



SAMSUNG

# LED-TV

Chassis : U71I  
Model : UE32EH6030\*  
UE40EH6030\*  
UE46EH6030\*  
UA32EH6030\*  
UA40EH6030\*  
UA46EH6030\*  
UA55EH6030\*

# SERVICE MANUAL

LED TV

Contents



UN\*\*EH6030G

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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



For continued safety, do not attempt to modify the circuit board.

Disconnect the AC power and DC power jack before servicing.

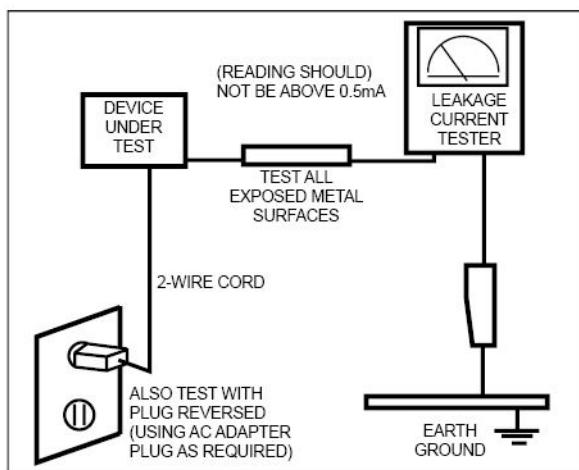
### 1-1-2. Servicing the LED TV

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 monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistorcapacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check:



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).

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



An electrolytic capacitor installed with the wrong polarity might explode.



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



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

### 1-2-1. General Servicing Precautions

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

## 1.3. Static Electricity Precautions

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

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



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

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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. Product Information

#### 2-1-1. Model Comparison

Model	UE**EH6030*		
Front View	 <p>* W : Width H : Height D : Depth</p>		
Detail View			
Front Color	Black (panel)		
Dimensions (W x H x D)	32"	Set with Stand	739.4 x 498.6 x 191.6 mm / 29.1 x 19.6 x 7.5 inches
	32"	Set without Stand	739.4 x 442.7 x 93.2 mm / 29.1 x 17.4 x 3.7 inches
	40"	Set with Stand	927.5 x 607.2 x 227.6 mm / 36.5 x 23.9 x 9.0 inches
	40"	Set without Stand	927.5 x 548.0 x 93.1 mm / 36.5 x 21.6 x 3.7 inches
	46"	Set with Stand	1060.0 x 681.1 x 277.6 mm / 41.7 x 26.8 x 10.9 inches
	46"	Set without Stand	1060.0 x 622.5 x 96.2 mm / 41.7 x 24.5 x 3.8 inches
Weight	32"	Set with Stand	6.3 kg / 13.9 lbs
	32"	Set without Stand	5.6 kg / 12.3 lbs
	40"	Set with Stand	10.9 kg / 24.0 lbs
	40"	Set without Stand	8.9 kg / 19.6 lbs
	46"	Set with Stand	13.3 kg / 29.3 lbs
	46"	Set without Stand	11.3 kg / 24.9 lbs
Panel Type	Anti Glare		
Internal Memory	256 Mbyte		
DDR	512 Mbyte		
Feature	Samsung 3D		

Model	UA**EH6030R		
Front View	 <small>* W : Width H : Height D : Depth</small>		
Detail View			
Front Color	Black (panel)		
Dimensions (W x H x D)	32"	Set with Stand	739.4 x 498.6 x 191.6 mm / 29.1 x 19.6 x 7.5 inches
	32"	Set without Stand	739.4 x 442.7 x 93.2 mm / 29.1 x 17.4 x 3.7 inches
	40"	Set with Stand	927.5 x 607.2 x 227.6 mm / 36.5 x 23.9 x 9.0 inches
	40"	Set without Stand	927.5 x 548.0 x 93.1 mm / 36.5 x 21.6 x 3.7 inches
	46"	Set with Stand	1060.0 x 681.1 x 277.6 mm / 41.7 x 26.8 x 10.9 inches
	46"	Set without Stand	1060.0 x 622.5 x 96.2 mm / 41.7 x 24.5 x 3.8 inches
	55"	Set with Stand	1251.4 x 789.6 x 277.6 mm / 48.7 x 31.1 x 10.9 inches
	55"	Set without Stand	1251.4 x 730.1 x 94.4 mm / 48.7 x 28.7 x 3.7 inches
Weight	32"	Set with Stand	6.3 kg / 13.9 lbs
	32"	Set without Stand	5.6 kg / 12.3 lbs
	40"	Set with Stand	10.9 kg / 24.0 lbs
	40"	Set without Stand	8.9 kg / 19.6 lbs
	46"	Set with Stand	13.3 kg / 29.3 lbs
	46"	Set without Stand	11.3 kg / 24.9 lbs
	55"	Set with Stand	20.6 kg / 45.4 lbs
	55"	Set without Stand	18.0 kg / 39.7 lbs
Panel Type	Anti Glare		
Internal Memory	256 Mbtye		
DDR	512 Mbtye		
Feature	Samsung 3D		

## 2-1-2. Feature & Specifications

Model	UE32EH6030* / UA32EH6030*			
Feature				
<ul style="list-style-type: none"> <li>Digital-TV, RF, 2-HDMI, 1-Component, 1-A/V, 1-USB2.0, LAN</li> <li>Brightness : 350 cd/m<sup>2</sup></li> <li>Response Time : 6 ms</li> <li>CMR : 200 / 240</li> <li>Dynamic contrast Ratio : 5000 Mega Contrast, Super-PVA</li> <li>Samsung 3D, Dolby Digital+, SRS TheaterSound HD</li> </ul>				
Specifications				
Item	Description			
LCD Panel	32 inch FHD 120 Hz			
Scanning Frequency	Horizontal : 60 kHz ~ 73 kHz (Automatic) Vertical : 47 Hz ~ 63 Hz (Automatic)			
Display Colors	16.7M color			
Maximum Resolution	Horizontal : 1920 Pixels Vertical : 1080 Pixels			
Input Signal	Analog 0.7 Vp-p ± 5% positive at 75Ω, internally terminated			
Maximum Pixel Clock Rate	74.25 MHz			
Active Display (H x V)* * Horizontal x Vertical	703.4 (H) x 397.8 (V) mm / 28.7 (H) x 16.2 (V) inches			
AC Power Voltage & Frequency	AC 100 ~ 240 V, 50/60 Hz			
Power Consumption	83 W (Under 0.3 W, Stand by)			
Dimensions (W x H x D)	739.4 x 498.6 x 191.6 mm / 29.1 x 19.6 x 7.5 inches_Set with Stand 739.4 x 442.7 x 93.2 mm / 29.1 x 17.4 x 3.7 inches_Set without Stand			
Weight	6.3 kg / 13.9 lbs_Set with Stand 5.6 kg / 12.3 lbs_Set without Stand			
TV System	Tunning	Frequency Synthesize (Refer to detailed Frequency Table)		
	System	DVB-T/C, PAL, SECAM, NT4.43		
	Sound	BK, DK, NICAM, MPEG1		
Environmental Considerations	Operating Temperature : 32°F ~ 122°F (0°C ~ 50°C) Operating Humidity : 20% ~ 90% Storage Temperature : -4°F ~ 140°F (-20°C ~ 60°C) Storage Humidity : 10% ~ 90%			
Audio Specifications	MAX Internal Audio Output Power : Each 10 W (Left/Right) Equalizer : 5 Band Output Frequency : RF : 20 Hz ~ 15.4 kHz AV/Componet/HDMI : 20 Hz ~ 20 kHz			
Note : Samsung 3D, 3D Converter, Dolby Digital +, SRS TheaterSound HD, Game Mode, Film Mode, Energy Saving				

Model	UE40EH6030* / UA40EH6030*			
Feature				
<ul style="list-style-type: none"> <li>Digital-TV, RF, 2-HDMI, 1-Component, 1-A/V, 1-USB2.0, LAN</li> <li>Brightness : 350 cd/m<sup>2</sup></li> <li>Response Time : 6 ms</li> <li>CMR : 200 / 240</li> <li>Dynamic contrast Ratio : 5000 Mega Contrast, Super-PVA</li> <li>Samsung 3D, Dolby Digital+, SRS TheaterSound HD</li> </ul>				
Specifications				
Item	Description			
<b>LCD Panel</b>	40 inch FHD 120 Hz			
<b>Scanning Frequency</b>	Horizontal : 60 kHz ~ 73 kHz (Automatic) Vertical : 47 Hz ~ 63 Hz (Automatic)			
<b>Display Colors</b>	16.7M color			
<b>Maximum Resolution</b>	Horizontal : 1920 Pixels Vertical : 1080 Pixels			
<b>Input Signal</b>	Analog 0.7 Vp-p ± 5% positive at 75Ω, internally terminated			
<b>Maximum Pixel Clock Rate</b>	74.25 MHz			
<b>Active Display (H x V)*</b> * Horizontal x Vertical	890.6 (H) x 503.2 (V) mm / 36.4 (H) x 20.5 (V) inches			
<b>AC Power Voltage &amp; Frequency</b>	AC 100 ~ 240 V, 50/60 Hz			
<b>Power Consumption</b>	105 W (Under 0.3 W, Stand by)			
<b>Dimensions (W x H x D)</b>	927.5 x 607.2 x 227.6 mm / 36.5 x 23.9 x 9.0 inches_Set with Stand 927.5 x 548.0 x 93.1 mm / 36.5 x 21.6 x 3.7 inches_Set without Stand			
<b>Weight</b>	10.9 kg / 24.0 lbs_Set with Stand 8.9 kg / 19.6 lbs_Set without Stand			
<b>TV System</b>	Tunning	Frequency Synthesize (Refer to detailed Frequency Table)		
	System	DVB-T/C, PAL, SECAM, NTSC		
	Sound	BK, DK, NICAM, MPEG1		
<b>Environmental Considerations</b>	Operating Temperature : 32°F ~ 122°F (0°C ~ 50°C) Operating Humidity : 20% ~ 90% Storage Temperature : -4°F ~ 140°F (-20°C ~ 60°C) Storage Humidity : 10% ~ 90%			
<b>Audio Specifications</b>	MAX Internal Audio Output Power : Each 10 W (Left/Right) Equalizer : 5 Band Output Frequency : RF : 20 Hz ~ 15.4 kHz AV/Componet/HDMI : 20 Hz ~ 20 kHz			
Note : Samsung 3D, 3D Converter, Dolby Digital +, SRS TheaterSound HD, Game Mode, Film Mode, Energy Saving				

## 2. Product Specifications

Model	UE46EH6030* / UA46EH6030*			
Feature				
<ul style="list-style-type: none"> <li>Digital-TV, RF, 2-HDMI, 1-Component, 1-A/V, 1-USB2.0, LAN</li> <li>Brightness : 350 cd/m<sup>2</sup></li> <li>Response Time : 6 ms</li> <li>CMR : 200 / 240</li> <li>Dynamic contrast Ratio : 5000 Mega Contrast, Super-PVA</li> <li>Samsung 3D, Dolby Digital+, SRS TheaterSound HD</li> </ul>				
Specifications				
Item	Description			
<b>LCD Panel</b>	46 inch FHD 120 Hz			
<b>Scanning Frequency</b>	Horizontal : 60 kHz ~ 73 kHz (Automatic) Vertical : 47 Hz ~ 63 Hz (Automatic)			
<b>Display Colors</b>	16.7M color			
<b>Maximum Resolution</b>	Horizontal : 1920 Pixels Vertical : 1080 Pixels			
<b>Input Signal</b>	Analog 0.7 Vp-p ± 5% positive at 75Ω, internally terminated			
<b>Maximum Pixel Clock Rate</b>	74.25 MHz			
<b>Active Display (H x V)*</b> * Horizontal x Vertical	1023.0 (H) x 577.6 (V) mm / 41.8 (H) x 23.6 (V) inches			
<b>AC Power Voltage &amp; Frequency</b>	AC 100 ~ 240 V, 50/60 Hz			
<b>Power Consumption</b>	106 W (Under 0.3 W, Stand by)			
<b>Dimensions (W x H x D)</b>	1060.0 x 681.1 x 277.6 mm / 41.7 x 26.8 x 10.9 inches_Set with Stand 1060.0 x 622.5 x 96.2 mm / 41.7 x 24.5 x 3.8 inches_Set without Stand			
<b>Weight</b>	13.3 kg / 29.3 lbs_Set with Stand 11.3 kg / 24.9 lbs_Set without Stand			
<b>TV System</b>	Tunning	Frequency Synthesize (Refer to detailed Frequency Table)		
	System	DVB-T/C, PAL , SECAM , NT4.43		
	Sound	BK, DK, NICAM, MPEG1		
<b>Environmental Considerations</b>	Operating Temperature : 32°F ~ 122°F (0°C ~ 50°C) Operating Humidity : 20% ~ 90% Storage Temperature : -4°F ~ 140°F (-20°C ~ 60°C) Storage Humidity : 10% ~ 90%			
<b>Audio Specifications</b>	MAX Internal Audio Output Power : Each 10 W (Left/Right) Equalizer : 5 Band Output Frequency : RF : 20 Hz ~ 15.4 kHz AV/Componet/HDMI : 20 Hz ~ 20 kHz			
<b>Note :</b> Samsung 3D, 3D Converter, Dolby Digital +, SRS TheaterSound HD, Game Mode, Film Mode, Energy Saving				

<b>Model</b>	<b>UA55EH6030*</b>	
	<b>Feature</b>	
<ul style="list-style-type: none"> <li>Digital-TV, RF, 2-HDMI, 1-Component, 1-A/V, 1-USB2.0, LAN</li> <li>Brightness : 350 cd/m<sup>2</sup></li> <li>Response Time : 6 ms</li> <li>CMR : 200 / 240</li> <li>Dynamic contrast Ratio : 5000 Mega Contrast, Super-PVA</li> <li>Samsung 3D, Dolby Digital+, SRS TheaterSound HD</li> </ul>		
	<b>Specifications</b>	
<b>Item</b>	<b>Description</b>	
<b>LCD Panel</b>	55 inch FHD 120 Hz	
<b>Scanning Frequency</b>	Horizontal : 60 kHz ~ 73 kHz (Automatic) Vertical : 47 Hz ~ 63 Hz (Automatic)	
<b>Display Colors</b>	16.7M color	
<b>Maximum Resolution</b>	Horizontal : 1920 Pixels Vertical : 1080 Pixels	
<b>Input Signal</b>	Analog 0.7 Vp-p ± 5% positive at 75Ω, internally terminated	
<b>Maximum Pixel Clock Rate</b>	74.25 MHz	
<b>Active Display (H x V)*</b> <small>* Horizontal x Vertical</small>	1213.4 (H) x 684.3 (V) mm / 49.5 (H) x 27.9 (V) inches	
<b>AC Power Voltage &amp; Frequency</b>	AC 100 ~ 240 V, 50/60 Hz	
<b>Power Consumption</b>	139 W (Under 0.3 W, Stand by)	
<b>Dimensions (W x H x D)</b>	1251.4 x 789.6 x 277.6 mm / 48.7 x 31.1 x 10.9 inches_Set with Stand 1251.4 x 730.1 x 94.4 mm / 48.7 x 28.7 x 3.7 inches_Set without Stand	
<b>Weight</b>	20.6 kg / 45.4 lbs_Set with Stand 18.0 kg / 39.7 lbs_Set without Stand	
<b>TV System</b>	Tunning	Frequency Synthesize (Refer to detailed Frequency Table)
	System	DVB-T/C, PAL, SECAM, NTSC
	Sound	BK, DK, NICAM, MPEG1
<b>Environmental Considerations</b>	Operating Temperature : 32°F ~ 122°F (0°C ~ 50°C) Operating Humidity : 20% ~ 90% Storage Temperature : -4°F ~ 140°F (-20°C ~ 60°C) Storage Humidity : 10% ~ 90%	
<b>Audio Specifications</b>	MAX Internal Audio Output Power : Each 10 W (Left/Right) Equalizer : 5 Band Output Frequency : RF : 20 Hz ~ 15.4 kHz AV/Componet/HDMI : 20 Hz ~ 20 kHz	
<b>Note :</b> Samsung 3D, 3D Converter, Dolby Digital +, SRS TheaterSound HD, Game Mode, Film Mode, Energy Saving		

## 2. Product Specifications

<b>Model</b>	<b>UA55EH6030*</b>	
<b>Feature</b>		
<ul style="list-style-type: none"> <li>Digital-TV, RF, 2-HDMI, 1-Component, 1-A/V, 1-USB2.0, LAN</li> <li>Brightness : 350 cd/m<sup>2</sup></li> <li>Response Time : 6 ms</li> <li>CMR : 200 / 240</li> <li>Dynamic contrast Ratio : 5000 Mega Contrast, Super-PVA</li> <li>Samsung 3D, Dolby Digital+, SRS TheaterSound HD</li> </ul>		
<b>Specifications</b>		
<b>Item</b>	<b>Description</b>	
<b>LCD Panel</b>	55 inch FHD 120 Hz	
<b>Scanning Frequency</b>	Horizontal : 60 kHz ~ 73 kHz (Automatic) Vertical : 47 Hz ~ 63 Hz (Automatic)	
<b>Display Colors</b>	16.7M color	
<b>Maximum Resolution</b>	Horizontal : 1920 Pixels Vertical : 1080 Pixels	
<b>Input Signal</b>	Analog 0.7 Vp-p ± 5% positive at 75Ω, internally terminated	
<b>Maximum Pixel Clock Rate</b>	74.25 MHz	
<b>Active Display (H x V)*</b> * Horizontal x Vertical	1213.4 (H) x 684.3 (V) mm / 49.5 (H) x 27.9 (V) inches	
<b>AC Power Voltage &amp; Frequency</b>	AC 100 ~ 240 V, 50/60 Hz	
<b>Power Consumption</b>	139 W (Under 0.3 W, Stand by)	
<b>Dimensions (W x H x D)</b>	1251.4 x 789.6 x 277.6 mm / 48.7 x 31.1 x 10.9 inches_Set with Stand 1251.4 x 730.1 x 94.4 mm / 48.7 x 28.7 x 3.7 inches_Set without Stand	
<b>Weight</b>	20.6 kg / 45.4 lbs_Set with Stand 18.0 kg / 39.7 lbs_Set without Stand	
<b>TV System</b>	Tunning	Frequency Synthesize (Refer to detailed Frequency Table)
	System	DVB-T/C, PAL , SECAM , NT4.43
	Sound	BK, DK, NICAM, MPEG1
<b>Environmental Considerations</b>	Operating Temperature : 32°F ~ 122°F (0°C ~ 50°C) Operating Humidity : 20% ~ 90% Storage Temperature : -4°F ~ 140°F (-20°C ~ 60°C) Storage Humidity : 10% ~ 90%	
<b>Audio Specifications</b>	MAX Internal Audio Output Power : Each 10 W (Left/Right) Equalizer : 5 Band Output Frequency : RF : 20 Hz ~ 15.4 kHz AV/Componet/HDMI : 20 Hz ~ 20 kHz	
<b>Note :</b> Samsung 3D, 3D Converter, Dolby Digital +, SRS TheaterSound HD, Game Mode, Film Mode, Energy Saving		

### 2-1-3. Specification Comparison to Old Models

Model	UE6Q(UE**EH6030* / UA**EH6030R)	UD6V(UE**D65****)
Design		
Display Type	LED TV	LED TV
Built-in TUEer	○	○
Resolution	1920 x 1080	1920 x 1080
LCD Panel	TFT LCD Panel 120 Hz	TFT LCD Panel 60 Hz
Screen Size	32"/40"/46"/55"	32"/37"/40"/46"/55"/60"
Picture ratio	16:9	16:9
Contrast Ratio	MEGA	MEGA
Picture Enhancer	3D HyperReal Engine	3D HyperReal Engine
Wide Color Enhance Plus	Wide Color Enhance Plus	Wide Color Enhance Plus
Equalizer	5 Band	5 Band
Auto Volume Control	○	○
Surround Sound	Dolby Digital Plus/Pulse	Dolby Digital Plus
Speaker Output	10 W x 10 W	10 W x 10 W
PIP	X	○
FUEction	Jog Function	Touch Fuction
Caption	○	○
Game Mode	○	○
Energy Saving	○	○
3D	○	X
Antenna	1 (Cable/Air)	1 (Cable/Air)

## 2.2. 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".

### ■ UE\*\*EH6030\*

Model Name		UE32EH6030*	UE40EH6030*	UE46EH6030*
PANEL	Vendor	AML	AML	AML
	Code	BN95-00697A	BN95-00699A	BN95-00701A
	Spec.	LTJ320HW10-V	LTJ400HV11-V	LTJ460HW10-V
SMPS	Vendor	HANSOL	SEM	SEM
	Code	BN44-00551B	BN44-00552A	BN44-00552A
	Spec.	PD32CV1_CHS	PD46CV1_CSM	PD46CV1_CSM
MAIN	Chassis Ass'y	Depending on Region, Chassis Ass'y is different.		
	PBA Ass'y	Depending on Region, PBA Ass'y code is different.		
Byte	Item			
0	Factory Reset	-	-	-
1	Type	32A1AF6D	40A1AF6D	46A1AF6D
2	Local Set	EU	EU	EU
3	Basic Model	UE6030	UE6030	UE6030
4	SVC Model	6030	6030	6030
5	TUNER	SI_ATC_2176	SI_ATC_2176	SI_ATC_2176
6	Ch Table	-	-	-
7	Front Color	U-S-BK	U-S-BK	U-S-BK

■ UA\*\*EH6030\*

Model Name		UA32EH6030*	UA40EH6030*	UA46EH6030*	UA55EH6030*
PANEL	Vendor	AML	AML	AML	AML
	Code	BN95-00697A	BN95-00699A	BN95-00701A	BN95-00703A
	Spec.	LTJ320HW10-V	LTJ400HV11-V	LTJ460HW10-V	LTJ550HW13-V
SMPS	Vendor	HANSOL	SEM	SEM	HANSOL
	Code	BN44-00551B	BN44-00552A	BN44-00552A	BN44-00556A
	Spec.	PD32CV1_CHS	PD46CV1_CSM	PD46CV1_CSM	PD55CV1_CHS
MAIN	Chassis Ass'y	Depending on Region, Chassis Ass'y is different.			
	PBA Ass'y	Depending on Region, PBA Ass'y code is different.			
Byte	Item				
0	Factory Reset	-	-	-	-
1	Type	32A1AF6D	40A1AF6D	46A1AF6D	55A1AF6D
2	Local Set	EU_**, AD_AU_**, EA_**. ED_** (Depending on Region, Local Set is different.)			
3	Basic Model	UE6030	UE6030	UE6030	UE6030
4	SVC Model	6030	6030	6030	6030
5	TUNER	SI_ATC_2176	SI_ATC_2176	SI_ATC_2176	SI_ATC_2176
6	Ch Table	-	-	-	-
7	Front Color	U-S-BK	U-S-BK	U-S-BK	U-S-BK

## 2.3. Accessories

Product	Description	Code. No		Remark
	Remote Control	EU	AA59-00603A	Samsung Electronics Service center
		ASIA	AA59-00608A	
	Batteries (AAA x 2)	4301-000121		
	Power Cord	EU	3903-000603	Samsung Electronics Service center
		ASIA	3903-000539	
	Warranty Card	EU	BN68-00514K	Samsung Electronics Service center
		ASIA	BH68-00527B	
	Safety Guide	EU	BN68-03019A	
		ASIA	AA68-03242M	
	User Manual (Simple Guide)	BN68-04494*		
	Cloth-clean	BN63-01798B		
	Holder-Wire Stand	BN61-05491A		



The part code for some accessories may differ depending on your region.

## 3. Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the LED TV.



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

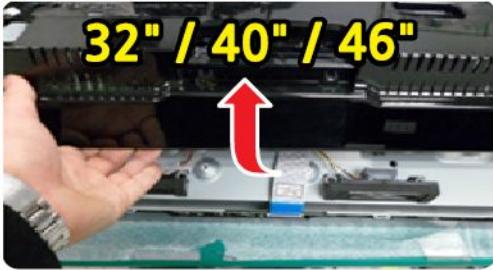
### 3.1. Disassembly and Reassembly

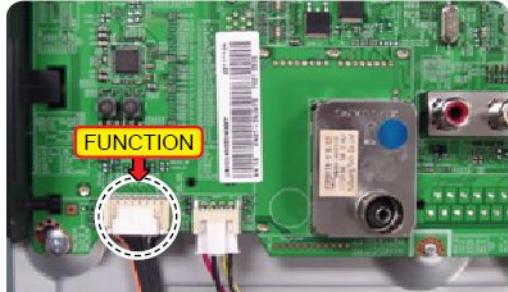
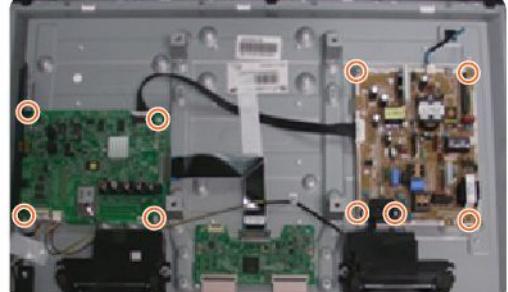
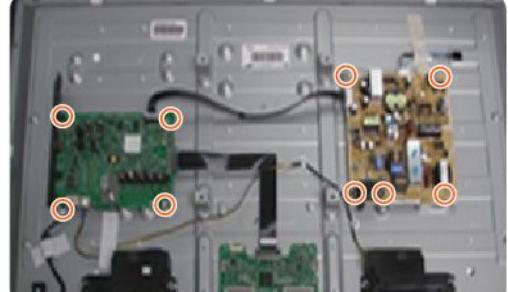
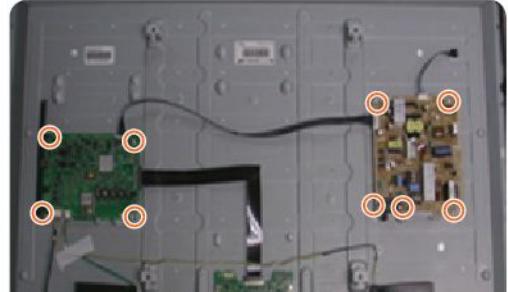


1. Disconnect the LED TV from the power source before disassembly.
2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.
3. If there is no additional comment, it is same for all inches.

