	
....4	C507	2203-000489	C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1005	4	SA	
....4	V1233	2203-000575	C-CER,CHIP;220nF,10%,25V,X7R,TP,2012	9	SA	
....4	ZC14	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	2	SA	
....4	AD480	2203-000679	C-CER,CHIP;0.027nF,5%,50V,C0G,1005	3	SA	
....4	AD480	2203-000761	C-CER,CHIP;330nF,10%,16V,X7R,TP,2012,-	1	SNA	
....4	DC25	2203-000812	C-CER,CHIP;.033nF,5%,50V,C0G,1005	9	SA	
....4	CK40B	2203-000838	C-CER,CHIP;0.39NF,5%,50V,C0G,TP,1608	3	SA	
....4	C132	2203-000854	C-CER,CHIP;0.039nF,5%,50V,C0G,1005	4	SA	
....4	AAC14	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1608	1	SA	
....4	C263	2203-000972	C-CER,CHIP;47nF,10%,16V,X7R,1608	10	SA	
....4	AD480	2203-000995	C-CER,CHIP;.047nF,5%,50V,C0G,TP,1005	1	SA	
....4	AC124	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	4	SA	
....4	HDC5	2203-001072	C-CER,CHIP;0.056nF,5%,50V,NP0,1005	1	SA	
....4	KAC5	2203-001126	C-CER,CHIP;0.68nF,10%,50V,X7R,1608	2	SA	
....4	AD480	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,1005	17	SNA	
....4	AD480	2203-002525	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1005	1	SA	
....4	AD480	2203-002720	C-CER,CHIP;10nF,10%,25V,X7R,TP,1005	2	SNA	
....4	C711	2203-002982	C-CER,CHIP;6.8nF,10%,50V,X7R,1005	2	SA	
....4	DC108	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	27	SC	
....4	DC18	2203-005138	C-CER,CHIP;1.8nF,10%,50V,X7R,1005	6	SA	
....4	AAC1	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	48	SA	
....4	AD480	2203-005344	C-CER,CHIP;22nF,10%,25V,X7R,TP,1005,-	18	SNA	
....4	AD480	2203-005393	C-CER,CHIP;0.005nF,0.1pF,50V,NP0,TP,1005	1	SNA	

5. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	PC8	2203-005642	C-CER,CHIP;0.22nF,5%,50V,NP0,1005	1	SA	
....4	C236	2203-005918	C-CER,CHIP;1000nF,10%,6.3V,X7R,1608	4	SA	
....4	AD480	2203-005968	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1005	4	SNA	
....4	AD480	2203-006039	C-CER,CHIP;1nF,10%,2000V,X7R,3216	2	SA	
....4	VC37	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,1005	15	SA	
....4	AD480	2203-006104	C-CER,CHIP;1000nF,10%,50V,X7R,3225	3	SA	
....4	AD480	2203-006126	C-CER,CHIP;47nF,10%,16V,X7R,1005	1	SNA	
....4	PC11	2203-006141	C-CER,CHIP;1000nF,10%,16V,X5R,1608	6	SNA	
....4	C102	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	318	SA	
....4	C510	2203-006170	C-CER,CHIP;220nF,10%,16V,X7R,1608	4	SA	
....4	AD480	2203-006307	C-CER,CHIP;1000nF,10%,25V,X5R,2012	3	SNA	
....4	AD480	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	4	SNA	
....4	AD480	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	10	SA	
....4	C125	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	88	SC	
....4	HE4	2203-006474	C-CER,CHIP;22000nF,20%,6.3V,X5R,2012	4	SA	
....4	HDC11	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	41	SA	
....4	PC69	2203-006818	C-CER,CHIP;47000nF,20%,6.3V,X5R,3216	1	SA	
....4	AD480	2203-006824	C-CER,CHIP;4700nF,10%,10V,X5R,1608	6	SNA	
....4	AD480	2203-006841	C-CER,CHIP;1000nF,10%,16V,X5R,1005	1	SNA	
....4	AD480	2203-006992	C-CER,CHIP;0.33nF,5%,50V,C0G,TP,1005	2	SNA	
....4	AD480	2203-007132	C-CER,CHIP;10000nF,10%,25V,X7R,TP,3216	16	SA	
....4	AD480	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012	11	SNA	
....4	AD480	2203-007233	C-CER,CHIP;22000nF,10%,16V,X5R,TP,3216	3	SA	
....4	AD480	2203-007270	C-CER,CHIP;10000nF,10%,10V,X5R,TP,1608	19	SNA	
....4		2503-001051	C-NETWORK;100nFx4,20%,16V,2012	6	SA	
....4		2601-001056	TRANS-SMD,PULSE;350UH,-,1:1,1:1,12.7X6.7	1	SA	
....4	T0052	2703-000158	INDUCTOR-SMD;1uH,10%,2012	10	SA	
....4	T0052	2703-000222	INDUCTOR-SMD;560nH,10%,2012	3	SA	
....4	T0052	2703-000296	INDUCTOR-SMD;680nH,10%,1608	1	SA	
....4	VL6	2703-000398	INDUCTOR-SMD;10uH,10%,3225	7	SA	
....4		2703-001069	INDUCTOR-SMD;120nH,5%,2012	1	SA	
....4	T0052	2703-001239	INDUCTOR-SMD;3.3uH,10%,1608	1	SA	
....4	T0052	2703-002238	INDUCTOR-SMD;1uH,5%,2012	2	SNA	
....4	T0052	2703-002268	INDUCTOR-SMD;8.2nH,5%,1005	4	SNA	
....4	T0052	2703-002332	INDUCTOR-SMD;330nH,5%,1608	1	SA	
....4	T0052	2703-002557	INDUCTOR-SMD;270NH,5%,1608	3	SNA	
....4	T0052	2703-003150	INDUCTOR-SMD;4.7uH,20%,5050	4	SNA	
....4	T0052	2703-003559	INDUCTOR-SMD;4.7uH,20%,8080	2	SNA	
....4	T0052	2703-003713	INDUCTOR-SMD;1.5uH,20%,7366	3	SA	
....4	T0052	2703-003790	INDUCTOR-SMD;4.7uH,20%,8080	3	SA	
....4		2703-003891	INDUCTOR-SMD;47uH,20%,6060	1	SA	
....4	X202	2801-003773	CRYSTAL-SMD;12MHz,30ppm,28-AAN,20pF,50oh	1	SA	
....4	X202	2801-003954	CRYSTAL-SMD;27MHz,30ppm,28-AAN,16pF,50oh	1	SA	
....4	X202	2801-004008	CRYSTAL-SMD;24MHz,20ppm,28-AAN,12pF,30oh	1	SA	
....4	X202	2801-004629	CRYSTAL-SMD;27MHz,20ppm,12pF,50ohm,TP	1	SNA	
....4	X202	2801-004688	CRYSTAL-SMD;0.032768MHz,20ppm,1.9pF,6500	1	SNA	
....4	X202	2801-004734	CRYSTAL-SMD;25.000000MHz,20ppm,28-AAN,12	1	SA	
....4	X202	2801-004774	CRYSTAL-SMD;24MHz,30ppm,14pF,30ohm,TP	2	SA	
....4	X202	2801-004775	CRYSTAL-SMD;12MHz,30ppm,16pF,30ohm,TP	1	SNA	
....4	X202	2801-004868	CRYSTAL-SMD;12MHz,50ppm,8pF,100ohm,TP	1	SA	
....4		2804-001878	OSCILLATOR-CLOCK;49.152MHz,50ppm,10TTL/1	1	SA	

5. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	XU25	2806-001308	OSCILLATOR-VCXO;27MHZ,-.30PF,TP,3.3V,50M	1	SA	
....4	F103	2901-001302	FILTER-EMI SMD;20V,0.3A,0pF,2.0x1.2x1.3m	4	SA	
....4	DR32	3301-000314	BEAD-SMD;120ohm,1.6x0.8x0.8mm,-,-,-	2	SA	
....4	L2011	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	SA	
....4	T0568	3301-001236	BEAD-SMD;60ohm,1608	9	SNA	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	57	SA	
....4	T0568	3301-002039	BEAD-SMD;26ohm,1608,TP	28	SA	
....4	T0313	3404-001209	SWITCH-TACT;12VDC,50mA,250gf,4.5x4.5x1.5	2	SA	
....4		3701-001293	CONNECTOR-HDMI;19P,2R,FEMALE,SMD-A,AU	4	SA	
....4	AC510	3708-002777	CONNECTOR-FPC/FFC/PIC;82P,0.5mm/0.75mm,S	1	SA	
....4		3710-002276	SOCKET-INTERFACE;24P,1R,0.5mm,SMD-A,AU,B	1	SA	
....4		3710-002628	SOCKET-INTERFACE;18P,1R,0.5mm,SMD-A,NI	1	SNA	
....4	HB01A	3711-005499	HEADER-BOARD TO CABLE;BOX,8P,1R,1.25mm,S	4	SNA	
....4	HB01A	3711-005509	HEADER-BOARD TO CABLE;BOX,4P,1R,1.25mm,S	1	SNA	
....4	HB01A	3711-005543	HEADER-BOARD TO CABLE;BOX,6P,1R,1.25mm,S	1	SNA	
....4	CN906	3711-007346	CONNECTOR-HEADER;BOX,18P,1R,0.6mm,SMD-A,	1	SA	
....4	EH01	3711-007465	HEADER-BOARD TO CABLE;BOX,30P,1R,1.25mm,,	1	SNA	
....4		3722-003044	JACK-USB;4P/1C,NI,BLK,SMD-A,A-TYPE	2	SA	
....4		BN41-01529B	PCB MAIN;UC9Z,FR-4,6,1.2,310*138,U51A	1	SNA	
....4		BN97-04240A	ASSY MICOM;T-VAL CPLD-0010,2010.04.28	1	SNA	
....5		1301-001969	IC-CPLD;EPM240T100C4N,TQFP,100P,16x16mm,,	1	SNA	
....4		BN97-04657A	ASSY MICOM;SEC,U51A,2010-04-12,T-FRCS,11	1	SNA	
....5	IC112	1103-001441	IC-EEPROM;24C1024,1Mbit,128Kx8,SOP,8P,4.	1	SA	
....4		BN97-04659A	ASSY MICOM;SEC,U51A,2010-04-12,T-VAL9DEU	1	SNA	
....5		1107-001868	IC-NAND FLASH;KFG8GH6U4M-AIB6,1GByte,512	1	SNA	
....4		BN97-04660A	ASSY MICOM;SEC,U51A,2010-04-12,T-VALDEUS	1	SNA	
....5	IC520	0903-001651	IC-MICROCONTROLLER;61P802-RG480WT,LQFP,4	1	SNA	
....4	PR27	2007-000144	R-CHIP;5.1Kohm,5%,1/16W,TP,1005	5	SA	
..2	M0015	BN94-03610B	ASSY PCB MISC-MAIN BOX SECOND;UN55C9000Z	1	SA	
...3		0202-001463	SOLDER-WIRE;LFC2-W3.0,-,D3,99.79Sn/0.2Cu	0.64	SNA	
...3		0202-001608	SOLDER-WIRE FLUX;LFC7-107,D0.8,99.3Sn/0.	0.003	SNA	
...3		0204-002420	SOLVENT;1M-1000,C3H70H,96	1.16	SNA	
...3		0204-002607	FLUX;DF-234U,13%,14KG,Gravity 0.82	0.757	SNA	
...3	JA330	3722-002846	JACK-PHONE;1/6,NI,BLACK,ANGLE	1	SNA	
...3		BN97-04418B	ASSY SMD;UN55C9000ZF,BN94-03610B	1	SNA	
....4		0202-001477	SOLDER-CREAM;LST309-M,D20~45um,96.5Sn/3A	0.379	SNA	
....4		1006-001440	IC-LINE RECEIVER;THC63LVD1027,TSSOP,64P,	1	SNA	
....4	CER04	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
....4	R512	2007-000107	R-CHIP;470Kohm,5%,1/10W,TP,1608	1	SA	
....4	HDR17	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	24	SA	
....4	R1035	2007-000287	R-CHIP;100ohm,1%,1/10W,TP,1608	12	SA	
....4	AR61	2007-000869	R-CHIP;4.7Kohm,1%,1/10W,TP,1608	1	SA	
....4	C134	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	4	SA	
....4	PPC2	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	7	SA	
....4	AAC1	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	SA	
....4	C125	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	4	SC	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	5	SA	
....4	AC510	3708-002777	CONNECTOR-FPC/FFC/PIC;82P,0.5mm/0.75mm,S	1	SA	
....4		3710-003267	CONNECTOR-SOCKET;144P,2R,0.5mm,SMD-S,AU/	1	SA	
....4	HB01A	3711-005509	HEADER-BOARD TO CABLE;BOX,4P,1R,1.25mm,S	1	SNA	
....4	EH01	3711-007477	HEADER-BOARD TO CABLE;B0X,22P,1R,1.25mm,,	1	SA	

