



LED TV

Chassis : U63A

Model : UN46D6003SF

UN55D6003SF

UN55D6005SF

SERVICE Manual

LED TV



UN**D600*SF

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2. Product specifications
3. Disassembly and Reassembly
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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.

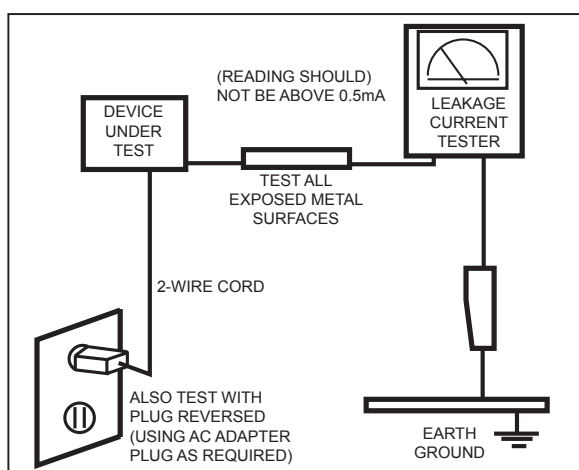
1-1-2. Servicing the LED TV

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

1-2. 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

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.



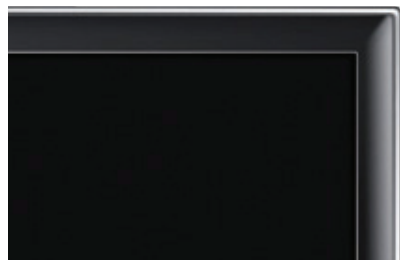
8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.

1-4. Installation Precautions

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. Model Comparison

Model	UN**D600*SF				
Front View					
Detail View	 				
Front Color	Charcol Gray				
Dimensions W x D x H (Inches)	46"	Without Stand	42.94	1.18	22.86
		With Stand	42.94	10.83	28.11
	55"	Without Stand	50.58	1.18	30.14
		With Stand	50.58	12.01	32.39
Weight (lbs)	46"	Without Stand	30.86		
		With Stand	38.80		
	55"	Without Stand	39.02		
		With Stand	48.28		
Panel Type	Super Clear				
Internal Memory	2 G				
DDR	768 MB				
Feature	3D / Internet@TV / DLNA / Full Browsing				

2-2. Feature & Specifications

Model	UN46D6003SF	
Feature		
<ul style="list-style-type: none">Digital-TV, RF, 4-HDMI, 1-Component, 2-A/V, 3-USB2.0(Media Play), D-SUB , LANContrast Ratio : Mega ContrastDynamic contrast , Super-PVAPIP(in HDMI 1, 2, 3, 4, Component 1, PC Mode and Sub picture is available only in TV mode(DTV/ATV))Dolby Digital+, SRS theater, DVIX HD		
Specifications		
Item	Description	
LCD Panel	LTJ460HJ05-V,1920 * 1080 @ 120HZ,LCD Cell	
Scanning Frequency	Horizontal : 120 kHz ~ 139.2 kHz (Automatic) Vertical : 94 Hz ~ 122 Hz (Automatic)	
Display Colors	1.07B	
Maximum Resolution	Horizontal : 1920 Pixels Vertical : 1080 Pixels	
Input Signal	Analog 0.7 Vp-p ± 5% positive at 75Ω, internally terminated	
Input Sync Signal	H/V Separate, TTL, P. or N.	
Maximum Pixel Clock Rate	310 MHz	
Active Display (Horizontal/Vertical)	819.36(H) X 460.89(V) (mm)	
AC Power Voltage & Frequency	AC 110 V ~ 120 V, 60 Hz	
Power Consumption	150 W (Under 0.1 W, Stand by)	
Dimensions Set (W x D x H)	Without Stnand	42.94 x 1.18 x 22.86 (Inches)
	With Stand	42.94 x 10.83 x 28.11 (Inches)
Weight	Without Stnand	30.86 (lbs) / 13.99 (kg)
	With Stand	38.80 (lbs) / 17.59 (kg)
TV System	Tunning	Frequency Synthesize (Refer to detailed Frequency Table)
	System	ATSC & Clear QAM
	Sound	NTSC-M
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 : <ul style="list-style-type: none">RF : 20 Hz ~ 15.4 kHzAV/Componet/HDMI : 20 Hz ~ 20 kHz	
Note: Dolby Digital +, Game Mode, Film Mode, Energy Saving, Anynet+		

Model	UN55D6003SF / UN55D6005SF	
Feature		
<ul style="list-style-type: none">• Digital-TV, RF, 4-HDMI, 1-Component, 2-A/V, 3-USB2.0(Media Play), D-SUB , LAN• Contrast Ratio : Mega Contrast• Dynamic contrast , Super-PVA• PIP(in HDMI 1, 2, 3, 4, Component 1, PC Mode and Sub picture is available only in TV mode(DTV/ATV))• Dolby Digital+, SRS theater, DVIX HD		
Specifications		
Item	Description	
LCD Panel	LTJ550HJ05-V,1920 * 1080 @ 120HZ,LCD Cell	
Scanning Frequency	Horizontal : 120 kHz ~ 139.2 kHz (Automatic) Vertical : 94 Hz ~ 122 Hz (Automatic)	
Display Colors	1.07B	
Maximum Resolution	Horizontal : 1920 Pixels Vertical : 1080 Pixels	
Input Signal	Analog 0.7 Vp-p ± 5% positive at 75Ω, internally terminated	
Input Sync Signal	H/V Separate, TTL, P. or N.	
Maximum Pixel Clock Rate	310 MHz	
Active Display (Horizontal/Vertical)	885.6(H) X 498.15(V) (mm)	
AC Power Voltage & Frequency	AC 110 V ~ 120 V, 60 Hz	
Power Consumption	150 W (Under 0.1 W, Stand by)	
Dimensions Set (W x D x H)	Without Stnand	50.58 x 1.18 x 30.14 (Inches)
	With Stand	50.58 x 12.01 x 32.39 (Inches)
Weight	Without Stnand	39.02 (lbs) / 17.69 (kg)
	With Stand	48.28 (lbs) / 21.89 (kg)
TV System	Tunning	Frequency Synthesize (Refer to detailed Frequency Table)
	System	ATSC & Clear QAM
	Sound	NTSC-M
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 : <ul style="list-style-type: none">• RF : 20 Hz ~ 15.4 kHz• AV/Componet/HDMI : 20 Hz ~ 20 kHz	
Note: Dolby Digital +, Game Mode, Film Mode, Energy Saving, Anynet+		

2-3. Detail Factory Option



NOTE

If you replace the main board with new one, please change the factory option as well.
The options you must change are "Type" and "Front Color".









Model Name		UN46D6003SF	UN55D600*SF
Panel	Vendor	AUO	AUO
	Code	BN07-01021A	BN07-01025A
	Spec.	LD460CGB-A2	LD550CGB-A2
SMPS	Vendor	SEM	HANSOE
	Code	BN44-00423A	BN44-00424A
	Spec.	PD46A1_BSM	PD55A1_BHS
1	Factory Reset	-	-
2	Type	46L1UF3E	55L1UF3E
3	Local set	US	US
4	Model	UD6003	UD6003
5	Tuner	SI_ATC	SI_ATC
6	DDR	-	-
7	Light Effect	OFF	OFF
8	Ch Table	-	-
9	Country	-	-
10	Front Color	U-T-R-BK	U-T-R-BK

2-4. Specification Comparison to Old Models

O : application | X : non-application

Model	UD6003 / UD6005	UC6000
Design		
Display Type	LED TV 2D	LED TV 2D
Built-in Tuner	O	O
Resolution	1920 x 1080	1920 x 1080
LCD Panel	TFT LCD Panel 120Hz	TFT LCD Panel 120Hz
Picture ratio	16:9	16:9
Contrast Ratio	Mega contrast	70000:1
Picture Enhancer	DNle	DNle
Equalizer	5 Band	5 Band
Auto Volume Control	O	O
Surround Sound	Dolby Digital plus	Dolby Digital plus
Speaker Output	10W + 10W	10W + 10W
PIP	O	O
Antena	DTV 1 (Cable/Air)	DTV 1 (Cable/Air)

2-5. Accessories

Product	Description	Code. No	Remark
	Remote Control & Batteries (AAA x 2)	AA59-00443A	Samsung Electronics Service center
	Power Cord	3903-000598	
	Warranty Card / Registration Card / Safety Guide Manual	BP68-00263E BN68-03330A AA68-03242L	
	Cleaning Cloth	BN63-01798B	
	Holder-Wire stand	BN61-05491A	
	Holder-Ring (4ea)	BN61-07295A	
	AV Gender	BN39-01154H	
	Component Gender	BN39-01154W	

2-6. New Features

2-6-1. Auto Motion Plus 120 Hz

■ Function Naming

120 Hz FRC + MJC : Auto Motion Plus 120 Hz

■ Detail specifications

Function (OSD)	120Hz FRC	Judder reduction (only 24p source)	Blur reduction
Off	Off (repeat)	Off	Off
Clear	ON (interpolation)	Off	High
Standard	ON (interpolation)	Medium	Medium
Smooth	ON (interpolation)	High	High
Custom	Level variable (0~10)		
Demo	Demo (Standard/off)		

■ 120Hz Motion Enhancement



Off



Low / Medium / High



Demo

2-5-2. Media Play

Media Play

Functions that are not supported when connecting to a PC through a network:

- Sorting files by preference in the Photos, Music, and Videos folders.
- The ◀ (REW) or ▶ (FF) button while a movie is playing.
- Divx DRM, Multi-audio, embedded captions are not supported.

When you use Media Play mode through a network connection, depending on the functions of the provided server

- The sorting method may vary.
- The scene search function may not be supported.
- The Play Continuously function, which resumes playing of a video, may not be supported.
- The Play Continuously function does not support multiple users. (It will have only memorized the point where the most recent user stopped playing.)
- The ◀ or ▶ buttons may not work depending on the content information.
- If you experience any file stuttering issue while playing a video over a wireless network, we recommend using a wired network."

Supported Subtitle Formats

Name	File extension	Format
MPEG-4 time-based text	.txt	XML
SAMI	.smi	HTML
SubRip	.srt	string-based
SubViewer	.sub	string-based
Micro DVD	.sub or .txt	string-based

Supported Video Formats

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv	AVI MKV	Divx 3.11/4.x/5.1/6.0	1920 x 1080	6 ~ 30	8	MP3/AC3 /LPCM /ADPCM /DTS Core
		XviD	1920 x 1080	6 ~ 30	8	
		H.264 BP/MP/HP	1920 x 1080	6 ~ 30	25	
		MPEG4 SP/ASP	1920 x 1080	6 ~ 30	8	
		Motion JPEG	1920 x 1080	6 ~ 30	8	
*.asf	ASF	Divx 3.11/4.x/5.1/6.0	1920 x 1080	6 ~ 30	8	MP3/AC3 /LPCM /ADPCM /WMA
		XviD	1920 x 1080	6 ~ 30	8	
		H.264 BP/MP/HP	1920 x 1080	6 ~ 30	25	
		MPEG4 SP/ASP	1920 x 1080	6 ~ 30	8	
		Motion JPEG	1920 x 1080	6 ~ 30	8	
*.wmv	ASF	Window Media Video v9	1920 x 1080	6 ~ 30	25	WMA
*.mp4	MP4	H.264 BP/MP/HP	1920 x 1080	6 ~ 30	25	MP3/ADPCM / AAC
		MPEG4 SP/ASP	1920 x 1080	6 ~ 30	8	
		XVID	1920 x 1080	6 ~ 30	8	
*.3gp	3GPP	H.264 BP/MP/HP	1920 x 1080	6 ~ 30	25	ADPCM/AAC
		MPEG4 SP/ASP	1920 x 1080	6 ~ 30	8	
*.vro	VRO VOB	MPEG2	352 x 288	24/25/30	30	AC3/MPEG /LPCM
		MPEG1	352 x 288	24/25/30	30	

*.mpg *.mpeg	PS	MPEG1	1920 x 1080	24/25/30	30	AC3/MPEG /LPCM/AAC
		MPEG2	1920 x 1080	24/25/30	30	
		H.264	1920 x 1080	6 ~ 30	25	
*.ts *.tp *.trp	TS	MPEG2	1920 x 1080	24/25/30	30	AC3/AAC /MP3/DD+ /HE-AAC
		H.264	1920 x 1080	6 ~ 30	25	
		VC1	1920 x 1080	6 ~ 30	25	

- Red colored items are different from 10y's model, X4 platform.

Other Restrictions



NOTE

- If there are problems with the contents of a codec, the codec will not be supported.
- If the information for a Container is incorrect and the file is in error, the Container will not be able to play correctly.
- Sound or video may not work if the contents have a standard bit rate/frame rate above the compatible Frame/sec listed in the table above.

Video Decoder	Audio Decoder
<ul style="list-style-type: none"> Supports up to H.264, Level 4.1 H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported. XVID, MPEG4 SP, ASP: <ul style="list-style-type: none"> Below 1280 x 720: 60 frame max Above 1280 x 720: 30 frame max GMC is not support. 	<ul style="list-style-type: none"> Supports until WMA 7, 8, 9, STD WMA 9 PRO is not supported the 2 channel excess multi channel or the lossless audio. WMA sampling rate 22050Hz mono is not supported.

2-5-3. AllShare™

■ About AllShare™

AllShare™ connects your TV and compatible Samsung mobile phones/ devices through a network. On your TV, you can view call arrivals and SMS messages, and received by your mobile phones. In addition, you can play media contents including videos, photos, and music saved on your mobile phones or the other devices (such as your PC) by controlling them on the TV via the network. Additionally, you can use your TV for browsing web pages on your mobile phones.



NOTE

For more information, visit “www.samsung.com” or contact the Samsung call center. Mobile devices may need additional software installation. For details, refer to each device’s user’s guide.

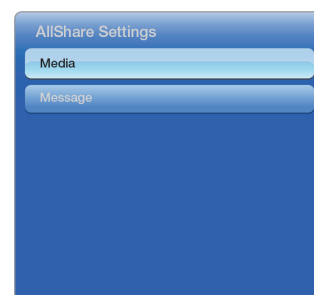
■ Setting Up AllShare™



MENU → Network → AllShare Settings → ENTER ↵

AllShare Settings

- **Media (On / Off)** : Enables or disables the media function. When the media function is on, you can control Media contents play using mobile phones or other devices that support DLNA DMC.
- **Message (On / Off)** : Enables or disables the message function. (for call arrivals, and SMS messages received by your mobile phones)



Media / Message

Shows a list of mobile phones or connected devices which have been set up to use the Media or Message function with this TV.



NOTE

The Media function is available in all devices which support DLNA DMC.

- **Allowed / Denied** : Allows/Blocks the devices.
- **Delete** : Deletes the devices from the list.
 - This function only deletes the name of the device from the list. If the deleted device is turned on or tries to connect to the TV, it may appear on the list again.

Using the Message Function

You can view call arrivals and SMS messages received by your mobile mobile phone, through the alarm window, while watching TV.



NOTE

- To disable the alarm window, set Message to Off in the AllShare Settings.
- Whether OK is selected or not selected after a message has appeared once, the message will be deleted from the alarm window.
- When a message from an unknown mobile phone is displayed, select the mobile phone in the Message menu in AllShare Settings, and then select Denied to block the phone.

Message View

If a new SMS message arrives while you are watching TV, the alarm window appears. If you select OK, the contents of the message are displayed.

**NOTE**

- You can configure the viewing settings for SMS messages on your mobile phones. For the procedures, refer to the mobile phone manual.
- Some types of characters may be displayed as blank or broken characters.

Call Arrival Alarm

If a call arrives while you are watching TV, the alarm window appears.

Schedule Alarm

You can view scheduled events in the alarm window while you are watching TV.



**NOTE**

- You can configure viewing settings for scheduled contents on your mobile phones. For the procedures, refer to the mobile phone manual.
- Some special characters may be displayed as blank or broken characters.

Using the Media Function

An alarm window appears informing you that media contents (videos, photos, music) sent from a mobile phone will be displayed on your TV. The contents are played automatically 3 seconds after the alarm window appears. If you press the **RETURN** or **EXIT** button when the alarm window appears, the media contents are not played.

**NOTE**

- The first time a device accesses your TV through the media function, a warning popup window appears. Press the **ENTER**  button to select Allow. This permits the phone to access the TV freely and use the Media function to play content.
- To turn off media contents transmissions from a mobile phone, set **Media** to **Off** in the **AllShare Settings**.
- Contents may not play on your TV depending on their resolution and format.
- The **ENTER**  and **◀ ▶** buttons may not work depending on the type of media content.
- Using the mobile device, you can control the media play. For details, refer to each mobile's user's guide.

■ AllShare™ setup and checklists

Problem	Possible Solution
Deleted mobile phone list showing up again.	<ul style="list-style-type: none"> • Menu → Application → Content View → AllShare™ → Message Where need to block the added mobile phone or device again. Because deleted device would be added again if that device turns on or attempt to approach.
Want to turn off the function of receiving message from the mobile phone.	<ul style="list-style-type: none"> • One of the setup lists of AllShare™, you need to turn 'Message' list to 'Off'.
Want to turn off the function of receiving Media from mobile phone or home network devices on TV.	<ul style="list-style-type: none"> • One of the setup lists of AllShare™, you need to turn 'Media' list to 'Off'.
Want to add deleted mobile phone or home network devices again.	<ul style="list-style-type: none"> • Power on the deleted mobile phone or home network devices. Set up the network and activate the home network function, check the connection at AllShare™.
Several same names of TV shows up on mobile phone.	<ul style="list-style-type: none"> • At AllShare™ set up menu, change the name of the TV.

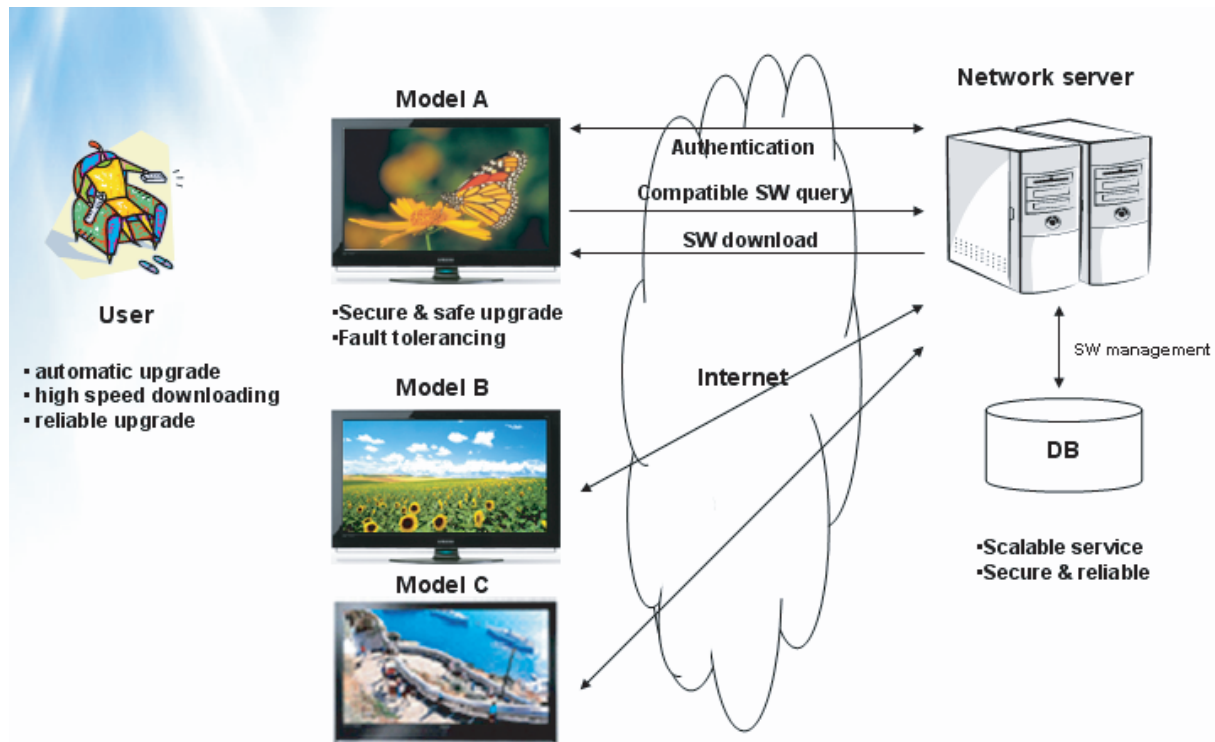
2. Product specifications

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

2-5-5. OTN Over The Network

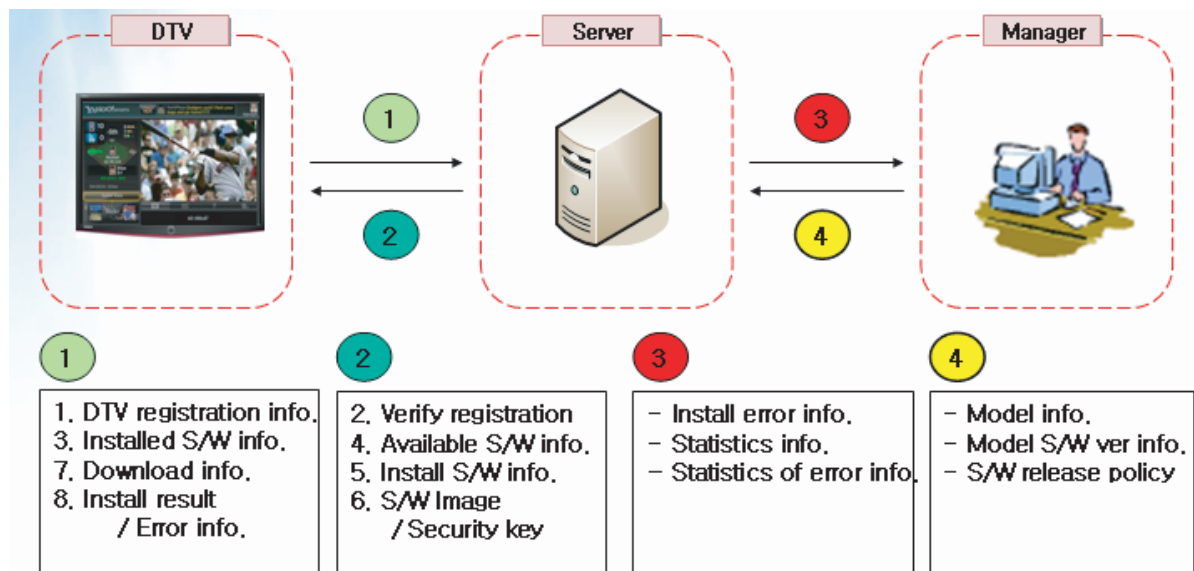
Over The Network : It is available that update to latest version by network.