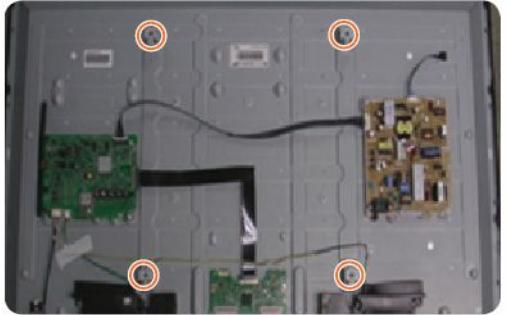
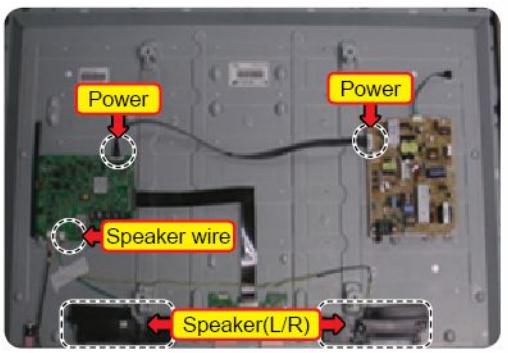
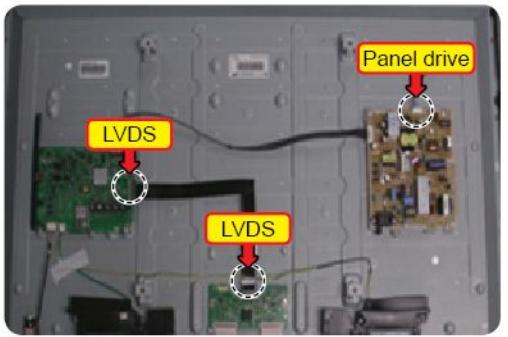
Description	Picture Description	Screws
<b>1</b> Place TV face down on cushioned table.		
<b>2</b> Remove 4 screws from the Stand.		 6003-001782
<b>3</b> Remove Stand.		

### 3. Disassembly and Reassembly

Description	Picture Description	Screws
<p><b>4</b> Remove screws of ASSY COVER P-REAR.</p> <ul style="list-style-type: none"> <li>• 32" : 10 EA / 4 EA</li> <li>• 40" : 12 EA / 4 EA</li> <li>• 46" : 14 EA / 4 EA</li> </ul>	 <p><b>32" / 40" / 46"</b></p>	 6003-001782  6003-002755
Remove screws of COVER MIDDLE and ASSY COVER P-REAR. <ul style="list-style-type: none"> <li>• 55": 17 EA / 4 EA</li> </ul>	 <p><b>55"</b></p>	 6003-001782  6003-002755
<p><b>5</b> Remove the ASSY COVER P-REAR.</p>	 <p><b>32" / 40" / 46"</b></p>	
Remove the ASSY COVER P-REAR.	 <p><b>55"</b></p>	
Remove the COVER P-MIDDLE.	 <p><b>55"</b></p>	

Description	Picture Description	Screws
<b>6</b> Disconnect the Function Cable.		
<b>7</b> Remove the screws of MAIN BOARD, SMPS BOARD. <ul style="list-style-type: none"> <li>• 32"               <ul style="list-style-type: none"> <li>– MAIN BOARD: 4 EA</li> <li>– SMPS BOARD: 5 EA</li> </ul> </li> </ul>		 6001-002756
<ul style="list-style-type: none"> <li>• 40"               <ul style="list-style-type: none"> <li>– MAIN BOARD: 4 EA</li> <li>– SMPS BOARD: 5 EA</li> </ul> </li> </ul>		 6001-002756
<ul style="list-style-type: none"> <li>• 40"               <ul style="list-style-type: none"> <li>– MAIN BOARD: 4 EA</li> <li>– SMPS BOARD: 5 EA</li> </ul> </li> </ul>		 6001-002756
<ul style="list-style-type: none"> <li>• 55"               <ul style="list-style-type: none"> <li>– MAIN BOARD: 4 EA</li> <li>– SMPS BOARD: 7 EA</li> <li>– Stand Link: 4 EA</li> </ul> </li> </ul>		 6001-002756

### 3. Disassembly and Reassembly

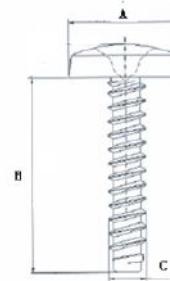
Description	Picture Description	Screws
<b>8</b> Remove the 4 screws of BRACKET-WALL.		 6001-002756
<b>9</b> Remove the ASSY SPEAKER (L/R) and Power Cables.		
<b>10</b> Remove the LVDS Cable and Panel Drive Cable.		
<b>11</b> Completed disassembly.		



Reassembly procedures are in the reverse order of disassembly procedures.

**Screw Size**

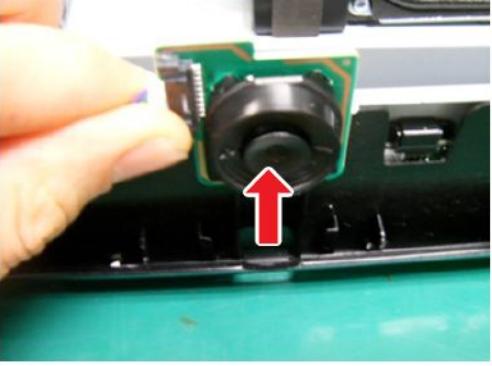
Code No.	COLOR	A (mm)	B (mm)	C (mm)	
6003-001782	BLACK	7.80~8.30	11.20~12.00	3.81~3.91	
6001-002755	BLACK	7.1~7.5	5.7~6.0	2.98~3.02	
6001-002756	WHITE	7.1~7.5	5.7~6.0	2.98~3.02	



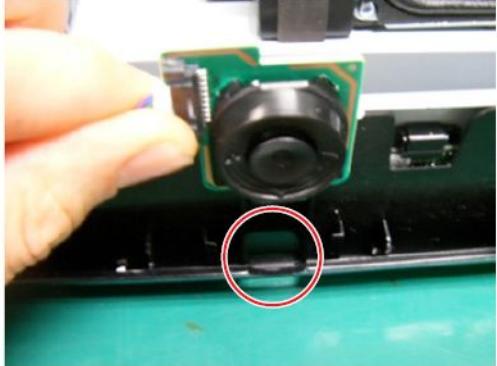
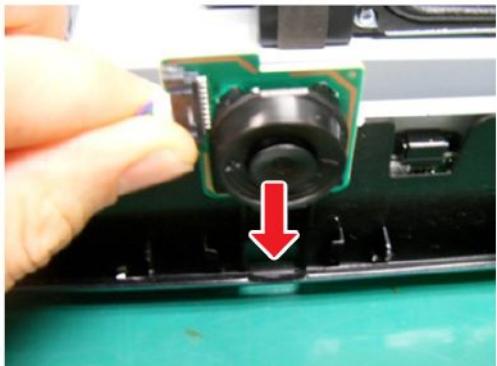
## 3.2. Function Assy

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### ■ How to Disassembly

Description	Picture Description	Refer
1 Remove the screw.		
2 Remove the Function Assy.		

## ■ How to Assembly

Description	Picture Description	Refer
1 Check the locking hole.		
2 Combine the function assy to locking hole.		
3 Press the function assy to TV.		

### When you want to ignore the funtion key actions

Option			
<b>Control</b>	Config Option	Navigation Key Func	0 : New Function (Naviagtion) Key [ Default ]
SVC			1 : Old Function (Touch) Key
Expert			2 : Do not work Function key
ADC/WB			
Advanced			

### 3.3. Disassembly(PTC)

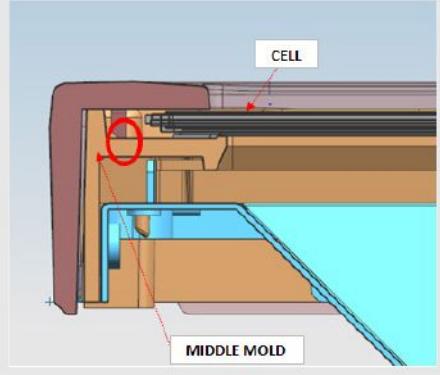
#### ■ How to disassembly

Description	Picture Description	Refer
1 Place TV face up on cushioned table.		
2 Remove the ASSY Function assy.		
3 Spread the both sides of PTC upper (marked "▼") by use the tool.  <b>! CAUTION</b> Do not scratch on both side by use tool. Gate Cof will be damaged. 	 	

Description	Picture Description	Refer
<b>4</b> Separate the left and right side of the PTC as shown.		
<b>5</b> Separate the Bottom of the PTC as shown		
<b>6</b> Raise up the PTC Bottom.		
<b>7</b> Disassembly is complete.		

## ■ How to reassembly

Description	Picture Description	Refer
<p>1 Attach the PTC Bottom first to the Panel.</p>		
		
<p>2 Secure the plastic latch on the left and right side of the PTC as shown.</p>		

Description	Picture Description	Refer
<p><b>3</b> Visually inspect the spacing between the PTC and the Panel for equal clearance.</p> <p><b>CAUTION</b> Combine to stick the PTC Rib into the middle mold.</p> 		
		
		
		
		

### 3. Disassembly and Reassembly

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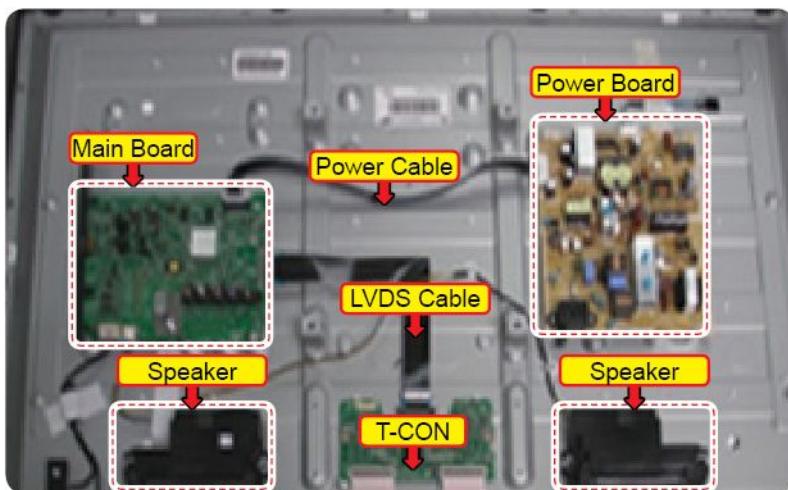
Description	Picture Description	Refer
<b>4</b> Assembly is complete.		

## 4. Troubleshooting

### 4.1. Troubleshooting

#### ■ Previous Check

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



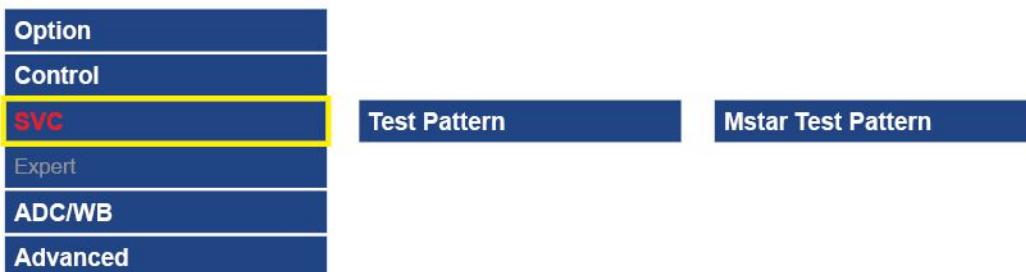
3. Check the power in & output between IP & Main Board, Main Board & Panel, IP & Panel.

## ■ How to know it is from Main Board or T-Con when some problems happen

1. No Picture : Backlight is on, but there is no picture and LED indicator in front of TV is blinking.
  - Check the LVDS Cable connection. If still problems, change the T-CON Board and then Main Board step by step.
2. Picture distortion : Enter the service mode → Choose 'SVC' → Check the 'internal pattern.'
  - Enter 'Service Mode.'
    - If you do not have Factory remote control
 

Power OFF → INFO → MENU → MUTE → Power On
    - If you have Factory remote control
 

INFO → Factory
3. Choose 'SVC.'
4. Choose 'Test pattern.'
5. Select the each pattern and then check all pattern is ok or not.



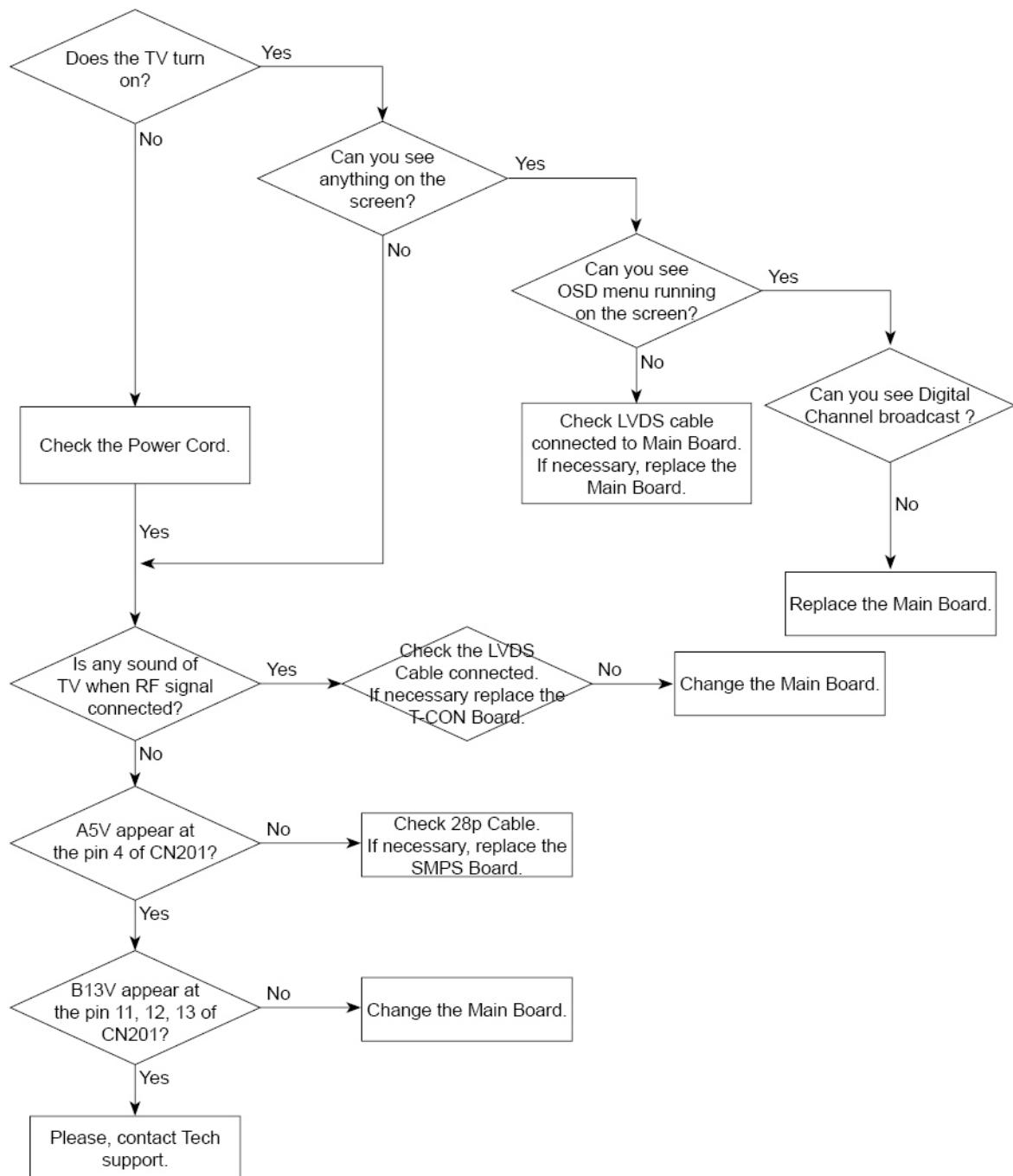
- For All mode

X10+	Echo_FS FRC Post	Picture	Problem
OK	OK	NG	Main Board or Signal Source.
NG	OK	NG	Main Board.
NG	NG	NG	Main or LVDS cable or T-CON or Panel.

- Only for HDMI mode (additional check)

HDMI	Picture	Problem
OK	NG	There is no problems after HDMI IC check HDMI source or HDMI jack.
NG	NG	There is no problems before HDMI IC check X10+ pattern or LVDS cable or T-CON.

## ■ Simple flow chart of malfunction



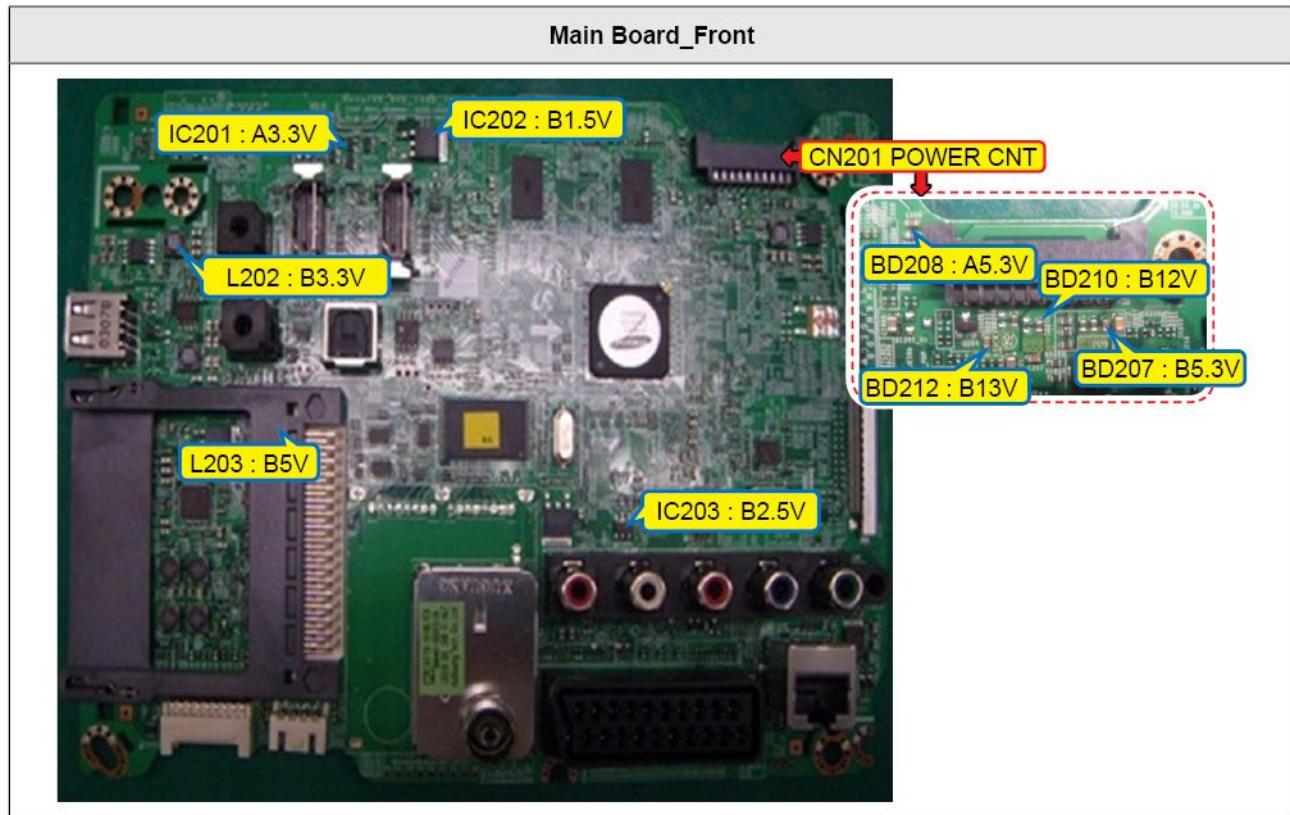
## 4.2. How to check fault symptom

### 4-2-1. No Power

Symptom	<ul style="list-style-type: none"> <li>The PD board relay does not work when connecting the power cord.</li> <li>The units appears to be dead.</li> </ul>
Major checkpoints	<p>The PD relay does not work when connecting the power cord if the cables are improperly connected or the Main Board or PD is not functioning. In this case, check the following:</p> <p>Check the internal cable connection status inside the unit.</p> <ul style="list-style-type: none"> <li>Check the fuses of each part.</li> <li>Check the output voltage of PD.</li> <li>Replace the Main Board.</li> </ul>
Diagnostics	<pre> graph TD     A[Power indicator LED on?] -- Yes --&gt; B[Check the backlight on, when 20P cable unconnected?]     B -- Yes --&gt; C[Check 'Stand-By 5.3V' appear at? BD207 : A5.3V]     C -- Yes --&gt; D[Check 'Power input of Main Ass'y' DC B13V, B5.3V appear at? CN201 #11, 12, 13(B13V) 0V to 13V (CN201 #11, 12, 13) CN201 #1, 3 (B5.3V) 0V to 5.3V (CN201 #1, 3)]     D -- Yes --&gt; E[Check 'Power IC output of Main Ass'y? L202 : B3.3V / L201 : B1.1V IC201 : A3.3V / IC202 : B1.5V IC203 : B2.5V]     E -- Yes --&gt; F[Check Input power of 'T-CON Board'? F11(T-CON) : B13V]     F -- Yes --&gt; G[Check Input power of 'T-CON Board'? L9(T-CON) : VCC12 / TP_VCC33 : VCC33]     G -- No --&gt; H[Change the T-CON Board.]     G -- Yes --&gt; I[Reconnect or change the LVDS cable.]     I -- No --&gt; J[Change Main Assy.]     D -- No --&gt; K[Change 20P power cable. Change Main Power Assy.]     E -- No --&gt; L[Change Main Assy.]     F -- No --&gt; M[Reconnect or change the LVDS cable.]   </pre> <p>The flowchart starts with "Power indicator LED on?". If "Yes", it goes to "Check the backlight on, when 20P cable unconnected?". If "Yes", it goes to "Check 'Stand-By 5.3V' appear at? BD207 : A5.3V". If "Yes", it goes to "Check 'Power input of Main Ass'y' DC B13V, B5.3V appear at? CN201 #11, 12, 13(B13V) 0V to 13V (CN201 #11, 12, 13) CN201 #1, 3 (B5.3V) 0V to 5.3V (CN201 #1, 3)". If "No", it leads to a box containing "Change 20P power cable. Change Main Power Assy.". If "Yes", it goes to "Check 'Power IC output of Main Ass'y? L202 : B3.3V / L201 : B1.1V IC201 : A3.3V / IC202 : B1.5V IC203 : B2.5V". If "Yes", it goes to "Check Input power of 'T-CON Board'? F11(T-CON) : B13V". If "Yes", it goes to "Check Input power of 'T-CON Board'? L9(T-CON) : VCC12 / TP_VCC33 : VCC33". If "No", it leads to "Change the T-CON Board.". If "Yes", it leads to "Reconnect or change the LVDS cable.". If "No", it leads to "Change Main Assy.".</p>

	<p style="text-align: center;">↓ Yes</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"><p>Please, Contact tech support.</p></div>
<b>Caution</b>	Make sure to disconnect the power before working on the IP Board.

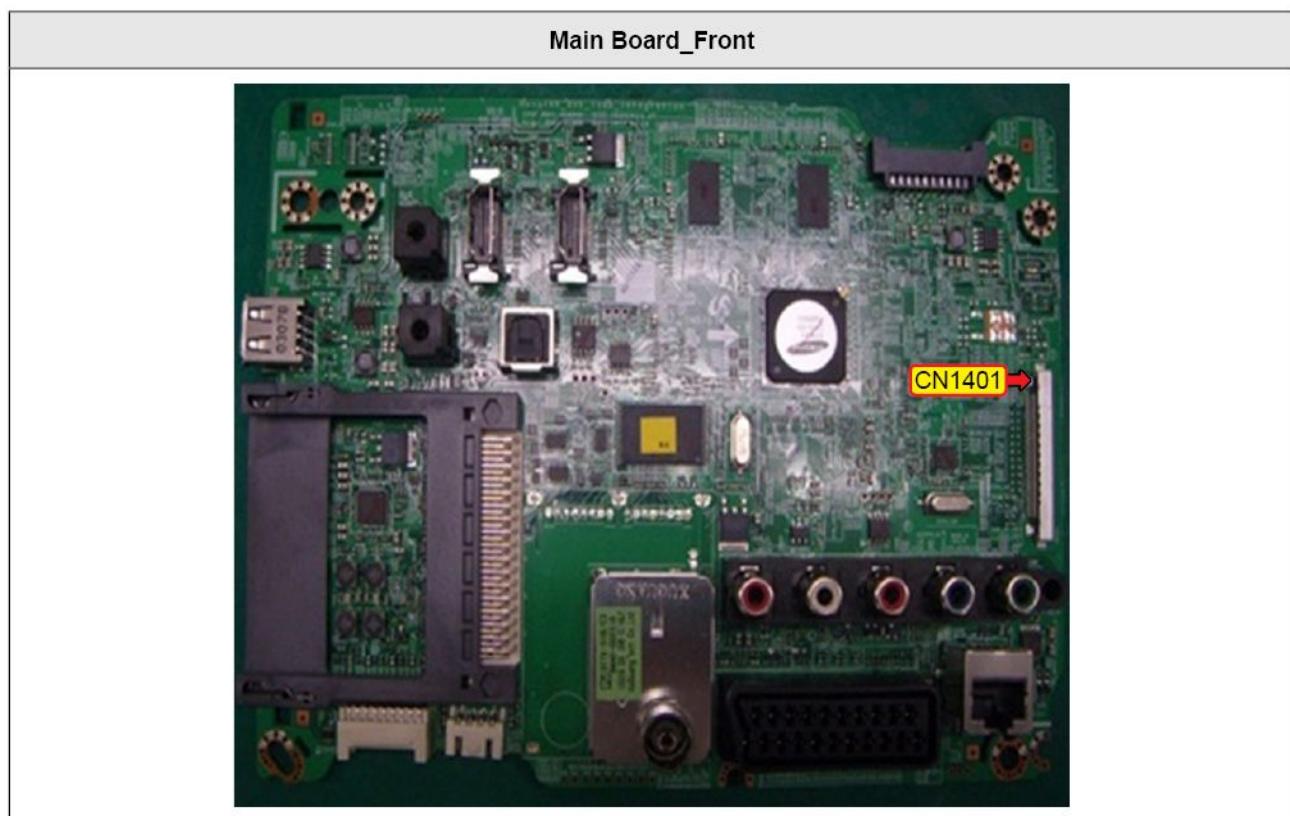
## ■ Location of Parts



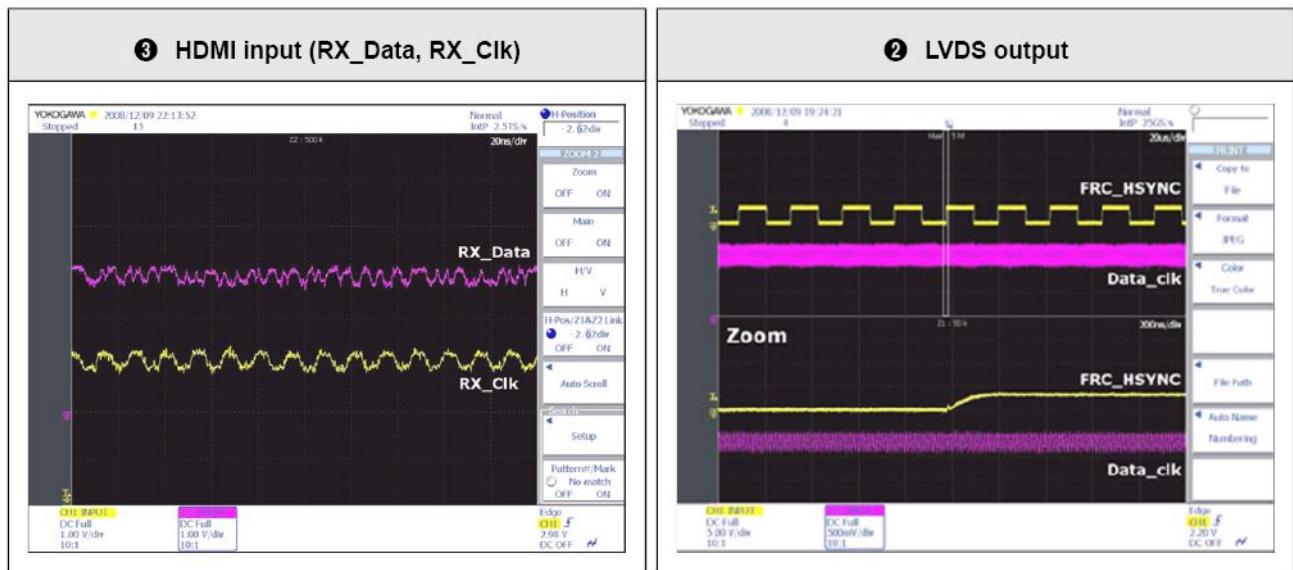
## 4-2-2. No Video (3-HDMI\_Digital signal)

Symptom	Audio is normal but no picture is displayed on the screen.
Major checkpoints	<ul style="list-style-type: none"> <li>Check the HDMI source.</li> <li>Check the HDMI switch.</li> <li>This may happen when the LVDS cable connecting the Main Board and the Panel is disconnected.</li> </ul>
Diagnostics	<pre> graph TD     A["Power indicator LED is off. Lamp(Backlight) on, no video ?"] -- Yes --&gt; B["Check the HDMI source and connection of HDMI cable ?"]     A -- No --&gt; C["Check a set in the 'Stand-by mode'."]     B -- Yes --&gt; D["① Check the signal at Input of Main board ?"]     B -- No --&gt; E["Input the HDMI signal properly."]     D -- Yes --&gt; F["② Check the LVDS clk signal at output of Main Board? ODD_TXCLK- / ODD_TXCLK+ EVEN_TXCLK- / EVEN_TXCLK+"]     D -- No --&gt; G["Check CN601~3. Check HDMI cable. Change the Main Assy."]     F -- Yes --&gt; H["Check the LVDS cable? Replace the T-CON / LCD panel?"]     F -- No --&gt; I["Check IC901(Novatek). Change the Main Assy."]     H -- No --&gt; J["Please, Contact Tech support."]   </pre>
Caution	Make sure to disconnect the power before working on the IP Board.