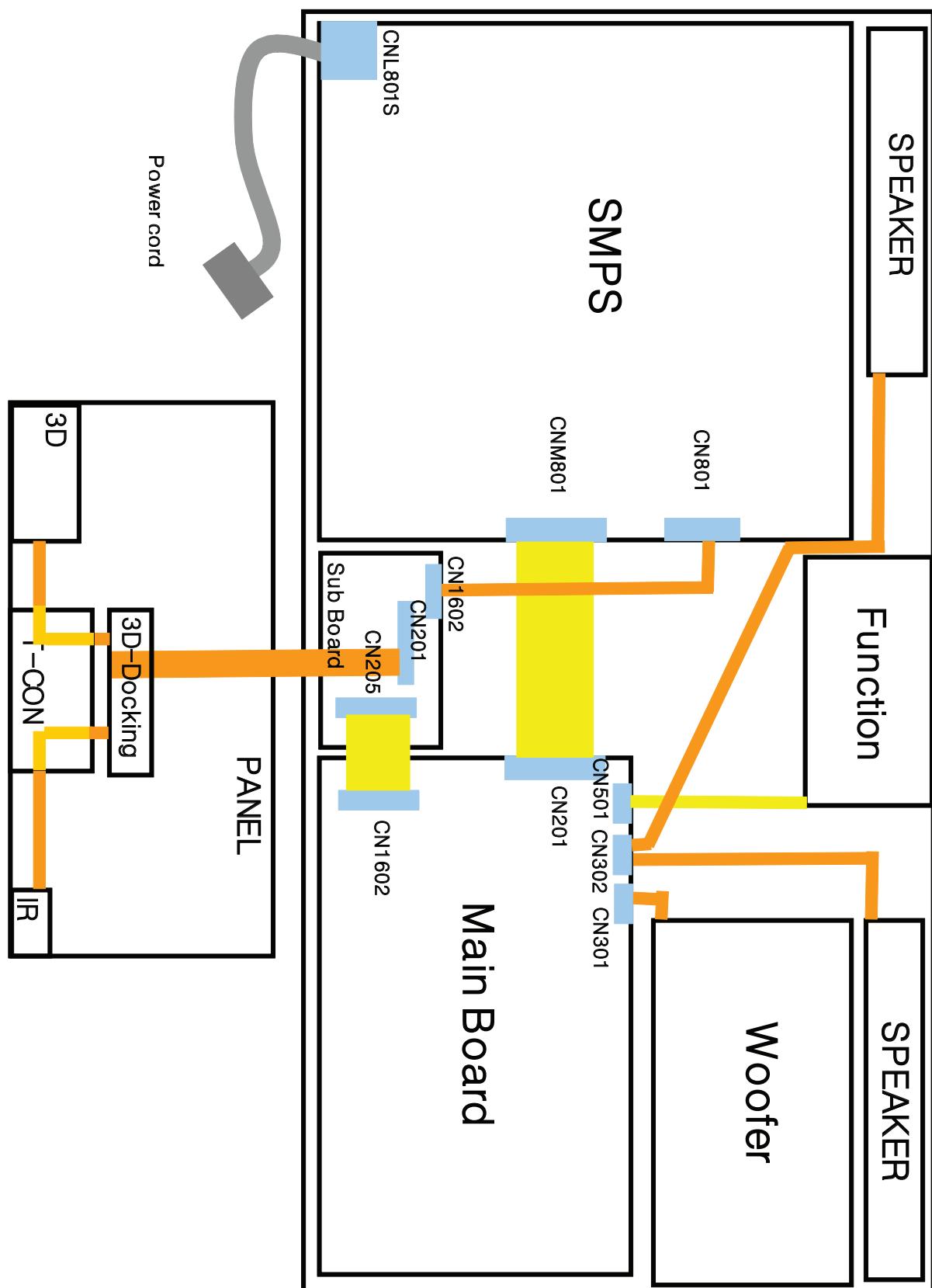
5. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4		BN41-01434B	PCB MAIN-SECOND;UC9000,FR-4,4,1.2,118*68	1	SNA	