■ Overview of OTN



■ Purpose of ONT

Because of variable contents and devices, TV software will be more and more complicate. So it is necessary that TV software is updated real time.



3. Disassembly and Reassembly

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




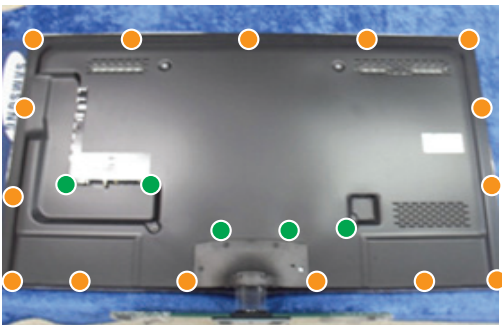




This LED TV contains electrostatically sensitive devices. Use caution when handling these components.



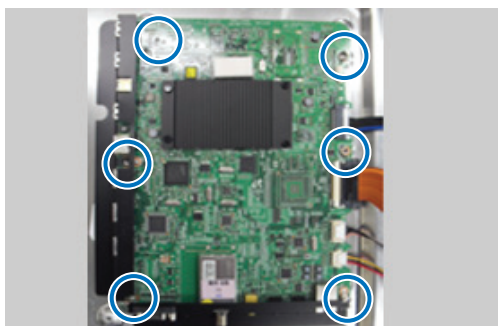
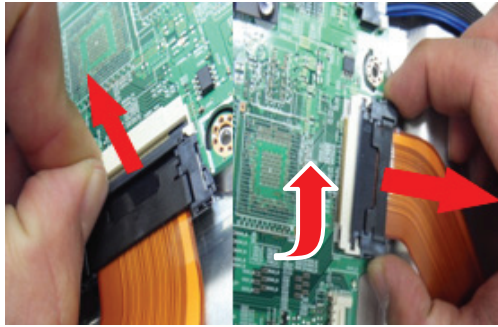





3-1. Disassembly and Reassembly

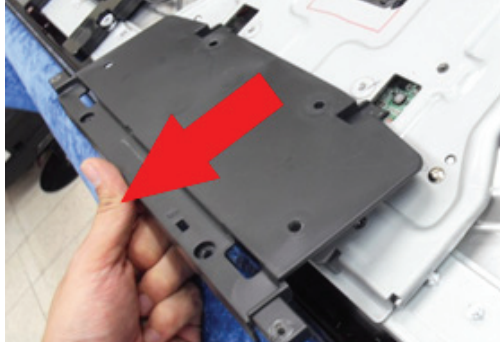


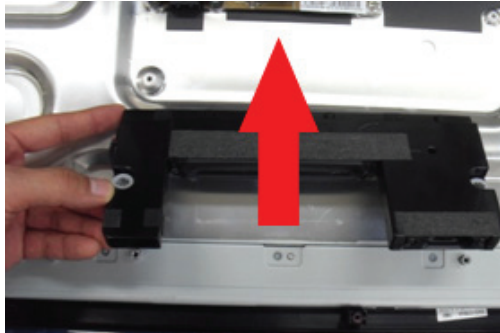





1. Disconnect the LED TV from the power source before disassembly.
2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.
3. If there is no additional coment, it is same for all inches.

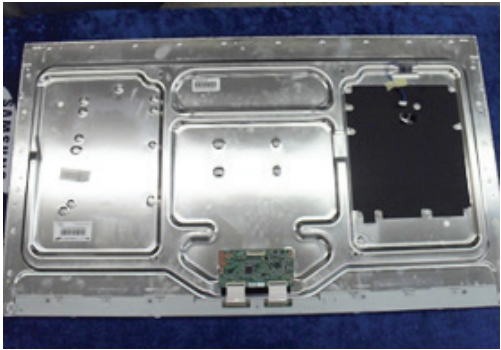

Description	Picture Description	Screws
1 Place TV face down on cushioned table. Remove screws from the Stand. Remove stand.		 6001-002621 SCREW-MACHINE (M4, L8-BLK)
		
2 Remove the screws of Rear-Cover.		 6003-001782 SCREW-TAPTITE (M4, L12-BLK/THIN HEAD)  6001-002671 SCREW-MACHINE (M3, L6-BLK)

3. Disassembly and Reassemble

Description	Picture Description	Screws
<p>3 Lift up and remove the rear-cover.</p> <div data-bbox="240 264 708 331">  <p>Becareful when you lift up the rear-cover, It's really sharp.</p> </div>		
<p>4 Remove the screws of Main Board.</p> <ul style="list-style-type: none"> New type of LVDS connection. applied to 11 year model. (Double locking) <ol style="list-style-type: none"> Up the first locking. Push the second locking and detach connection. <p>Remove the screws of IP Board. Remove the IP Board.</p>	  	 <p>6001-002653 SCREW-MACHINE (M3, L6-WHT)</p>  <p>6001-002653 SCREW-MACHINE (M3, L6-WHT)</p>
<p>5 Remove the screws of Cover Bottom.</p> <ul style="list-style-type: none"> Cover bottom assembled basically not accessory on 11 year model. 		 <p>6001-002621 SCREW-MACHINE (M4, L8-BLK)</p>

Description	Picture Description	Screws
Remove the Cover-Bottom.		
6 Remove the screws of Stand-Link BLKT, and remove Stand-Link BLKT.		 6001-002653 SCREW- MACHINE (M3, L6-WHT)
7 Remove the Speakers. (R/L)		
8 Remove the screws of T-con.		 6001-002653 SCREW-MACHINE (M3, L6-WHT)
Unlock the locking of T-con cable.		

3. Disassembly and Reassemble

Description	Picture Description	Screws
<div data-bbox="172 212 309 264">9 Panel.</div> <div data-bbox="236 571 309 604">Front.</div>		
		

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

4. Troubleshooting

4-1. Troubleshooting

1. Check the various cable connections first.
 - Check to see if there is a burnt or damaged cable.
 - Check to see if there is a disconnected 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. How to distinguish if the problem is caused by Main Board or T-Con Board.
 - **No Video** : If the problem is No Video but BLU is on and Indication LED is blinking repeatedly and faster than normal booting, replace the T-Con Board.
 - **Distorted Picture** : Check the inner patterns.

For All mode

GenoaS	GenoaS 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

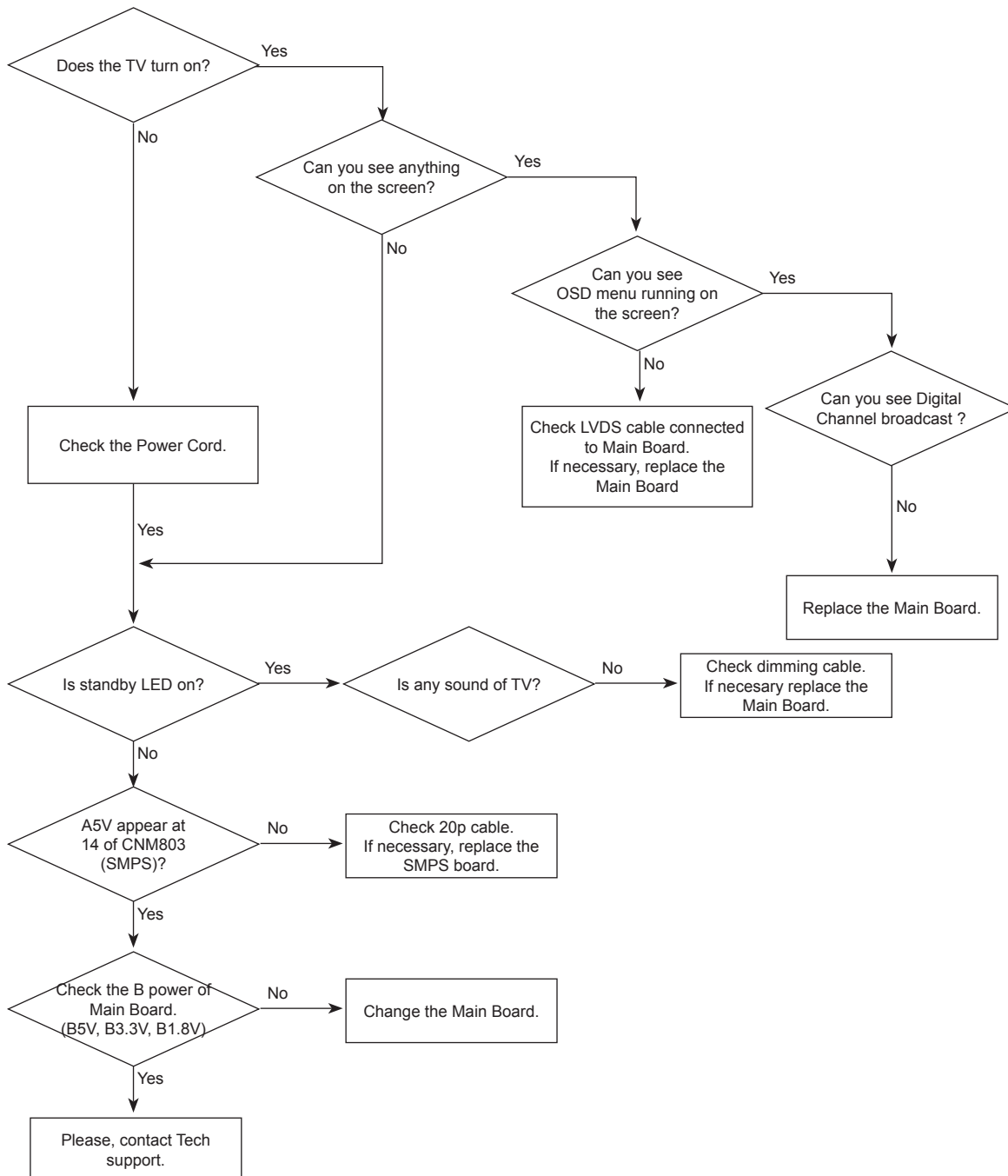
Only for HDMI mode (additional check)

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 GenoaS pattern or LVDS cable or T-con.

How to check inner pattern?

1. Factory mode. (Mute → 1 → 8 → 2 → Power on when TV is in 'stand-by mode')
2. Move to SVC menu.
3. Move to Test Pattern.
4. Check inner patterns. (This model only support GenoaS, GenoaS FRC POST, HDMI)

■ Simple flow chart of malfunction



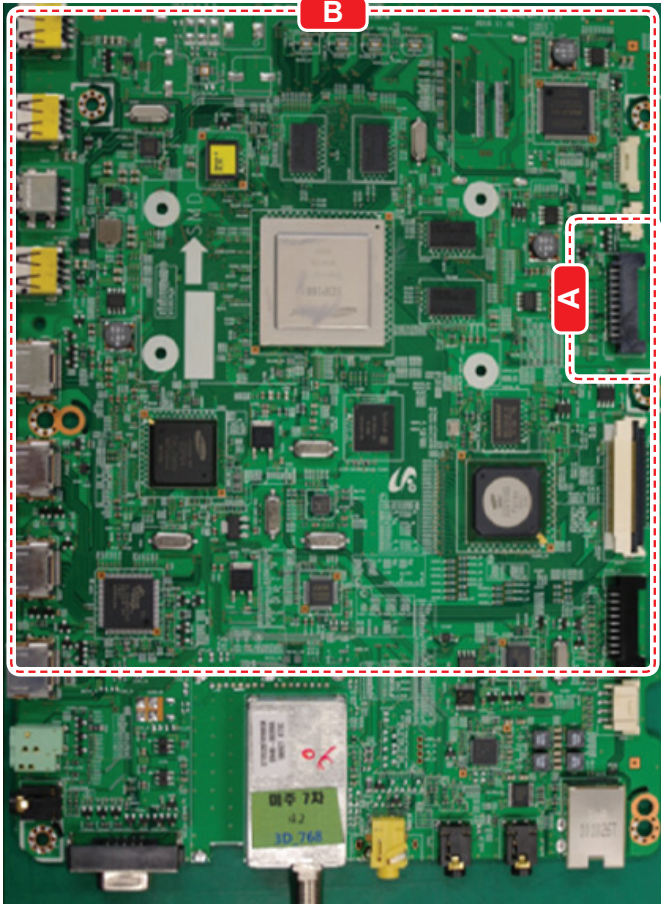
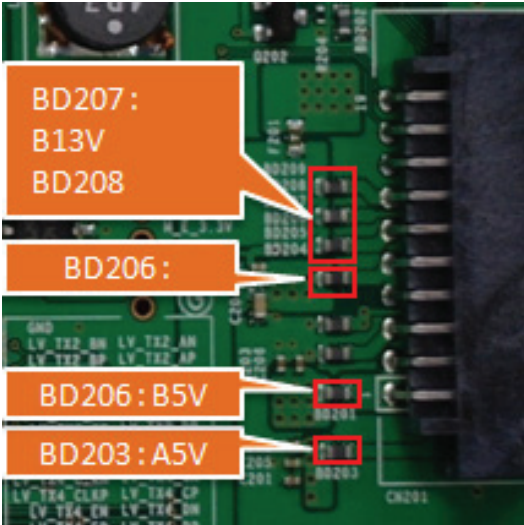
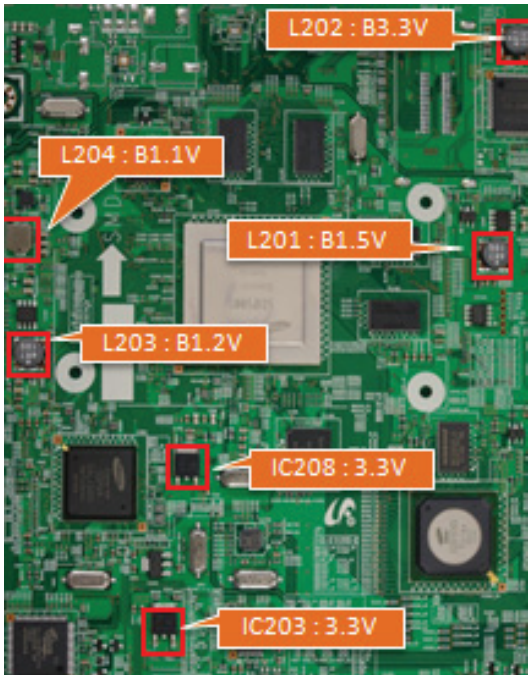
4-2. How to Check Fault Symptom

4-2-1. No Power

- Refer to the next page to check the location such a CN201 or IC201 SVC Manual mentioned.

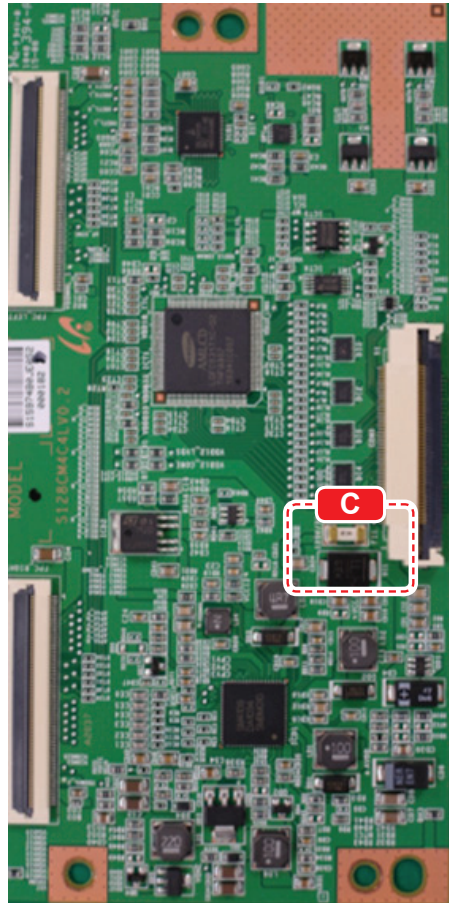
Symptom	<ul style="list-style-type: none"> The LEDs on The front panel do not work when connecting The power cord. The SMPS relay does not work when connecting The power cord. The units appears to be dead.
Major checkpoints	<p>The IP relay or the LEDs on the front panel does not work when connecting the power cord if the cables are improperly connected or the Main Board or SMPS is not functioning. In this case, check the following:</p> <ul style="list-style-type: none"> Check the internal cable connection status inside the unit. Check the fuses of each part. Check the output voltage of SMPS. Replace the Main Board.
Diagnostics	<pre> graph TD Q1[Power indicator LED is on ?] -- No --> A1[Check a connetion power code.] Q1 -- Yes --> Q2[Check the backlight on, when 20p cable unconnected ?] Q2 -- No --> A2[Change 20p cable. Change Main Power Ass'y.] Q2 -- Yes --> Q3[Check 'Stand-By 5V' ? BD203 : A5V] Q3 -- No --> A2 Q3 -- Yes --> Q4[Check 'Power input of Main Ass'y' ? BD206 : B18VS BD207/208/209 : B13V BD201 : B5V] Q4 -- No --> A2 Q4 -- Yes --> Q5[Check 'Power IC output of Main Ass'y' ? L202 : B3.3V / L203 : B1.2V L204 : B1.1V / L201 : B1.5V IC203 : 3.3V / IC208 : 3.3V] Q5 -- No --> A3[Change the Main Ass'y.] Q5 -- Yes --> Q6[Check Input power of 'T-con b'd' ? F11(T-CON) : B13V] Q6 -- No --> A4[Reconnect or Change. the LVDS cable.] Q6 -- Yes --> Q7[Check Power of 'T-con b'd' ? L9(T-CON) : VCC12 TP_VCC33 : VCC33] Q7 -- No --> A4 Q7 -- Yes --> A5[Please, Contact tech support.] </pre>
Caution	Make sure to disconnect the power before working on the IP board.