## ■ Location of Parts



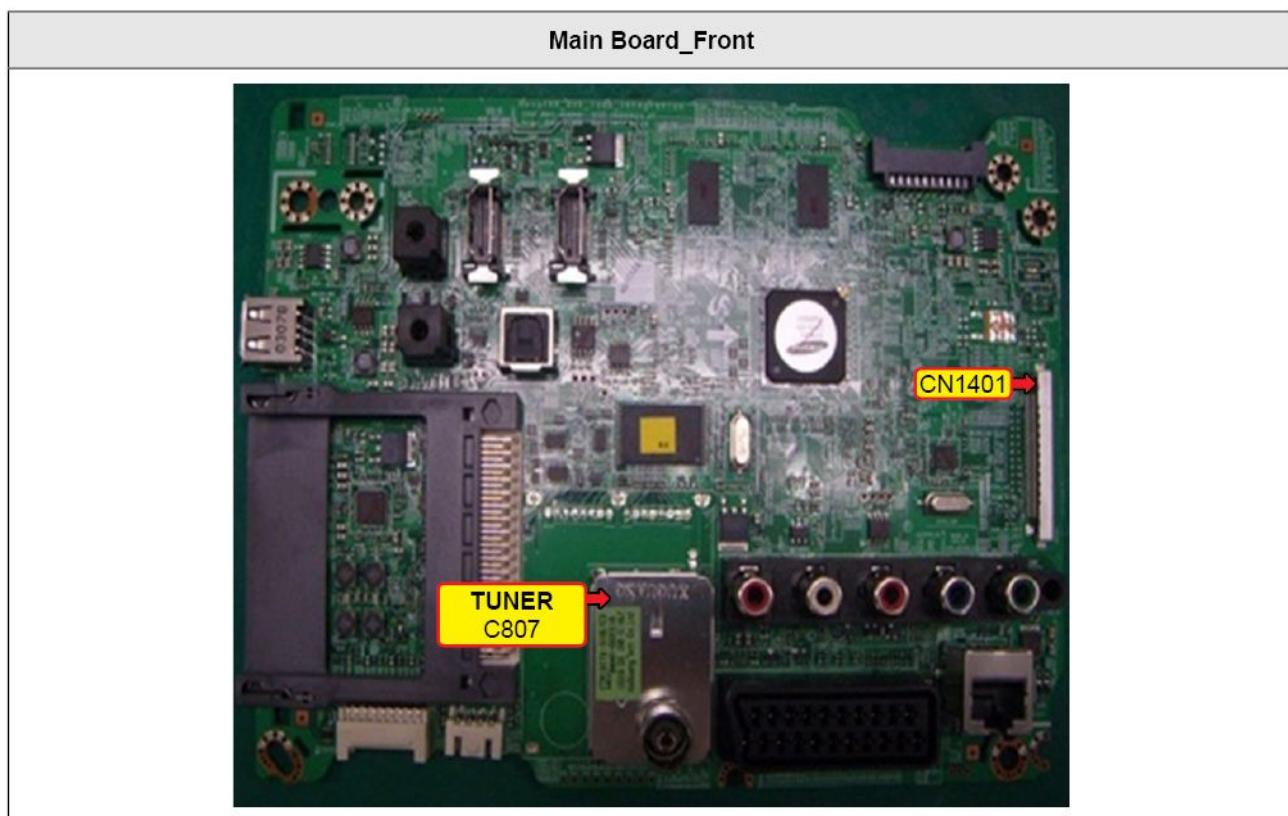
## ■ Waveforms



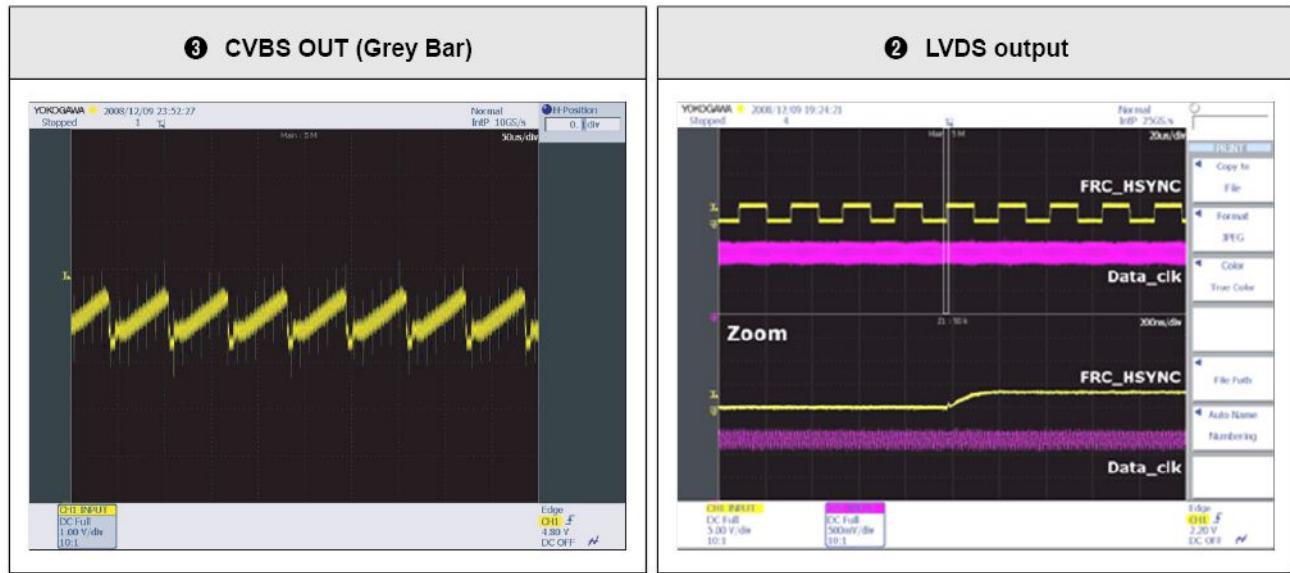
### 4-2-3. No Video (Tuner\_CVBS)

Symptom	Audio is normal but no picture is displayed on the screen.
Major checkpoints	<ul style="list-style-type: none"> <li>Check the Tuner CVBS source.</li> <li>Check the Tuner.</li> <li>This may happen when the LVDS cable connecting the Main Board and the Panel is disconnected.</li> </ul>
Diagnostics	<pre> graph TD     A["Power indicator LED is off. Lamp(Backlight) on, no video ?"] -- Yes --&gt; B["Check the RF source and the connection of RF cable ?"]     A -- No --&gt; C["Check a set in the 'Stand-by mode'."]     B -- Yes --&gt; D["Check the Power of Tuner ? Pin #17 of Tuner : B3.3V_Tuner Pin #18 of Tuner : B1.2V_Tuner"]     B -- No --&gt; E["Input the RF source properly."]     D -- Yes --&gt; F["① Check the CVBS data out of IC1001? C807 : Tuner CVBS"]     D -- No --&gt; G["Change the Main Assy."]     F -- Yes --&gt; H["② Check the LVDS clk signal at output of Main Board? ODD_TXCLK- / ODD_TXCLK+ EVEN_TXCLK- / EVEN_TXCLK+"]     F -- No --&gt; I["Check IC901(NT72558). Change the Main Assy."]     H -- Yes --&gt; J["Check the LVDS cable? Replace the T-CON / LCD panel?"]     H -- No --&gt; K["Check IC901(NT72558). Change the Main Assy."]     J -- Yes --&gt; L["Please, Contact Tech support."]     J -- No --&gt; M["Please, Contact Tech support."]   </pre> <p>The flowchart starts with a question about power and lamp status. If 'Yes', it checks RF source and connection. If 'No', it checks a set in stand-by mode. If RF source is OK, it moves to step 1. Step 1 involves checking tuner power (pins 17 and 18). If power is OK, it moves to step 2. Step 2 involves checking CVBS data from IC1001 (pin C807). If data is OK, it checks LVDS clock signals on the main board. If LVDS clock is OK, it checks the LVDS cable or replaces the T-CON/LCD panel. If any step fails, it leads to contacting tech support.</p>
Caution	Make sure to disconnect the power before working on the IP Board.

■ Location of Parts



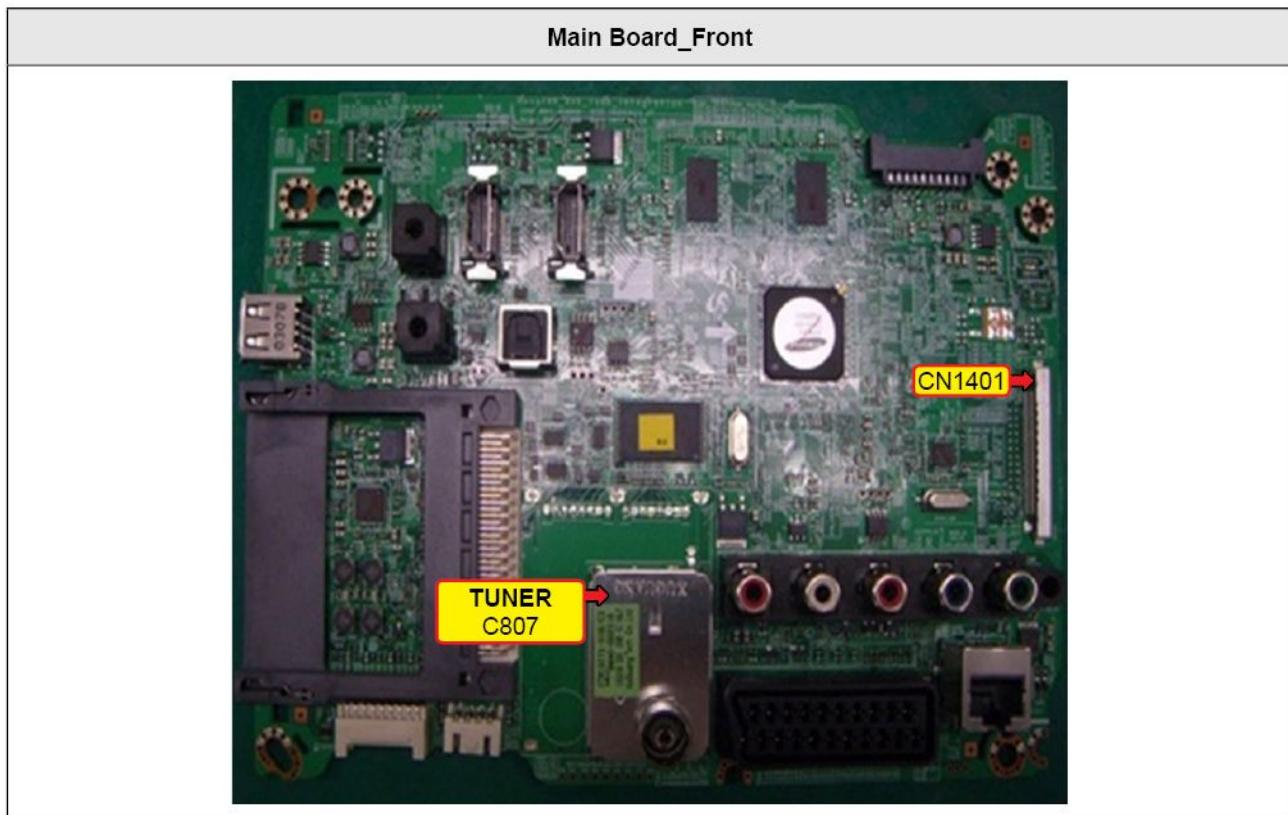
## ■ Waveforms



#### 4-2-4. No Video (Tuner\_DTV)

Symptom	Audio is normal but no picture is displayed on the screen.
Major checkpoints	<ul style="list-style-type: none"> <li>Check the DTV source.</li> <li>Check the Tuner.</li> <li>This may happen when the LVDS cable connecting the Main Board and the Panel is disconnected.</li> </ul>
Diagnostics	<pre> graph TD     A["Power indicator LED is off. Lamp(Backlight) on, no video ?"] -- Yes --&gt; B["Check the RF source and the connection of RF cable ?"]     A -- No --&gt; C["Check a set in the 'Stand-by mode'."]     B -- Yes --&gt; D["Check the 'signal strength' in Self Diagnosis menu Strength is enough?"]     B -- No --&gt; E["Input the RF source properly."]     D -- Yes --&gt; F["Check the Power of Tuner ? Pin #17 of Tuner : B1.2V_Tuner Pin #18 of Tuner : B3.3V_Tuner"]     D -- No --&gt; G["Check the DTV source."]     F -- Yes --&gt; H["Check the LVDS clk signal at output of Main Board? ODD_TXCLK- / ODD_TXCLK+ EVEN_TXCLK- / EVEN_TXCLK+"]     F -- No --&gt; I["Change the Main Assy."]     H -- Yes --&gt; J["Check the LVDS cable? Replace the T-CON / LCD panel?"]     H -- No --&gt; K["Check IC901(NT72558). Change the Main Assy."]     J -- No --&gt; L["Please, Contact Tech support."]   </pre>
Caution	Make sure to disconnect the power before working on the IP Board.

## ■ Location of Parts



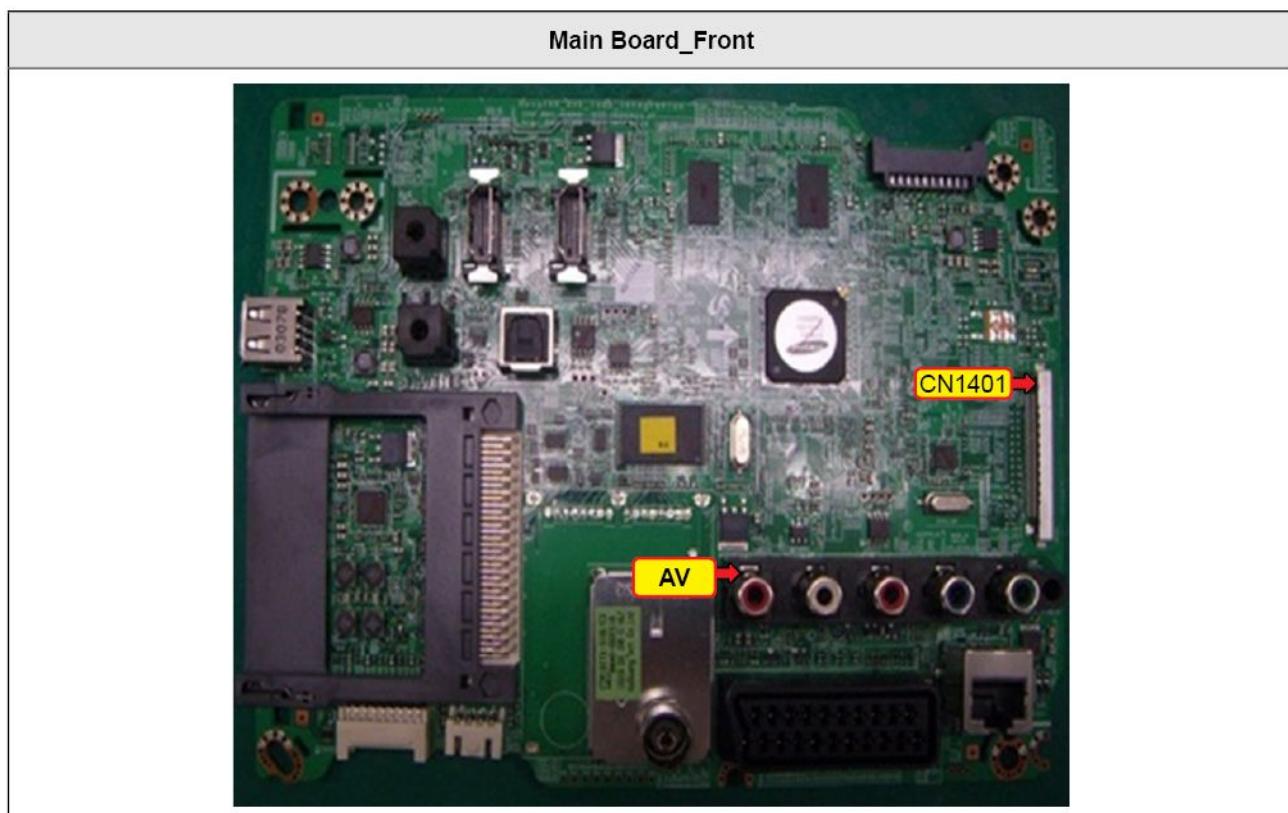
## ■ Waveforms



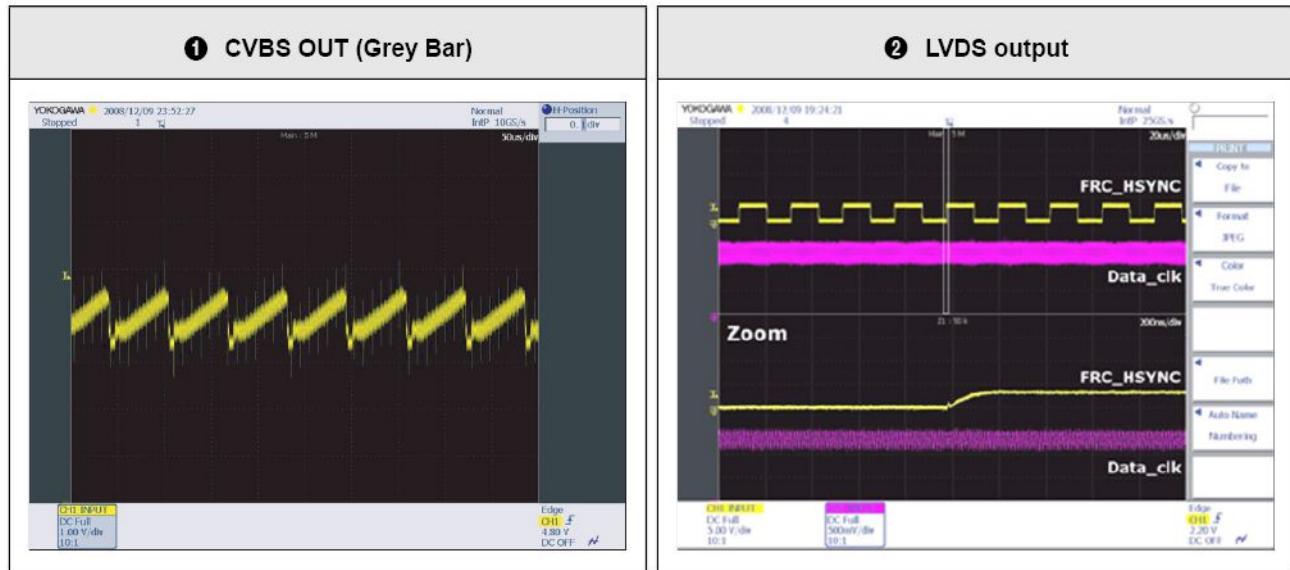
#### 4-2-5. No Video (Video AV 1, 2)

Symptom	Audio is normal but no picture is displayed on the screen.		
Major checkpoints	<ul style="list-style-type: none"> <li>Check the Video CVBS source.</li> <li>This may happen when the LVDS cable connecting the Main Board and the Panel is disconnected.</li> </ul>		
Diagnostics	<pre> graph TD     A["Power indicator LED is off. Lamp(Backlight) on, no video ?"] -- Yes --&gt; B["Check the video source and the connection of video cable?"]     A -- No --&gt; C["Check a set in the 'Stand-by mode'."]     B -- Yes --&gt; D["Check the LVDS clk signal at output of Main Board? ODD_TXCLK- / ODD_TXCLK+ EVEN_TXCLK- / EVEN_TXCLK+"]     B -- No --&gt; E["Input the video source properly."]     D -- Yes --&gt; F["Check the LVDS cable? Replace the T-CON / LCD panel?"]     D -- No --&gt; G["Check IC901(NT72558). Change the Main Assy."]     F -- Yes --&gt; H["Please, Contact Tech support."]     F -- No --&gt; I["Please, Contact Tech support."]   </pre>	<p>Power indicator LED is off. Lamp(Backlight) on, no video ?</p> <p>Check the video source and the connection of video cable?</p> <p>Check the LVDS clk signal at output of Main Board? ODD_TXCLK- / ODD_TXCLK+ EVEN_TXCLK- / EVEN_TXCLK+</p> <p>Check the LVDS cable? Replace the T-CON / LCD panel?</p> <p>Check a set in the 'Stand-by mode'.</p> <p>Input the video source properly.</p> <p>Check IC901(NT72558). Change the Main Assy.</p> <p>Please, Contact Tech support.</p>	
Caution	Make sure to disconnect the power before working on the IP Board.		