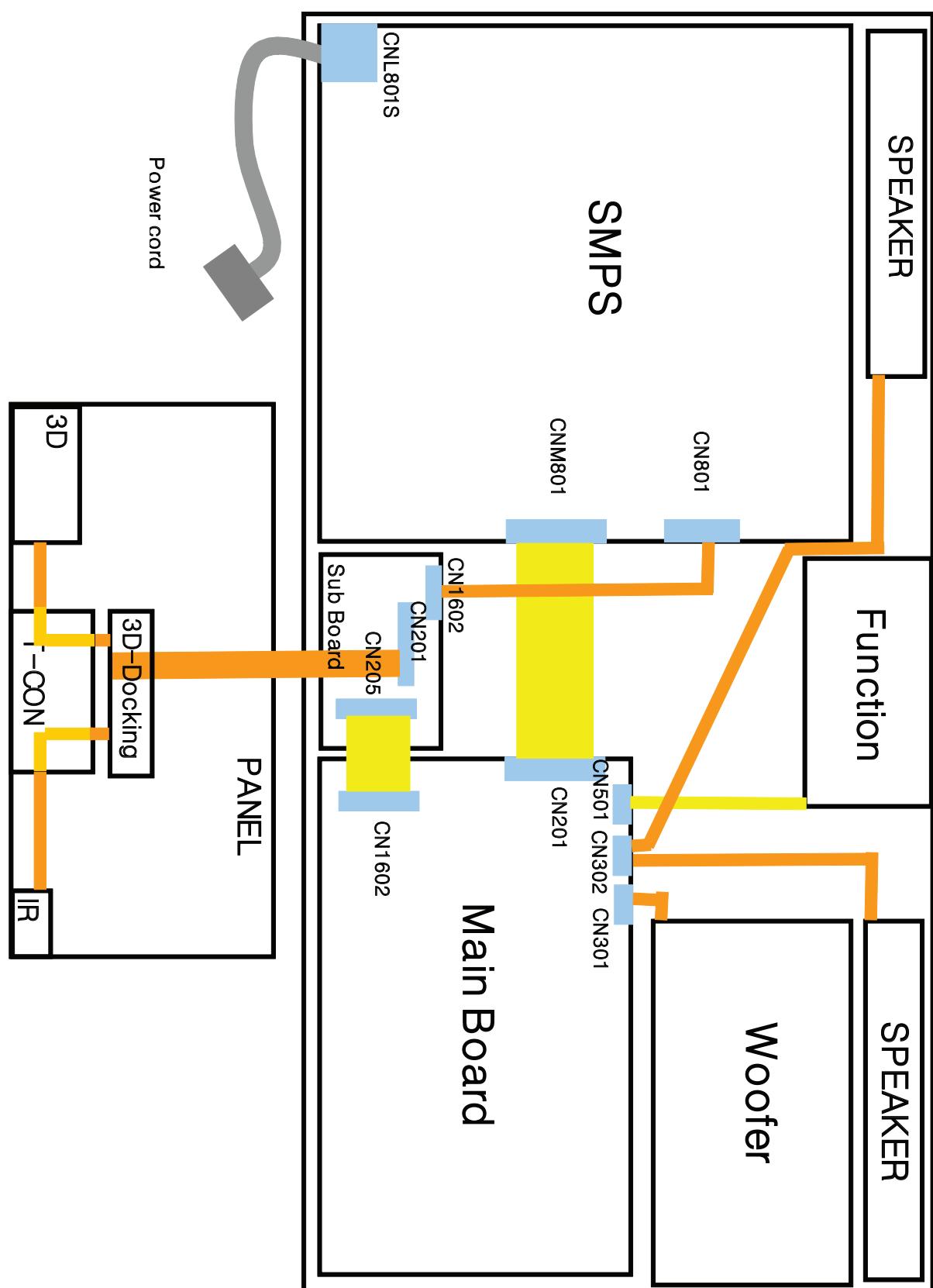
6. Wiring Diagram

6-1. Wiring Diagram

■ 46"



■ 55"



6-2. Connector

CN1701(to Sub board)				CN10(to Speaker)			
1	B3.3V	28	ODD_TX[3]+	55	PANEL_WP		
2	B3.3V	29	ODD_TX[3]-	56	SCL_FRC		
3	B3.3V	30	GND	57	RDN_NRESET		
4	NC	31	ODD_TXCLK+	58	SDA_FRC		
5	GND	32	ODD_TXCLK-	59	N240_NRESET		
6	GND	33	GND	60	SW_PVCC		
7	GND	34	ODD_TX[2]+	61	GND		
8	GND	35	ODD_TX[2]-	62	A3.3V		
9	GND	36	ODD_TX[1]+	63	REPEAT_CONTROL		
10	GND	37	ODD_TX[1]-	64	LED_STB		
11	EVEN_TX[4]+	38	ODD_TX[0]+	65	IR		
12	EVEN_TX[4]-	39	ODD_TX[0]-	66	MSCL_A5V		
13	EVEN_TX[3]+	40	GND	67	MSDA_A5V		
14	EVEN_TX[3]-	41	GND	68	GND		
15	GND	42	NC	69	N240_OUTCLK		
16	EVEN_TXCLK+	43	NC	70	N240_VSYNC		
17	EVEN_TXCLK-	44	NC	71	N240_HSYNC		
18	GND	45	NC	72	3D_N240_LR		
19	EVEN_TX[2]+	46	NC	73	3D_SYNC ASIC_CPLD		
20	EVEN_TX[2]-	47	NC	74	3D_SYNC ASIC		
21	EVEN_TX[1]+	48	DEBUG2	75	GND		
22	EVEN_TX[1]-	49	DEBUG1	76	NC		
23	EVEN_TX[0]+	50	3D_PWM	77	NC		
24	EVEN_TX[0]-	51	3D_ANA	78	PANEL_VCC_13V		
25	GND	52	GND	79	PANEL_VCC_13V		
26	ODD_TX[4]+	53	STD_CHECK	80	PANEL_VCC_13V		
27	ODD_TX[4]-	54	DOC_CHECK	81	PANEL_VCC_13V		
				82	PANEL_VCC_13V		