■ Location of Parts

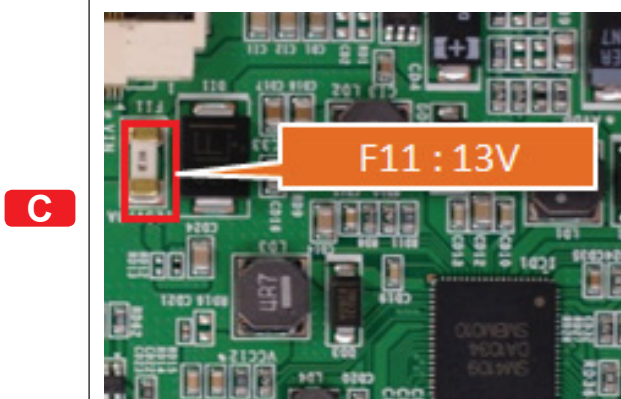
Main Board_Front	
	
Detail	
<div><div>A</div><p>BD207 : B13V</p><p>BD208</p><p>BD206 :</p><p>BD206 : B5V</p><p>BD203 : A5V</p></div>	<div><div>B</div><p>L202 : B3.3V</p><p>L204 : B1.1V</p><p>L201 : B1.5V</p><p>L203 : B1.2V</p><p>IC208 : 3.3V</p><p>IC203 : 3.3V</p></div>

■ Location of Parts

T-Con Board_Front



Detail



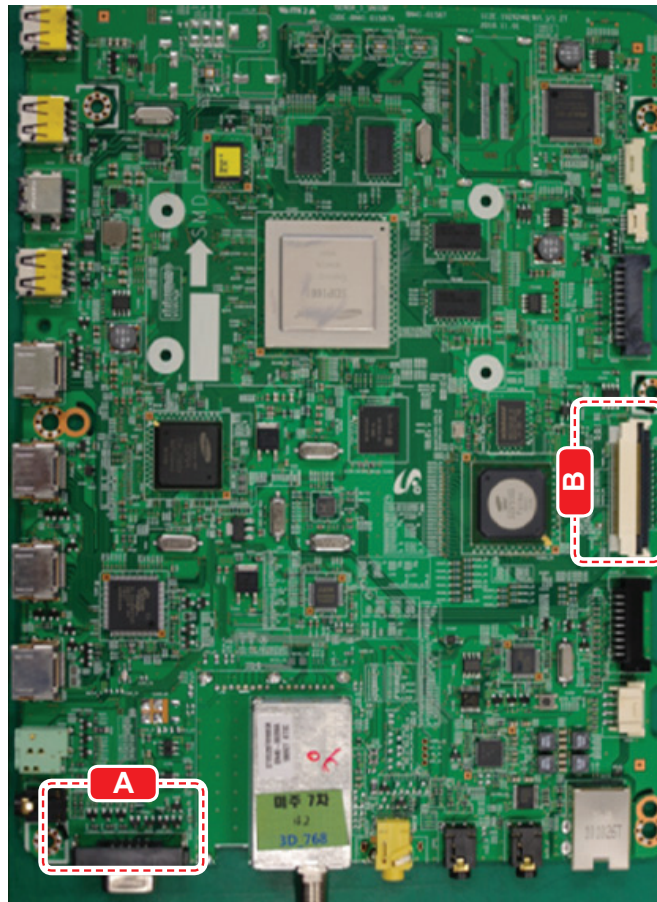
4-2-2. No Video (Analog PC signal)

- Refer to the next page to check the location such a CN201 or IC201 SVC Manual mentioned.

Symptom	<ul style="list-style-type: none"> Audio is normal but no picture is displayed on the screen.
Major checkpoints	<ul style="list-style-type: none"> Check the PC source Check the Arsenal, Check the Valencia. This may happen when the LVDS cable connecting the Main Board and the Panel is disconnected.
Diagnostics	<pre> graph TD Q1[Power indicator LED is off. Lamp(Backlight) on, no video ?] -- No --> A1[Check a set in the 'Stand-by mode' or 'DPMS mode'.] Q1 -- Yes --> Q2[Check the PC source and check the connection of D-SUB ?] Q2 -- No --> A2[Input the analog PC signal properly.] Q2 -- Yes --> Q3[Check the signal appear at input of IC901 ? PC_RED : BD401 PC_GREEN : BD402 PC_BLUE : BD403 PC_H_SYNK : R408 PC_V_SYNK : R409] Q3 -- No --> A3[Check CN401, PC cable. Change the Main Ass'y.] Q3 -- Yes --> Q4[Check the LVDS clk signal at output of Main board.(TX) ? TX2_CLK : LV_TX2_DN/DP TX4_CLK : LV_TX4_DN/DP] Q4 -- No --> A4[Check IC1001(GenoaS) and IC2001(Parma). Change the Main Ass'y.] Q4 -- Yes --> Q5[Check the LVDS cable ? Replace the T-con / LCD panel ?] Q5 -- No --> A5[Please, Contact Tech support.] </pre>
Caution	Make sure to disconnect the power before working on the IP board.

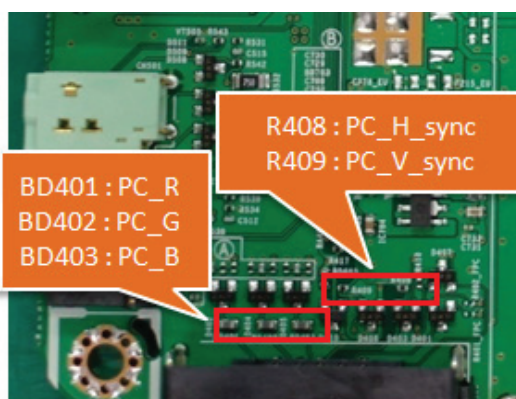
■ Location of Parts

Main Board_Front

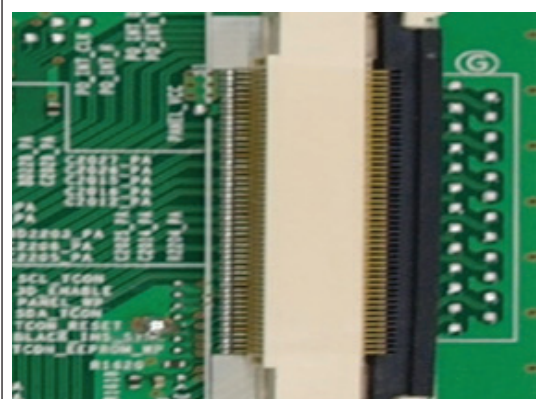


Detail

A

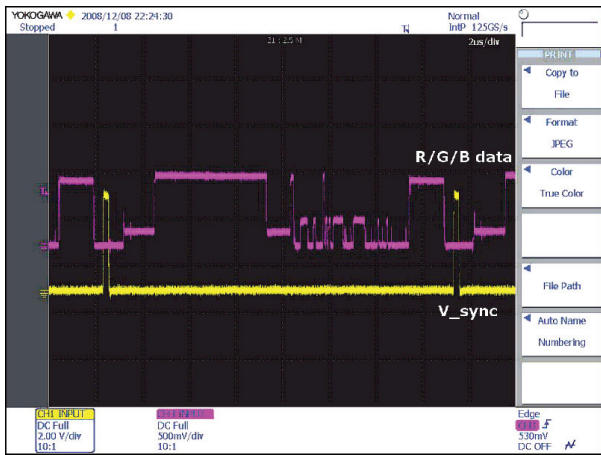
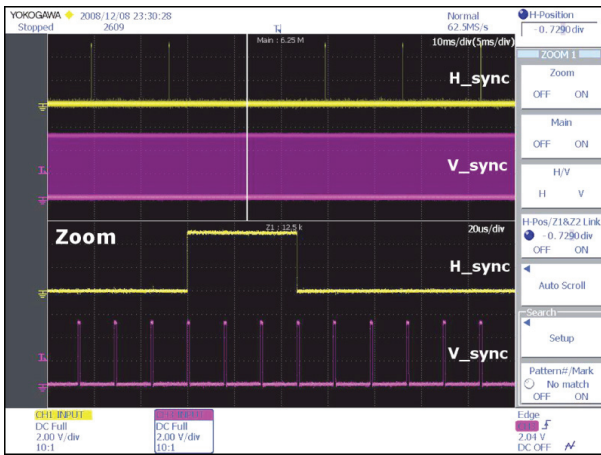


B

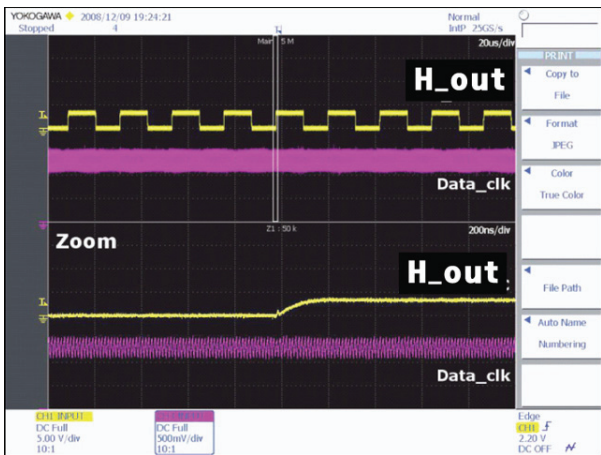


■ WAVEFORMS

1 PC input (V-sink, H-sink, R/G/B)



2 LVDS output



4-1-3. No Video (HDMI - Digital Signal)

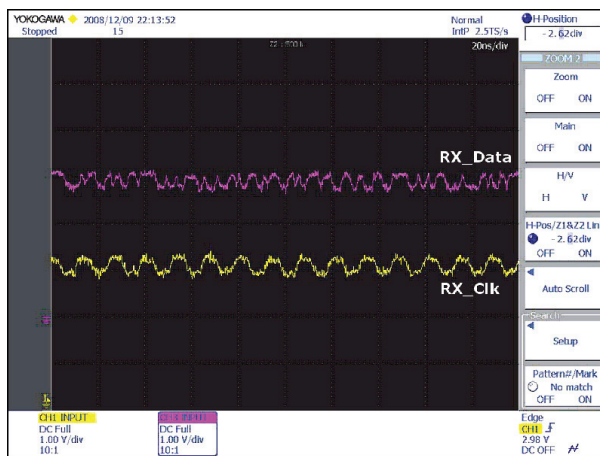
- Refer to the next page to check the location such a CN201 or IC201 SVC Manual mentioned.

Symptom	<ul style="list-style-type: none"> Audio is normal but no picture is displayed on the screen.
Major checkpoints	<ul style="list-style-type: none"> Check the HDMI source Check the Valencia This may happen when the LVDS cable connecting the Main Board and the Panel is disconnected.
Diagnostics	<pre> graph TD Q1[Power indicator LED is off. Lamp(Backlight) on, no video ?] -- No --> A1[Check a set in the 'Stand-by mode'.] Q1 -- Yes --> Q2[Check the HDMI source and check the connection of HDMI cable ?] Q2 -- No --> A2[Input the HDMI signal properly.] Q2 -- Yes --> Q3[Check the signal at Input of Main board ? HDMI1 Clk : Pin #31,#32 of IC601 DATA : Pin #33~#38 of IC601 HDMI2 Clk : Pin #21,#22 of IC601 DATA : Pin #23~#28 of IC601 HDMI3 Clk : Pin #11,#12 of IC601 DATA : Pin #13~#18 of IC601 HDMI4 Clk : Pin #2,#3 of IC601 DATA : Pin #4~#9 of IC601] Q3 -- No --> A3[Check CN601~4. Check HDMI cable. Change the Main Assy.] Q3 -- Yes --> Q4[Check the signal at Output of 'HDMI switch IC' ? HDMI RX_Clk : Pin#116~117 of IC601 RX_Data : Pin#110~115 of IC601] Q4 -- No --> A4[Check IC601(HDMI switch). Change the Main Assy.] Q4 -- Yes --> Q5[Check the LVDS clk signal at output of Main board ? (TX) TX2_CLK : LV_TX2_DN/DP TX4_CLK : LV_TX4_DN/DP] Q5 -- No --> A5[Check IC1001(GenoaS) and IC2001(Parma). Change the Main Assy.] Q5 -- Yes --> Q6[Check the LVDS cable ? Replace the T-con / LCD panel ?] Q6 -- No --> A6[Please, Contact Tech support.] </pre>
Caution	Make sure to disconnect the power before working on the IP board.

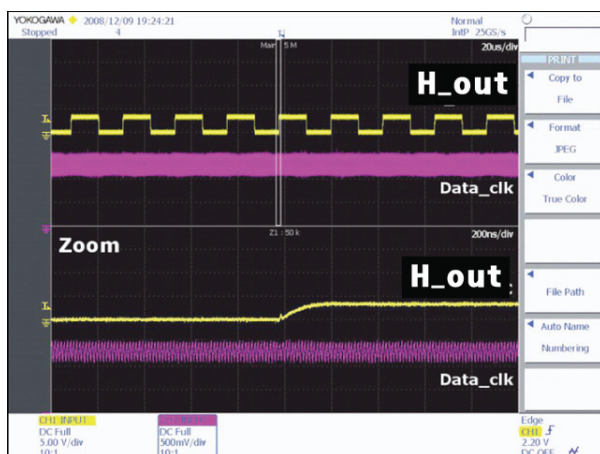
Figure 1 consists of two photographs, labeled A and B, showing the camera module and its connector. Photograph A is a top-down view of the camera module, which is a small black component with a square shape. It is mounted on a green printed circuit board (PCB). Four orange callout boxes with white text point to specific pins: 'Pin #1' points to the top-left pin, 'Pin #32' points to the bottom-left pin, 'Pin #65' points to the bottom-right pin, and 'Pin #96' points to the top-right pin. The module has 'Silicon Image ES' and '919489CTUC' printed on it. Photograph B is a close-up view of the camera module's connector, which is a black plastic component with many gold-plated pins. The connector is mounted on a green PCB. The pins are arranged in two rows. The top row of pins is labeled with 'Pin #1' through 'Pin #96' in orange callout boxes. The bottom row of pins is labeled with 'Pin #97' through 'Pin #192' in orange callout boxes. The connector is labeled 'CAMERA' and 'CAMERA' on the PCB.

■ WAVEFORMS

1 PC input (V-sink, H-sink, R/G/B)



2 LVDS output



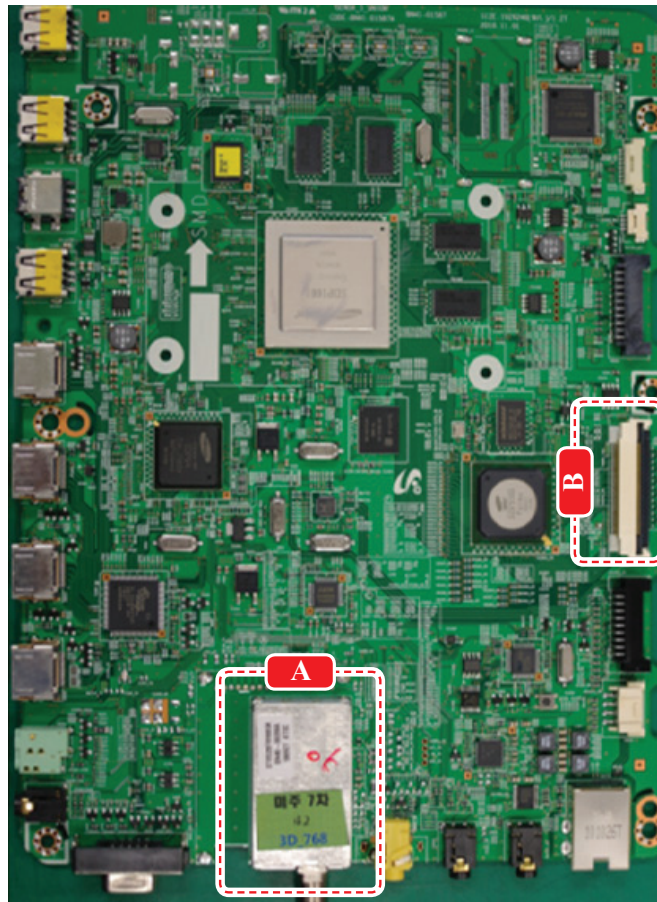
4-1-4. No Video (Tuner_CVBS)

- Refer to the next page to check the location such a CN201 or IC201 SVC Manual mentioned.

Symptom	<ul style="list-style-type: none"> Audio is normal but no picture is displayed on the screen.
Major checkpoints	<ul style="list-style-type: none"> Check the Tuner CVBS source Check the Genoa-P This may happen when the LVDS cable connecting the Main Board and the Panel is disconnected.
Diagnostics	<pre> graph TD Q1[Power indicator LED is off. Lamp(Backlight) on, no video ?] -- No --> A1[Check a set in the 'Stand-by mode'.] Q1 -- Yes --> Q2[Check the RF source and check the connection of RF cable ?] Q2 -- No --> A2[Input the RF source properly.] Q2 -- Yes --> Q3[Check the Power of Tuner ? Pin #4 of Tuner : B3.3V_Tuner Pin #2 of Tuner : B1.8V_Tuner] Q3 -- No --> A3[Change the Main Assy.] Q3 -- Yes --> Q4[Check the CVBS data out of IC901 ? C941 : Tuner CVBS] Q4 -- No --> A4[Check Tuner and IC801(Arsenal). Change the Main Assy.] Q4 -- Yes --> Q5[Check the LVDS clk signal at output of Main board ? (TX) TX2_CLK : LV_TX2_DN/DP TX4_CLK : LV_TX4_DN/DP] Q5 -- No --> A5[Check IC1001(GenoaS) and IC2001(Parma). Change the Main Assy.] Q5 -- Yes --> Q6[Check the LVDS cable ? Replace the T-con / LCD panel ?] Q6 -- No --> A6[Please, Contact Tech support.] </pre>
Caution	Make sure to disconnect the power before working on the IP board.