■ Location of Parts



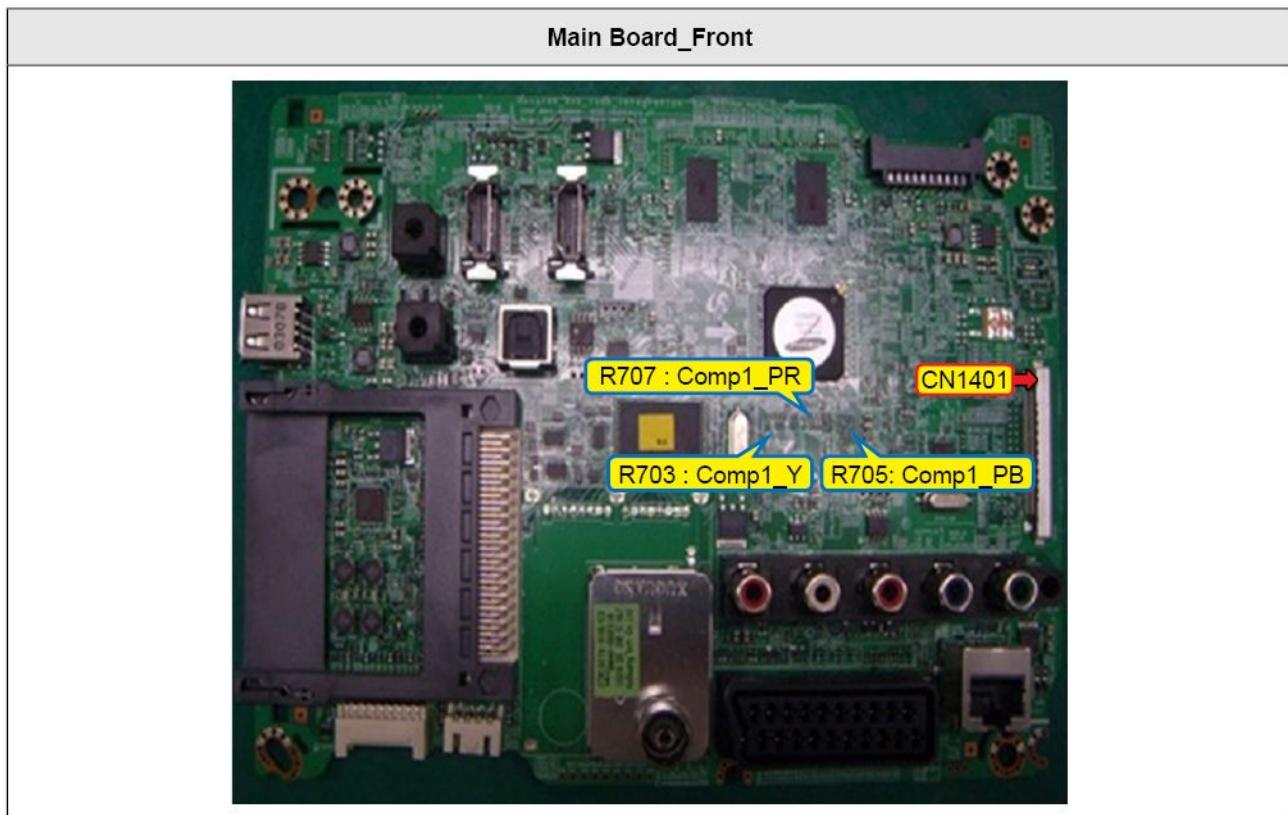
## ■ Waveforms



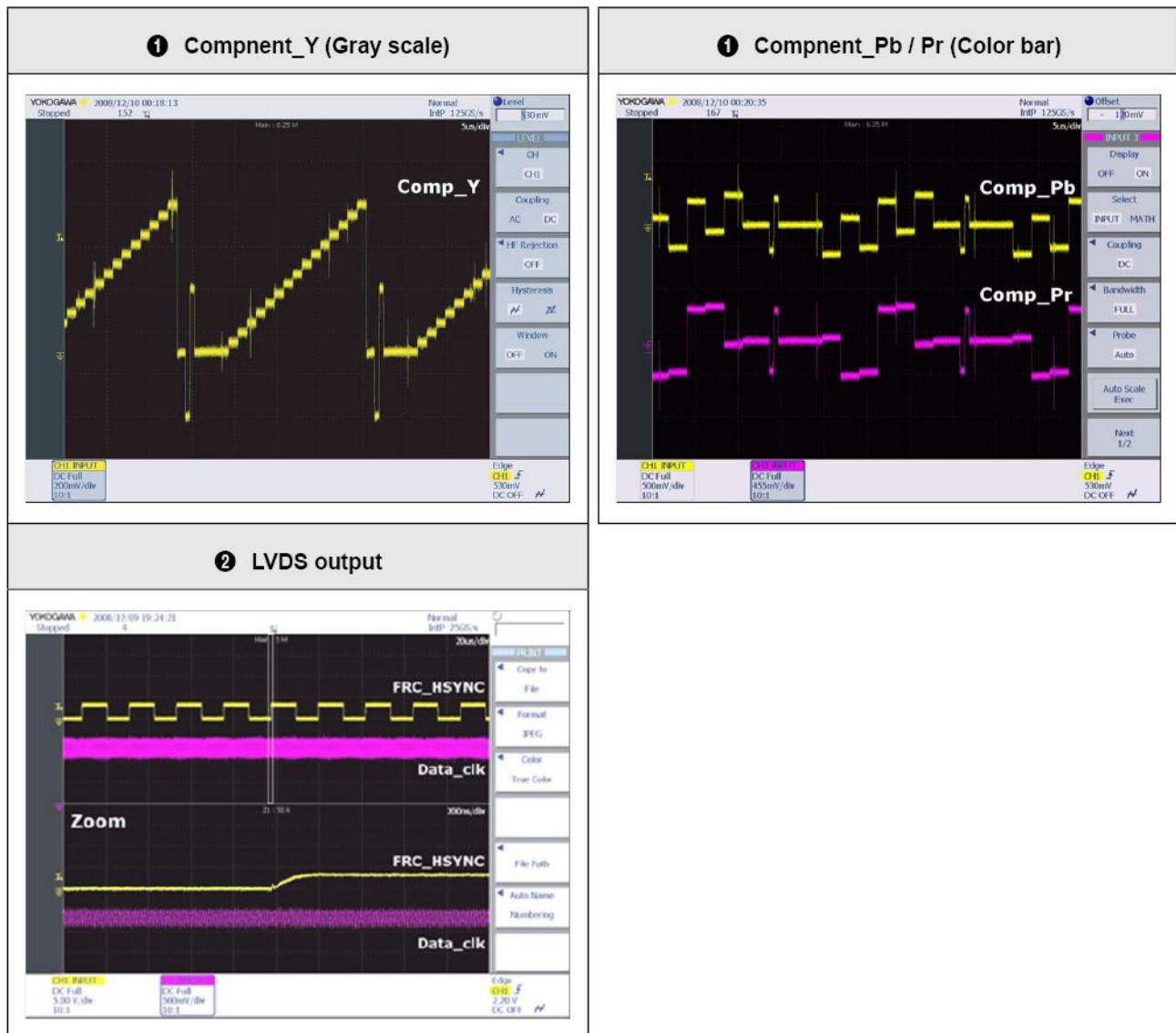
#### 4-2-6. No Video (Component)

Symptom	Audio is normal but no picture is displayed on the screen.
Major checkpoints	<ul style="list-style-type: none"> <li>Check the Component source.</li> <li>This may happen when the LVDS cable connecting the Main Board and the Panel is disconnected.</li> </ul>
Diagnostics	<p>Power indicator LED is off. Lamp(Backlight) on, no video ?</p> <p>Yes</p> <p>Check the component source and the connection of component cables? Y, Pb, Pr</p> <p>Yes</p> <p>① Does the component data appear at ? Comp1 Y : R703 Pb : R705 Pr : R707</p> <p>Yes</p> <p>② Check the LVDS clk signal at output of Main Board? ODD_TXCLK- / ODD_TXCLK+ EVEN_TXCLK- / EVEN_TXCLK+</p> <p>Yes</p> <p>Check the LVDS cable? Replace the T-CON / LCD panel?</p> <pre> graph TD     A[Power indicator LED is off. Lamp(Backlight) on, no video ?] -- Yes --&gt; B[Check the component source and the connection of component cables? Y, Pb, Pr]     A -- No --&gt; C[Check a set in the 'Stand-by mode'.]     B -- Yes --&gt; D[Does the component data appear at ? Comp1 Y : R703 Pb : R705 Pr : R707]     B -- No --&gt; E[Input the component source properly.]     D -- Yes --&gt; F[Check the LVDS clk signal at output of Main Board? ODD_TXCLK- / ODD_TXCLK+ EVEN_TXCLK- / EVEN_TXCLK+]     D -- No --&gt; G[Check CN401 or Component gender. Change the Main Assy.]     F -- Yes --&gt; H[Check the LVDS cable? Replace the T-CON / LCD panel?]     F -- No --&gt; I[Check IC901(NT72558). Change the Main Assy.]     H -- No --&gt; J[Please, Contact Tech support.]   </pre>
Caution	Make sure to disconnect the power before working on the IP Board.

## ■ Location of Parts



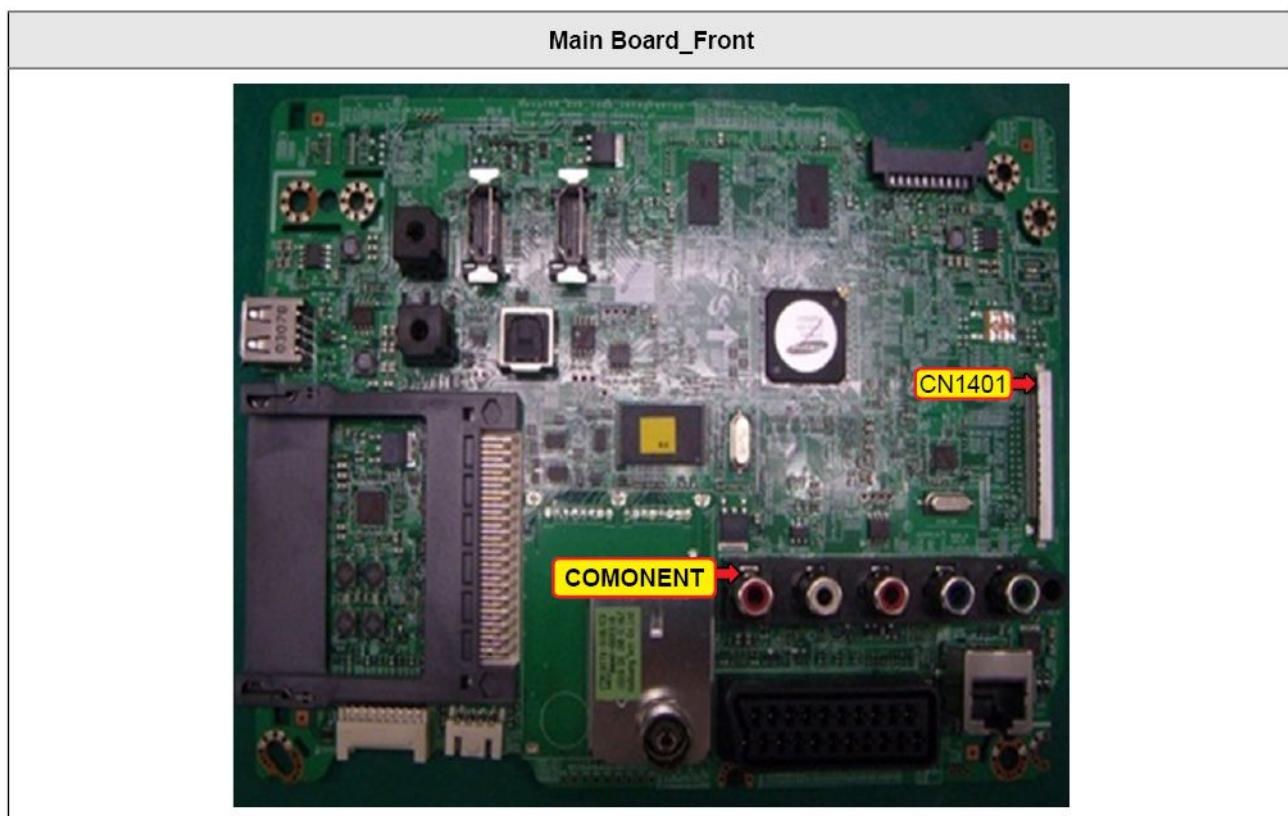
## ■ Waveforms



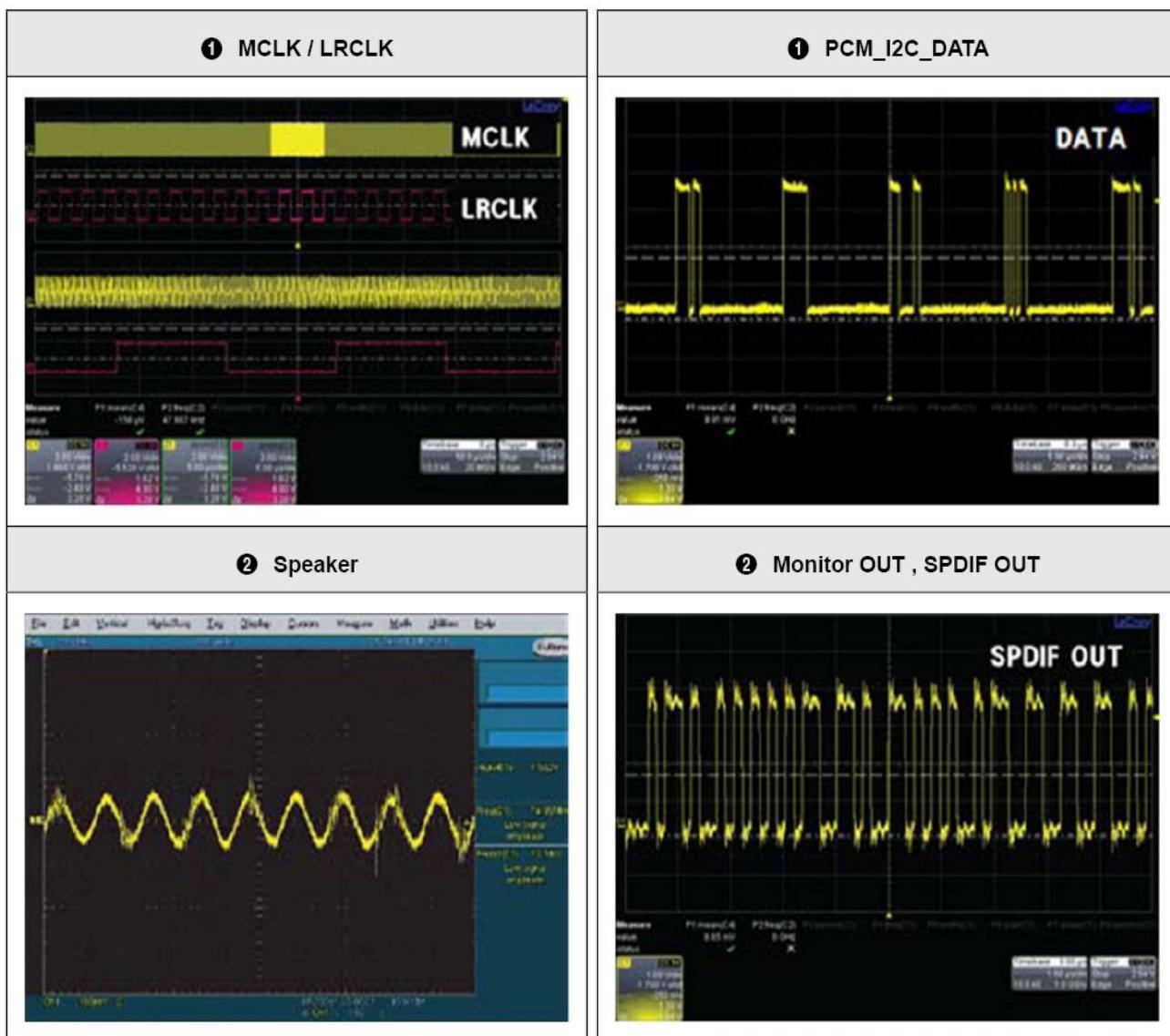
#### 4-2-7. No Sound (1. Speaker, 2. Monitor\_Out, 3. Optical)

Symptom	Video is normal but there is no sound.
Major checkpoints	<ul style="list-style-type: none"> <li>When the speaker connectors are disconnected or damaged.</li> <li>When the sound processing part of the Main Board is not functioning.</li> <li>Speaker defect.</li> </ul>
Diagnostics	<p>Check the source and the connection of sound cable? Comp/DVI to HDMI</p> <p>Yes</p> <p>Check the signal at input of Main Board? AV, COMP R : R427 / L : R426 MO R : R422 / L : R421</p> <p>Yes</p> <p>① Check the DATA between the Audio IC's ? Pin #4 of IC301 : WCK Pin #3 of IC301 : SDATA</p> <p>Yes</p> <p>② 1. Check the Speaker sound data at? CN302 2. Check the Monitor out sound data at? CN301 3. Does the SODIF OUT sound data appear at? OP301</p> <p>Yes</p> <p>Replace speaker ?</p> <pre> graph TD     A[Check the source and the connection of sound cable? Comp/DVI to HDMI] -- Yes --&gt; B[Check the signal at input of Main Board? AV, COMP R : R427 / L : R426 MO R : R422 / L : R421]     B -- Yes --&gt; C[Check the DATA between the Audio IC's ? Pin #4 of IC301 : WCK Pin #3 of IC301 : SDATA]     C -- Yes --&gt; D[1. Check the Speaker sound data at? CN302 2. Check the Monitor out sound data at? CN301 3. Does the SODIF OUT sound data appear at? OP301]     D -- Yes --&gt; E[Replace speaker ?]     E -- No --&gt; F[Please, Contact Tech support.]     A -- No --&gt; G[Input the sound source properly.]     B -- No --&gt; H[Check CN301, CN401. Change the Main Assy.]     C -- No --&gt; I[Check IC303. Change the Main Assy.]     D -- No --&gt; J[Check IC303. Change the Main Assy.]   </pre>
Caution	Make sure to disconnect the power before working on the IP Board.

■ Location of Parts



## ■ Waveforms



## 4.3. Factory Mode Adjustments

### 4-3-1. Entering Factory Mode

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

- If you do not have Factory remote control



- If you have Factory remote control



- If you don't have Factory remote control, can't control some menus. (Expert, Advanced menu)

<b>Option</b>	T-NVTE5DEUC-xxxx T-NVTE5DEUS-xxxx E-Manual : NVDVBEU4E-xxxx
<b>Control</b>	EDID SUCCESS HDCP SUCCESS
<b>SVC</b>	CALIB : AV/COMP/PC/HDMI/ Option : 32A1AF6D,EU,6030,NONE
<b>Expert</b>	FactoryCS : 0x61c5d5cd T-NVTDEUCIP-1000
<b>ADC/WB</b>	DTP-SP-NT558-0416-000 RFS : "NT558 0094"
<b>Advanced</b>	Kernel Ver : 0075.0728, DTV, NT558 FUNC-TAG-ERR PPQT Version : 0001, 2012/4/16 NT72312 : 0x030E



Software Version : Asia T-NVTE5DAAC-xxxx  
T-NVTE5DAAC-xxxx

- How to enter the hidden factory mode.
1. Into the factory mode.
  2. Move the tap to Advanced.
  3. Key input : 0 + 0 + 0 + 0.



hidden menu : Advanced

## 4-3-2. Factory Data

### ■ Option

Factory Menu Name	Data	Range
Factory Reset	-	
Type	32A1AF6D / 40A1AF6D / 46A1AF6D / 55A1AF6D	
Local set	Depending on Region, Local set is different.	
Basic Model	UE6030	
SVC Model	6030	
TUNER	SI_ATC_2176	
Ch table	NONE	
Front Color	U-S-BK	

### ■ Control

Factory Menu Name	Data	Range
<b>EDID</b>		
EDID ON/OFF	OFF	
EDID WRITE ALL	...	
EDID WRITE HDMI	...	
EDID WRITE PC	...	
EDID Ver	...	
EDID Port		
EDID WRITE DVI	...	
<b>Sub Option</b>		
RF Mute Time	600ms	
RS-232 Jack	UART	
Watchdog	OFF	
WD COUNT	0	
Dimm Type	EXT	
LVDS FORMAT	JEIDA	
LVDS Srive Strength	400mv	
Language_Arabic	EU	
TOOLS Support	57	
LNA Support	0	
NETWORK Support	Ext-Wifi	
IPERF	Stopped	
Info Link Server Type	operating	
Info Link Country	None	
TTX List	Flof	
TTX Group	UserOSD	

Factory Menu Name	Data	Range
24Px4 Support	OFF	
Power Indicator Support	ON	
BD Wise Support	OFF	
Data Service Support	OFF	
Cable Modulation	Error	
IIC Bus Stop	OFF	
Visual Test	Disable	
Emergency Log Copy		
Checksum	0x0000	
View Log		
Select Log Type	MICOM	
Log View		
Delete Log		
ColorSpace Support	RGB Type	
Gemstar On/Off	OFF	
WSS Support	ON	
PVR Support	OFF	
CI Support	ON	
Eeprom Reset		
Spread Spectrum		
LVDS Spread	ON	
LVDS Period	40K	
LVDS Amplitude	1	
DDR Period	20K	
DDR Amplitude	0.00%	
NT72312 LVDS SSC ON/OFF	ON	
NT72312 LVDS SSC Period	30K	
NT72312 LVDS SSC Modulation	1.00%	
NT72312 DDR SSC ON/OFF	ON	
NT72312 DDR SSC Period	30K	
NT72312 DDR SSC Modulation	1.00%	
DDR Margin		
A CTRL_OFFSET_0_3	0x0	
A CTRL_OFFSET_D	0x0	
B CTRL_OFFSET_0_3	0x0	
B CTRL_OFFSET_D	0x0	
H.264 Margin	8	
MPEG Margin	1000	

#### 4. Troubleshooting

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<b>Factory Menu Name</b>	<b>Data</b>	<b>Range</b>
Region	PANEURO	
PnP Language	ENG	
PC Auto Ident	Enable	
OTP Lock	...	
Auto Power	MEMORY	
Key SENSITIVITY	39	
Key Proximity		
OTA Support	OFF	
FKP Down		
WIFI REGION	E	
e-Pop Default	ON	
OPTION_SWU		
OPTION_MEDIAPLAY		
Energy Star Logo	ON	
3D OPTIMIZE VALUE	1	
ECO IC TYPE	NLS1006	
Fast USB Booting	ON	
Nume of Network Stream	0	
CI+1.3	OFF	
<b>HOTEL Option</b>		
Hospitality Mode	OFF	
Power On	...	
Menu OSD	...	
Operation	...	
Music Mode	...	
External Source	...	
Eco Solution	...	
Cloning	...	
<b>Shop Option</b>		
<b>Shop Mode</b>	OFF	
Exhibition Mode	OFF	
3D Cube	OFF	
<b>Asia Option</b>		
TTX	OFF	
China HD	OFF	
NT Conversion	OFF	
Sepco 120Hz	OFF	
Unbalance	OFF	

Factory Menu Name	Data	Range
FMTransmitter Support	OFF	
FMTransmitter Carrier	OFF	
AF Level adjust	3	
TX Power Level	0	
Mono Last Memory	OFF	
H Shaking	OFF	
<b>SOUND</b>		
High Devi	OFF	
Carrier Mute	OFF	
Volume Curve	Type1	
Speaker Delay Normal	0	
Pilot Level High Thld	0x1Fh	
Pilot Level Low Thld	0x1Dh	
FM Prescale	23	
AM Prescale	30	
NICAM Prescale	29	
Amp Volume	0xC7h	
Amp Scale	0x8eh	
Amp Check Sum	0x1B52015	
Woofer Type	0	
Woofer Scale	0x8ah	
Woofer Check Sum		
Speaker EQ	ON	
PEQ Test	0	
<b>Amp Model</b>	<b>NTP7412</b>	
Speaker cut-off Freq	5	
SPDIF PCM Gain	-9	
FM M Prescale	0	
BTSC Mono Prescale	0	
BTSC stereo Prescale	0	
SAP Prescale	0	
A2Ident High Thid	11	
A2Ident Low Thid	5	
Carrier2 Amp High Thld	4	
Carrier2 Amp Low Thld	2	
Carrier2 SNR High THR	16	
Carrier2 SNR Low THR	6	
Audio-IP Test	Ready	

#### 4. Troubleshooting

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<b>Factory Menu Name</b>	<b>Data</b>	<b>Range</b>
TruBass CheckSum	0xFFFFFFFF	
PWM Mode	BD	
Mic Scale	0	
SubWoofer Support	0	
India Sound	OFF	
SAP High T'hld	9	
SAP Low T'hld	7	
<b>Config Option</b>		
Num of ATV	1	
Num of DTV	1	
Num of AV	1	
Num of SVIDEO	0	
Num of COMP	1	
Num of HDMI	2	
Num of PC	0	
Num of SCART	1	
Num of DVI	0	
Num of OPTICAL Link	1	
Num of MEDIA	1	
Num of PANEL KEY	6	
Num of USB Port	1	
Num of HeadPhone	1	
Num of RVU	0	
Num of IPTV	0	
Num of Display	1	
Num of CI	1	
MFT Offset	62.5	
Select LCD/PDP	LCD	
HDMI/DVI SEL	1	
Indicator Led	OFF	
Wall Mount	OFF	
HV Flip	HV Flip	
BackEnd SEL	120Hz	
DVI/HDMI SOUND	Auto	
HDMI HOT PLUG	Disable	
HOTPLUG SWITCHING	Boot	
HOTPLUG DURATION	200ms	
CLK TERM DURATION	200ms	

<b>Factory Menu Name</b>	<b>Data</b>	<b>Range</b>
HDMI FLT CNT SIG	100ms	
HDMI FLT CNT LOS	100ms	
UNSTABLE BAN CNT	3500ms	
HDMI Err Cnt	1	
HDMI ROBIN	ON	
HDMI Callback	OFF	
HDMI CTS Thld	8	
HDMI CTS Cnt1	1	
HDMI EQ	AUTO	
HDMI Write Type	Combine	
HDMI Switch	NONE	
DVI SET TIME	300ms	
Type Of PANEL KEY	Horizontal	
Function Vendor	AUTO	
EcoSensor Support	ON	
LEDMotionPlus Support	ON	
Natural Mode Support	ON	
All Share Support	ON	
Relax Mode Support	OFF	
BT Support	ON	
3D Support	ON	
3D Explorer Support	ON	
DVI-I Support	OFF	
H Write		
HDMI Sync	DE	
HeadPhone Port	A Out2	
FANET	ON	
Support MultiMedia Key	ON	
Config_AV_PATH		
5 Way Function Key	R BOTTOM	
<b>SCC</b>		
SCC Mode	Dynamic	
SCC ON/OFF	OFF	
SCC Input Data		
Hx	272	
Hy	278	
Lx	272	
Ly	278	

Factory Menu Name	Data	Range
sSCC Const		
sSCC Hx	550	
sSCC Hy	556	
sSCC Lx	598	
sSCC Ly	550	
pSCC Const		
pSCC Hx	550	
pSCC Hy	566	
pSCC Lx	598	
pSCC Ly	550	
SCC Source Data	PBA	
SWAP	PBA	

## ■ SVC

Factory Menu Name	Data	Range
<b>Test Pattern</b>		
LOGIC Pattern Sel	...	
LOGIC Level Sel	...	
NT72312 Pre Test Pattern	0	
NT72312 Post Test Pattern	0	
NT72312 PC mode ON/OFF	OFF	
<b>Panel Auto Setting</b>		
Panel Display Time	21Hr	
Logic Usb D/L	...	
<b>Tuner Status</b>		
<b>T-CON Usb Download</b>		
T-CON CheckSum	0x3076	
Tuner Margin	10	
CAM Wait Time	1500	
MICOM UPGRADE	Off	
BT ADDRESS	8cc8cdc192da	
BT UPGRADE		
BT FREEPAIRING	ON	
BT ER COUNT	0	
T-CON TEMP READ	50.05	
TEMP LAST	50.05	
DCC VERSION	0x2C39	
DCC CHK SEL	0	

Factory Menu Name	Data	Range
DCC CHECK LOCAL	0x2131	
DCC CHECK TOTAL		
TS Clock delay	0	
Wifi Fail	...	
TS Clock Delay TC	0	
TS Clock Delay S	0	
Delete S/N		
SVC Reset		
Debug Log Down		

## ■ Expert

Factory Menu Name	Data	Range
N/D ADJ		
Source		

## ■ ADC/WB

Factory Menu Name	Data	Range
<b>ADC</b>		
AV Calibration	Success	
Comp Calibraion	Success	
PC Calibration	Success	
HDMI Calibration	Success	
<b>ADC Target</b>		
1st_AV_Low	64	
1st_AV_High	880	
1st_AV_Delta	2	
1st_COMP_Y_Low	64	
1st_COMP_Cb_Low	512	
1st_COMP_Cr_Low	512	
1st_COMP_Y_High	940	
1st_COMP_Cb_High	512	
1st_COMP_Cr_High	512	
1st_COMP_Delta	2	
1st_PC_Low	4	
1st_PC_High	1016	
1st_PC_Delta	2	
2nd_ACH_Low	4	
2nd_ACH_High	940	
2nd_PC_Low	4	

#### 4. Troubleshooting

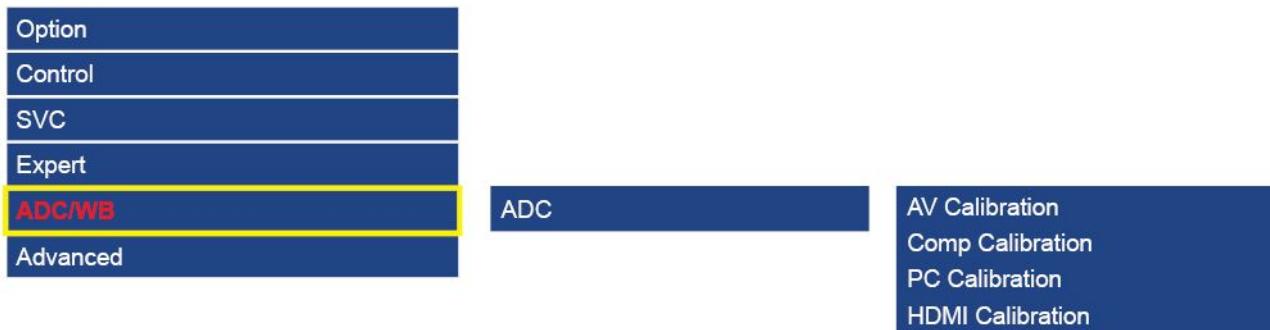
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Factory Menu Name	Data	Range
2nd_PC_High	940	
2nd_Delta	2	
<b>ADC Result</b>		
1st_Y_GH	134	
1st_Y_GL	126	
1st_Cb_BH	...	
1st_Cb_BL	...	
1st_Cr_RH	...	
1st_Cr_RL	...	
2nd_R_L	133	
2nd_G_L	133	
2nd_B_L	133	
2nd_R_H	69	
2nd_G_H	69	
2nd_B_H	69	
<b>White Balance</b>		
Sub Brightness	128	
R-Offset	128	
G-Offset	128	
B-Offset	128	
Sub Contrast	128	
R-Gain	128	
G-Gain	128	
B-Gain	128	
Movie R-Offset	...	
Movie B-Offset	...	
Movie R-Gain	...	
Movie B-Gain	...	