CN9(to Woofer)			
1	SW+	5	SW+
2	SW-	6	SW-
3	SW+	7	SW+
4	SW-	8	SW-

CN8			
1	A5V		
2	A5V		
3	KEY_INPUT1		
4	KEY_INPUT2		
5	GND		
6	S_FUNCTION_CTRL		

CN6(to HDMI1)			
1	HDMI1_RX2+	11	DGND
2	DGND	12	HDMI1_RXCLK-
3	HDMI1_RX2-	13	HDMI_CEC
4	HDMI1_RX1+	14	DGND
5	DGND	15	HDMI1_DDC_SCL
6	HDMI1_RX1-	16	HDMI1_DDC_SDA
7	HDMI1_RX0+	17	DGND
8	DGND	18	HDMI1_5V
9	HDMI1_RX0-	19	HDMI1_HPD
10	HDMI1_RXCLK+		

CN3011(to PC_IN)			
1	PC_RED	9	PC_5V
2	PC_GREEN	10	PC_IDENT
3	PC_BLUE	11	DGND
4	DGND	12	SDA_DOWN
5	DGND	13	PC_H_SYNC
6	DGND	14	PC_V_SYNC
7	DGND	15	SCL_DOWN
8	DGND		

CN5(to USB1)			
1	USB0_VCC		
2	USB0_DM		
3	USB0_DP		
4	DGND		

CN4(to USB2)			
1	USB1_VCC		
2	USB1_DM		
3	USB1_DP		
4	DGND		

6. Wiring Diagram

CN7(to HDMI2)			
1	HDMI2_RX2+	11	DGND
2	DGND	12	HDMI2_RXCLK-
3	HDMI2_RX2-	13	HDMI_CEC
4	HDMI2_RX1+	14	DGND
5	DGND	15	HDMI2_DDC_SCL
6	HDMI2_RX1-	16	HDMI2_DDC_SDA
7	HDMI2_RX0+	17	DGND
8	DGND	18	HDMI2_5V
9	HDMI2_RX0-	19	HDMI2_HPD
10	HDMI2_RXCLK+		

CN3016(to HDMI3)			
1	HDMI3_RX2+	11	DGND
2	DGND	12	HDMI3_RXCLK-
3	HDMI3_RX2-	13	HDMI_CEC
4	HDMI3_RX1+	14	DGND
5	DGND	15	HDMI3_DDC_SCL
6	HDMI3_RX1-	16	HDMI3_DDC_SDA
7	HDMI3_RX0+	17	DGND
8	DGND	18	HDMI3_5V
9	HDMI3_RX0-	19	HDMI3_HPD
10	HDMI3_RXCLK+		

CN3013(to HDMI4)			
1	HDMI4_RX2+	11	DGND
2	DGND	12	HDMI4_RXCLK-
3	HDMI4_RX2-	13	HDMI_CEC
4	HDMI4_RX1+	14	DGND
5	DGND	15	HDMI4_DDC_SCL
6	HDMI4_RX1-	16	HDMI4_DDC_SDA
7	HDMI4_RX0+	17	DGND
8	DGND	18	HDMI4_5V
9	HDMI4_RX0-	19	HDMI4_HPD
10	HDMI4_RXCLK+		

CN2(to CNM802)			
1	NC	16	B5V
2	NC	17	B5V
3	DET_5V	18	B5V
4	NC	19	DGND
5	PWM	20	DGND
6	DGND	21	DGND
7	B5V	22	DGND
8	NC	23	B12VS
9	B13V	24	B12VS
10	B13V	25	DGND
11	B13V	26	DGND
12	DGND	27	A5V
13	DGND	28	DGND
14	DGND	29	A5V
15	B5V	30	FRC_M_HSYNC

6-3. Connector Functions

Connector	Functions
CNM801 ↔ CN2	Supply power from SMPS to Main Board.
CN1602 ↔ T-CON	The LVDS signal transferred from Main Board to Panel.

6-4. Cables

Use	Main-SMPS	Main-Tcon	Function Assy
Code	BN44-00364B	BN96-14108C	BN96-14587C
Photo			