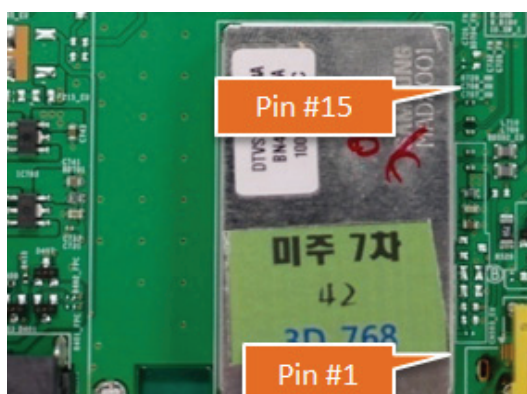
■ Location of Parts

Main Board_Front



Detail

A

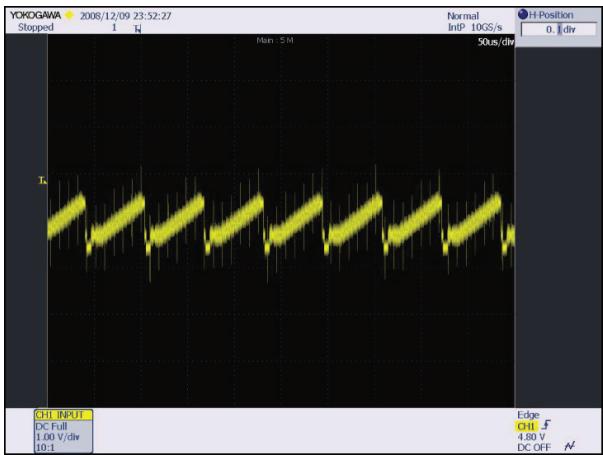


B

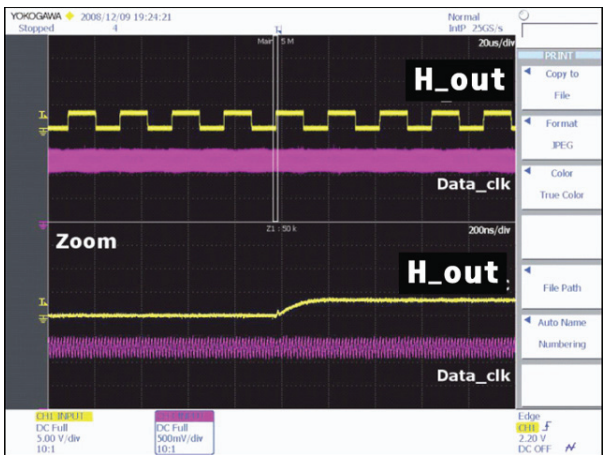


■ WAVEFORMS

① CVBS OUT (Grey Bar)



② LVDS output

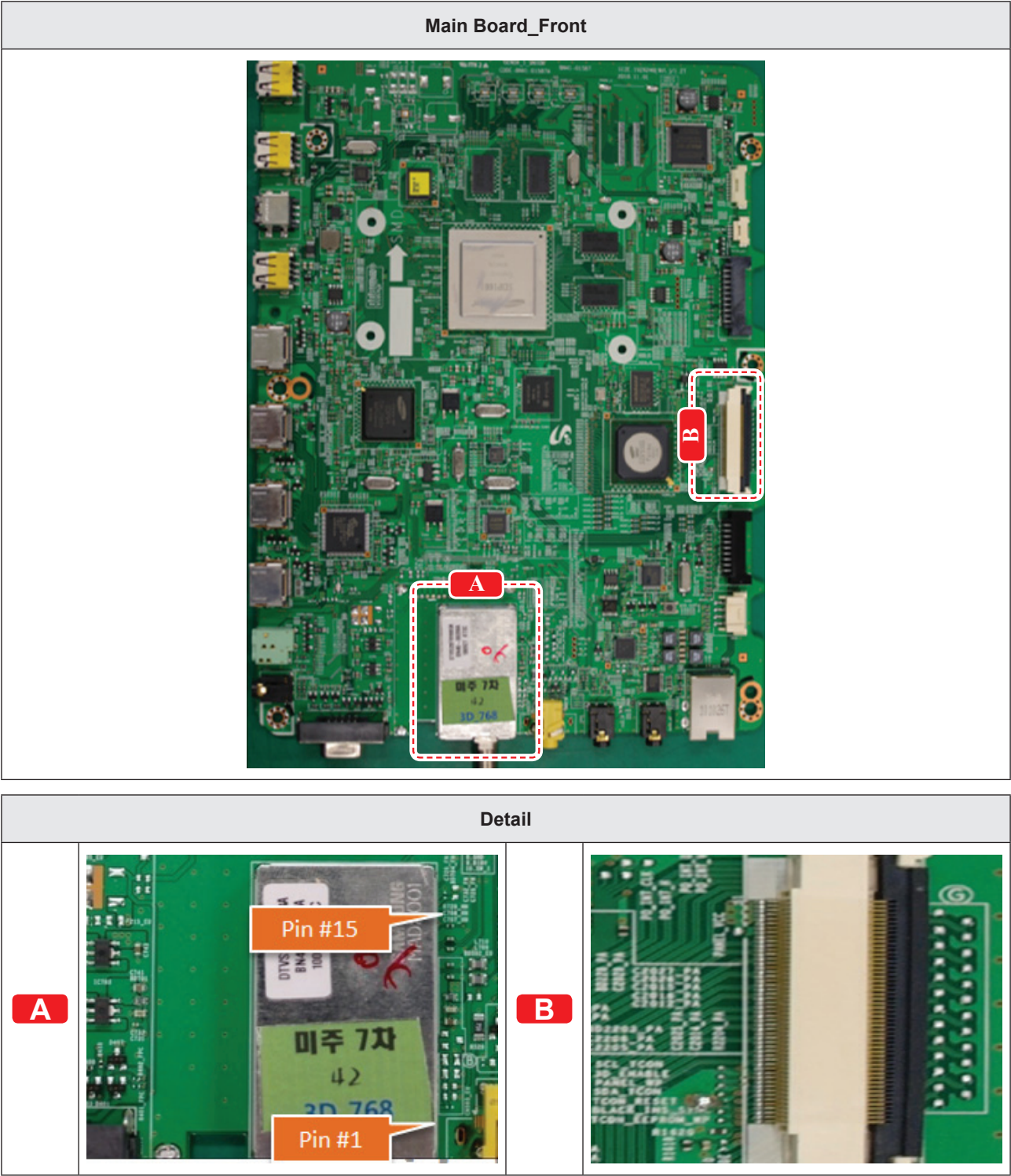


4-1-5. No Video (Tuner DTV)

- Refer to the next page to check the location such a CN201 or IC201 SVC Manual mentioned.

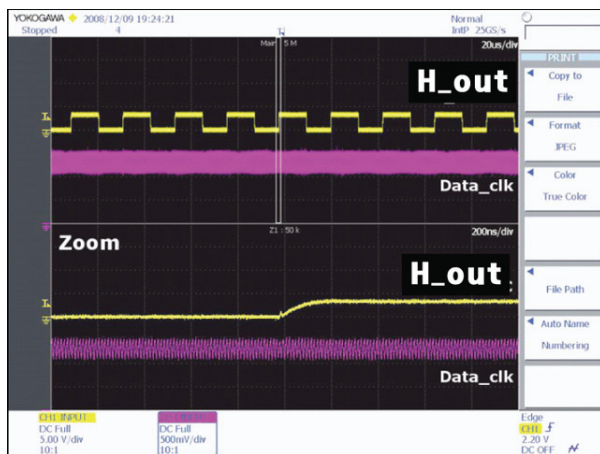
Symptom	<ul style="list-style-type: none"> Audio is normal but no picture is displayed on the screen.
Major checkpoints	<ul style="list-style-type: none"> Check the DTV source. Check the Tuner, Check the Valencia. This may happen when the LVDS cable connecting the Main Board and the Panel is disconnected.
Diagnostics	<pre> graph TD Q1[Power indicator LED is off. Lamp(Backlight) on, no video ?] -- No --> A1[Check a set in the 'Stand-by mode'.] Q1 -- Yes --> Q2[Check the RF source and check the connection of RF cable ?] Q2 -- No --> A2[Input the RF source properly.] Q2 -- Yes --> Q3[1 Check the 'signal strength' in Self Diagnosis menu Strength is enough ?] Q3 -- No --> A3[Check the D-TV source.] Q3 -- Yes --> Q4[2 Check the Power of Tuner ? Pin #4 of Tuner : B3.3V_Tuner Pin #2 of Tuner : B1.8V_Tuner] Q4 -- No --> A4[Change the Main Assy.] Q4 -- Yes --> Q5[2 Check the CHIF output of IC801 ? Pin #10 of Tuner : DIF+ Pin #11 of Tuner : DIF] Q5 -- No --> A5[Check Tuner and IC801(Arsenal). Change the Main Assy.] Q5 -- Yes --> Q6[2 Check the LVDS clk signal at output of Main board ? (TX) TX2_CLK : LV_TX2_DN/DP TX4_CLK : LV_TX4_DN/DP] Q6 -- No --> A6[Check IC1001(GenoaS) and IC2001(Parma). Change the Main Assy.] Q6 -- Yes --> Q7[Check the LVDS cable ? Replace the T-con / LCD panel ?] Q7 -- No --> A7[Please, Contact Tech support.] </pre>
Caution	Make sure to disconnect the power before working on the IP board.

■ Location of Parts

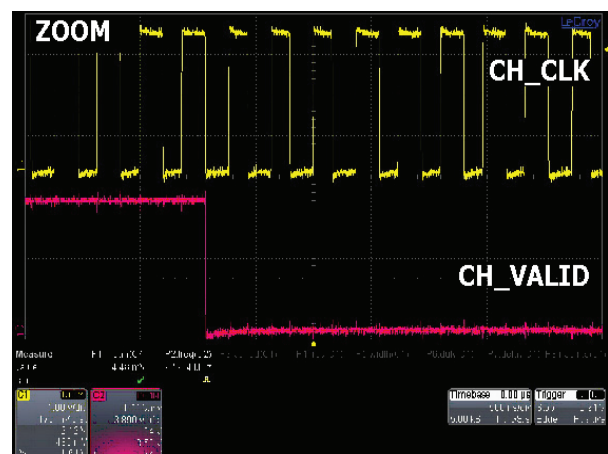
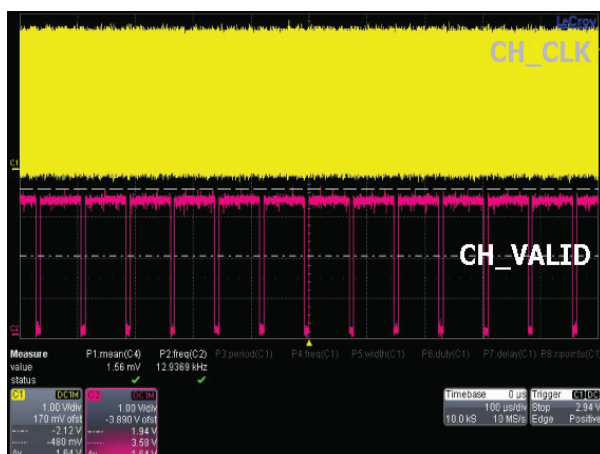


■ WAVEFORMS

① LVDS output



② CH_CLK, CH_VALID

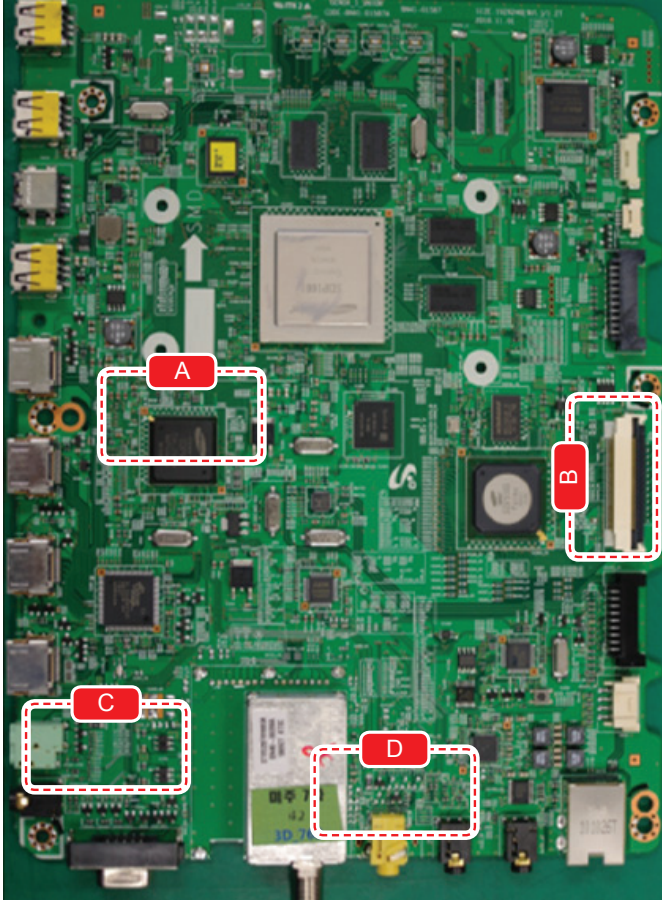






4-1-6. No Video (Video CVBS 1, 2)

- Refer to the next page to check the location such a CN201 or IC201 SVC Manual mentioned.

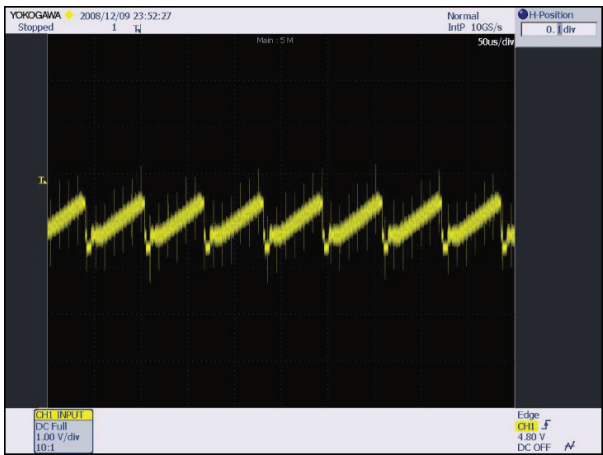
Symptom	<ul style="list-style-type: none"> Audio is normal but no picture is displayed on the screen.
Major checkpoints	<ul style="list-style-type: none"> Check the Video CVBS source. Check the Tuner, Check the Valencia. This may happen when the LVDS cable connecting the Main Board and the Panel is disconnected.
Diagnostics	<pre> graph TD Q1[Power indicator LED is off. Lamp(Backlight) on, no video ?] -- No --> A1[Check a set in the 'Stand-by mode'.] Q1 -- Yes --> Q2[Check the RF source and check the connection of RF cable ?] Q2 -- No --> A2[Input the RF source properly.] Q2 -- Yes --> Q3[Check the CVBS signal at Input of IC801(Arsenal) ? AV1 R501 : AV1_CVBS AV2 R505 : AV2_CVBS] Q3 -- No --> A3[Check CN502 or CN501. Change the Main Assy.] Q3 -- Yes --> Q4[Check the CVBS clk signal at output of IC801 (Arsenal)? R807 : ASN_CVBS_CLK] Q4 -- No --> A4[Check IC1001(GenoaS) and IC2001(Parma). Change the Main Assy.] Q4 -- Yes --> Q5[Check the LVDS clk signal at output of Main board ? (TX) TX2_CLK : LV_TX2_DN/DP TX4_CLK : LV_TX4_DN/DP] Q5 -- No --> A5[Check IC1001(GenoaS) and IC2001(Parma). Change the Main Assy.] Q5 -- Yes --> Q6[Check the LVDS cable ? Replace the T-con / LCD panel ?] Q6 -- No --> A6[Please, Contact Tech support.] </pre>
Caution	Make sure to disconnect the power before working on the IP board.

■ Location of Parts

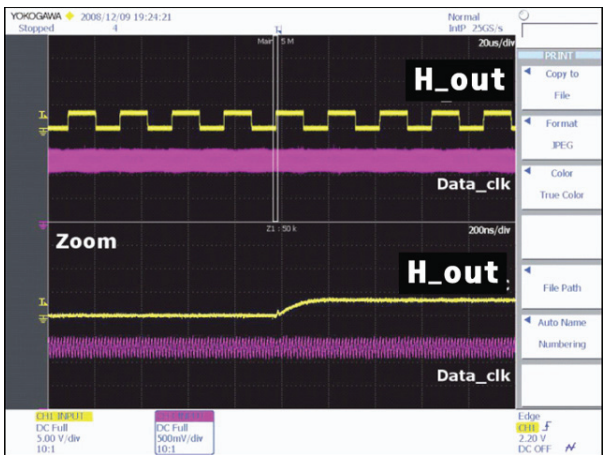
Main Board_Front	
	
Detail	
A 	B 
C 	D 

■ WAVEFORMS

① CVBS OUT (Grey Bar)



② LVDS output



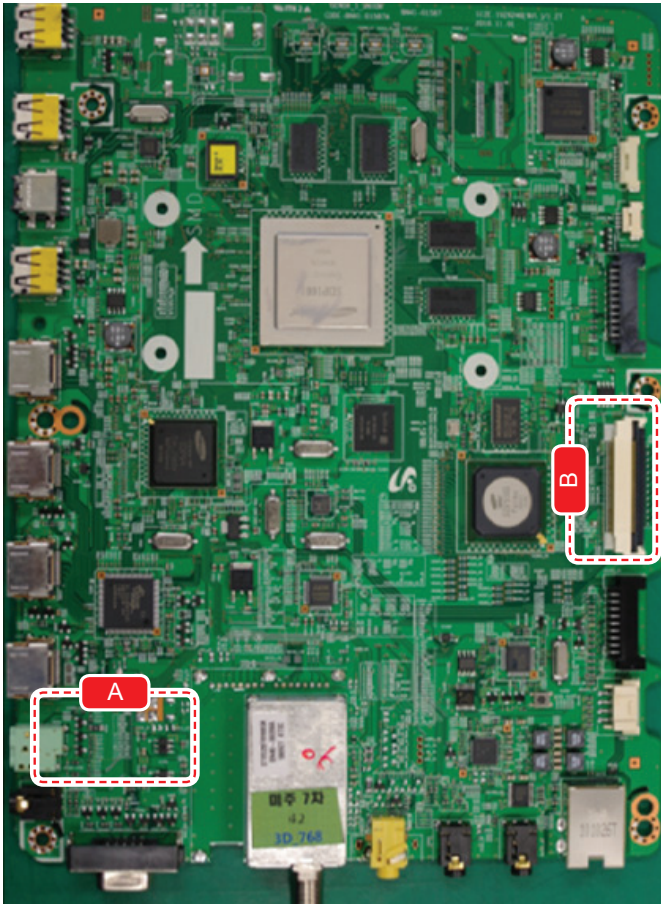
4-1-7. No Video (Component)

- Refer to the next page to check the location such a CN201 or IC201 SVC Manual mentioned.

Symptom	<ul style="list-style-type: none"> Audio is normal but no picture is displayed on the screen.
Major checkpoints	<ul style="list-style-type: none"> Check the Component source Check the Valencia This may happen when the LVDS cable connecting the Main Board and the Panel is disconnected.
Diagnostics	<pre> graph TD Q1[Power indicator LED is off. Lamp(Backlight) on, no video ?] -- No --> A1[Check a set in the 'Stand-by mode'.] Q1 -- Yes --> Q2[Check the component source and check the connection of component cables(Y,Pb,Pr) ?] Q2 -- No --> A2[Input the component source properly.] Q2 -- Yes --> Q3[Does the component data appear at ? Comp1 Y : R537 Pb : R544 Pr : R542] Q3 -- No --> A3[Check CN501 or Compnent gender. Change the Main Assy.] Q3 -- Yes --> Q4[Check the LVDS clk signal at output of Main board ? (TX) TX2_CLK : LV_TX2_DN/DP TX4_CLK : LV_TX4_DN/DP] Q4 -- No --> A4[Check IC1001(GenoaS) and IC2001(Parma). Change the Main Assy.] Q4 -- Yes --> Q5[Check the LVDS cable? Check the T-con board? Replace the LCD panel?] Q5 -- No --> A5[Please, Contact Tech support.] </pre>
Caution	Make sure to disconnect the power before working on the IP board.

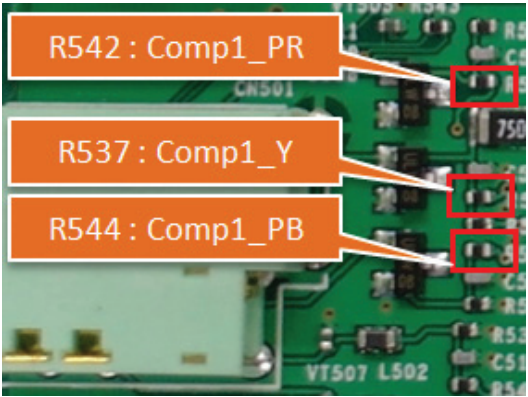
■ Location of Parts

Main Board_Front

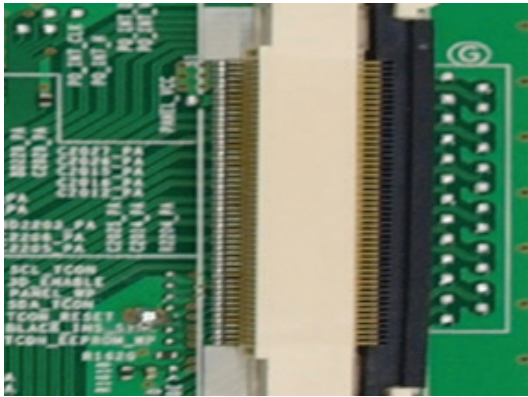
A photograph of the front of a green printed circuit board (PCB) populated with various electronic components. A white arrow points to a component labeled 'SMD'. Two areas are highlighted with red dashed boxes and labeled 'A' and 'B'. Box 'A' is located on the left side of the board, and box 'B' is on the right side, near a large connector.

Detail

A

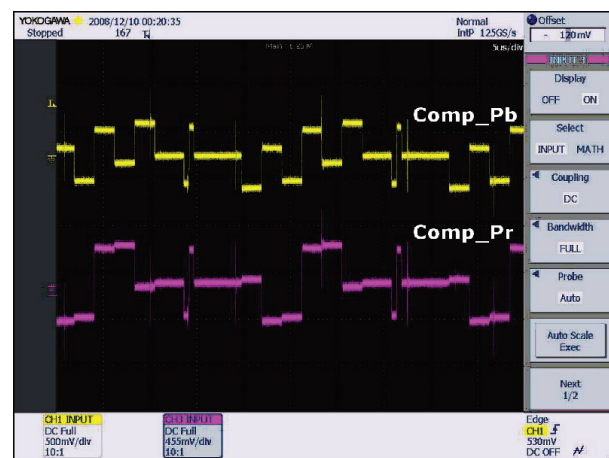
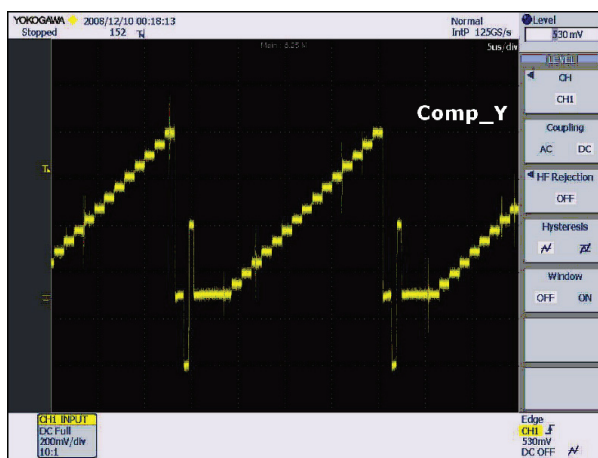
A close-up photograph of the area marked 'A' on the main board. Three orange callout boxes with white text point to specific components: 'R542 : Comp1_PR', 'R537 : Comp1_Y', and 'R544 : Comp1_PB'. Each component is highlighted with a red square box. The PCB is green with various components and labels like 'VT507 L502' and 'VT509 R553' visible.