## 4.4. White Balance

### 4-4-1. Calibration

1. Into the Factory Mode.
2. Select SVC Menu.
3. Select ADC/WB menu.
4. Select ADC menu.



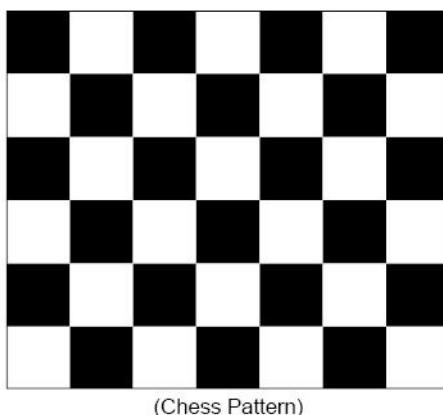
### 4-4-2. Service Adjustment

You must perform Calibration in the Lattice Pattern before adjusting the White Balance.

#### ■ Color Calibration

- Adjust Specification

Source	Setting Mode	Pattern	Use Equipment
HDMI	1280 x 720@60 Hz	Pattern #24 (Chess Pattern)	CA210 & Master MSPG925 Generator



(Chess Pattern)

- Use other equipment only after comparing the result with that of the Master equipment.

Input mode	Calibration	Pattern
CVBS IN (Model_#1)	Perform in NTSC B&W Pattern #24	Lattice
Component IN (Model_#6)	Perform in 720p B&W Pattern #24	Lattice
PC Analog IN (Model_#21)	Perform in VESA XGA (1024x768) B&W Pattern #24	Lattice
HDMI IN	Perform in 720p B&W Pattern #24	Lattice

## ■ Method of Color Calibration (AV)

1. Apply the NTSC Lattice (N0. 3) pattern signal to the AV IN 1 port.
2. Press the Source key to switch to "AV1" mode.
3. Enter Service mode.
4. Select the "ADC" menu.
5. Select the "AV Calibration" menu.
6. In "AV Calibration Off" status, press the "▶" key to perform Calibration.
7. When Calibration is complete, it returns to the high-level menu.
8. You can see the change of the "AV Calibration" status from Failure to Success.

## ■ Method of Color Calibration (Component)

1. Apply the 720p Lattice (N0. 6) pattern signal to the Component IN 1 port.
2. Press the Source key to switch to "Component1" mode.
3. Enter Service mode.
4. Select the "ADC" menu.
5. Select the "Comp Calibration" menu.
6. In "Comp Calibration Off" status, press the "▶" key to perform Calibration.
7. When Calibration is complete, it returns to the high-level menu.
8. You can see the change of the "Comp Calibration" status from Failure to Success.

## ■ Method of Color Calibration (PC)

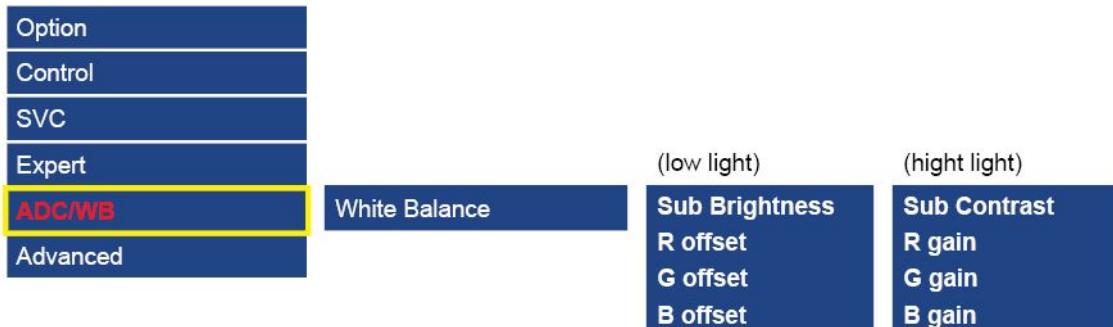
1. Apply the VESA XGA Lattice (N0. 21) pattern signal to the PC IN port.
2. Press the Source key to switch to "PC" mode.
3. Enter Service mode.
4. Select the "ADC" menu.
5. Select the "PC Calibration" menu.
6. In "PC Calibration Off" status, press the "▶" key to perform Calibration.
7. When Calibration is complete, it returns to the high-level menu.
8. You can see the change of the "PC Calibration" status from Failure to Success.

## ■ Method of Color Calibration (HDMI)

1. Apply the 720p Lattice (N0. 6) pattern signal to the HDMI1/DVI IN port.
2. Press the Source key to switch to "HDMI1" mode.
3. Enter Service mode.
4. Select the "ADC" menu.
5. Select the "HDMI Calibration" menu.
6. In "HDMI Calibration Off" status, press the "▶" key to perform Calibration.
7. When Calibration is complete, it returns to the high-level menu.
8. You can see the change of the "HDMI Calibration" status from Failure to Success.

### 4-4-3. Adjustment

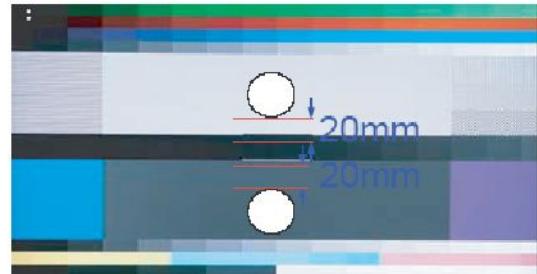
1. Into the Factory Mode.
2. Select SVC Menu.
3. Select ADC/WB menu.
4. Select White Balance menu.



## 4.5. White Ratio (Balance) Adjustment

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

- Equipment : CS-210
- Pattern: MIK K-7256 #92 "Flat W/B Pattern" as standard
- Altenate Equipmet : CA200& anyone Master supported pattern#92(refer to right photo)
- Use other Equipment only after comparing the result with that of the Master equipment.
- Set Aging time : 60 min



### Calibration and Manual setting for WB adjustment

- HDMI : Calibration at #24 Chessboard Pattern Manual adjustment at #92 pattern (720p)
- COMP: Calibration at #24 Chessboard Pattern Manual adjustment at #92 pattern (720p)
- CVBS: Calibration at #24 Chessboard Pattern Manual adjustment at #92 pattern (NTSC)



#### NOTE

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

## 4.6. Software Upgrade

Software Upgrade can be performed by downloading the latest firmware from [samsung.com](http://samsung.com) to a USB memory device.

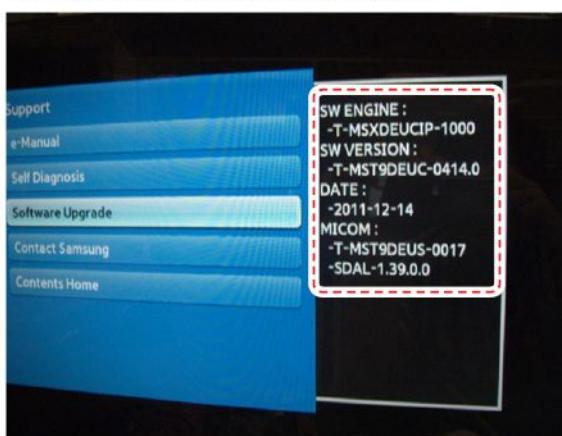
- Current Version - The software already installed in the TV.

Software is represented as 'Year/Month/Day\_Version'.

### 4-6-1. How to Check the Software Version

#### ■ Use the Main Menu

1. Click the "MENU" key in remote controller.
2. Select "Support" menu.
3. Locate the menu cursor "Software Upgrade" menu.
4. Click the "INFO" key.
  - Check the Main SW and Micom version.



#### ■ Use the Factory Mode

<b>Option</b>	T-NVTE5DEUC-xxxx
<b>Control</b>	T-NVTE5DEUS-xxxx
<b>SVC</b>	E-Manual : NVDVBEU4E-xxxx
<b>Expert</b>	EDID SUCCESS
<b>ADC/WB</b>	HDCP SUCCESS
<b>Advanced</b>	CALIB : AV/COMP/PC/HDMI/ Option : 32A1AF6D,EU,6030,NONE FactoryCS : 0x61c5d5cd T-NVTDEUCIP-1000



Software Version : Asia T-NVTE5DAAC-xxxx  
T-NVTE5DAAC-xxxx

## 4-6-2. How to Upgrade Software

1. Insert a USB drive containing the firmware upgrade downloaded from [samsung.com](http://samsung.com) into the TV.



Please be careful not to disconnect the power or remove the USB drive while upgrades are being applied.

2. The TV will turn off and turn on automatically after completing the firmware upgrade.
3. Please check the firmware version after the upgrades are complete.
  - the new version will have a higher number than the older version.



- When software is upgraded, video and audio settings you have made will return to their default (factory) settings.
- We recommend you write down your settings before beginning firmware update.

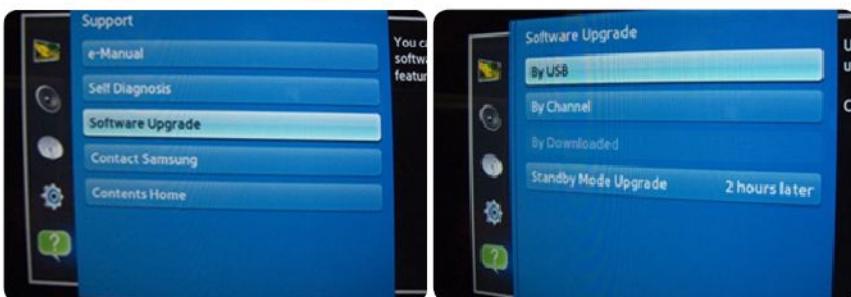
4. After update is completed, restore your previous settings.

### ■ Main Software Upgrade

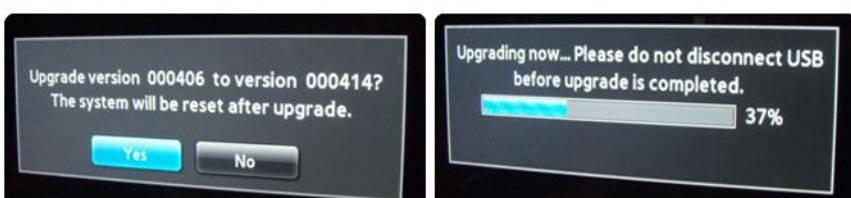
1. Store the sw program named "T-NVTE5DEUC / T-NVTE5DAAC" in USB memory stick.



2. Click the "MENU" key in Remote Controller.
3. Select "Support - Software Upgrade - By USB" menu.

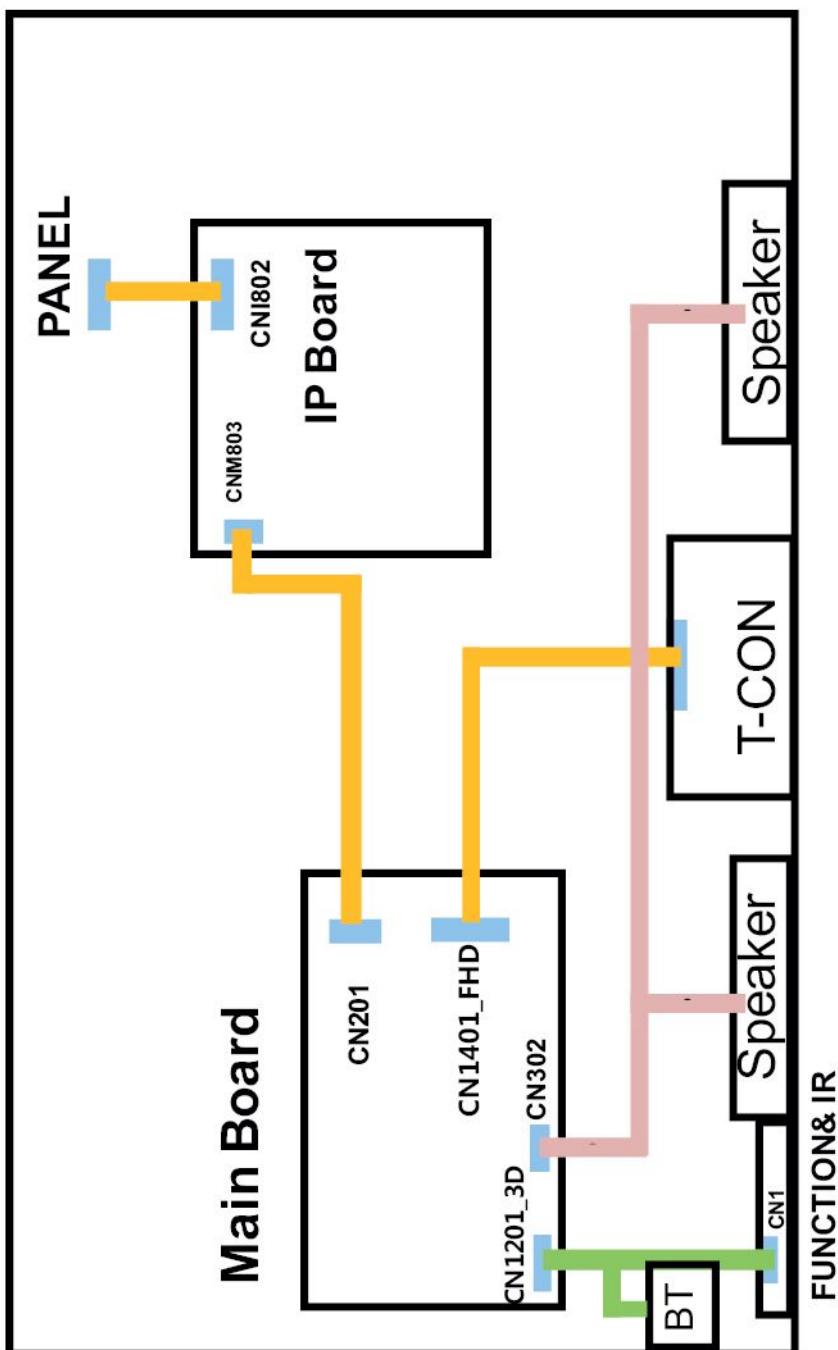


4. Click the "ENTER" key.
  - Wait for upgrade complete.
  - Check the Software Version.



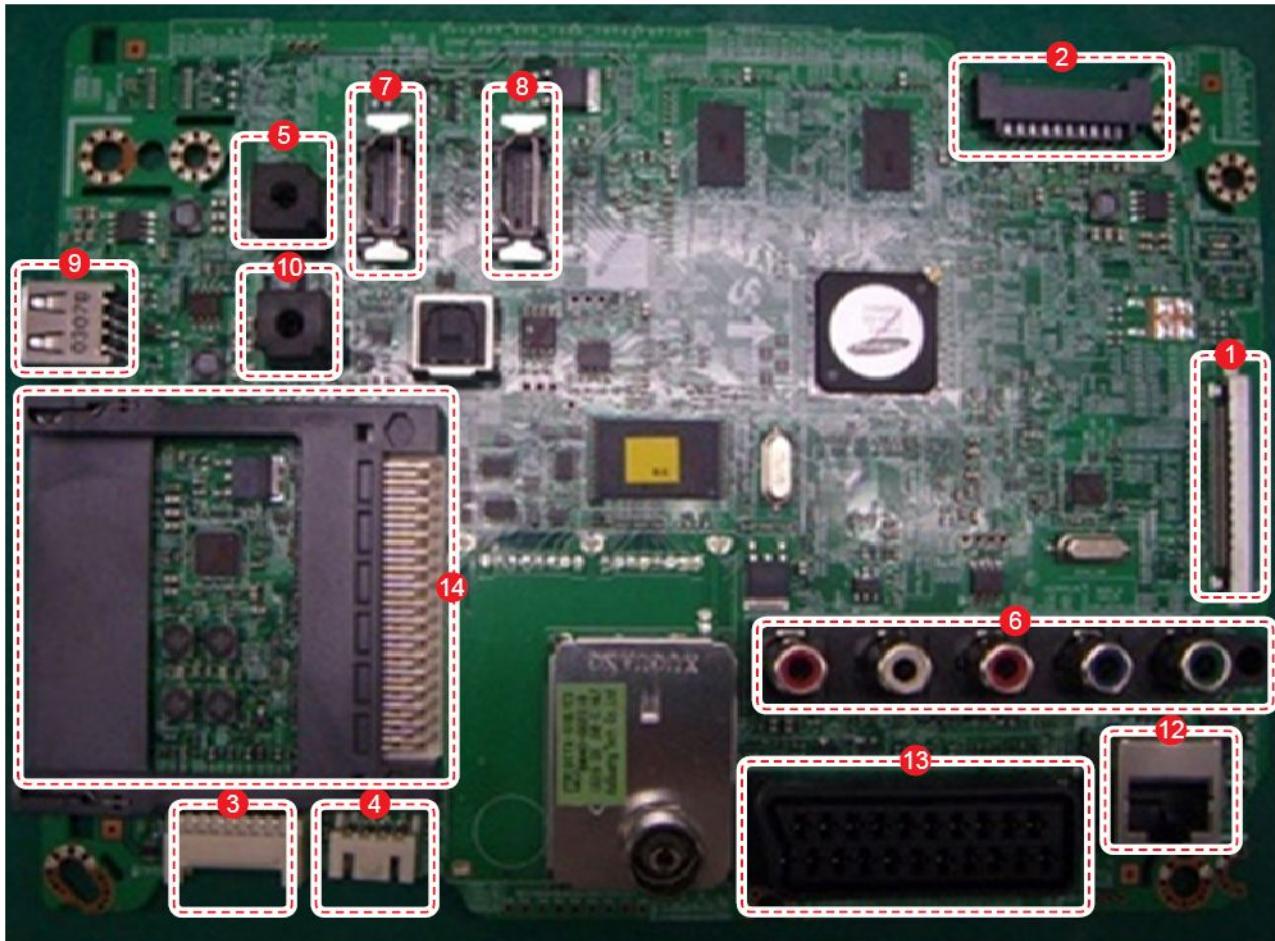
## 5. Wiring Diagram

### 5.1. Wiring Diagram



## 5.2. Connector

### ■ Main Board

**① CN1401\_FHD (to Panel)**

1	NC	14	EVEN_TX4+_LVDS
2	GND	15	EVEN_TX4-_LVDS
3	NC	16	EVEN_TX3+_LVDS
4	NC	17	EVEN_TX3-_LVDS
5	NC	18	GND
6	NC	19	EVEN_TXCLK+_LVDS
7	GND	20	EVEN_TXCLK-_LVDS
8	TCON_SDA	21	GND
9	PANEL_I2C_EN	22	EVEN_TX2+_LVDS
10	NC	23	EVEN_TX2-_LVDS
11	NC	24	EVEN_TX1+_LVDS
12	TCON_SCL	25	EVEN_TX1-_LVDS
13	GND	26	EVEN_TX0+_LVDS

**① CN1401\_FHD (to Panel)**

27	EVEN_TX0-_LVDS	40	ODD_TX1-_LVDS
28	GND	41	ODD_TX0+_LVDS
29	ODD_TX4+_LVDS	42	ODD_TX0-_LVDS
30	ODD_TX4-_LVDS	43	GND
31	ODD_TX3+_LVDS	44	GND
32	ODD_TX3-_LVDS	45	GND
33	GND	46	NC
34	ODD_TXCLK+_LVDS	47	Panel_13V_PW
35	ODD_TXCLK-_LVDS	48	Panel_13V_PW
36	GND	49	Panel_13V_PW
37	ODD_TX2+_LVDS	50	Panel_13V_PW
38	ODD_TX2-_LVDS	51	Panel_13V_PW
39	ODD_TX1+_LVDS		

<b>② CN201 (to Powr board)</b>			
1	B5.3V	11	B13V
2	SW_POWER_OUT	12	B13V
3	B5.3V	13	B13V
4	A5.3V	14	PWM_DIMM1_OUT
5	GND	15	GND
6	GND	16	PWM_DIMM2_OUT
7	B12VS	17	OVD_ON_OFF
8	GND	18	PWM_DIMM3_OUT
9	B12VS	19	NC
10	SW_INVERTER	20	PWM_DIMM4_OUT

<b>⑦ CN601_H1 (HDMI1)</b>			
1	HDMI1_RX2+	11	GND
2	GND	12	HDMI1_RXCLK-
3	HDMI1_RX2-	13	HDMI_CEC
4	HDMI1_RX1+	14	GND
5	GND	15	SCL
6	HDMI1_RX1-	16	SDA
7	HDMI1_RX0+	17	GND
8	GND	18	5V
9	HDMI1_RX0-	19	HPD
10	HDMI1_RXCLK+		

<b>③ CN1201_F18 (FUNCTION)</b>			
1	IR	10	USB_BT_DM
2	FRAME_SYNC_IN	11	KEY_INPUT1
3	GND	12	GND
4	BT_SYNC	13	KEY_INPUT2
5	A3.3V	14	BT_WAKE
6	GND	15	LED_STB
7	MSCL	16	POWER_DET
8	USB_BT_DP	17	NC
9	MSDA	18	NC

<b>⑧ CN602_H2 (HDMI2)</b>			
1	HDMI2_RX2+	11	GND
2	GND	12	HDMI2_RXCLK-
3	HDMI2_RX2-	13	HDMI_CEC
4	HDMI2_RX1+	14	GND
5	GND	15	SCL
6	HDMI2_RX1-	16	SDA
7	HDMI2_RX0+	17	GND
8	GND	18	5V
9	HDMI2_RX0-	19	HPD
10	HDMI2_RXCLK+		

<b>④ CN302 (SPEAKER)</b>			
1	R+	3	L+
2	R-	4	L-

<b>⑨ CN1502_U2 (USB1)</b>			
1	USB_VCC	3	USB_DP
2	USB_DM	4	GND

<b>⑤ CN1203(DEBUG)</b>			
1	GND	4	DEBUG_TX
2	DEBUG_RX	5	DEBUG_TX
3	DEBUG_TX	6	GND

<b>⑩ CN402(DVI SOUND OUT)</b>			
1	GND	4	NC
2	DVI_SR_OUT	5	NC
3	DVI_SL_OUT	6	NC

<b>⑥ CN502(COMPONENT)</b>			
1	GND	9	COMP2_PR
2	COMP2_Y_CVBS	10	GND
3	IDENT_VIDEO2	11	COMP2_AV2_SL_IN
4	GND	12	COMP2_AV2_SR_IN
5	COMP2_PB	13	GND
6	IDENT_COMP2	14	COMP2_AV2_SR_IN
7	GND	15	COMP2_AV2_SL_IN
8	COMP2_PR		

<b>⑪ OP301 (OPTICAL)</b>			
1	SPDIF_OUT	3	GND
2	GND		

<b>⑫ CN1401_LAN (LAN)</b>			
1	LAN_TXD+	5	B2.5V_PW
2	B2.5V_PW	6	LAN_RXD-
3	LAN_TXD-	7	NC
4	LAN_RXD+	8	GND

## 5. Wiring Diagram

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<b> CN404_SC (SCART, EU Only)</b>			
1	SC_SR_OUT	12	NC
2	SC_SR_IN	13	GND
3	SC_SL_OUT	14	GND
4	GND	15	SC_R
5	GND	16	SC_FB
6	SC_SL_IN	17	GND
7	SC_B	18	GND
8	IDENT_SC	19	SC_CVBS_OUT
9	GND	20	SC_CVBS_IN
10	NC	21	GND
11	SC_G		

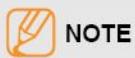
<b> CN1301_CI (PCMCIA, EU Only)</b>			
1	GND	35	GND
2	EXT_DATA[3]	36	PCM_CD1
3	EXT_DATA[4]	37	TSO_DATA[3]
4	EXT_DATA[5]	38	TSO_DATA[4]
5	EXT_DATA[6]	39	TSO_DATA[5]
6	EXT_DATA[7]	40	TSO_DATA[6]
7	PCM_CE1	41	TSO_DATA[7]
8	EXT_ADDR[10]	42	PCM_CE2
9	PCM_OE	43	NC
10	EXT_ADDR[11]	44	PCM_IORD
11	EXT_ADDR[9]	45	PCM_IOWR
12	EXT_ADDR[8]	46	CH_START
13	EXT_ADDR[13]	47	CH_DATA[0]
14	EXT_ADDR[14]	48	CH_DATA[1]
15	PCM_WE	49	CH_DATA[2]
16	PCM IRQA	50	CH_DATA[3]
17	CI_VCC	51	CI_VCC
18	CI_VCC	52	CI_VCC
19	CH_VALID	53	CH_DATA[4]
20	CH_CLK	54	CH_DATA[5]
21	EXT_ADDR[12]	55	CH_DATA[6]
22	EXT_ADDR[7]	56	CH_DATA[7]
23	EXT_ADDR[6]	57	TSO_CLK
24	EXT_ADDR[5]	58	PCM_RESET
25	EXT_ADDR[4]	59	PCM_WAIT
26	EXT_ADDR[3]	60	NC
27	EXT_ADDR[2]	61	PCM_REG
28	EXT_ADDR[1]	62	TSO_VALID
29	EXT_ADDR[0]	63	TSO_START
30	EXT_DATA[0]	64	TSO_DATA[0]
31	EXT_DATA[1]	65	TSO_DATA[1]
32	EXT_DATA[2]	66	TSO_DATA[2]
33	CI_VCC	67	GND
34	GND	68	GND

### 5.3. Connector Functions

Connector	Function
CN201 ↔ IP CNM803	Supply main power and dimming signal from IP Board to Main Board.
CN1401_FHD ↔ T-CON CNF1	The LVDS signal transferred from Main Board to Panel.

## 5.4. Cables

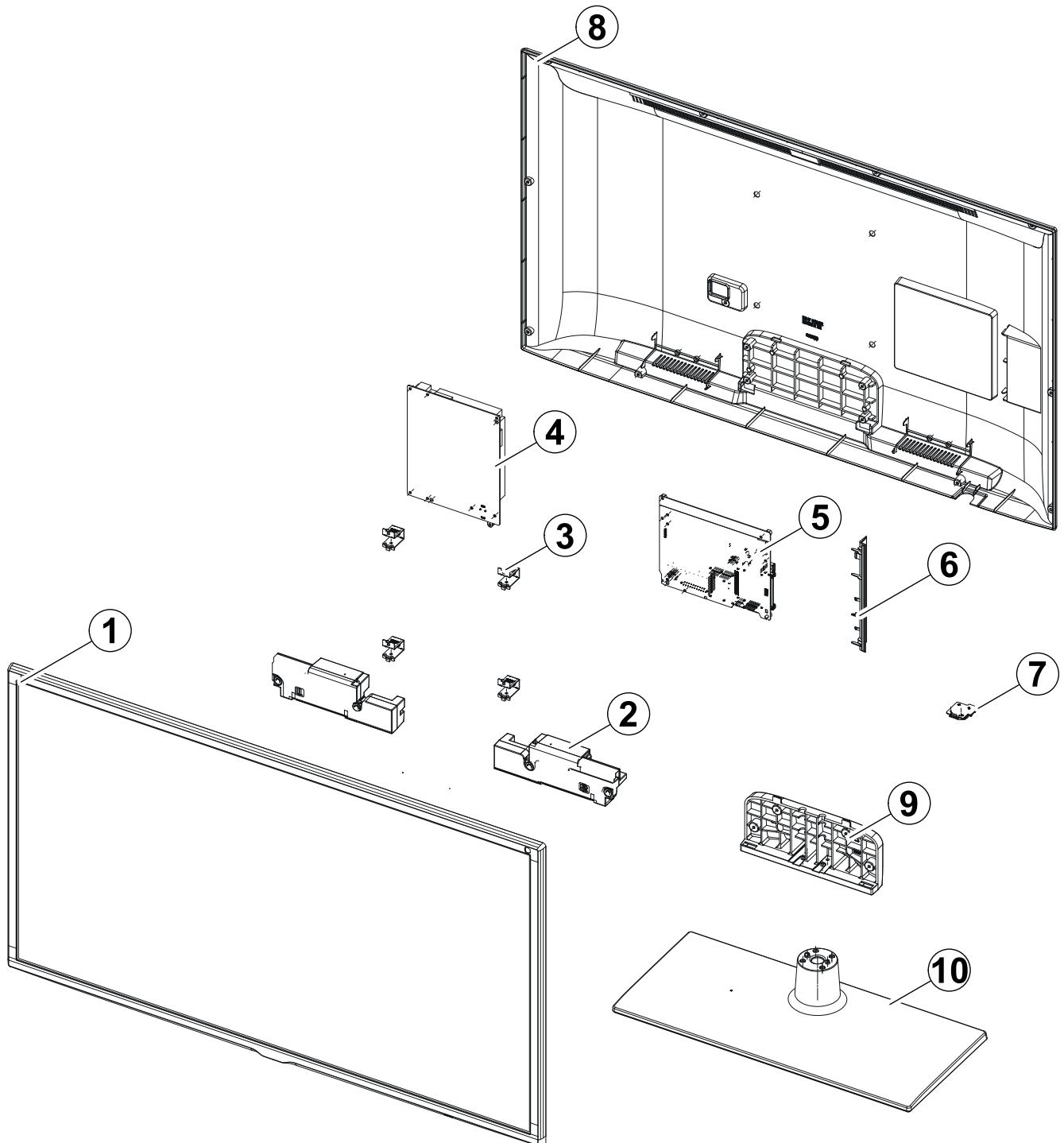
Use	LEAD (Main - IP 20P)	LVDS CALBE (Main - Panel 51P)
Code No.	32" : BN39-01475D 40" : BN39-01475N 46" : BN39-01475H 55" : BN39-01475P	32" : BN96-23839D 40" : BN96-22239D 46" : BN96-22239E 55" : BN96-22239F
Image		



The part code for some cables may differ depending on your region.

## 1. Exploded View Part List

### Exploded View



**Parts List**

No.	Parent	Lvl.	Loc.	Material Code	Description & Specification	S/N	Qty.
1	B 91 9431A	2	PA E	B 95 69 A	PRODUCT CD AM CD E6 3 32 3D Direct	SA	1
2	B 91 96 C	2	SP 1A	B 96 21669	ASS SPEA ER P 6ohm 4pin 1 WUE6 3 32	SA	1
3	B 96 24224A	3	CB2	B 61 952A	BRAC ET WA UE5 4 E I SECC P T1.2	S A	4
4	B 91 96 C	2	P 1A	B 44 551C	DC SS ED T PD BD PD32C 1 CHS PD32C 1	SA	1
5	B 91 9535	2	M 14	B 94 591 E	ASS PCB MAI UA32EH6 3 R	SA	1
6	B 91 96 C	2		B 61 8 46E	HO DER SIDE A UE6 3 32 4 46 SO(Ready)	S A	1
	B 91 96 C	2	FB 1A	B 96 23838B	ASS BOARD P O SWITCH IR U 32EH6 3	SA	1
8	B 9 4 99C	2	R 1	B 63 9 51C	CO ER REAR UE6 3 32 SO(Ready) HIPS HB B	S A	1
9	B 9 383 D	2	S 1A	B 96 21 41D	ASS UIDE P STA D UE4 32 W W ABS HB	SA	1
1	B 9 383 D	2	SB 4A	B 96 21 35F	ASS STA D P BASE UE5 32 W W ABS HB B	SA	1

## 2. Electrical Parts List

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SN
			UA32EH6030RLXL (TH02)		
1	S 1A	B 9 383 D	ASS STA D UEH5 32 W W	1	S A
.2	SB 4A	B 96 21 35F	ASS STA D P BASE UE5 32 W W ABS HB B	1	SA
.3	CCM1	B 63 2183	CO ER SHEET Rhcm PE inyl T .43 MM 2		S A
.3		B 63 4 55	CO ER SHEET 32 C35 PET .5 W18 mm 2 M	1	S A
.3		B 63 9 94A	CO ER STA D BASE UE5 32 W W ABS HB B	1	S A
.3		B 3 313A	RUBBER FOOT UD4 19 RUBBER 13 13 T2.		S A
.2	S 1A	B 96 21 41D	ASS UIDE P STA D UE4 32 W W ABS HB	1	SA
.3	T 524	69 2 1 48	BA PE DPE T .5 W16 3 TRP4g	1	S A
.3	S 3	B 61 94 A	UIDE STA D UE5 32 W W ABS HB B	1	S A
.3		B 96 18 13E	ASS ACCESSOR SCREW 6 3 1 82 4EA A	2	S A
.4	SCREW	6 3 1 82	SCREW TAPT PE BH BM4 12 PC(B ) SWR	8	SA
.4	T 524	69 2 341	BA PE DPE T .5 9 W TRP PE MAR	2	S A
1	R 1A	B 9 4 99C	ASS CO ER REAR UE6 3 32 SO(READ )	1	S A
.2		6 1 2 55	SCREW MACHI E BH M3 6 PC(B ) SWRCH1	4	SA
.2	SCREW	6 3 1 82	SCREW TAPT PE BH BM4 12 PC(B ) SWR	1	SA
.2	R 1	B 63 9 51C	CO ER REAR UE6 3 32 SO(Ready) HIPS HB B	1	S A
1		B 91 9431A	ASS CM AM CD B 95 69 A	1	S A
.2	PA E	B 95 69 A	PRODUCT CD AM CD E6 3 32 3D Direct	1	SA
.3	TCO	B 95 692A	ASS T CO S 32 HW 2 E FHD 12 H	1	SA
1	M 1	B 91 9535	ASS CHASSIS UA32EH6 3 R	1	S A
.2	M 14	B 94 591 E	ASS PCB MAI UA32EH6 3 R	1	SA
.3		2 2 16 8	SO DER WIRE F U FC 1 D .899.3Sn .		S A
.3		B 6 364A	RUBBER UE32EH5 RUBBER 1 1 9T1 1	1	S A
.3	T 52	B 68 513A	ABE E PASS A MODE UPO(11 )5 15	1	S A
.3		B 9 6866A	ASS DRM E O ATE CI E HDCP MAC	1	S A
.4		B 46 1 9H	E CODE CERTIFI MAC T A general	1	S A
.4		B 46 2 1A	E CODE CERTIFI CI T 2 12 Euro	1	S A
.3		B 9 6888A	ASS SMD UA32EH6 3 R	1	S A
.4		2 2 14	SO DER CREAM ST3 9 M D2 45um 96.5Sn 3A		S A
.4		4 3 1 85	DIODE E ER H5 1B 4.94 5.2 5 mW SOD	1	SA
.4		4 3 1 9	DIODE E ER H3 B 2.85 3.15 5 mW SOD	1	S A
.4	D 254	4 4 14 4	DIODE SCHOTT BAT 21C 4 2 mA SOT 23	1	SA
.4	T 139	4 6 12	DIODE T SRC AMP 5 4F6 15 WSC	2	SA
.4	T 139	4 6 12 1	DIODE T SRC AMP 524P6 15 WS P251	1	S A
.4	SD3	4 114	DIODE SWITCHI DS184 8 1 mA SOT 23	1	S A
.4	1 1	5 1 445	TR SMA SI A TC38 5S P 15 mW SOT	5	SC
.4	CE 2	5 5 11	FET SI ICO 2 2 6 115mA .5ohm .	2	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4	IC112	11 3 131	IC EEPROM 2 bit 256 8 SOIC 8 3 5 4mm 2.	1	S A
...4		11 3 1531	IC EEPROM S 24C256CI 8T1U4 256 bit 32	1	SA
...4		11 5 2161	IC DDR3 SDRAM 4B2 1646C HCH9 1333 DDR3	2	S A
...4		12 1 3333	IC POWER AMP TP 412S M F48P mm DUA	1	S A
...4		12 3 4364	IC O . DETECTOR RT9818C 42P SOT 23 3P	1	SA
...4		12 3 6 1	IC O . DETECTOR RT9824 8 TSOT23 8P 2.9	1	SA
...4	T 8	12 3 61 9	IC POSI.FI ED RE . S 12 6B33 M3T1 SOT 2	1	SA
...4	T 8	12 3 613	IC POSI.FI ED RE . S 11 2B25 U5T1 SOT 8	1	SA
...4	T 8	12 3 6135	IC POSI.FI ED RE . AP111 D 33 13 89 T	1	SA
...4	T 8	12 3 6136	IC POSI.FI ED RE . AP111 D 18 13 89 T	1	SA
...4	IC 12	12 3 6138	IC POSI.AD UST RE . AP111 D 13 89 TO 2	1	SA
...4		12 3 6684	IC DC DC CO ERTER TPS5432 DDAR HSOP8 8P	1	S A
...4		12 3 8	IC DC DC CO ERTER AO 1 51PI SO 8 8P 4.9	2	SA
...4		12 4 3369	IC DECODER FB A 585P2 .2 2 .2mm P ASTI	1	SA
...4		12 5 3834	IC ETHER ET CO TRO ER RT 82 1E C RT	1	SA
...4		12 5 444	IC SWITCH TPS2 51CDB R SOT23 5 5P3 1.65	1	SA
...4		14 5 12 1	ARISTOR 35 2 dc 5A 1. .5 .6mm TP1	2	SA
...4	R1 5	2 138	R CHIP 1 ohm 5 1 16W TP1 5	25	SA
...4	AR49	2 14	R CHIP 1 ohm 5 1 16W TP1 5	6	S A
...4	A R 3	2 142	R CHIP 2. ohm 5 1 16W TP1 5	2	SA
...4	R319	2 143	R CHIP 4. ohm 5 1 16W TP1 5	61	S A
...4	R1 4	2 148	R CHIP 1 ohm 5 1 16W TP1 5	38	SA
...4	R1 2	2 149	R CHIP 12 ohm 5 1 16W TP1 5	2	SA
...4	MR36	2 153	R CHIP 22 ohm 5 1 16W TP1 5	2	S A
...4	MR13	2 15	R CHIP 4 ohm 5 1 16W TP1 5	4	S A
...4	R123	2 159	R CHIP 56 ohm 5 1 16W TP1 5	1	S A
...4	DR39	2 162	R CHIP 1 ohm 5 1 16W TP1 5	6	S A
...4	MR16	2 168	R CHIP 4 ohm 5 1 16W TP1 5	1	SA
...4	R5 9	2 1	R CHIP 1Mohm 5 1 16W TP1 5	1	S A
...4	R111	2 1 1	R CHIP ohm 5 1 16W TP1 5	4	S A
...4	HDR1	2 1 2	R CHIP 1 ohm 5 1 16W TP1 5	2	S A
...4	R338	2 1 3	R CHIP 22ohm 5 1 16W TP1 5	6	S A
...4	UR23	2 1 4	R CHIP 4 ohm 5 1 16W TP1 5	2	S A
...4	MR39	2 242	R CHIP 1.5 ohm 5 1 16W TP1 5	1	S A
...4	R8	2 256	R CHIP 1.6 ohm 1 1 1 WTP16 8	1	SA
...4	PR6	2 583	R CHIP 22 ohm 1 1 1 WTP16 8	1	SA
...4	S F 5222	691	R CHIP 3.3Mohm 5 1 1 WTP16 8	1	SA
...4	R 26	2 695	R CHIP 3.3ohm 5 1 1 WTP16 8	4	S A
...4	R124	2 5	R CHIP 33 ohm 5 1 16W TP1 5	1	S A
...4	DR3	2 932	R CHIP 4 ohm 5 1 16W TP1 5	3	S A

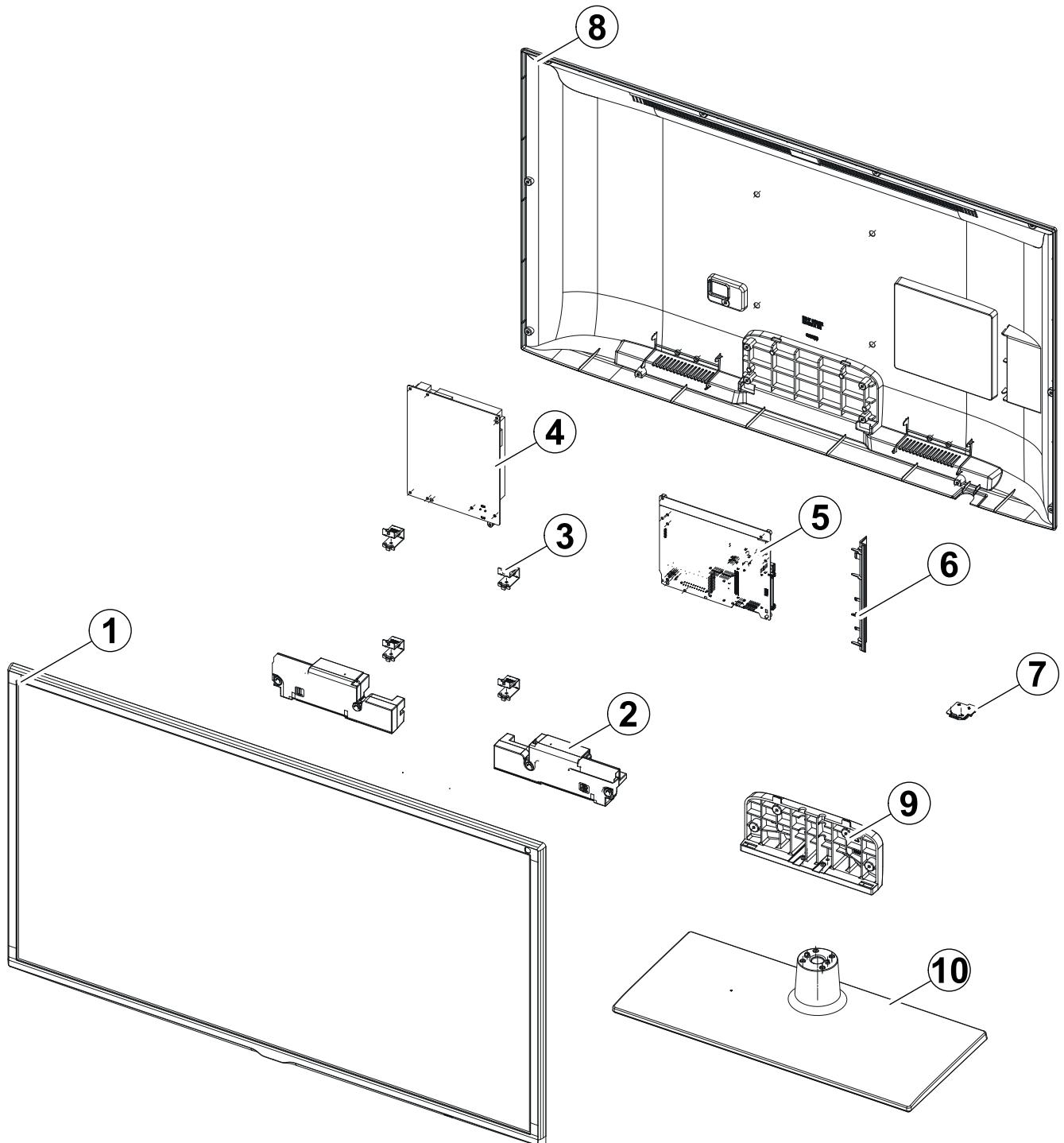
Level	Loc.	Part Code	Description & Specification	Qty.	SA/SN
...4	S1 8432	1125	R CHIP 68 ohm 1 1 1 WTP16 8	1	SA
...4	OTR1	2 1292	R CHIP 33ohm 5 1 16W TP1 5	8	S A
...4	R16	2 1313	R CHIP 33 ohm 5 1 16W TP1 5	2	S A
...4	HR1	2 132	R CHIP 1.8 ohm 5 1 16W TP1 5	2	SA
...4	R326	2 1325	R CHIP 3.3 ohm 5 1 16W TP1 5	1	S A
...4	MR316	2 2 96	R CHIP 51 ohm 5 1 16W TP1 5	2	SA
...4		2 8	R CHIP 3 ohm 5 1 16W TP1 5	1	SA
...4	DR4	2 142	R CHIP 1 ohm 1 1 16W TP1 5	2	S A
...4		2 156	R CHIP 1ohm 5 1 16W TP1 5	14	SA
...4		2 3 6	R CHIP 1 ohm 1 1 16W TP1 5	1	S A
...4		2 315	R CHIP 3.9 ohm 1 1 16W TP1 5	1	S A
...4		2 31	R CHIP 2.2 ohm 1 1 16W TP1 5	1	SA
...4		2 318	R CHIP 1 ohm 1 1 16W TP1 5	19	S A
...4		2 463	R CHIP 1.1 ohm 1 1 16W TP1 5	2	SA
...4		2 51	R CHIP 24 ohm 1 1 16W TP1 5	2	S A
...4		2 538	R CHIP 56 ohm 1 1 16W TP1 5	1	SA
...4		2 61	R CHIP 2.49 ohm 1 1 1 WTP16 8	1	SA
...4		2 6 1	R CHIP 11 ohm 1 1 16W TP1 5	2	SA
...4		2 69	R CHIP 2.4 ohm 1 1 16W TP1 5	1	S A
...4	MR11	2 8 15	R CHIP 5ohm 1 1 16W TP1 5	3	S A
...4		2 811	R CHIP 2. ohm 1 1 16W TP1 5	1	SA
...4		2 82 5	R CHIP 3 ohm 1 1 16W TP1 5	2	S A
...4		2 83 9	R CHIP 3 .4ohm 1 1 16W TP1 5	1	S A
...4		2 8649	R CHIP 22 ohm 1 1 16W TP1 5	1	S A
...4		2 8 9	R CHIP ohm 1 1 16W TP1 5	2	SA
...4		2 11 142	R ETWOR ohm 5 1 16W CHIP8PTP2.	4	SA
...4		2 11 1449	R ETWOR 22ohm 5 1 16W 4PTP1 1	4	SA
...4		2 11 1519	R ETWOR 33OHM 5 1 16W CHIP4PTP1.	2	SA
...4	PC43	22 3 233	C CER CHIP .1nF 5 5 C TP1 5	6	SA
...4	DC54	22 3 2 8	C CER CHIP . 1nF .5pF 5 C TP1 5	5	SA
...4	DC1	22 3 386	C CER CHIP . 15nF 5 5 C TP1 5	2	SA
...4	C254	22 3 438	C CER CHIP 1nF 1 5 R TP1 5	6	SA
...4	C5	22 3 489	C CER CHIP 2.2nF 1 5 R TP1 5	3	SA
...4	AD48	22 3 53	C CER CHIP 2. nF 1 5 R TP1 5	1	S A
...4	1233	22 3 5 5	C CER CHIP 22 nF 1 25 R TP2 12	4	S A
...4	MC9	22 3 62	C CER CHIP . 22nF 5 5 C TP1 5	1	S A
...4	AD48	22 3 14	C CER CHIP 3.3nF 1 5 R TP1 5	6	SA
...4	DC25	22 3 812	C CER CHIP . 33nF 5 5 C TP1 5	2	S A
...4	AD48	22 3 995	C CER CHIP . 4 nF 5 5 C TP1 5	3	SA
...4	AD48	22 3 1412	C CER CHIP . 3nF 5 5 P TP1 5	5	S A

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4	AD48	22 3 2285	C CER CHIP 1 nF1 5 R TP1 5	12	S A
...4	AC2	22 3 2 11	C CER CHIP 1 nF1 25 R TP16 8	4	SA
...4	C151	22 3 3 39	C CER CHIP .8nF .25pF5 C TP1	2	SA
...4	AAC1	22 3 5249	C CER CHIP 1 nF1 5 R TP16 8	12	S A
...4	C3	22 3 6 48	C CER CHIP 1 nF1 1 R TP1 5	111	SA
...4	AD48	22 3 6126	C CER CHIP 4 nF1 16 R TP1 5	1	S A
...4	C1	22 3 6324	C CER CHIP 22 nF1 1 5R TP16 8	2	SA
...4	C8 2	22 3 6348	C CER CHIP 1 nF1 25 5R TP16 8	1	SA
...4	C125	22 3 6361	C CER CHIP 1 nF1 1 5R TP2 12	2	SC
...4	AD48	22 3 642	C CER CHIP 4 nF1 16 5R TP2 12	2	SA
...4	HE4	22 3 64 4	C CER CHIP 22 nF2 6.3 5R TP2 12	12	SA
...4	HDC11	22 3 6562	C CER CHIP 1 nF1 1 5R TP1 5	8	S A
...4	AD48	22 3 6824	C CER CHIP 4 nF1 1 5R TP16 8	1	S A
...4	AD48	22 3 6842	C CER CHIP .4 nF5 5 C TP1 5	3	S A
...4	C23	22 3 689	C CER CHIP 1 nF2 6.3 5R TP16 8	31	S A
...4	AD48	22 3 1 6	C CER CHIP 1 nF1 16 5R TP2 12 1	6	S A
...4	AD48	22 3 513	C CER CHIP 1 nF1 1 5R TP16 8	3	SA
...4	T 52	2 3 158	I DUCTOR SMD 1uH 1 2 12 .4ohm 5 mA 45	2	S A
...4		2 3 1938	I DUCTOR SMD 56nH 5 1 5 1.5ohm 2 mA 1	2	SA
...4	T 52	2 3 3149	I DUCTOR SMD 2.2uH 2 5 5 .5 ohm 31	3	SA
...4		2 3 393	I DUCTOR SMD 4. uH 2 5 5 .6 ohm 23	4	SA
...4	2 2	28 1 3 3	CR STA SMD 12MH 3 ppm 28 AA 2 pF5 oh	1	SA
...4	2 2	28 1 4 34	CR STA SMD 25. MH 2 ppm 28 AA 12	1	SA
...4	T 568	33 1 2 39	BEAD SMD 26ohm 16 8 TP	5	SA
...4		3 1 1 84	CO ECTOR HDMI 19P2ROW FEMAE SMD S AU	2	SA
...4	HB 1A	3 11 5925	HEADER BOARD TO CAB E BO 51P1R .5mm S	1	SA
...4		3 11 585	CO ECTOR HEADER BO 4P1R 2.5mm A E D	1	SA
...4		3 11 58	CO ECTOR HEADER BO 18P2R 2mm A E DI	1	SA
...4	EH 1	3 11 42	HEADER BOARD TO CAB E BO 2 P2R 2mm A	1	SA
...4		3 22 3225	AC USB 4P 1C Au B SMD A(DIP) A	1	SA
...4		3 22 3226	AC PHO E P 1CS B	1	SA
...4		3 22 3229	AC MODU AR 8P 8C W STRAI HT Au 1	1	SA
...4		3 22 3439	AC PHO E 4P 1CS B	1	SA
...4		3 22 3546	AC PI 5P Screw hole I S B U RED	1	SA
...4	ET 1	B 4 231B	TU ER DTT 51B C3 DTT 51B C3 D B TC Hal	1	SA
...4		B 41 1894A	PCB MAI FR 4 4 1.2T 192 141 1	1	S A
...4		B 9 6823A	ASS MICOM T TE4DEUCS U 4D2 12. 3	1	S A
....5		11 2 6	IC OR F ASH W25 4 B SSIP4Mbit SOP8P5	1	S A
...4		B 9 6851A	ASS MICOM T TE5DAAC U 4D2 12. 3.	1	S A
....5		11 2 4	IC A DF ASH 9F2 8U CS2 bit 256M 8b	1	S A

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SN
....5		B 46 262H	S W E M A U A O A T E A S 2 E F R A A R A P E	1	S A
....5		B 46 265A	S W M I C O M T T E 5 D A A C E P E R H E B R	1	S A
..3	T 66	BP62 1 A	HEAT SI ES SP 5 2H A6 63S T2. 26.2	1	S A
1		B 91 96 C	ASS SHIE D U A 32 E H 6 3 R	1	S A
.2	CIS1	2 3 1586	TAPE FI AME T 893 .15 3 55 WHT FI AME		S A
.2		6 1 2 56	SCREW MACHI E BH M3 6 PC(WHT) SWRCH1	14	SA
.2	EC13	B 39 14 5D	EAD CO ECTOR UE3 C64 Flat Connector	1	SA
.2	P 1A	B 44 551C	DC SS ED T PD BD PD32C 1 CHS PD32C 1	1	SA
.2		B 61 8 46E	HO DER SIDE A UE6 3 32 4 46 SO(Ready)	1	S A
.2	SP 1A	B 96 21669	ASS SPEA ER P 60hm 4pin 1 W U E6 3 32	1	SA
.2	FB 1A	B 96 23838B	ASS BOARD P O SWITCH IR U 32 E H 6 3	1	SA
.2	F 6	B 96 23839D	ASS CAB E P FFC UE32ES6 3 FFC 256mm 51	1	SA
.2	CB25A	B 96 24224A	ASS BRAC ET P WA UE5 4 E I SECC P	4	S A
..3		B 6 188E	SPACER FOAM ED FE T 2 2. 2 Center	4	S A
..3	CB2	B 61 952A	BRAC ET WA UE5 4 E I SECC P T1.2	4	S A
1		B 92 1 894	ASS BO UE6 3 32 SO( )	1	S A
.2	CCM1	BH68 5 2	ABE RATI 15 1 OEM MO ITOR SIE F	1	S A
.2		B 69 8 6H	BO SET 32UE6 3 CB A 1 SW2 E W888 D1	1	S A
1		B 92 1 895B	ASS P MATERIA UE6 3 32	1	S A
.2	M 4	6922 13	BA D PP PP W18 23 29 TRP		S A
.2		B 63 6219A	SHEET RO HDPE ITRO .15 W8 1	1	S A
.2		B 63 9235A	SHEET RO HDPE HDPE .48 MM 5 M	1	S A
.2		B 69 95A	CUSHION SET 32UE6 3 SS EPS 16. g 1	1	S A
.2		B 4 8E	TAPE OPP MAS I OPPT .5 W 5 4 M C R	2	S A
1	ACCE1	B 92 1 925T	ASS ACCESSOR UA32EH6 3 R	1	S A
.2	3D A	B 96 229 2A	ASS ACCESSOR 3D ASSES SS 41 BI	1	SA
.2	ACCE4	B 96 2391	ASS ACCESSOR MA UA UA32EH6 3 R	1	S A
..3	T 524	69 2 361	BA PE DPE T .5 W4 24 TRP 8 2 8.	1	S A
..3	T 511	B 68 968F	MA UA USERS A32R81BM T SIE E ISH	1	S A
..3		B 68 4463A	MA UA USERS UEH6 3 SAMSU E ASIA RE	1	S A
.2	ACCE2	B 96 24132A	ASS ACCESSOR CABE UA32EH6 3 R	1	S A
..3	T 268	39 3 6 5	CBF POWER CORD DTI DIA P 25 2.5A	1	SA
..3	T 12	43 1 121	BATTER M 1.5 R 3 1 .5 44.5m HO DER .	2	S A
..3	M 254	AA59 416B	A T SHIE D BO U C AS 3A PA B D IM	1	SA
..3	REMO2	AA59 6 8A	REMOCO TM124 44 ey3 Ready(Asia) PDP	1	SA
..3		B 61 5491A	HO DER WIRE STA D UB 46inch RO	1	S A
1		B 92 11 3E	ASS ABE UA32EH6 3 R	1	S A
.2		B 68 4181U	ABE ED POP EH6 3 PETT .12 262 i	1	S A
.2		B 68 441 B	ABE ED HI H I HT STIC ER E49 ME ICO	1	S A
.2	T 52	BP68 52B	ABE RATI FPT PETT .5 93 3	1	S A