B

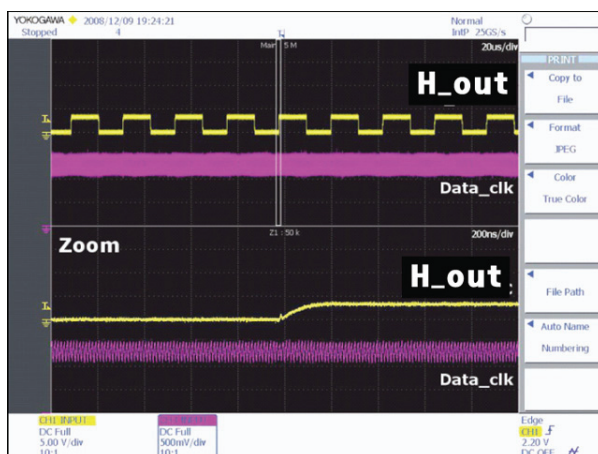
A close-up photograph of the area marked 'B' on the main board, showing a large multi-pin connector and the surrounding PCB traces and components.

■ WAVEFORMS

① Component_Y (Gray scale) / Pb / Pr (Color bar)



② LVDS output

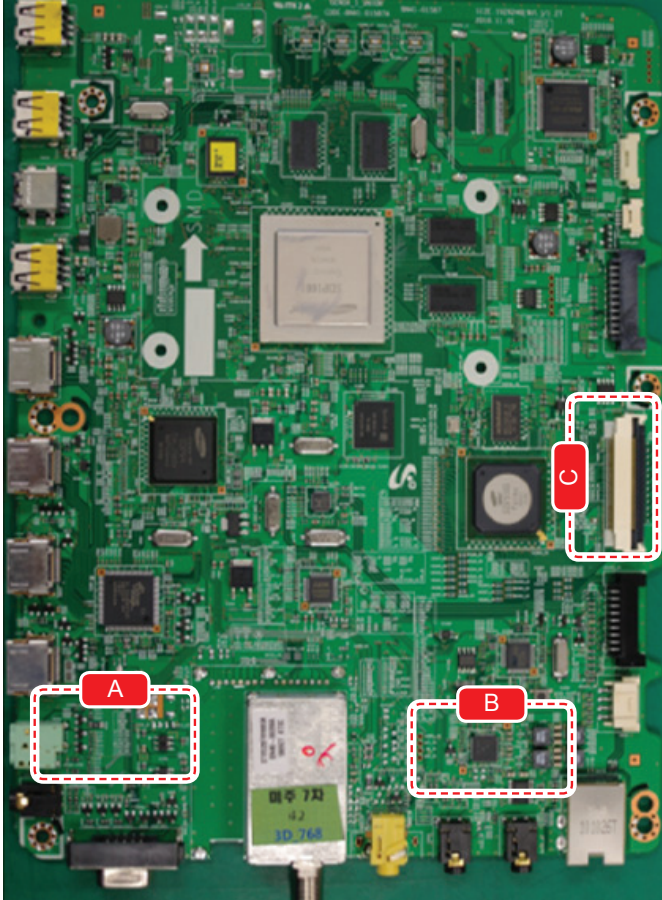
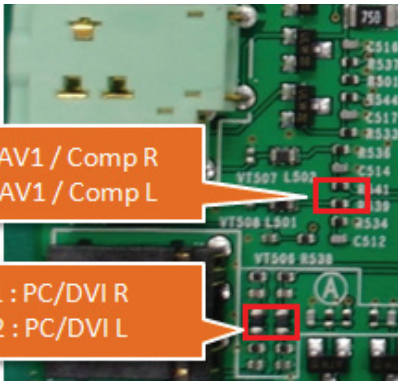
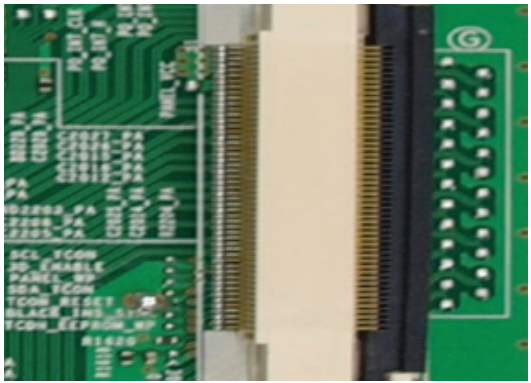
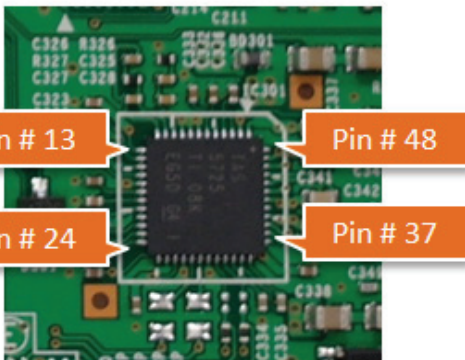


4-1-8. No Sound (1.Speaker 2.Monitor_out, 3.Optical)

- Refer to the next page to check the location such a CN201 or IC201 SVC Manual mentioned.

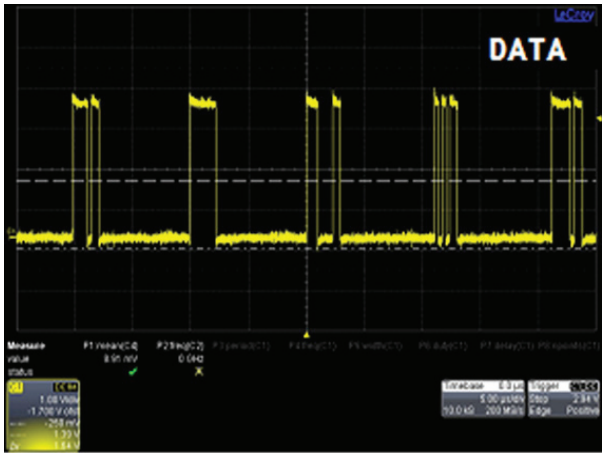
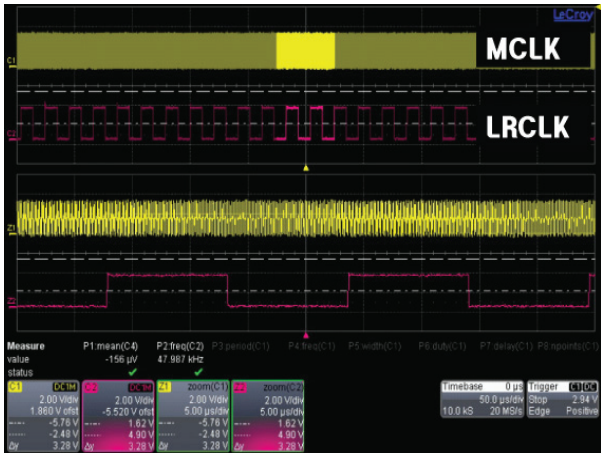
Symptom	<ul style="list-style-type: none"> Video is normal but there is no sound.
Major checkpoints	<ul style="list-style-type: none"> When the speaker connectors are disconnected or damaged. When the sound processing part of the Main Board is not functioning. Speaker defect.
Diagnostics	<pre> graph TD Q1[Check the source and check the connection of sound cable (Comp/PC/DVI to HDMI) ?] -- No --> A1[Input the sound source properly.] Q1 -- Yes --> Q2[Check the signal at input of Main board? AV1, COMP1 R : R541 / L : R539 PC, DVI R : L401 / L : L402] Q2 -- No --> A2[Check CN501, CN402. Change the Main Assy.] Q2 -- Yes --> Q3[Check the DATA between the Audio IC's ? Pin #15 of IC301 : Mclk Pin #20 of IC301 : LRclk Pin #22,#23 of IC301 : I2C_DA/CL] Q3 -- No --> A3[Check IC301, IC303. Change the Main Assy.] Q3 -- Yes --> Q4[1. Check the Speaker sound data at ? CN301 2. Check the Monitor out sound data at ? CN302 3. Does the SODIF OUT sound data appear at ? CN303] Q4 -- No --> A4[Check IC301, IC303. Change the Main Assy.] Q4 -- Yes --> Q5[Replace speaker ?] Q5 -- No --> A5[Please, Contact Tech support.] </pre>
Caution	Make sure to disconnect the power before working on the IP board.

■ Location of Parts

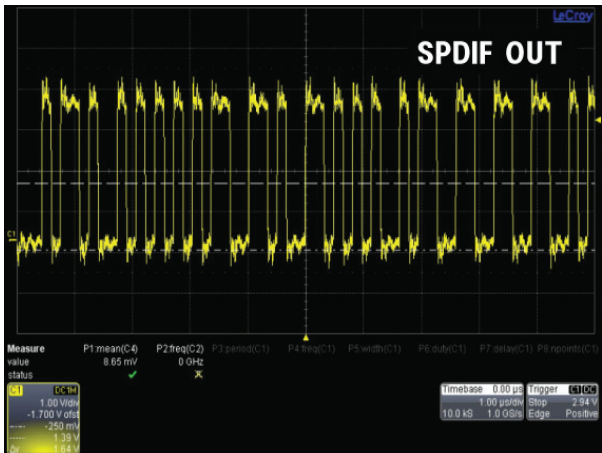
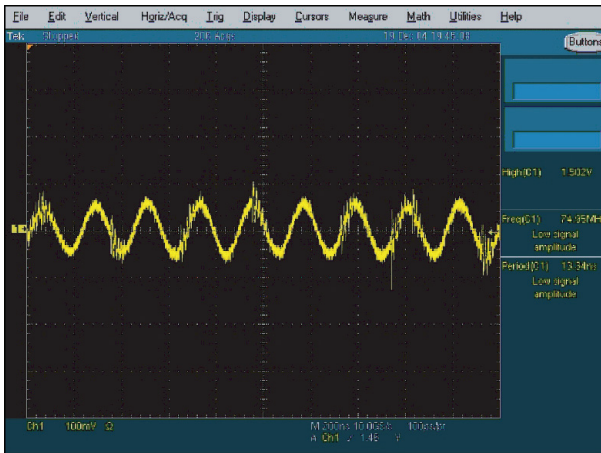
Main Board_Front			
			
Detail			
A	 <p>R541 : AV1 / Comp R R539 : AV1 / Comp L</p> <p>L401 : PC/DVI R L402 : PC/DVI L</p>	B	
	 <p>Pin # 13</p> <p>Pin # 24</p> <p>Pin # 37</p> <p>Pin # 48</p>		

■ WAVEFORMS

① MCLK / LRCLK / PCM_I2C_DATA



② Speaker / Monitor OUT , SPDIF OUT



4-3. Fuction

■ Control the sensitivity of function key is available in Factory Mode

Option		
Control	Sub Option	KEY SENSITIVITY
SVC		FUNCTION KEY
Expert		
ADC/WB		
Advanced		

KEY SENSITIVITY

Default : 39

- 1~254, Not Used
- Raising this value, the sensitivity decreases.
- Not Used : Not use sensitivity, use Fuction default value.

FUNCTION KEY

Default : UNLOCK

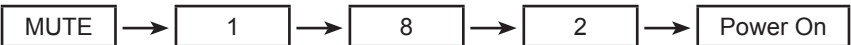
- Set value to 'LOCK', Lock the function key.

4-4. Factory Mode Adjustments

4-4-1. 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)

■ Initial SERVICE MODE DISPLAY State

Option	T-GASAKUC-xxxx
Contro	T-GENAUSS1-xxxx
SVC	EDID SUCCESS
Expert	CALIB : AV O COMP O PC O HMDI O
ADC/WB	Option : xxxx xxxx xxx
Advanced	DTP-SP-VAL-xxxx
	RFS : "Genoa.S 0055"
	2010-XX-XX
	onboot :
	GASFRC3D : XXXX
	PARMA3D : XXXX
	Type : XXXX
	Model : UNXXD6XXX
	MAC SUCCESS
	LOCK X
	DRM XX
	Factory Data Ver : 88
	DTP-AP-COMP-347
	DTP-HIGH-0342-1
	TLIB US3 1G 2008-11-18-01
	DTP-BP-0350
	Date of purchase : mm/dd/yyyy

4-4-2. Factory Data

■ Option

Factory Menu Name	Data	Range	Remark
Factory Reset	-		
Type	32D1UF0E/40A1UF0E/46A1UF0E/55A1UF0E		
Local set	US		
Model	UD6000/UD6050/UD6300		
TUNER	SEC_Si2173		
DDR			
Light Effect	Off		
Ch table	...		
Country	USA		
Front Color	U-T-R-BK/U-T-C-BK		

■ Control

Factory Menu Name	Data	Range	Remark
EDID			
EDID ON/OFF	Off		
EDID WRITE ALL	...		
EDID WRITE HDMI	...		
EDID WRITE PC	...		
HDMI EDID Ver	...		
HDMI EDID Port	...		
Sub Option			
Region	USA		
PnP Language	ENG_US		
RF Mute Time	0ms		
RS-232 Jack	UART		
Watchdog	OFF		
WD COUNT	255		
Dimm Type	EXT		
LVDS FORMAT	VESA		
Language_Arabic	US		
Auto Power	31		
TOOLS Support	OFF		
LNA Support	OFF		
CI Support			
NETWORK Support			

4. Troubleshooting

Factory Menu Name	Data	Range	Remark
IPERF			
Info Link Country			
Info Link Server Type			
TTX List			
TTX Group			
ND ADJ Support			
24Px4 Support			
Power Indicator Support			
BD Wise Support			
RF Remocon Support			
Data Service Support			
PVR Support			
3D Support			
Gemstar Support			
WSS Support			
ColorSpace Support			
OTA Support			
OTA Duration Test			
Alternate Del			
OTN			
OTN Server Type	operating		
OTN Test Server	OFF		
OTN Support	ON		
OTN Reset	-		
OTN Duration	OFF		
OTN Fail Test	OFF		
Cable Modulation	QAM		
PC Auto Ident	Enable		
IIC BUS STOP	OFF		
Visual Test	Diable		
Emergency Log Copy			
View Log			
Select Log Type	IR KEY		
Log View			
Delete Log			
Spread Spectrum			
HD SSC ON/Off	OFF		
LVDS SSC ON/OFF	ON		
LVDS SSC Value	10		

Factory Menu Name	Data	Range	Remark
DDR SSC ON/Off	ON		
DDR SSC Value	4		
Napoli LVDS SSC On/Off	ON		
Napoli LVDS SSC MFR	0		
Napoli LVDS SSC MRR	31		
Napoli DDR SSC ON/OFF	ON		
Napoli DDR SSC MFR	0		
Napoli DDC SSC MRR	26		
DDR Margin	PN		
A CTRL_OFFSET_0_3	0		
A CTRL_OFFSET_D	0		
B CTRL_OFFSET_0_3	0		
B CTRL_OFFSET_D	0		
H.264 Margin	8		
MPEGMargin	1000		
TunerMargin	10		
SST			
Y0 TH	218		
Y1 TH	150		
Y2 TH	122		
Y3 TH	105		
Y4 TH	78		
Y5 TH	62		
Y6 TH	34		
Y7 TH	113		
Cb0 TH	127		
Cb1 TH	51		
Cb2 TH	152		
Cb3 TH	79		
Cb4 TH	177		
Cb5 TH	103		
Cb6 TH	204		
Cb7 TH	128		
Cr0 TH	127		
Cr1 TH	139		
Cr2 TH	54		
Cr3 TH	66		
Cr4 TH	189		
Cr5 TH	201		

4. Troubleshooting

Factory Menu Name	Data	Range	Remark
Cr6 TH	116		
Cr7 TH	128		
S.DEV0	100		
S.DEV1	80		
OTP Lock	0x0000		
Checksum			
EEPROM RESET EER RESET NVR All Clear			
3D OPTIMIZE VALUE			
FANET ON/OFF	OFF		
KEY SENSITIVITY	39		
LVDS OUTPUT			
FKP Down			
Function Key	OFF		
WIFI Region	5		
PDP Option			
Hospitality Option			
Shop Option			
Shop Mode	OFF		
Exhibition Mode	OFF		
3D_Emiton	ON		
3D_EmitShowMoe	OFF		
3D_GLASS PULSE_S	5		
3D_GLASS PULSE_H	3		
3D CUBE	OFF		
Asia Option			
TTX	OFF		
China HD	OFF		
NT Conversion	OFF		
Mono Last Memory	OFF		
Unbalance	OFF		
IF AGC	7		
D AGC	0		
PH BW	3		
FQ BW	3		
PH RATE	4		
PD EN	1		
SOUND			

Factory Menu Name	Data	Range	Remark
High Devi	OFF		
Carrier Mute	ON		
Volume Curve	Type1		
Pilot Level High Thld	0x30h		
Pilot Level Low Thld	0x10h		
Chattering Cnt	5		
FM Prescale	0x14h		
AM Prescale	0x1Ah		
NICAM Prescale	0x14h		
Amp Volume	0xCBh		
Amp Scale	0x3Dh		
AMP Speaker EQ	ON		
AMP EQ CheckSum	0xBCC084		
AMP PEQ Test	Ready		
AMP PEQ Dump			
SPDIF PCM Level	-9		
DNSe-IP Test	Ready		
DNSe-IP CheckSum	0x0000		
Config Option			
Num of ATV	1		
Num of DTV	2		
Num of AV	0		
Num of SVIDEO	1		
Num of COMP	4		
Num of HDMI	1		
Num of PC	0		
Num of SCART	0		
Num of DVI	0		
Num of OPTICAL Link	1		
Num of MEDIA	6		
Num of PANEL KEY	2		
Num of USB Port	0		
MFT Offset	62.5		
Select LCD/PDP	LCD		
Num of DECODER	2		
Num of TUNER	1		
HDMI/DVI SEL	1		
Indicator Led	ON		
Wall Mount	OFF		

4. Troubleshooting

Factory Menu Name	Data	Range	Remark
HV Flip	ON		
Num Of Display	2		
DVI/HDMI SOUND	Auto		
HDMI HOT PLUG	Disable		
HOTPLUG SWITCHING	Boot		
CLK TERMDURATION	300ms		
HOT PLUG OFF HOLD TIME	1200ms		
HDMI FLT CNT SIG	100ms		
HDMI FLT CNT LOS	100ms		
UNSTABLE BAN CNT	1250ms		
HDMI Err Cnt	1		
HDMI ROBIN	ON		
HDMI Callback	ON		
HDMI CTS Thld	0		
HDMI CTS Cnt1	0		
HDMI 3D Det	1		
TMDS_EQ2_Boost	1		
TMDS_EQ2_Gain	0		
TMDS_PLL_Loop	3		
TMDS_CPREG_BLEED	1		
HDMI EQ	AUTO		
HDMI EDID CTRL Type	Combine		
DVI SET TIME	300ms		
Type Of PANEL KEY	Vertical		
LD CTRL SELECT	FULL_CTRL		
PVR Record NUM	1		
Backend Device	NAPOLI		
ENCORDER	NXC1000		
BPARD CONTROL	ON		
All Share Support	ON		
SCC			
SCC Mode	Dynamic		
SCC ON/OFF	Off		
SCC Input Data			
Hx	272		
Hy	278		
Lx	272		
Ly	278		
sSCC Const			

Factory Menu Name	Data	Range	Remark
sSCC Hx	545		
sSCC Hy	571		
sSCC Lx	544		
sSCC Ly	572		
pSCC Const			
pSCC Hx	545		
pSCC Hy	571		
pSCC Lx	544		
pSCC Ly	572		
SCC Source Data	PBA		
SWAP	PBA		

■ SVC

Factory Menu Name	Data	Range	Remark
Test Pattern			
LOGIC Pattern Sel	0		
LOGIC Level Sel	255		
LDAsic Pattern Sel	0		
GenaoP Pattern Sel	0		
GenoaS Pattern Sel	0		
Napoli Pre Test Pattern	0		
Napoli Post Test Pattern	0		
Napoli FDISPLAY ON/OFF	OFF		
Napoli PC Mode ON/OFF	OFF		
HDMI WB Pattern	OFF		
HDMI Pattern Sel	0		
GenoaS FRC Post Test Pattern	0		
GenoaS FRC FDISPLAY ON/OFF	OFF		
GenoaS FRC PC Mode ON/OFF	OFF		
Panel Auto Setting	Fail		
PANEL DISPLAY TIME	0Hr		
T-CON USB Download	Failure		
T-CON CheckSum			
CPLD USB Download	Failure		
REMOCON PAIRING	X		
TC905x7			
MICOM UPGRADE	Off		
Function UPGRADE	Failure		

4. Troubleshooting

Factory Menu Name	Data	Range	Remark
Temp Last	60		
Temp Read	0		
DCC Version	0x40519		
DCC_CHK_SEL	0		
DCC_Check_Local	0x0		
DCC_Check_Total	0x0		
IR_ON_OFF	ON		
BT ADDRESS	0a5c00157085		
SVC Reset			

■ Expert

Factory Menu Name	Data	Range	Remark
N/D ADJ	OFF		
Source	...		