# 1. Exploded View Part List

## Exploded View



**Parts List**

No.	Parent	Lvl.	Loc.	Material Code	Description & Specification	S/N	Qty.
1	B 91 9433A	2	PA E	B 95 699A	PRODUCT CD AM CD E6 3 4 3D Direct	SA	1
2	B 91 96 8C	2	SP 1A	B 96 21669H	ASS SPEA ER P 6ohm 4pin 1 WUE6 3 46	SA	1
3	B 91 96 8C	2	CB2	B 61 952A	BRAC ET WA UE5 4 E I SECC P T1.2	S A	4
4	B 91 96 8C	2		B 44 552B	DC SS ED T PD BD PD46C 1 CSM PS F93	SA	1
5	B 91 9535H	2	M 14	B 94 591 F	ASS PCB MAI UA4 EH6 3 R	SA	1
6	B 91 96 8C	2		B 61 8 46E	HO DER SIDE A UE6 3 32 4 46 SO(Ready)	S A	1
	B 91 96 8C	2	FB 1A	B 96 23838C	ASS BOARD P O SWITCH IR U 4 EH6 3	SA	1
8	B 9 41 D	2	R 1	B 63 9 52D	CO ER REAR UE6 3 4 SO(Ready) HIPS HB B	S A	1
9	B 96 22 85A	3	S 1A	B 96 21 42C	ASS UIDE P STA D UE5 4 46 55 W WP	SA	1
1	B 96 22 83C	3	SB 4A	B 96 21 36E	ASS STA D P BASE UE5 4 46 W W ABS H	SA	1

## 2. Electrical Parts List

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SN
			UA 0EH6030RMXL (TS0 )		
1	S 1A	B 9 3831C	ASS STA D UEH5 4 46 W W	1	S A
.2	SB 4A	B 96 22 83C	ASS STA D P BASE DPB 96 21 36E UE5	1	S A
..3	T 214	2 3 1269	TAPE OPP MAS I 3 1 T .6 W 5 5		S A
..3		69 2 3 9	BA AIR DPE T .2 W1 18 TRP 126 .	1	S A
..3		69 2 6 4	BA WRAPPI DPE T .2 W5 1 TRP		S A
..3		69 2 611	BA RO HDPE ITRO T1. 5 45446.4 g		S A
..3	M 4	6922 3	BA D PP PPT .8 W18 165 M TRP DA69 9 14		S A
..3		AA61 3 9A	OC ER BA D C IP SPC 1 18MM T .5	1	S A
..3		AA69 5536E	PAD T PE CHA E CB TW49 525	1	S A
..3		AA69 555 U	MASTER CARTO CB DW 2 112 55 195	1	S A
..3		AA69 5564	PAD P ATE CB DW 545 525	1	S A
..3		AA69 5565	PAD P ATE CB TW 233 525	1	S A
..3		AA69 5566	PA ETC D 4 C D PAPER 114 11 12	1	S A
..3		B 69 391T	PAD A E CB T5 W195 5 E 42 . g	1	S A
..3	SB 4A	B 96 21 36E	ASS STA D P BASE UE5 4 46 W W ABS H	1	SA
..4	SCREW	6 3 1 82	SCREW TAPT PE BH B M4 12 PC(B ) SWR	3	SA
..4	SCREW	6 3 1 85	SCREW TAPT PE FH B M4 8 PC(B ) SWRC	6	SA
..4	S 1	B 61 8 36A	UIDE STA D EC UE5 4 PC F2 2	1	S A
..4		B 61 81 5A	BRAC ET STA D BOTTOM UE5 4 46 E I S	1	S A
..4	CCM1	B 63 2183D	CO ER SHEET Rhcm PE inyl T .5 68 mm 2		S A
..4		B 63 4 55	CO ER SHEET 42PC45 PE T .5 W25 mm 2 M	1	S A
..4		B 63 9 84A	CO ER STA D BASE UE5 4 46 W W ABS H	1	S A
..4		B 3 313A	RUBBER FOOT UD4 19 RUBBER 13 13 T2.		S A
.2		B 96 22 85A	ASS UIDE P STA D DPB 96 21 42C UE5	1	SA
..3		AA69 54 1T	PA ETC D 4 C D PAPER 1 9 59 12	1	S A
..3		AA69 5564	PAD P ATE CB DW 565 52	1	S A
..3		AA69 5565	PAD P ATE CB TW 563 24	1	S A
..3		AA69 55 S	MASTER CARTO CB DW 2 5 5 53 265	1	S A
..3		AA69 55 2	PAD CROSS CB DW 563 24	1	S A
..3		AA69 55 2H	PAD CROSS CB DW 485 24 .	1	S A
..3	S 1A	B 96 21 42C	ASS UIDE P STA D UE5 4 46 55 W WP	1	SA
..4	T 524	69 2 1 63	BA PE DPE T .5 W18 35 TRP REC C E	1	S A
..4	S 3	B 61 941A	UIDE STA D UE5 6 4 46 55 W W PC	1	S A
..4		B 68 4 2 C	MA UA F ER 3 STA D UIDE U4 (32) SA	1	S A
..4		B 96 18 13E	ASS ACCESSOR SCREW 6 3 1 82 4EA A	2	S A
....5	SCREW	6 3 1 82	SCREW TAPT PE BH B M4 12 PC(B ) SWR	8	SA
....5	T 524	69 2 341	BA PE DPE T .5 9 W TRP PE MAR	2	S A

Exploded View and Parts List

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
1	R 1A	B 9 41 D	ASS CO ER REAR UE6 3 4 SO(READ )	1	S A
.2		6 1 2 55	SCREW MACHI E BH M3 6 PC(B ) SWRCH1	4	SA
.2	SCREW	6 3 1 82	SCREW TAPT PE BH B M4 12 PC(B ) SWR	12	SA
.2	R 1	B 63 9 52D	CO ER REAR UE6 3 4 SO(Ready) HIPS HB B	1	S A
1		B 91 9433A	ASS CM AM CD B 95 699A	1	S A
.2	PA E	B 95 699A	PRODUCT CD AM CD E6 3 4 3D Direct	1	SA
1	M 1	B 91 9535H	ASS CHASSIS UA4 EH6 3 R	1	S A
.2	M 14	B 94 591 F	ASS PCB MAI UA4 EH6 3 R	1	SA
.3		B 6 364A	RUBBER UE32EH5 RUBBER 1 1 9T1 1	1	S A
.3	T 52	B 68 513A	ABE E PASS A MODE UPO(11 )5 15	1	S A
.3		B 9 6866A	ASS DRM E O ATE CI E HDCP MAC	1	S A
.4		B 46 1 9H	E CODE CERTIFI MAC T A eneral	1	S A
.4		B 46 2 1A	E CODE CERTIFI CI T 2 12 Euro	1	S A
.3		B 9 6888A	ASS SMD UA32EH6 3 R	1	S A
.4		2 2 14	SO DER CREAM ST3 9 M D2 45um 96.5Sn 3A		S A
.4		4 3 1 85	DIODE E ER H5 1B 4.94 5.2 5 mW SOD	1	SA
.4		4 3 1 9	DIODE E ER H3 B 2.85 3.15 5 mW SOD	1	S A
.4	D 254	4 4 14 4	DIODE SCHOTT BAT 21C 4 2 mA SOT 23	1	SA
.4	T 139	4 6 12	DIODE T S RC AMP 5 4F6 15 WSC	2	SA
.4	T 139	4 6 12 1	DIODE T S RC AMP 524P6 15 WS P251	1	S A
.4	SD3	4 114	DIODE SWITCHI DS184 8 1 mA SOT 23	1	S A
.4	1 1	5 1 445	TR SMA SI A TC38 5S P 15 mW SOT	5	SC
.4	CE 2	5 5 11	FET SI ICO 2 2 6 115mA .5ohm .	2	SA
.4	IC112	11 3 131	IC EEPROM 2 bit 256 8 SOIC 8 3 5 4mm 2.	1	S A
.4		11 3 1531	IC EEPROM S 24C256CI 8T1U4 256 bit 32	1	SA
.4		11 5 2161	IC DDR3 SDRAM 4B2 1646C HCH9 1333 DDR3	2	S A
.4		12 1 3333	IC POWER AMP TP 412S M F48P mm DUA	1	S A
.4		12 3 4364	IC O . DETECTOR RT9818C 42P SOT 23 3P	1	SA
.4		12 3 6 1	IC O . DETECTOR RT9824 8 TSOT23 8P 2.9	1	SA
.4	T 8	12 3 61 9	IC POSI.FI ED RE . S 12 6B33 M3T1 SOT 2	1	SA
.4	T 8	12 3 613	IC POSI.FI ED RE . S 11 2B25 U5T1 SOT 8	1	SA
.4	T 8	12 3 6135	IC POSI.FI ED RE . AP111 D 33 13 89 T	1	SA
.4	T 8	12 3 6136	IC POSI.FI ED RE . AP111 D 18 13 89 T	1	SA
.4	IC 12	12 3 6138	IC POSI.AD UST RE . AP111 D 13 89 TO 2	1	SA
.4		12 3 6684	IC DC DC CO ERTER TPS5432 DDAR HSOP8 8P	1	S A
.4		12 3 8	IC DC DC CO ERTER AO 1 51PI SO 8 8P4.9	2	SA
.4		12 4 3369	IC DECODER FB A 585P2 .2 2 .2mm P ASTI	1	SA
.4		12 5 3834	IC ETHER ET CO TRO ER RT 82 1E C RT	1	SA
.4		12 5 444	IC SWITCH TPS2 51CDB R SOT23 5 5P3 1.65	1	SA
.4		14 5 12 1	ARISTOR 35 2 dc 5A 1. .5 .6mm TP 1	2	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SN
...4	R1_5	2 138	R CHIP 1 ohm 5 116WTP1 5	25	SA
...4	AR49	2 14	R CHIP 1 ohm 5 116WTP1 5	6	S A
...4	A_R_3	2 142	R CHIP 2. ohm 5 116WTP1 5	2	SA
...4	R319	2 143	R CHIP 4. ohm 5 116WTP1 5	61	S A
...4	R1_4	2 148	R CHIP 1 ohm 5 116WTP1 5	38	SA
...4	R1_2	2 149	R CHIP 12 ohm 5 116WTP1 5	2	SA
...4	MR36	2 153	R CHIP 22 ohm 5 116WTP1 5	2	S A
...4	MR13	2 15	R CHIP 4 ohm 5 116WTP1 5	4	S A
...4	R123	2 159	R CHIP 56 ohm 5 116WTP1 5	1	S A
...4	DR39	2 162	R CHIP 1 ohm 5 116WTP1 5	6	S A
...4	MR16	2 168	R CHIP 4 ohm 5 116WTP1 5	1	S A
...4	R5_9	2 1	R CHIP 1Mohm 5 116WTP1 5	1	S A
...4	R111	2 1 1	R CHIP ohm 5 116WTP1 5	4	S A
...4	HDR1	2 1 2	R CHIP 1 ohm 5 116WTP1 5	2	S A
...4	R338	2 1 3	R CHIP 22ohm 5 116WTP1 5	6	S A
...4	UR23	2 1 4	R CHIP 4 ohm 5 116WTP1 5	2	S A
...4	MR39	2 242	R CHIP 1.5 ohm 5 116WTP1 5	1	S A
...4	R8	2 256	R CHIP 1.6 ohm 1 11 WTP16 8	1	SA
...4	PR6	2 583	R CHIP 22 ohm 1 11 WTP16 8	1	SA
...4	S_F_52	2 691	R CHIP 3.3Mohm 5 11 WTP16 8	1	SA
...4	R_26	2 695	R CHIP 3.3ohm 5 11 WTP16 8	4	S A
...4	R124	2 5	R CHIP 33 ohm 5 116WTP1 5	1	S A
...4	DR3	2 932	R CHIP 4 ohm 5 116WTP1 5	3	S A
...4	S1_84	2 1125	R CHIP 68 ohm 1 11 WTP16 8	1	SA
...4	OTR1	2 1292	R CHIP 33ohm 5 116WTP1 5	8	S A
...4	R16	2 1313	R CHIP 33 ohm 5 116WTP1 5	2	S A
...4	HR1	2 132	R CHIP 1.8 ohm 5 116WTP1 5	2	SA
...4	R326	2 1325	R CHIP 3.3 ohm 5 116WTP1 5	1	S A
...4	MR316	2 2 96	R CHIP 51 ohm 5 116WTP1 5	2	SA
...4		2 8	R CHIP 3 ohm 5 116WTP1 5	1	S A
...4	DR4	2 142	R CHIP 1 ohm 1 116WTP1 5	2	S A
...4		2 156	R CHIP 1ohm 5 116WTP1 5	14	SA
...4		2 3 6	R CHIP 1 ohm 1 116WTP1 5	1	S A
...4		2 315	R CHIP 3.9 ohm 1 116WTP1 5	1	S A
...4		2 31	R CHIP 2.2 ohm 1 116WTP1 5	1	SA
...4		2 318	R CHIP 1 ohm 1 116WTP1 5	19	S A
...4		2 463	R CHIP 1.1 ohm 1 116WTP1 5	2	SA
...4		2 51	R CHIP 24 ohm 1 116WTP1 5	2	S A
...4		2 538	R CHIP 56 ohm 1 116WTP1 5	1	SA
...4		2 61	R CHIP 2.49 ohm 1 11 WTP16 8	1	SA

Exploded View and Parts List

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4		2 6 1	R CHIP 11 ohm 1 1 16W TP1 5	2	SA
...4		2 69	R CHIP 2.4 ohm 1 1 16W TP1 5	1	SA
...4	MR11	2 8 15	R CHIP 5ohm 1 1 16W TP1 5	3	S A
...4		2 811	R CHIP 2. ohm 1 1 16W TP1 5	1	SA
...4		2 82 5	R CHIP 3 ohm 1 1 16W TP1 5	2	S A
...4		2 83 9	R CHIP 3 .4ohm 1 1 16W TP1 5	1	S A
...4		2 8649	R CHIP 22 ohm 1 1 16W TP1 5	1	S A
...4		2 8 9	R CHIP ohm 1 1 16W TP1 5	2	SA
...4		2 11 142	R ETWOR ohm 5 1 16W CHIP8PTP2.	4	SA
...4		2 11 1449	R ETWOR 22ohm 5 1 16W 4PTP1 1	4	SA
...4		2 11 1519	R ETWOR 33OHM 5 1 16W CHIP4PTP1.	2	SA
...4	PC43	22 3 233	C CER CHIP .1nF 5 5 C TP1 5	6	SA
...4	DC54	22 3 2 8	C CER CHIP .1nF .5pF 5 C TP1 5	5	SA
...4	DC1	22 3 386	C CER CHIP .15nF 5 5 C TP1 5	2	SA
...4	C254	22 3 438	C CER CHIP 1nF 1 5 R TP1 5	6	SA
...4	C5	22 3 489	C CER CHIP 2.2nF 1 5 R TP1 5	3	SA
...4	AD48	22 3 53	C CER CHIP 2. nF 1 5 R TP1 5	1	S A
...4	1233	22 3 5 5	C CER CHIP 22 nF 1 25 R TP2 12	4	S A
...4	MC9	22 3 62	C CER CHIP .22nF 5 5 C TP1 5	1	SA
...4	AD48	22 3 14	C CER CHIP 3.3nF 1 5 R TP1 5	6	SA
...4	DC25	22 3 812	C CER CHIP .33nF 5 5 C TP1 5	2	S A
...4	AD48	22 3 995	C CER CHIP .4 nF 5 5 C TP1 5	3	SA
...4	AD48	22 3 1412	C CER CHIP .3nF 5 5 P TP1 5	5	S A
...4	AD48	22 3 2285	C CER CHIP 1 nF 1 5 R TP1 5	12	S A
...4	AC2	22 3 2 11	C CER CHIP 1 nF 1 25 R TP16 8	4	SA
...4	C151	22 3 3 39	C CER CHIP .8nF .25pF 5 C TP1	2	SA
...4	AAC1	22 3 5249	C CER CHIP 1 nF 1 5 R TP16 8	12	S A
...4	C3	22 3 6 48	C CER CHIP 1 nF 1 1 R TP1 5	111	SA
...4	AD48	22 3 6126	C CER CHIP 4 nF 1 16 R TP1 5	1	S A
...4	C1	22 3 6324	C CER CHIP 22 nF 1 1 5R TP16 8	2	SA
...4	C8 2	22 3 6348	C CER CHIP 1 nF 1 25 5R TP16 8	1	SA
...4	C125	22 3 6361	C CER CHIP 1 nF 1 1 5R TP2 12	2	SC
...4	AD48	22 3 642	C CER CHIP 4 nF 1 16 5R TP2 12	2	SA
...4	HE4	22 3 64 4	C CER CHIP 22 nF 2 6.3 5R TP2 12	12	SA
...4	HDC11	22 3 6562	C CER CHIP 1 nF 1 1 5R TP1 5	8	SA
...4	AD48	22 3 6824	C CER CHIP 4 nF 1 1 5R TP16 8	1	S A
...4	AD48	22 3 6842	C CER CHIP .4 nF 5 5 C TP1 5	3	S A
...4	C23	22 3 689	C CER CHIP 1 nF 2 6.3 5R TP16 8	31	S A
...4	AD48	22 3 1 6	C CER CHIP 1 nF 1 16 5R TP2 12 1	6	S A
...4	AD48	22 3 513	C CER CHIP 1 nF 1 1 5R TP16 8	3	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SN
..4	T 52	2 3 158	I DUCTOR SMD 1uH 1 2 12 .4ohm 5 mA 45	2	SA
..4		2 3 1938	I DUCTOR SMD 56nH 5 1 5 1.5ohm 2 mA 1	2	SA
..4	T 52	2 3 3149	I DUCTOR SMD 2.2uH 2 5 5 .5 ohm 31	3	SA
..4		2 3 393	I DUCTOR SMD 4. uH 2 5 5 .6 ohm 23	4	SA
..4	2 2	28 1 3 3	CR STA SMD 12MH 3 ppm 28 AA 2 pF 5 oh	1	SA
..4	2 2	28 1 4 34	CR STA SMD 25. MH 2 ppm 28 AA 12	1	SA
..4	T 568	33 1 2 39	BEAD SMD 26ohm 16 8 TP	5	SA
..4		3 1 1 84	CO ECTOR HDMI 19P2ROW FEMAE SMD S AU	2	SA
..4	HB 1A	3 11 5925	HEADER BOARD TO CAB E BO 51P1R .5mm S	1	SA
..4		3 11 585	CO ECTOR HEADER BO 4P1R 2.5mm A E D	1	SA
..4		3 11 58	CO ECTOR HEADER BO 18P2R 2mm A E DI	1	SA
..4	EH 1	3 11 42	HEADER BOARD TO CAB E BO 2 P2R 2mm A	1	SA
..4		3 22 3225	AC USB 4P 1C Au B SMD A(DIP) A	1	SA
..4		3 22 3226	AC PHO E P1CS B	1	SA
..4		3 22 3229	AC MODU AR 8P 8C W STRAI HT Au 1	1	SA
..4		3 22 3439	AC PHO E 4P 1C S B	1	SA
..4		3 22 3546	AC PI 5P Screw hole I S B U RED	1	SA
..4	ET 1	B 4 231B	TU ER DTT 51B C3 DTT 51B C3 D B TC Hal	1	SA
..4		B 41 1894A	PCB MAI FR 4 4 1.2T 192 141 1	1	SA
..4		B 9 6823A	ASS MICOM T TE4DEUCS U 4D 2 12. 3	1	SA
....5		11 2 6	IC OR F ASH W25 4 B SSIP4Mbit SOP8P5	1	SA
..4		B 9 6851A	ASS MICOM T TE5DAAC U 4D 2 12. 3.	1	SA
....5		11 2 4	IC A D F ASH 9F2 8U C S 2 bit 256M 8b	1	SA
....5		B 46 262H	SWE MA UA O ATE AS2 E FRA ARA PE	1	SA
....5		B 46 265A	S W MICOM T TE5DAAC E PER HEB R	1	SA
..3	T 66	BP62 1 A	HEAT SI ES SP 5 2H A6 63S T2. 26.2	1	SA
1		B 91 96 8C	ASS SHIE D U A4 EH6 3 R	1	SA
.2	CIS1	2 3 1586	TAPE FI AME T 893 .15 3 55 WHT FI AME		SA
.2		6 1 2 56	SCREW MACHI E BH M3 6 PC(WHT) SWRCH1	14	SA
.2	EC13	B 39 14 5	EAD CO ECTOR U 4 EH6 3 Flat Connector	1	SA
.2		B 44 552B	DC SS ED T PD BD PD46C 1 CSM PS F93	1	SA
.2	CB2	B 61 952A	BRAC ET WA UE5 4 E I SECC P T1.2	4	SA
.2		B 61 8 46E	HO DER SIDE A UE6 3 32 4 46 SO(Ready)	1	SA
.2	SP 1A	B 96 21669H	ASS SPEA ER P 6ohm 4pin 1 W U E6 3 46	1	SA
.2	F 6	B 96 22239D	ASS CAB E P FFC U 4 EH6 M FFC 239m	1	SA
.2	FB 1A	B 96 23838C	ASS BOARD P O SWITCH IR U 4 EH6 3	1	SA
1		B 92 1 896	ASS BO UE6 3 4 SO( )	1	SA
.2		B 68 3869A	ABE BO UA32D4 Paper 85 9	1	SA
.2		B 69 8	BO SET 4 UE6 3 SS CB A 1 SW2 E W1 9	1	SA
1		B 92 1 89 A	ASS P MATERIA UE6 3 4 UO	1	SA

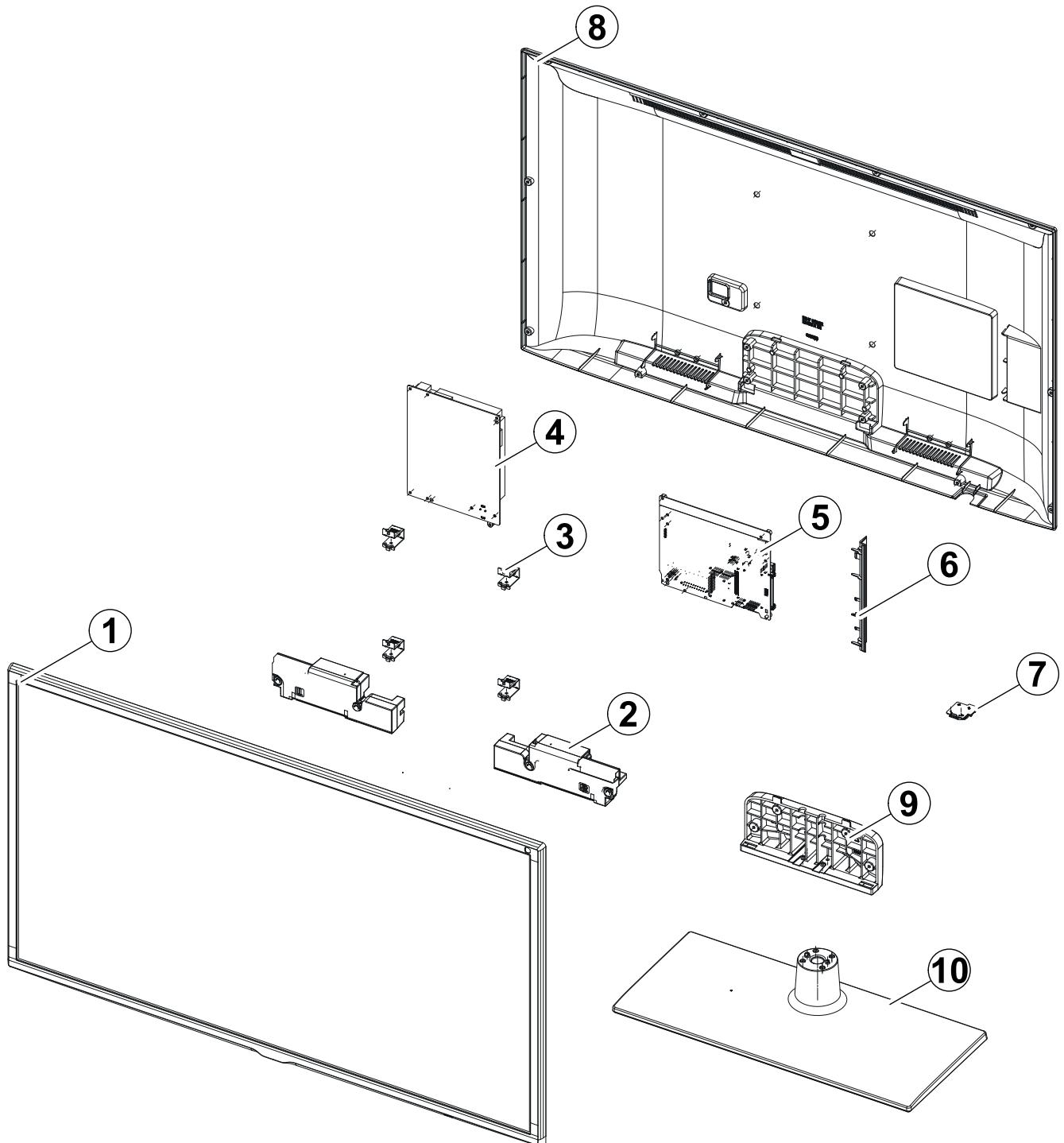
Exploded View and Parts List

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
.2	M 4	6922 13	BA D PP PPW18 23 29 TRP	1	S A
.2		B 63 9235A	SHEET RO HDPE HDPE .48 MM 5 M	2	S A
.2		B 69 96A	CUSHION SET 4 UE6 3 SS EPS	1	S A
.2		B 4 8E	TAPE OPP MAS I OPPT .5 W 5 4 MC R	2	S A
1	ACCE1	B 92 1 925T	ASS ACCESSOR UA32EH6 3 R	1	S A
.2	3D A	B 96 229 2A	ASS ACCESSOR 3D ASSES SS 41 BI	1	S A
.2	ACCE4	B 96 2391	ASS ACCESSOR MA UA UA32EH6 3 R	1	S A
..3		68 1 1984	CARD WARRA T I DIA SIE E ISH ART PAP	1	S A
..3		69 2 144	BA PE HDPE T .4 W24 24 TRP1	1	S A
..3		AA68 3242M	EAF ET 8 SAFET UIDE comm Samsung Eng	1	S A
..3		B 68 968	MA UA USERS CD ED SIE E ISH I DIA	1	S A
..3		B 68 142 C	EAF ET SAFET OTICE FOR A TE A All mo	1	S A
..3		B 68 3865A	EAF ET PRC FPT SAMSU E ASIA READ	1	S A
..3		B 68 42 4B	MA UA F ER 2 3D ASSES UIDE SS 41	1	S A
..3		B 68 4463A	MA UA USERS UEH6 3 SAMSU E ASIA RE	1	S A
.2	ACCE2	B 96 24132A	ASS ACCESSOR CABE UA32EH6 3 R	1	S A
..3	T 268	39 3 6 5	CBF POWER CORD DTI DIA P 25 2.5A	1	S A
..3	T 12	43 1 121	BATTER M 1.5 R 3 1 .5 44.5m HO DER .	2	S A
..3	T 524	69 2 36	BA PE HDPE T .4 W23 33 TRP8 1	1	S A
..3	M 254	AA59 416B	A T SHIE D BO U C AS 3A PA B D IM	1	S A
..3	REMO2	AA59 6 8A	REMOCO TM124 44 ey3 Ready(Asia) PDP	1	S A
1		B 92 11 3E	ASS ABE UA32EH6 3 R	1	S A
.2		B 68 31 5A	ABE CAUTIO A32C53 P C .5 mm 16 45	1	S A
.2		B 68 4181U	ABE ED POP EH6 3 PETT .12 262 i	1	S A
.2		B 68 441 B	ABE ED HI H I HT STIC ER E49 ME ICO	1	S A
.2	T 52	BP68 52B	ABE RATI FPT PETT .5 93 3	1	S A