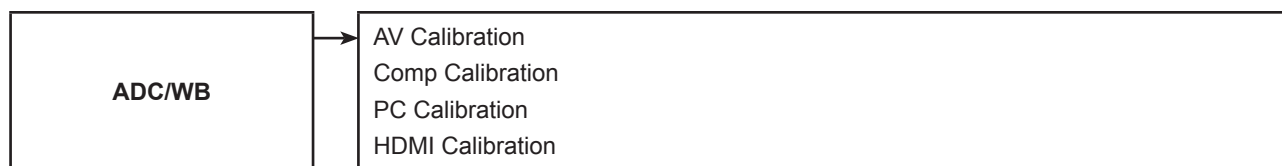
■ ADC/WB

Factory Menu Name	Data	Range	Remark
ADC			
AV Calibration	Success		
Comp Calibraion	Success		
PC Calibration	Success		
HDMI Calibration	Success		
ADC Target			
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	16		
1st_PC_High	1004		
2nd_AV_Low	4		
2nd_AV_High	940		
2nd_PC_Low	4		
2nd_PC_High	940		

Factory Menu Name	Data	Range	Remark
2nd_Delta	2		
ADC Result			
1st_Y_GH	250		
1st_Y_GL	246		
1st_Cb_BH	...		
1st_Cb_BL	...		
1st_Cr_RH	...		
1st_Cr_RL	...		
2nd_R_L	130		
2nd_G_L	130		
2nd_B_L	130		
2nd_R_H	108		
2nd_G_H	108		
2nd_B_H	108		
White Balance			
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	128		
Movie B-Offset	128		
Movie R-Gain	128		
Movie B-Gain	128		

4-5. White Balance

4-5-1. Calibration

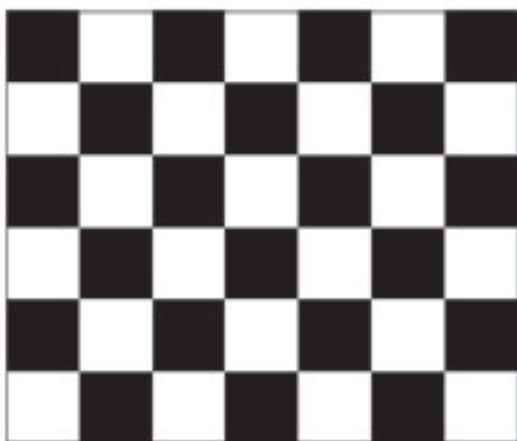


4-5-2. Service Adjustment

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

■ Color Calibration

1. Source : HDMI
2. Setting Mode : 1280 x 720@60Hz
3. Pattern : Pattern #24 (Chess Pattern)



4. Use Equipment : CA210 & Master MSPG925 Generator
 - 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.

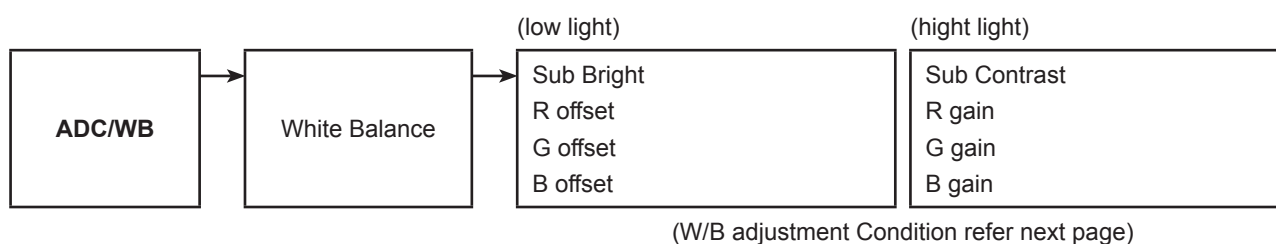
■ Method of Color Calibration (PC)

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.

4-5-3. Adjustment



4-6. Software Upgrade

Software Upgrade can be performed by network connection or downloading the latest firmware from “www.samsung.com” to a USB memory device.

■ By USB

Insert a USB drive containing the firmware upgrade file, downloaded from “www.samsung.com” into the TV. Please be careful not to disconnect the power or remove the USB drive until upgrades are complete. The TV will be turned off and on automatically after completing the firmware upgrade. When software is upgraded, video and audio settings you have made will return to their default settings. We advise you to write down your settings so that you can easily reset them after the upgrade.



- The displayed menu may differ depending on the model.

■ By Online

Upgrades the software using the Internet.

- First, configure your network. For detailed procedures on using the Network Setting, refer to the 'Setting the Network' instructions.
- If the internet connection doesn't operate properly, connection can be broken, please retry downloading.

If the problem still happens, download by USB and upgrade.

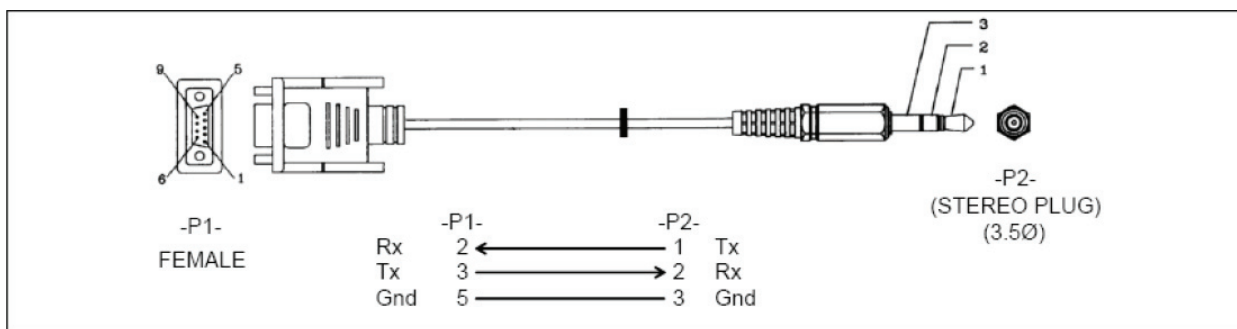
■ Standby mode upgrade(Off/On)

A manual upgrade will be automatically performed at selected time. Since the power of the unit is turned on internally, the screen may be turned on slightly for the LED product. This phenomenon may continue for more than 1 hour until the software upgrade is complete.

4-7. RS-232C

1. To RS232C Control
 - Port : COM#(Serial)
 - Bit rate : 115200
 - Data Bit : 8 bit
 - Parity : None
 - Stop Bits : 1
 - Flow Control : None
2. Description of RS232C

Pin#	Name	Full Name
1	CD	Carrier Detect
2	RxD	Received Data
3	TxD	Transmitted Data
4	DTR	Data Terminal Ready
5	GND	Signal Ground
6	DSR	Data Set Ready
7	RTS	Request To Send
8	CTS	Clear To Send
9	RI	Ring Indicator



4-8. AV control code

General	Control Item				Cmd1	Cmd2	Cmd3	Value
	Power	Power			0x00	0x00	0x00	0x00
		Off						0x01
		On						0x02
	Volume	Direct			0x01	0x00	0x00	(0~100)
		Up					0x01	0x00
		Down					0x02	0x00
	Mute				0x02	0x00	0x00	0x00
		Ch.	Direct		0x04	-		
			Continuous	Up	0x03	0x00	0x01	0x00
Down				0x02			0x00	

Input	Control Item			Cmd1	Cmd2	Cmd3	Value
	Source List	TV	TV	0x0a	0x00	0x00	0x00
		AV	AV1			0x01	0x00
			AV2				0x01
			AV3				0x02
		S-Video	S-Video1			0x02	0x00
			S-Video2				0x01
			S-Video3				0x02
		Component	Component1			0x03	0x00
			Component2				0x01
			Component3				0x02
		PC	PC1			0x04	0x00
			PC2				0x01
			PC3				0x02
		HDMI	HDMI1			0x05	0x00
			HDMI2				0x01
			HDMI3				0x02
			HDMI4				0x03
		DVI	DVI1			0x06	0x00
			DVI2				0x01
			DVI3				0x02

PICTURE	Control Item		Cmd1	Cmd2	Cmd3	Value
	Mode					
	Mode	Dynamic(Entertain)	0x0b	0x00	0x00	0x00
		Standard				0x01
		Movie				0x02
		Natural				0x03
		CAL-NIGHT				0x04
		CAL-DAY				0x05
		BD Wise				0x06
	BackLight			0x01	0x00	(0~20)
	Contrast			0x02	0x00	(0~100)
	Brightness			0x03	0x00	(0~100)
	Sharpness			0x04	0x00	(0~100)
	Color			0x05	0x00	(0~100)
	Tint	G/R		0x06	0x00	(0~100)
	Advanced Settings	Black Tone		0x07	0x00	0x00
						0x01
						0x02
						0x03
		Dynamic Contrast	Off		0x01	0x00
			Low			0x01
			Medium			0x02
			High			
		Shadow Detail	-2 ~ 2		0x02	(-2~2)
		Gamma	-3 ~ 3		0x03	(-3~3)
		RGB Only Mode	Off		0x05	0x00
			Red			0x01
			Green			0x02
			Blue			0x03
		Color Space	Auto		0x06	0x00
			Native			0x01
			Custom			0x02
		White Balance	R-Offset(LCD)		0x07	(0~50)
		White Balance	G-Offset(LCD)		0x08	(0~50)
		White Balance	B-Offset(LCD)		0x09	(0~50)
		White Balance	R-Gain(LCD)		0x0a	(0~50)
		White Balance	G-Gain(LCD)		0x0b	(0~50)
		White Balance	B-Gain(LCD)		0x0c	(0~50)
		White Balance	Reset(LCD)		0x0d	0x00
		Flesh Tone	-15 ~ 15		0x0e	(-15~15)

4. Troubleshooting

	Picture Option	Edge Enhancement	Off			0x0f	0x00
			On				0x01
		xvYCC	Off			0x10	0x00
			On				0x01
		Motion Lighting	Off			0x11	0x00
			On				0x01
		LED Motion Plus	Off			0x07	0x00
			On(Normal)				0x01
			Cinema				0x02
			Ticker				0x03
		Color Tone	Cool		0x0a	0x00	0x00
			Normal				0x01
			Warm1				0x02
			Warm2				0x03
		Digital Noise Filter	Off			0x02	0x00
			Low				0x01
			Medium				0x02
			High				0x03
			Auto				0x04
			Auto Visualization				0x05
		MPEG Noise Filter	Off			0x03	0x00
			Low				0x01
			Medium				0x02
			High				0x03
			Auto				0x04
		HDMI Black Level	Normal			0x04	0x00
			Low				0x01
		Film Mode	Off			0x05	0x00
			Auto1				0x01
			Auto2				0x02
		Auto Motion Plus	Off			0x06	0x00
			Clear				0x01
			Standard				0x02
			Smooth				0x03
			Custom				0x04
			Demo				0x05

	Screen Adjustment	Picture Size		16:9	0x0b	0x0a	0x01	0x00	
				Zoom1				0x01	
				Zoom2				0x02	
				Wide Fit				0x03	
				4:3				0x04	
				Screen Fit				0x05	
				Smart View I				0x06	
				Smart View II				0x07	
	Reset Picture	Reset Picture			0x0b	0x0b	0x00	0x00	
	3D	3D Mode		Off	0x0b	0x0c	0x00	0x00	
				3D →2D				0x01	
				Side By Side				0x02	
				Top Bottom				0x03	
				Line By Line				0x04	
				Vertical Line				0x05	
				Checker BD				0x06	
				Frame Sequence				0x07	
		3D →2D		Off			0x01	0x00	
				On				0x01	
		3D View Point						0x02	(-5~5)
		Depth						0x03	(1~10)
		Picture Correction						0x04	0x00
		3D Auto View		Off			0x05	0x00	
				Message Notice				0x01	
				On				0x02	

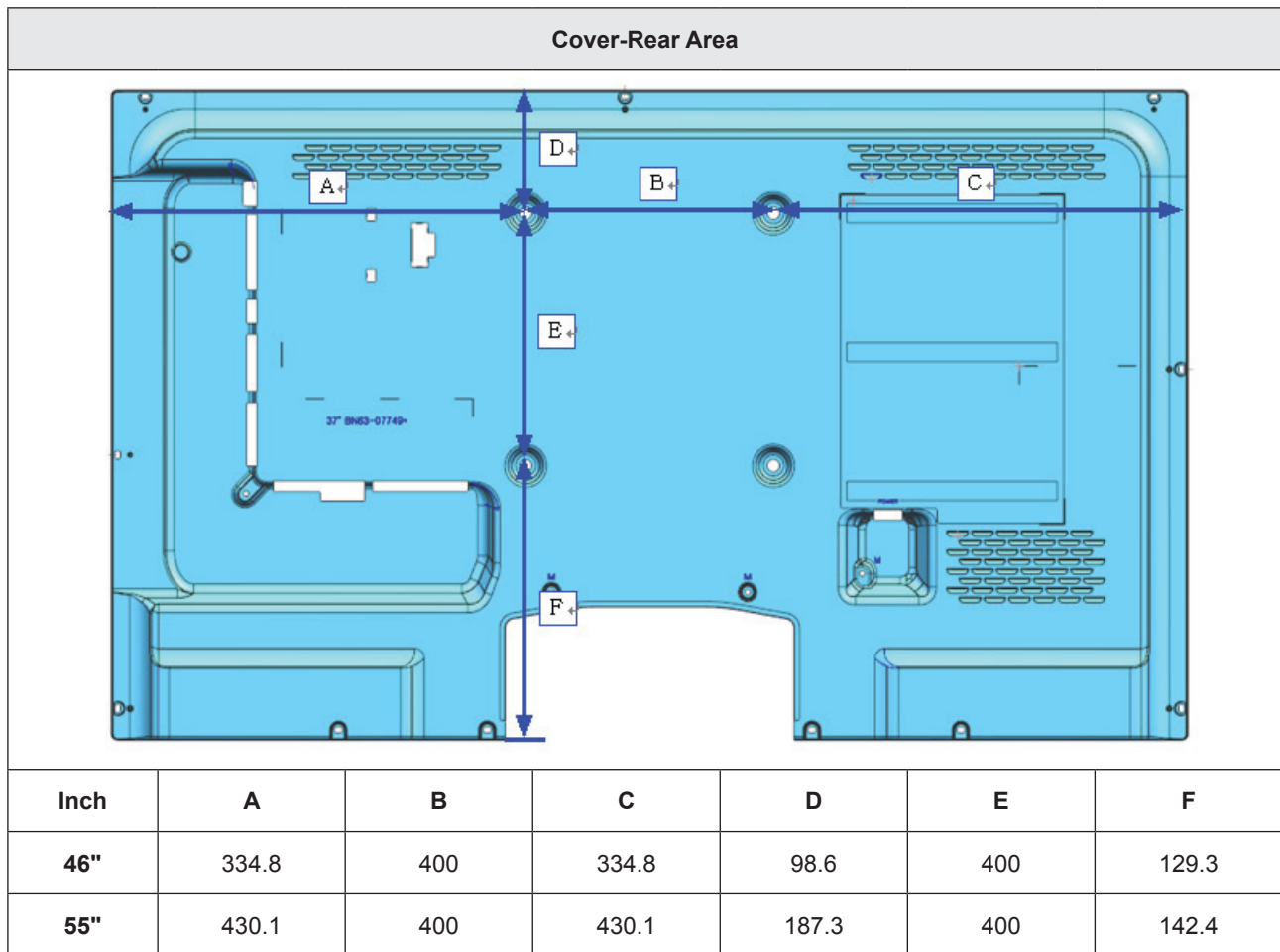
Sound	Control Item				Cmd1	Cmd2	Cmd3	Value
	SRS TheaterSound(Genoa)			Standard	0x0c	0x00	0x00	0x00
	Sound Mode(X6)			Music				0x01
				Movie				0x02
				Clear Voice				0x03
				Amplify				0x04
	Equalizer			Balance		0x01	0x00	(0~20)
				100hz			0x01	(0~20)
				300hz			0x02	(0~20)
				1khz			0x03	(0~20)
				3khz			0x04	(0~20)
				10khz			0x05	(0~20)
				Reset			0x06	0x00

4. Troubleshooting

	SRS TruSurround HD(Genoa)	Off		0x02	0x00	0x00
	Virtual Surrond(X6)	On				0x01
	SRS TruDialog(Genoa)	Off		0x03	0x00	0x00
	Dialog Clarify(X6)	On				0x01
	Preferred Language	English		0x04	0x00	0x00
		Spanish				0x01
		French				0x02
		Korean				0x03
		Japanese				0x04
	Multi-Track Sound	Mono		0x05	0x00	0x00
		Stereo				0x01
		SAP				0x02
	Auto Volume	Off		0x06	0x00	0x00
		Normal				0x01
		Night				0x02
	Speaker Select	TV Speaker		0x07	0x00	0x00
		External Speaker				0x01
	Sound Select	Main		0x08	0x00	0x00
		Sub				0x01
	Sound Reset	Sound Reset		0x09	0x00	0x00
KEY	Key Generation		0x0d	0x00	0x00	refer to the table of below

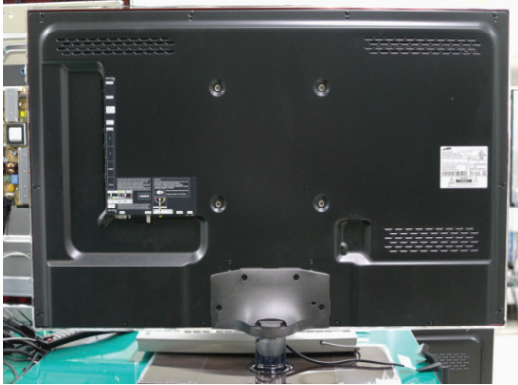

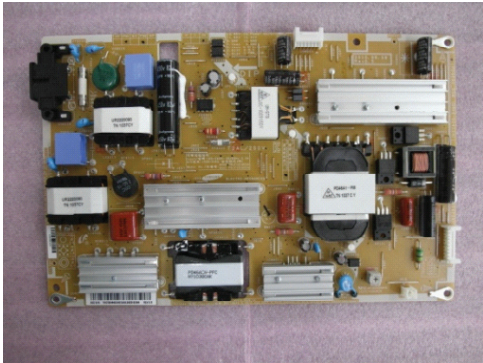
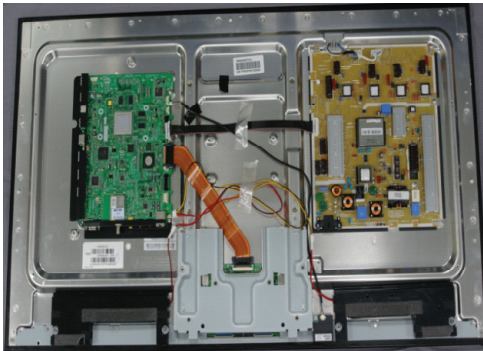
Key value	Value
Up	96 (0x60)
Down	97 (0x61)
Left	101 (0x65)
Right	98 (0x62)
Menu	26 (0x1A)
Internet	147 (0x93)
Enter(OK)	104 (0x68)
EXIT	45 (0x2D)

4-9. Rear Cover Dimension



4-10. BF model

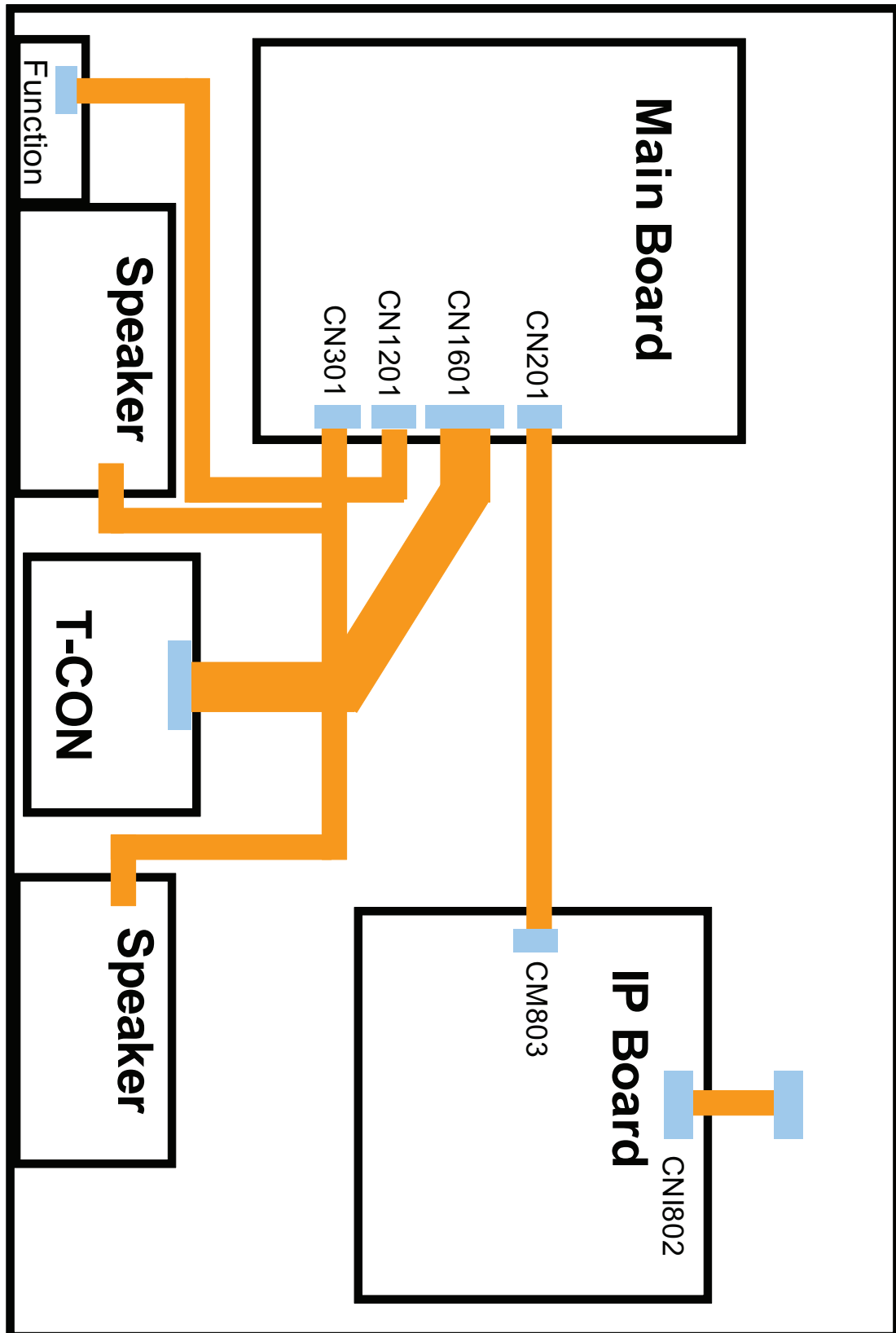
■ D6003 (Novatek) / D6005

Item	Image	Description
Panel Option		Factory Panel Option <ul style="list-style-type: none"> • 46" : 46L1UF3E → L : AUO panel • 55" : 55L1UF3E
Main Board		Main Board <ul style="list-style-type: none"> • 2 x USB port • 2 x HDMI port • D-sub elimination • Lan Jack elimination • AV2 Jack elimination
PD Board		PD Board <ul style="list-style-type: none"> • 46" : BN44-00423A • 55" : BN44-00424A
Panel Code		LCD PANEL <ul style="list-style-type: none"> • 46" : BN07-01021A • 55" : BN07-01025A

Stand		ASSY COMMODITY P-STAND <ul style="list-style-type: none">• 46" : BN96-16722B• 55" : BN96-16722B
LVDS Cable		LVDS Cable <ul style="list-style-type: none">• 46" : BN96-18130C• 55" : BN96-18130D

5. Wiring Diagram

5-1. Wiring Diagram



5-2. Connector

CN1405_FHD (to Panel)			
1	N.C(HVS for LCD)	42	Ch1[0]-
2	LUT_SELECT1	43	GND
3	TCON_EEPROM_WP	44	GND
4	BLACK_INS_SYNC	45	GND
5	TCON_RESET	46	N.C.
6	NC	47	Panel_VCC
7	NC	48	Panel_VCC
8	SDA_I(for	49	Panel_VCC
9	WP(EEPROM)	50	Panel_VCC
10	LUT_SELECT0	51	Panel_VCC
11	3D_ENABLE	52	GND
12	SCL_I(for	53	Ch2[0]-
13	GND	54	Ch2[0]+
14	Ch3[4]+	55	Ch2[1]-
15	Ch3[4]-	56	Ch2[1]+
16	Ch3[3]+	57	Ch2[2]-
17	Ch3[3]-	58	Ch2[2]+
18	GND	59	GND
19	Ch3CLK+	60	Ch2CLK-
20	Ch3CLK-	61	Ch2CLK+
21	GND	62	GND
22	Ch3[2]+	63	Ch2[3]-
23	Ch3[2]-	64	Ch2[3]+
24	Ch3[1]+	65	Ch2[4]-
25	Ch3[1]-	66	Ch2[4]+
26	Ch3[0]+	67	GND
27	Ch3[0]-	68	Ch4[0]-
28	GND	69	Ch4[0]+
29	Ch1[4]+	70	Ch4[1]-
30	Ch1[4]-	71	Ch4[1]+
31	Ch1[3]+	72	Ch4[2]-
32	Ch1[3]-	73	Ch4[2]+
33	GND	74	GND
34	Ch1CLK+	75	Ch4CLK-
35	Ch1CLK-	76	Ch4CLK+
36	GND	77	GND
37	Ch1[2]+	78	Ch4[3]-
38	Ch1[2]-	79	Ch4[3]+
39	Ch1[1]+	80	Ch4[4]-
40	Ch1[1]-	81	Ch4[4]+
41	Ch1[0]+	82	GND

CN602(to HDMI1)			
1	HDMI1_RX2+	10	HDMI1_RXCLK+
2	GND	11	GND
3	HDMI1_RX2-	12	HDMI1_RXCLK-
4	HDMI1_RX1+	13	HDMI_CEC
5	GND	14	GND
6	HDMI1_RX1-	15	HDMI1_DDC_SCL
7	HDMI1_RX0+	16	HDMI1_DDC_SDA
8	GND	17	GND
9	HDMI1_RX0-	18	HDMI1_5V

CN603(to HDMI2)			
1	HDMI2_RX2+	10	HDMI2_RXCLK+
2	GND	11	GND
3	HDMI2_RX2-	12	HDMI2_RXCLK-
4	HDMI2_RX1+	13	HDMI_CEC
5	GND	14	GND
6	HDMI2_RX1-	15	HDMI2_DDC_SCL
7	HDMI2_RX0+	16	HDMI2_DDC_SDA
8	GND	17	GND
9	HDMI2_RX0-	18	HDMI2_5V

CN604(to HDMI3)			
1	HDMI3_RX2+	10	HDMI3_RXCLK+
2	GND	11	GND
3	HDMI3_RX2-	12	HDMI3_RXCLK-
4	HDMI3_RX1+	13	HDMI_CEC
5	GND	14	GND
6	HDMI3_RX1-	15	HDMI3_DDC_SCL
7	HDMI3_RX0+	16	HDMI3_DDC_SDA
8	GND	17	GND
9	HDMI3_RX0-	18	HDMI3_5V

CN601(to HDMI4)			
1	HDMI4_RX2+	10	HDMI4_RXCLK+
2	GND	11	GND
3	HDMI4_RX2-	12	HDMI4_RXCLK-
4	HDMI4_RX1+	13	HDMI_CEC
5	GND	14	GND
6	HDMI4_RX1-	15	HDMI4_DDC_SCL
7	HDMI4_RX0+	16	HDMI4_DDC_SDA
8	GND	17	GND
9	HDMI4_RX0-	18	HDMI4_5V

CN402(to PC Sound)			
1	GND	4	PC_SL_IN
2	PC_SR_IN	5	NC
3	PC_SL_IN		

CN301(to Speaker)			
1	R+	3	L+
2	R-	4	L-

CN303(to Optical Jack)			
1	VCC	3	GND
2	SPDIF_OUT		

CN1502(to Side USB1)			
1	USB0_VCC_PW	3	USB_DP
2	USB0_DM	4	GND

CN1501(to Side USB2)			
1	USB2_VCC_PW	3	USB2_DP
2	USB2_DM	4	GND

CN1505(to Side USB3)			
1	USB3_VCC_PW	3	USB3_DP
2	USB3_DM	4	GND

CN802(to Monitor OUT)			
1	GND	4	HP_ID
2	NC	5	GND
3	HP_SR	6	HP_SL

CN501(to Component1/AV1)			
1	GND	6	GND
2	COMP1_Y	7	IDENT_COMP1
3	COMP1_PB	8	COMP_AV1_SL_IN
4	IDENT_COMP_AV1	9	COMP_AV1_SR_IN
5	COMP1_PR		

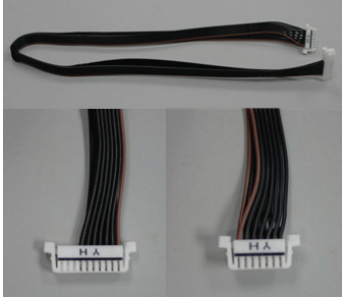
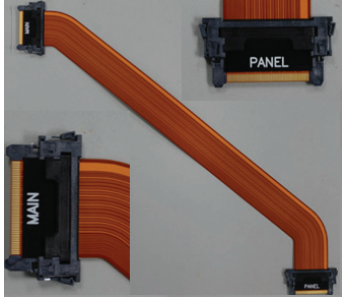
CN401(to Function/IR)			
1	IR	5	MSDA_A5V
2	GND	6	WAKE
3	A3.3V_PW	7	LED_STB
4	MSCL_A5V	8	NC

CN201(to Power Board)			
1	B5V_PW	11	B13V_PW
2	SW_POWER	12	B13V_PW
3	B5V_PW	13	B13V_PW
4	A5V_PW	14	PWM_DIMMING
5	GND	15	GND
6	GND	16	PWM_DIMMING_CPLD2
7	B18VS_PW	17	OVD_ON
8	GND	18	PWM_DIMMING_CPLD3
9	B18VS_PW	19	OVD_LEVEL
10	SW_INVERTER	20	PWM_DIMMING_CPLD4

5-3. Connector Functions

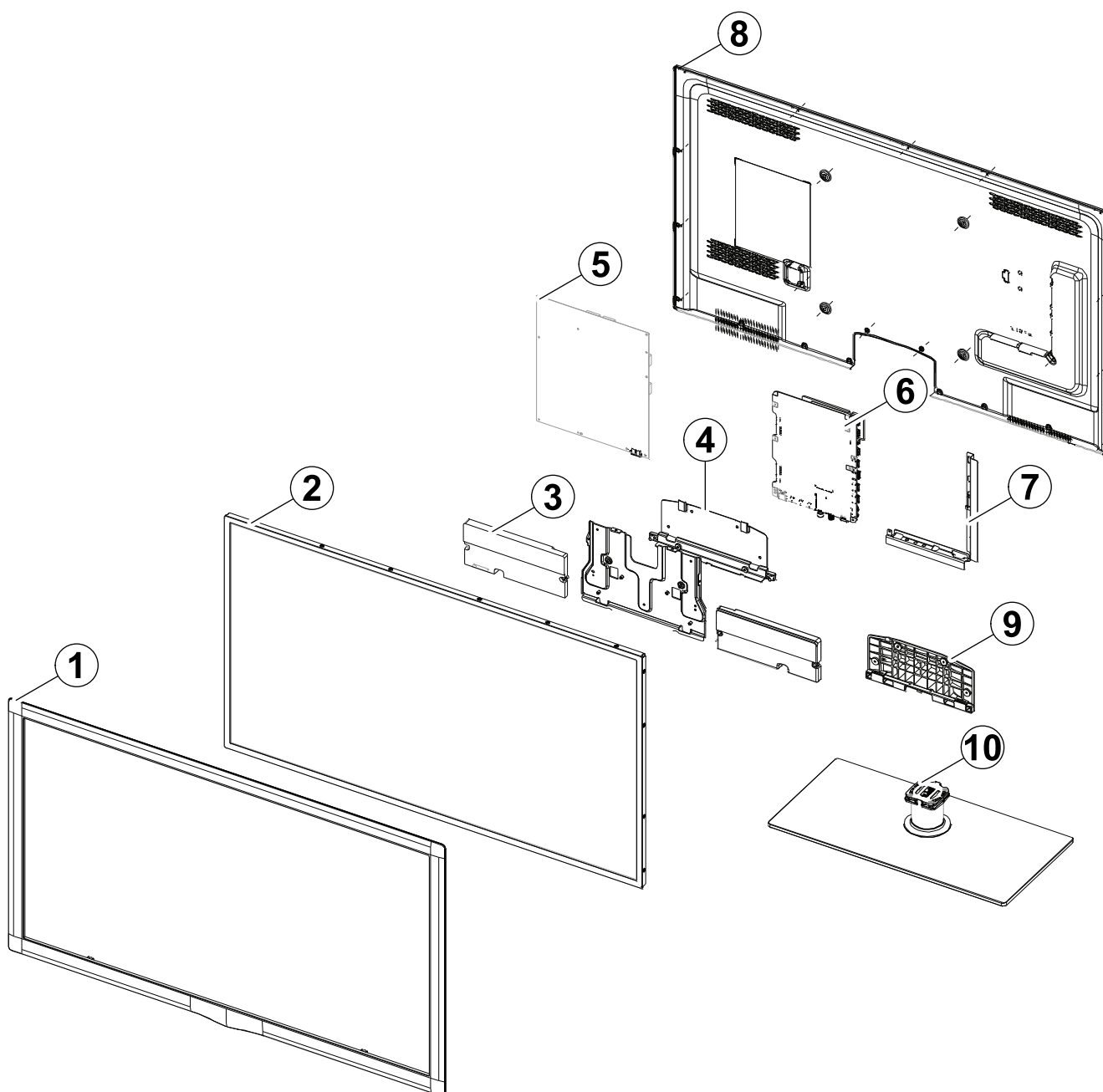
Connector	Functions
CN201 ↔ CN802	Supply power from SMPS to Main Board.
CN1401 ↔ CN505	The LVDS signal transferred from Main Board to Panel.

5-4. Cables

Use	Main-SMPS	Main-Tcon
Code	46" BN39-01267N (225mm) 55" BN39-01267E (250mm)	46" BN96-12723M 55" BN96-12723N
Photo		

1. Exploded View & Part List

Exploded View



Parts List

No.	Parent	Lvl.	Loc.	Material Code	Description & Specification	SNA	Qty.
1	BN90-03122S	2	F001A	BN96-16838S	ASSY COVER P-FRONT; UD6003,55,W/W,MABS+PM	SA	1
2	BN91-08413A	2	PANEL	BN07-01025A	LCD-PANEL; LD550CGB-A2,AUL8CA3,10bit,55 i	SA	1
3	BN91-08444K	2	SP01A	BN96-18088A	ASSY SPEAKER P; 6ohm,4pin,15W,Enclosure t	SA	1
4	BN91-08444K	2	RB01	BN63-07807A	COVER-BOTTOM; UD5000 37,HIPS,V0,BK0020	SNA	1
5	BN91-08444K	2	P001A	BN44-00424A	DC VSS-LED TV PD BD; PD55A1_BHS,PD55A1_BH	SA	1
6	BN91-09123X	2	M0014	BN94-05656X	ASSY PCB MAIN; UN55D6005SFXZA	SA	1
7	BN96-21423A	4	CB01	BN61-07391J	BRACKET-AV; UD6003,PCM,T0.45,BKN-P824,BF	SNA	1
8	BN90-03127R	2	R001A	BN96-16843R	ASSY COVER P-REAR; UD6003,55,UO(B/F),PCM,	SA	1
9	BN90-03628A	2	SG03A	BN96-16722B	ASSY GUIDE P-STAND; UD5000-6000,SAMEX,PC,	SA	1
10	BN90-03628A	2	SB04A	BN96-21016A	ASSY STAND P-BASE; UD6003,55,PMMA/ABS,HB,	SA	1