## 1. Exploded View Part List

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### Exploded View



**Parts List**

No.	Parent	Lvl.	Loc.	Material Code	Description & Specification	S/N	Qty.
1	B 91 9435A	2	PA E	B 95 1A	PRODUCT CD AM CD E6 3 46 3D Direct	SA	1
2	B 91 96 9C	2	SP 1A	B 96 21669	ASS SPEAKER P 6ohm 4pin 1 WUE6 3 55	SA	1
3	B 91 96 9C	2	CB2	B 61 953A	BRACKET WAUE5 46 E I SECC P T1.2	S A	4
4	B 91 96 9C	2		B 44 552B	DCSS EDT PD BD PD46C 1 CSM PS F93	SA	1
5	B 91 9535	2	M 14	B 94 591	ASS PCB MAI UA46EH6 3 R	SA	1
6	B 91 96 9C	2		B 61 8 46E	HOLDER SIDE A UE6 3 32 4 46 SO(Ready)	S A	1
	B 91 96 9C	2	FB 1A	B 96 23838D	ASS BOARD P O SWITCH IR U 46EH6 3	SA	1
8	B 9 41 1D	2	R 1	B 63 9 53D	COVER REAR UE6 3 46 SO(Ready) HIPS HB B	S A	1
9	B 96 22 85A	3	S 1A	B 96 21 42C	ASS UIDE P STA D UE5 4 46 55 W WP	SA	1
1	B 96 22 83C	3	SB 4A	B 96 21 36E	ASS STA D P BASE UE5 4 46 W W ABS H	SA	1

## 2. Electrical Parts List

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SN
			UA 6EH6030RMXL (TS0 )		
1	S 1A	B 9 3831C	ASS STA D UEH5 4 46 W W	1	S A
.2	SB 4A	B 96 22 83C	ASS STA D P BASE DPB 96 21 36E UE5	1	S A
..3	T 214	2 3 1269	TAPE OPP MAS I 3 1 T .6 W 5 5		S A
..3		69 2 3 9	BA AIR DPE T .2 W1 18 TRP 126 .	1	S A
..3		69 2 6 4	BA WRAPPI DPE T .2 W5 1 TRP		S A
..3		69 2 611	BA RO HDPE ITRO T1. 5 45446.4 g		S A
..3	M 4	6922 3	BA D PP PPT .8 W18 165 M TRP DA69 9 14		S A
..3		AA61 3 9A	OC ER BA D C IP SPC 1 18MM T .5	1	S A
..3		AA69 5536E	PAD T PE CHA E CB TW49 525	1	S A
..3		AA69 555 U	MASTER CARTO CB DW 2 112 55 195	1	S A
..3		AA69 5564	PAD P ATE CB DW 545 525	1	S A
..3		AA69 5565	PAD P ATE CB TW 233 525	1	S A
..3		AA69 5566	PA ETC D 4 C D PAPER 114 11 12	1	S A
..3		B 69 391T	PAD A E CB T5 W195 5 E 42 . g	1	S A
..3	SB 4A	B 96 21 36E	ASS STA D P BASE UE5 4 46 W W ABS H	1	SA
..4	SCREW	6 3 1 82	SCREW TAPT PE BH B M4 12 PC(B ) SWR	3	SA
..4	SCREW	6 3 1 85	SCREW TAPT PE FH B M4 8 PC(B ) SWRC	6	SA
..4	S 1	B 61 8 36A	UIDE STA D EC UE5 4 PC F2 2	1	S A
..4		B 61 81 5A	BRAC ET STA D BOTTOM UE5 4 46 E I S	1	S A
..4	CCM1	B 63 2183D	CO ER SHEET Rhcm PE inyl T .5 68 mm 2		S A
..4		B 63 4 55	CO ER SHEET 42PC45 PE T .5 W25 mm 2 M	1	S A
..4		B 63 9 84A	CO ER STA D BASE UE5 4 46 W W ABS H	1	S A
..4		B 3 313A	RUBBER FOOT UD4 19 RUBBER 13 13 T2.		S A
.2		B 96 22 85A	ASS UIDE P STA D DPB 96 21 42C UE5	1	SA
..3		AA69 54 1T	PA ETC D 4 C D PAPER 1 9 59 12	1	S A
..3		AA69 5564	PAD P ATE CB DW 565 52	1	S A
..3		AA69 5565	PAD P ATE CB TW 563 24	1	S A
..3		AA69 55 S	MASTER CARTO CB DW 2 5 5 53 265	1	S A
..3		AA69 55 2	PAD CROSS CB DW 563 24	1	S A
..3		AA69 55 2H	PAD CROSS CB DW 485 24 .	1	S A
..3	S 1A	B 96 21 42C	ASS UIDE P STA D UE5 4 46 55 W WP	1	SA
..4	T 524	69 2 1 63	BA PE DPE T .5 W18 35 TRP REC C E	1	S A
..4	S 3	B 61 941A	UIDE STA D UE5 6 4 46 55 W W PC	1	S A
..4		B 68 4 2 C	MA UA F ER 3 STA D UIDE U4 (32) SA	1	S A
..4		B 96 18 13E	ASS ACCESSOR SCREW 6 3 1 82 4EA A	2	S A
....5	SCREW	6 3 1 82	SCREW TAPT PE BH B M4 12 PC(B ) SWR	8	SA
....5	T 524	69 2 341	BA PE DPE T .5 9 W TRP PE MAR	2	S A

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
1	R 1A	B 9 41 1D	ASS CO ER REAR UE6 3 46 SO(READ )	1	S A
.2		6 1 2 55	SCREW MACHI E BH M3 6 PC(B ) SWRCH1	6	SA
.2	SCREW	6 3 1 82	SCREW TAPT PE BH B M4 12 PC(B ) SWR	15	SA
.2	R 1	B 63 9 53D	CO ER REAR UE6 3 46 SO(Ready) HIPS HB B	1	S A
1		B 91 9435A	ASS CM AM CD B 95 1A	1	S A
.2	PA E	B 95 1A	PRODUCT CD AM CD E6 3 46 3D Direct	1	SA
1	M 1	B 91 9535	ASS CHASSIS UA46EH6 3 R	1	S A
.2	M 14	B 94 591	ASS PCB MAI UA46EH6 3 R	1	SA
..3		B 6 364A	RUBBER UE32EH5 RUBBER 1 1 9T1 1	1	S A
..3	T 52	B 68 513A	ABE E PASS A MODE UPO(11 )5 15	1	S A
..3		B 9 6866A	ASS DRM E O ATE CI E HDCP MAC	1	S A
...4		B 46 1 9H	E CODE CERTIFI MAC T A eneral	1	S A
...4		B 46 2 1A	E CODE CERTIFI CI T 2 12 Euro	1	S A
..3		B 9 6888A	ASS SMD UA32EH6 3 R	1	S A
...4		2 2 14	SO DER CREAM ST3 9 M D2 45um 96.5Sn 3A		S A
...4		4 3 1 85	DIODE E ER H5 1B 4.94 5.2 5 mW SOD	1	SA
...4		4 3 1 9	DIODE E ER H3 B 2.85 3.15 5 mW SOD	1	S A
...4	D 254	4 4 14 4	DIODE SCHOTT BAT 21C 4 2 mA SOT 23	1	SA
...4	T 139	4 6 12	DIODE T S RC AMP 5 4F6 15 WSC	2	SA
...4	T 139	4 6 12 1	DIODE T S RC AMP 524P6 15 WS P251	1	S A
...4	SD3	4 114	DIODE SWITCHI DS184 8 1 mA SOT 23	1	S A
...4	1 1	5 1 445	TR SMA SI A TC38 5S P 15 mW SOT	5	SC
...4	CE 2	5 5 11	FET SI ICO 2 2 6 115mA .5ohm .	2	SA
...4	IC112	11 3 131	IC EEPROM 2 bit 256 8 SOIC 8 3 5 4mm 2.	1	S A
...4		11 3 1531	IC EEPROM S 24C256CI 8T1U4 256 bit 32	1	SA
...4		11 5 2161	IC DDR3 SDRAM 4B2 1646C HCH9 1333 DDR3	2	S A
...4		12 1 3333	IC POWER AMP TP 412S M F48P mm DUA	1	S A
...4		12 3 4364	IC O . DETECTOR RT9818C 42P SOT 23 3P	1	SA
...4		12 3 6 1	IC O . DETECTOR RT9824 8 TSOT23 8P 2.9	1	SA
...4	T 8	12 3 61 9	IC POSI.FI ED RE . S 12 6B33 M3T1 SOT 2	1	SA
...4	T 8	12 3 613	IC POSI.FI ED RE . S 11 2B25 U5T1 SOT 8	1	SA
...4	T 8	12 3 6135	IC POSI.FI ED RE . AP111 D 33 13 89 T	1	SA
...4	T 8	12 3 6136	IC POSI.FI ED RE . AP111 D 18 13 89 T	1	SA
...4	IC 12	12 3 6138	IC POSI.AD UST RE . AP111 D 13 89 TO 2	1	SA
...4		12 3 6684	IC DC DC CO ERTER TPS5432 DDAR HSOP8 8P	1	S A
...4		12 3 8	IC DC DC CO ERTER AO 1 51PI SO 8 8P4.9	2	SA
...4		12 4 3369	IC DECODER FB A 585P2 .2 2 .2mm P ASTI	1	SA
...4		12 5 3834	IC ETHER ET CO TRO ER RT 82 1E C RT	1	SA
...4		12 5 444	IC SWITCH TPS2 51CDB R SOT23 5 5P3 1.65	1	SA
...4		14 5 12 1	ARISTOR 35 2 dc 5A 1. .5 .6mm TP 1	2	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SN
...4	R1_5	2 138	R CHIP 1 ohm 5 1 16W TP1 5	25	SA
...4	AR49	2 14	R CHIP 1 ohm 5 1 16W TP1 5	6	S A
...4	A_R_3	2 142	R CHIP 2. ohm 5 1 16W TP1 5	2	SA
...4	R319	2 143	R CHIP 4. ohm 5 1 16W TP1 5	61	S A
...4	R1_4	2 148	R CHIP 1 ohm 5 1 16W TP1 5	38	SA
...4	R1_2	2 149	R CHIP 12 ohm 5 1 16W TP1 5	2	SA
...4	MR36	2 153	R CHIP 22 ohm 5 1 16W TP1 5	2	S A
...4	MR13	2 15	R CHIP 4 ohm 5 1 16W TP1 5	4	S A
...4	R123	2 159	R CHIP 56 ohm 5 1 16W TP1 5	1	S A
...4	DR39	2 162	R CHIP 1 ohm 5 1 16W TP1 5	6	S A
...4	MR16	2 168	R CHIP 4 ohm 5 1 16W TP1 5	1	S A
...4	R5_9	2 1	R CHIP 1Mohm 5 1 16W TP1 5	1	S A
...4	R111	2 1 1	R CHIP ohm 5 1 16W TP1 5	4	S A
...4	HDR1	2 1 2	R CHIP 1 ohm 5 1 16W TP1 5	2	S A
...4	R338	2 1 3	R CHIP 22ohm 5 1 16W TP1 5	6	S A
...4	UR23	2 1 4	R CHIP 4 ohm 5 1 16W TP1 5	2	S A
...4	MR39	2 242	R CHIP 1.5 ohm 5 1 16W TP1 5	1	S A
...4	R8	2 256	R CHIP 1.6 ohm 1 1 1 WTP16 8	1	SA
...4	PR6	2 583	R CHIP 22 ohm 1 1 1 WTP16 8	1	SA
...4	S_F_52	2 691	R CHIP 3.3Mohm 5 1 1 WTP16 8	1	SA
...4	R_26	2 695	R CHIP 3.3ohm 5 1 1 WTP16 8	4	S A
...4	R124	2 5	R CHIP 33 ohm 5 1 16W TP1 5	1	S A
...4	DR3	2 932	R CHIP 4 ohm 5 1 16W TP1 5	3	S A
...4	S1_8432	2 1125	R CHIP 68 ohm 1 1 1 WTP16 8	1	SA
...4	OTR1	2 1292	R CHIP 33ohm 5 1 16W TP1 5	8	S A
...4	R16	2 1313	R CHIP 33 ohm 5 1 16W TP1 5	2	S A
...4	HR1	2 132	R CHIP 1.8 ohm 5 1 16W TP1 5	2	SA
...4	R326	2 1325	R CHIP 3.3 ohm 5 1 16W TP1 5	1	S A
...4	MR316	2 2 96	R CHIP 51 ohm 5 1 16W TP1 5	2	SA
...4		2 8	R CHIP 3 ohm 5 1 16W TP1 5	1	S A
...4	DR4	2 142	R CHIP 1 ohm 1 1 16W TP1 5	2	S A
...4		2 156	R CHIP 1ohm 5 1 16W TP1 5	14	SA
...4		2 3 6	R CHIP 1 ohm 1 1 16W TP1 5	1	S A
...4		2 315	R CHIP 3.9 ohm 1 1 16W TP1 5	1	S A
...4		2 31	R CHIP 2.2 ohm 1 1 16W TP1 5	1	SA
...4		2 318	R CHIP 1 ohm 1 1 16W TP1 5	19	S A
...4		2 463	R CHIP 1.1 ohm 1 1 16W TP1 5	2	SA
...4		2 51	R CHIP 24 ohm 1 1 16W TP1 5	2	S A
...4		2 538	R CHIP 56 ohm 1 1 16W TP1 5	1	SA
...4		2 61	R CHIP 2.49 ohm 1 1 1 WTP16 8	1	SA

Exploded View and Parts List

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4		2 6 1	R CHIP 11 ohm 1 1 16W TP1 5	2	SA
...4		2 69	R CHIP 2.4 ohm 1 1 16W TP1 5	1	SA
...4	MR11	2 8 15	R CHIP 5ohm 1 1 16W TP1 5	3	S A
...4		2 811	R CHIP 2. ohm 1 1 16W TP1 5	1	SA
...4		2 82 5	R CHIP 3 ohm 1 1 16W TP1 5	2	S A
...4		2 83 9	R CHIP 3 .4ohm 1 1 16W TP1 5	1	S A
...4		2 8649	R CHIP 22 ohm 1 1 16W TP1 5	1	S A
...4		2 8 9	R CHIP ohm 1 1 16W TP1 5	2	SA
...4		2 11 142	R ETWOR ohm 5 1 16W CHIP8PTP2.	4	SA
...4		2 11 1449	R ETWOR 22ohm 5 1 16W 4PTP1 1	4	SA
...4		2 11 1519	R ETWOR 33OHM 5 1 16W CHIP4PTP1.	2	SA
...4	PC43	22 3 233	C CER CHIP .1nF 5 5 C TP1 5	6	SA
...4	DC54	22 3 2 8	C CER CHIP .1nF .5pF 5 C TP1 5	5	SA
...4	DC1	22 3 386	C CER CHIP .15nF 5 5 C TP1 5	2	SA
...4	C254	22 3 438	C CER CHIP 1nF 1 5 R TP1 5	6	SA
...4	C5	22 3 489	C CER CHIP 2.2nF 1 5 R TP1 5	3	SA
...4	AD48	22 3 53	C CER CHIP 2. nF 1 5 R TP1 5	1	S A
...4	1233	22 3 5 5	C CER CHIP 22 nF 1 25 R TP2 12	4	S A
...4	MC9	22 3 62	C CER CHIP .22nF 5 5 C TP1 5	1	SA
...4	AD48	22 3 14	C CER CHIP 3.3nF 1 5 R TP1 5	6	SA
...4	DC25	22 3 812	C CER CHIP .33nF 5 5 C TP1 5	2	S A
...4	AD48	22 3 995	C CER CHIP .4 nF 5 5 C TP1 5	3	SA
...4	AD48	22 3 1412	C CER CHIP .3nF 5 5 P TP1 5	5	S A
...4	AD48	22 3 2285	C CER CHIP 1 nF 1 5 R TP1 5	12	S A
...4	AC2	22 3 2 11	C CER CHIP 1 nF 1 25 R TP16 8	4	SA
...4	C151	22 3 3 39	C CER CHIP .8nF .25pF 5 C TP1	2	SA
...4	AAC1	22 3 5249	C CER CHIP 1 nF 1 5 R TP16 8	12	S A
...4	C3	22 3 6 48	C CER CHIP 1 nF 1 1 R TP1 5	111	SA
...4	AD48	22 3 6126	C CER CHIP 4 nF 1 16 R TP1 5	1	S A
...4	C1	22 3 6324	C CER CHIP 22 nF 1 1 5R TP16 8	2	SA
...4	C8 2	22 3 6348	C CER CHIP 1 nF 1 25 5R TP16 8	1	SA
...4	C125	22 3 6361	C CER CHIP 1 nF 1 1 5R TP2 12	2	SC
...4	AD48	22 3 642	C CER CHIP 4 nF 1 16 5R TP2 12	2	SA
...4	HE4	22 3 64 4	C CER CHIP 22 nF 2 6.3 5R TP2 12	12	SA
...4	HDC11	22 3 6562	C CER CHIP 1 nF 1 1 5R TP1 5	8	SA
...4	AD48	22 3 6824	C CER CHIP 4 nF 1 1 5R TP16 8	1	S A
...4	AD48	22 3 6842	C CER CHIP .4 nF 5 5 C TP1 5	3	S A
...4	C23	22 3 689	C CER CHIP 1 nF 2 6.3 5R TP16 8	31	S A
...4	AD48	22 3 1 6	C CER CHIP 1 nF 1 16 5R TP2 12 1	6	S A
...4	AD48	22 3 513	C CER CHIP 1 nF 1 1 5R TP16 8	3	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SN
..4	T 52	2 3 158	I DUCTOR SMD 1uH 1 2 12 .4ohm 5 mA 45	2	SA
..4		2 3 1938	I DUCTOR SMD 56nH 5 1 5 1.5ohm 2 mA 1	2	SA
..4	T 52	2 3 3149	I DUCTOR SMD 2.2uH 2 5 5 .5 ohm 31	3	SA
..4		2 3 393	I DUCTOR SMD 4. uH 2 5 5 .6 ohm 23	4	SA
..4	2 2	28 1 3 3	CR STA SMD 12MH 3 ppm 28 AA 2 pF 5 oh	1	SA
..4	2 2	28 1 4 34	CR STA SMD 25. MH 2 ppm 28 AA 12	1	SA
..4	T 568	33 1 2 39	BEAD SMD 26ohm 16 8 TP	5	SA
..4		3 1 1 84	CO ECTOR HDMI 19P2ROW FEMAE SMD S AU	2	SA
..4	HB 1A	3 11 5925	HEADER BOARD TO CAB E BO 51P1R .5mm S	1	SA
..4		3 11 585	CO ECTOR HEADER BO 4P1R 2.5mm A E D	1	SA
..4		3 11 58	CO ECTOR HEADER BO 18P2R 2mm A E DI	1	SA
..4	EH 1	3 11 42	HEADER BOARD TO CAB E BO 2 P2R 2mm A	1	SA
..4		3 22 3225	AC USB 4P 1C Au B SMD A(DIP) A	1	SA
..4		3 22 3226	AC PHO E P1CS B	1	SA
..4		3 22 3229	AC MODU AR 8P 8C W STRAI HT Au 1	1	SA
..4		3 22 3439	AC PHO E 4P 1CS B	1	SA
..4		3 22 3546	AC PI 5P Screw hole I S B U RED	1	SA
..4	ET 1	B 4 231B	TU ER DTT 51B C3 DTT 51B C3 D B TC Hal	1	SA
..4		B 41 1894A	PCB MAI FR 4 4 1.2T 192 141 1	1	SA
..4		B 9 6823A	ASS MICOM T TE4DEUCS U 4D 2 12. 3	1	SA
....5		11 2 6	IC OR F ASH W25 4 B SSIP4Mbit SOP8P5	1	SA
..4		B 9 6851A	ASS MICOM T TE5DAAC U 4D 2 12. 3.	1	SA
....5		11 2 4	IC A DF ASH 9F2 8U C S 2 bit 256M 8b	1	SA
....5		B 46 262H	SWE MA UA O ATE AS2 E FRA ARA PE	1	SA
....5		B 46 265A	S W MICOM T TE5DAAC E PER HEB R	1	SA
..3	T 66	BP62 1 A	HEAT SI ES SP 5 2H A6 63S T2. 26.2	1	SA
1		B 91 96 9C	ASS SHIE D UA46EH6 3 R	1	SA
.2	CIS1	2 3 1586	TAPE FI AME T 893 .15 3 55 WHT FI AME		SA
.2		6 1 2 56	SCREW MACHI E BH M3 6 PC(WHT) SWRCH1	14	SA
.2		B 39 14 5H	EAD CO ECTOR POWER CAB E E6 8 55	1	SA
.2		B 44 552B	DC SS ED T PD BD PD46C 1 CSM PS F93	1	SA
.2	CB2	B 61 953A	BRAC ET WA UE5 46 E I SECC P T1.2	4	SA
.2		B 61 8 46E	HO DER SIDE A UE6 3 32 4 46 SO(Ready)	1	SA
.2	SP 1A	B 96 21669	ASS SPEA ER P 6ohm 4pin 1 WUE6 3 55	1	SA
.2	F 6	B 96 22239E	ASS CAB E P FFC U 46EH6 M FFC 344m	1	SA
.2	FB 1A	B 96 23838D	ASS BOARD P O SWITCH IR U 46EH6 3	1	SA
1		B 92 1 898	ASS BO UE6 3 46 SO	1	SA
.2		B 68 3869A	ABE BO UA32D4 Paper 85 9	1	SA
.2		B 69 935	BO SET 46UE6 3 SS CB A 1 SW2 E W122	1	SA
1		B 92 1 899A	ASS P MATERIA UE6 3 46 UO	1	SA

Exploded View and Parts List

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Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
.2	M 4	6922 13	BA D PP PPW18 23 29 TRP	1	S A
.2		B 63 9235D	SHEET HDPE RO A46D6 HDPE .41	2	S A
.2		B 69 99A	CUSHION SET 46UE6 3 SS EPS	1	S A
.2		B 4 8E	TAPE OPP MAS I OPPT .5 W 5 4 MC R	3	S A
1	ACCE1	B 92 1 925T	ASS ACCESSOR UA32EH6 3 R	1	S A
.2	3D A	B 96 229 2A	ASS ACCESSOR 3D ASSES SS 41 BI	1	S A
.2	ACCE4	B 96 2391	ASS ACCESSOR MA UA UA32EH6 3 R	1	S A
..3		68 1 1984	CARD WARRA T I DIA SIE E ISH ART PAP	1	S A
..3		69 2 144	BA PE HDPE T .4 W24 24 TRP1	1	S A
..3		AA68 3242M	EAF ET 8 SAFET UIDE comm Samsung Eng	1	S A
..3		B 68 968	MA UA USERS CD ED SIE E ISH I DIA	1	S A
..3		B 68 142 C	EAF ET SAFET OTICE FOR A TE A All mo	1	S A
..3		B 68 3865A	EAF ET PRC FPT SAMSU E ASIA READ	1	S A
..3		B 68 42 4B	MA UA F ER 2 3D ASSES UIDE SS 41	1	S A
..3		B 68 4463A	MA UA USERS UEH6 3 SAMSU E ASIA RE	1	S A
.2	ACCE2	B 96 24132A	ASS ACCESSOR CABE UA32EH6 3 R	1	S A
..3	T 268	39 3 6 5	CBF POWER CORD DTI DIA P 25 2.5A	1	S A
..3	T 12	43 1 121	BATTER M 1.5 R 3 1 .5 44.5m HO DER .	2	S A
..3	T 524	69 2 36	BA PE HDPE T .4 W23 33 TRP8 1	1	S A
..3	M 254	AA59 416B	A T SHIE D BO U C AS 3A PA B D IM	1	S A
..3	REMO2	AA59 6 8A	REMOCO TM124 44 ey3 Ready(Asia) PDP	1	S A
1		B 92 11 3E	ASS ABE UA32EH6 3 R	1	S A
.2		B 68 31 5A	ABE CAUTIO A32C53 P C .5 mm 16 45	1	S A
.2		B 68 4181U	ABE ED POP EH6 3 PETT .12 262 i	1	S A
.2		B 68 441 B	ABE ED HI H I HT STIC ER E49 ME ICO	1	S A
.2	T 52	BP68 52B	ABE RATI FPT PETT .5 93 3	1	S A