2. Electrical Parts List

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
			UN55D6005SFXZA (AH01)		
1		BN90-03122S	ASSY COVER FRONT;UD6003,55,W/W(IR)	1	SNA
.2	T0527	AA68-03539A	LABEL BAR CODE;65X40mm,ART PAPER	1	SNA
.2	F001A	BN96-16838S	ASSY COVER P-FRONT;UD6003,55,W/W,MABS+PM	1	SA
..3	XT01	0201-001578	ADHESIVE-HM;HM-555,WHT,4,000 Cps	0	SNA
..3	T0214	0203-001602	TAPE-OPP MASKING;#232,0.14,15,50000,YEL	0	SNA
..3	T0069	BN60-00051A	SPACER-FELT;FELT,20.0,0.5,12.0	4	SNA
..3		BN60-00162C	SPACER-FOAM;FOAM,50000mm,Dark Gray,0.5T,	0	SNA
..3		BN60-00162L	SPACER-FOAM;FOAM,50000mm,Dark Gray,0.5T,	4	SNA
..3	CB11P	BN61-07248A	BRACKET-SUPPORT PCB;LD550,SK-5,T0.5,Plat	1	SA
..3	CCM1	BN63-05199B	COVER-SHEET;AMBER,PE,T0.08,W65mm,200M,CL	3	SNA
..3	CCM1	BN63-05199C	COVER-SHEET;AMBER,PE,T0.08,W55mm,200M,CL	3	SNA
..3	F001	BN63-07866G	COVER-FRONT;UD6300,55,W/W,MABS+PMMA/ABS,	1	SNA
..3	FB21A	BN96-16729M	ASSY BOARD P-TOUCH FUNCTION & IR;UN55D6000	1	SA
1	R001A	BN90-03127R	ASSY COVER REAR;UD6003,55,UO(B/F)	1	SNA
.2		6001-002671	SCREW-MACHINE;BH,+,M3,L6,ZPC(BLK),SWRCH1	5	SA
.2	R001A	BN96-16843R	ASSY COVER P-REAR;UD6003,55,UO(B/F),PCM,	1	SA
..3		BN60-00162Y	SPACER-FOAM;FOAM,50000mm,Dark Gray,0.35T	1	SNA
..3	R001	BN63-07752A	COVER-REAR;UD6100 55,PCM,T0.45,BKN-P824	1	SNA
..3		BN63-08088A	SHEET-INSULATOR;UD6050 55,PC SHEET,0.43,	1	SNA
..3		BN68-03298Y	LABEL-TERMINAL SIDE;UD6004,UO,PET,T0.05	1	SNA
..3		BN68-03523R	LABEL-TERMINAL BOTTOM;UD6003,UO,PET,T0.0	1	SNA
..3	T0067	BP60-00067E	SPACER-SCREEN;L6,50,10,FELT,BLK,T4.0,DLP	4	SNA
1	S001A	BN90-03628A	ASSY STAND;UD6003,55	1	SNA
.2	SG03A	BN96-16722B	ASSY GUIDE P-STAND;UD5000-6000,SAMEX,PC,	1	SA
..3	T0524	6902-001063	BAG PE;LDPE,T0.05,W180,L350,TRP,RECYCLE	1	SNA
..3	SG03	BN61-07057A	GUIDE-STAND;UD5000 37,PC+G/F 20%,V2,BK00	1	SNA
..3		BN68-03096A	LABEL-ACCESSORY;A/P100G,T0.08,20mm,70mm,	1	SNA
..3		BN68-03388A	MANUAL FLYER-02,STAND GUIDE;U5500(32~42)	1	SNA
..3		BN96-18013E	ASSY ACCESSORY-SCREW;6003-001782,4EA,ALL	1	SNA
...4	SCREW	6003-001782	SCREW-TAPTYPE;BH,+,B,M4,L12,ZPC(BLK),SWR	4	SA
..3		BN96-18013Q	ASSY ACCESSORY-SCREW;6003-001807,4EA,ZPC	1	SNA
...4	SCREW	6003-001807	SCREW-TAPTYPE;BH,S,M4,L10,ZPC(BLK),SWRCH	4	SA
...4	T0524	6902-000341	BAG PE;LDPE,T0.05,L90,W70,TRP,,,PE MARK	1	SNA
.2	SB04A	BN96-21016A	ASSY STAND P-BASE;UD6003,55,PMMA/ABS,HB,	1	SA
..3	M0081	6003-001239	SCREW-TAPTYPE;FH,+,B,M4,L10,ZPC(WHT),SWR	13	SA
..3		BN61-04692A	BOSS-PRIMER;#94,clear,35cps	0	SNA
..3	AB323	BN61-07043A	BRACKET-STAND;42PD490,SECC,T2.0	1	SNA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...3	SG01	BN61-07843A	GUIDE-STAND NECK;43PD450/55UD6003,PC,G/F	1	SNA
...3	CCM1	BN63-02183E	COVER-SHEET;Rhem,PE Vinyl,T0.04,750mm,20	0	SNA
...3	SC05	BN63-07802A	COVER-STAND;42PD490,ABS+PMMA,HB,BK0007	1	SNA
...3		BN68-03860A	LABEL-BASE;Art Paper 100G,DARK RED,UN55D	1	SNA
...3	M0019	BN73-00052C	RUBBER-FOOT;LCD TV,Silicone RUBBER,T2.0	6	SNA
1		BN91-08413A	ASSY LCD;BN07-01025A	1	SNA
.2	PANEL	BN07-01025A	LCD-PANEL;LD550CGB-A2,AUL8CA3,10bit,55 i	1	SA
...3	TCON	BN81-06715A	A/S-T CON LD550CSB-A2;LD550CSB-A2	1	SA
1		BN91-08444K	ASSY SHIELD;UN55D6003SFXZA,NOVATEK	1	SNA
.2	CIS1	0203-001586	TAPE-FILAMENT;#893,0.15,30,55,WHT,FILAME	0	SNA
.2	M-P	6001-002653	SCREW-MACHINE;BH,+,M3,L6,ZPC(WHT),SWRCH1	11	SA
.2	SCREW	6003-001782	SCREW-TAPTYPE;BH,+,B,M4,L12,ZPC(BLK),SWR	2	SA
.2	EC13	BN39-01473D	LEAD CONNECTOR;UN55C6000,Flat Connector	1	SA
.2	P001A	BN44-00424A	DC VSS-LED TV PD BD;PD55A1_BHS,PD55A1_BH	1	SA
.2	RB01	BN63-07807A	COVER-BOTTOM;UD5000 37,HIPS,V0,BK0020	1	SNA
.2		BN73-00211C	PAD GAP;UN32D6500,PAD GAP,4.5 mm,35mm*35	2	SNA
.2	SP01A	BN96-18088A	ASSY SPEAKER P;6ohm,4pin,15W,Enclosure t	1	SA
.2	FL06	BN96-18130D	ASSY CABLE P-FPCB LVDS;LED120Hz-55inch,F	1	SA
1	M0017	BN91-09123X	ASSY CHASSIS;UN55D6005SFXZA	1	SNA
.2	M0014	BN94-05656X	ASSY PCB MAIN;UN55D6005SFXZA	1	SA
...3	CIS1	0203-001598	TAPE-FILAMENT;#8915,0.15,12,55000,CLR	0	SNA
...3	T0756	AA68-01018A	LABEL-PQS;50mmX,13,WHITE	1	SNA
...3	HDP01	BN61-06644A	HOLDER-PCB;LC750,NYNOL66,V0	1	SA
...3		BN96-21423A	ASSY BRACKET P-AV;UD6003,BLK,PCM T0.5	1	SNA
...4	T0073	AA63-01109H	GASKET-EMI;42D5,Conductive Fabric,T0.5,1	1	SNA
...4	CB01	BN61-07391J	BRACKET-AV;UD6003,PCM,T0.45,BKN-P824,BF	1	SNA
...3		BN97-06219A	ASSY DRM-KEY CODE-ASS`Y;COM_001,TV,-,Gen	1	SNA
...4		BN46-00109H	KEY CODE-CERTIFI;MAC,TV/AV,General	1	SNA
...3		BN97-06299B	ASSY SMD;NOVATEK	1	SNA
...4		0202-001477	SOLDER-CREAM;LST309-M,D20~45um,96.5Sn/3A	3	SNA
...4	DS01A	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	2	SA
...4		0403-001783	DIODE-ZENER;BZB84-C6V2,5.8/6.6V,300mW,SO	8	SNA
...4	D0254	0404-001404	DIODE-SCHOTTKY;BAT721C,40V,200mA,SOT-23,	5	SA
...4	T0139	0406-001200	DIODE-TVS;RCLAMP0504F,6/-V,150W,SC-70	2	SA
...4	Q101	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	3	SC
...4	CEQ2	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	3	SA
...4		0505-002598	FET-SILICON;AP2317GN,P,-20V,-4.2A,0.052o	1	SA
...4		0904-002631	IC-USC;QFN,28P,5.0mm X 5.0mm,12MHz,TP,PL	1	SA
...4		1006-001509	IC-DRIVER/RECEIVER;MAX3222ECPWR,TSSOP,20	1	SA
...4		1103-001502	IC-EEPROM;CAT24C02WI-GT3,2Kbit,256x8,SOP	3	SNA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4		1103-001503	IC-EEPROM;CAT24C256WI-GT3,256Kbit,32Kx8,	1	SNA
...4		1105-002161	IC-DDR3 SDRAM;K4B2G1646C-HCH9,1333 DDR3	2	SNA
...4		1105-002264	IC-DDR2 SDRAM;K4T51163QJ-BCF8,DDR2,512Mb	1	SNA
...4		1201-003158	IC-POWER AMP;TAS5725,PQFP,48P,7x7mm,DUAL	1	SA
...4		1203-004364	IC-VOL. DETECTOR;RT9818C-42PV,SOT-23,3P,	1	SA
...4		1203-006017	IC-VOL. DETECTOR;RT9824GJ8,TSOT23,8P,2.9	1	SA
...4	T0087	1203-006109	IC-POSIFIXED REG.;S-1206B33-M3T1G,SOT-2	1	SA
...4	T0087	1203-006118	IC-POSIFIXED REG.;S-1172B18-U5T1G,SOT-8	1	SA
...4	T0087	1203-006130	IC-POSIFIXED REG.;S-1172B25-U5T1G,SOT-8	2	SA
...4	T0087	1203-006136	IC-POSIFIXED REG.;AP1117D-18-GZ-13-89,T	1	SA
...4	IC012	1203-006138	IC-POSIFIXED REG.;AP1117DGZ-13-89,TO-2	1	SA
...4	T0087	1203-006141	IC-POSIFIXED REG.;S-1172B33-U5T1G,SOT-8	1	SA
...4		1203-006619	IC-DC/DC CONVERTER;AOZ1033AI,SO-8,8P,4.9	3	SA
...4		1203-006684	IC-DC/DC CONVERTER;TPS54327DDAR,HSOP8,8P	1	SNA
...4		1204-003304	IC-VIDEO PROCESS;SENK81,TFBGA,243P,15x15	1	SA
...4		1204-003306	IC-VIDEO PROCESS;SENK11,HSBGA,689P,27x27	1	SNA
...4		1205-003733	IC-SWITCH;AP2191MPG-13,MSOP-8L-EP,8P,2.9	1	SA
...4		1205-003735	IC-SWITCH;AP2151WG-7,SOT25,5P,2.9x1.6mm,	1	SA
...4		1205-004155	IC-SWITCH;AOZ1360AIL,SO-8,8P,4.9X3.9mm,P	1	SA
...4		1405-001271	VARISTOR;20Vdc,5A,1.0x0.5x0.6mm,TP,100V,	14	SA
...4	MR604	2007-000137	R-CHIP;2Kohm,5%,1/16W,TP,1005	3	SNA
...4	R105	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	41	SA
...4	AR49	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	12	SA
...4	MR306	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	1	SA
...4	AVR73	2007-000142	R-CHIP;2.7Kohm,5%,1/16W,TP,1005	4	SNA
...4	R319	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	44	SA
...4	R104	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	50	SA
...4	R102	2007-000149	R-CHIP;12Kohm,5%,1/16W,TP,1005	2	SA
...4	HDR2	2007-000151	R-CHIP;15Kohm,5%,1/16W,TP,1005	14	SNA
...4	MR36	2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	2	SNA
...4	MR13	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	5	SNA
...4	DR39	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	4	SA
...4	R509	2007-000170	R-CHIP;1Mohm,5%,1/16W,TP,1005	2	SA
...4	R111	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	SA
...4	HDR17	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	3	SNA
...4	R338	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	24	SA
...4	UR23	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	2	SA
...4	DR37	2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005	6	SA
...4	VR88	2007-001116	R-CHIP;680ohm,1%,1/10W,TP,1608	1	SA
...4	S1G0843	2007-001125	R-CHIP;68Kohm,1%,1/10W,TP,1608	1	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4		2007-001168	R-CHIP;75ohm,5%,1/4W,TP,3216	1	SA
...4		2007-001288	R-CHIP;18ohm,5%,1/16W,TP,1005	4	SA
...4	OTR1	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	6	SA
...4	MR9	2007-001307	R-CHIP;180ohm,5%,1/16W,TP,1005	1	SNA
...4		2007-001317	R-CHIP;910ohm,5%,1/16W,TP,1005	1	SNA
...4	R326	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	1	SNA
...4	MR316	2007-002796	R-CHIP;510ohm,5%,1/16W,TP,1005	2	SA
...4		2007-002797	R-CHIP;560ohm,5%,1/16W,TP,1005	2	SNA
...4		2007-002966	R-CHIP;360ohm,5%,1/16W,TP,1005	1	SNA
...4	PR24	2007-002970	R-CHIP;56ohm,5%,1/16W,TP,1005	1	SA
...4	R365	2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005	1	SNA
...4		2007-007131	R-CHIP;13Kohm,1%,1/16W,TP,1005	1	SA
...4		2007-007134	R-CHIP;39Kohm,1%,1/16W,TP,1005	1	SA
...4		2007-007135	R-CHIP;18Kohm,1%,1/16W,TP,1005	1	SNA
...4		2007-007137	R-CHIP;1.2Kohm,1%,1/16W,TP,1005	1	SA
...4		2007-007138	R-CHIP;27Kohm,1%,1/16W,TP,1005	1	SA
...4	DR4	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	5	SA
...4		2007-007156	R-CHIP;1ohm,5%,1/16W,TP,1005	18	SA
...4		2007-007306	R-CHIP;100ohm,1%,1/16W,TP,1005	2	SNA
...4		2007-007309	R-CHIP;12Kohm,1%,1/16W,TP,1005	1	SA
...4		2007-007311	R-CHIP;22Kohm,1%,1/16W,TP,1005	1	SA
...4		2007-007312	R-CHIP;20Kohm,1%,1/16W,TP,1005	1	SA
...4		2007-007317	R-CHIP;2.2Kohm,1%,1/16W,TP,1005	1	SA
...4		2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005	13	SA
...4		2007-007463	R-CHIP;1.1Kohm,1%,1/16W,TP,1005	1	SA
...4		2007-007517	R-CHIP;240ohm,1%,1/16W,TP,1005	2	SNA
...4		2007-007617	R-CHIP;2.49Kohm,1%,1/10W,TP,1608	1	SA
...4		2007-007698	R-CHIP;5.1Kohm,1%,1/16W,TP,1005	4	SA
...4		2007-007766	R-CHIP;2Kohm,1%,1/16W,TP,1005	2	SA
...4	MR11	2007-008015	R-CHIP;75ohm,1%,1/16W,TP,1005	2	SA
...4		2007-008275	R-CHIP;30Kohm,1%,1/16W,TP,1005	1	SNA
...4		2007-008649	R-CHIP;220ohm,1%,1/16W,TP,1005	1	SNA
...4		2007-009322	R-CHIP;1.3Kohm,1%,1/16W,TP,1005	1	SA
...4	ZRN10	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	SA
...4	DAR09	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	18	SA
...4		2011-001264	R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,2.	4	SNA
...4		2011-001449	R-NETWORK;22ohm,5%,1/16W,L,4P,TP,1010	4	SA
...4		2011-001519	R-NETWORK;33OHM,5%,1/16W,L,CHIP,4P,TP,1.	1	SA
...4	PC43	2203-000233	C-CER,CHIP;0.1nF,5%,50V,C0G,TP,1005	4	SA
...4	DC54	2203-000278	C-CER,CHIP;0.01nF,0.5pF,50V,C0G,TP,1005	2	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4	DC1	2203-000386	C-CER,CHIP;0.015nF,5%,50V,C0G,TP,1005	2	SA
...4	C254	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	9	SA
...4	C507	2203-000489	C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1005	3	SA
...4	AD480	2203-000530	C-CER,CHIP;2.7nF,10%,50V,X7R,TP,1005,-	1	SNA
...4	V1233	2203-000575	C-CER,CHIP;220nF,10%,25V,X7R,TP,2012	6	SA
...4	AD480	2203-000679	C-CER,CHIP;0.027nF,5%,50V,C0G,TP,1005	4	SA
...4	AD480	2203-000714	C-CER,CHIP;3.3nF,10%,50V,X7R,TP,1005	4	SA
...4	AD480	2203-000995	C-CER,CHIP;0.047nF,5%,50V,C0G,TP,1005	3	SA
...4	AD480	2203-001412	C-CER,CHIP;0.03nF,5%,50V,NP0,TP,1005	4	SNA
...4	AD480	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,TP,1005	16	SNA
...4	AD480	2203-002525	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1005	4	SA
...4	C151	2203-003039	C-CER,CHIP;0.008nF,0.25pF,50V,C0G,TP,100	2	SA
...4	AAC1	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	11	SA
...4	AD480	2203-005393	C-CER,CHIP;0.005nF,0.1pF,50V,NP0,TP,1005	1	SNA
...4	AD480	2203-005968	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1005,0.5	2	SNA
...4	VC37	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,1005	153	SA
...4	AD480	2203-006126	C-CER,CHIP;47nF,10%,16V,X7R,TP,1005	4	SNA
...4	PC11	2203-006141	C-CER,CHIP;1000nF,10%,16V,X5R,TP,1608,0.	1	SNA
...4	C102	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,TP,1005,0.5	1	SA
...4	JC10	2203-006324	C-CER,CHIP;2200nF,10%,10V,X5R,1608	2	SA
...4	C802	2203-006348	C-CER,CHIP;1000nF,10%,25V,X5R,TP,1608,0.	3	SA
...4	C125	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	13	SC
...4	HE4	2203-006474	C-CER,CHIP;22000nF,20%,6.3V,X5R,TP,2012	9	SA
...4	AD480	2203-006513	C-CER,CHIP;0.047nF,5%,50V,C0G,1005	1	SNA
...4	HDC11	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	14	SNA
...4	AD480	2203-006842	C-CER,CHIP;0.47nF,5%,50V,C0G,1005	1	SNA
...4	C23	2203-006890	C-CER,CHIP;10000nF,20%,6.3V,X5R,TP,1608	44	SNA
...4	AD480	2203-007306	C-CER,CHIP;10000nF,10%,25V,X5R,TP,2012,1	4	SNA
...4	AD480	2203-007513	C-CER,CHIP;10000nF,10%,10V,X5R,TP,1608,0	5	SA
...4	T0052	2703-000158	INDUCTOR-SMD;1uH,10%,2012	2	SA
...4	T0052	2703-001239	INDUCTOR-SMD;3.3uH,10%,1608	2	SA
...4	T0052	2703-003790	INDUCTOR-SMD;4.7uH,20%,8080	4	SA
...4		2703-003930	INDUCTOR-SMD;4.7uH,20%,5050	4	SA
...4	X202	2801-003773	CRYSTAL-SMD;12MHz,30ppm,28-AAN,20pF,50oh	2	SA
...4	X202	2801-003948	CRYSTAL-SMD;12MHz,30ppm,28-AAN,12pF,60oh	1	SA
...4	X202	2801-004775	CRYSTAL-SMD;12MHz,30ppm,16pF,30ohm,TP	1	SNA
...4	F103	2901-001506	FILTER-EMI SMD;5V,0.13A,0pF,2x1x0.5mm,TP	2	SA
...4	DR32	3301-000314	BEAD-SMD;120ohm,1608,TP,120ohm/100MHz	5	SNA
...4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz,-	9	SA
...4	T0568	3301-002039	BEAD-SMD;26ohm,1608,TP	26	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4	F201	3601-001374	FUSE-SURFACE MOUNT;32V,5A,FAST-ACTING,Hi	1	SA
...4	CN601	3701-001736	CONNECTOR-HDMI;19P,2ROW,FEMALE,SMD-A	2	SA
...4	CN160	3708-002909	CONNECTOR-FPC/FFC/PIC;82P,0.5mm,SMD-S,AU	1	SA
...4	HB01A	3711-007319	HEADER-BOARD TO CABLE;SMD,4P,1R,2.50mm,S	1	SA
...4	EH01	3711-007582	HEADER-BOARD TO CABLE;BOX,8P,1R,2.0mm,AN	1	SA
...4	EH01	3711-007742	HEADER-BOARD TO CABLE;BOX,20P,2R,2mm,ANG	1	SA
...4	CN150	3722-003044	JACK-USB;4P/1C,NL,BLK,SMD-A,A-TYPE	2	SA
...4	CN302	3722-003158	JACK-PHONE;1/6P,NL,BLK,ANGLE	3	SA
...4	CN501	3722-003207	JACK-PHONE;2P/9C,AU,LIMEGRN,SMD-A(DIP)	1	SA
...4	ET01	BN40-00208A	TUNER;DTVS20FVH083A,DTVS20FVH083A,VSB Ha	1	SA
...4		BN41-01732A	PCB MAIN;Novatek, LED6,FR-4,4,A,1.2T,192	1	SNA
...4		BN68-02775A	LABEL-SMD;ALL MODELS,8.5,21,COMMON	1	SNA
...4		BN97-06325A	ASSY MICOM-MAIN;T-NVT6AUSC-1007.0,2011.1	1	SNA
....5		1107-001981	IC-NAND FLASH;K9GAG08U0E-SCB0,16Gbit,2Gx	1	SA
....5		1107-001990	IC-NAND FLASH;KFG1GN6W2D-HIB6,1Gbit,64Mx	1	SNA
....5	T0527	AA68-03540A	LABEL-MICOM;ART PAPE,7X6mm	2	SNA
...4		BN97-06326A	ASSY MICOM-SUB;SubMicomUS_****,U63A,61P8	1	SNA
....5		0903-001718	IC-MICROCONTROLLER;61P805-RG480WT,LQFP,4	1	SNA
...4		BN97-06348A	ASSY MICOM-FRC;T-NVT6NFRC-12111E,2011.10	1	SNA
....5		1107-001928	IC-FLASH MEMORY;W25Q64CVSSIG,64Mbit,8Mx8	1	SA
1		BN92-09449A	ASSY P/MATERIAL;UD6003,55(B/F)	1	SNA
.2	T0214	0203-001269	TAPE-OPP MASKING;#301,T0.06,W75,L50000,N	1	SNA
.2	T0524	6902-000960	BAG PE;NITRON,T0.015/T0.5,W1600,L1100,TR	1	SNA
.2	M040	6922-000013	BAND PP;PP,W18,L2300/L2900,TRP	1	SNA
.2	T0214	AA61-20285C	HOLDER-BOX;CORAL,PP,BLACK,HB,17.5g	4	SNA
.2		BH69-00418A	BAG WRAPPING;LDPE,762,1828M,SAMEX FACTOR	2	SNA
.2		BN68-02422B	LABEL-WARNING SHIPPING;ALL MODEL,A/P 100	1	SNA
.2		BN69-05528A	PACKING INNER;PAD COMM,CB,3,1828.8,100,C	1	SNA
.2		BN69-06844A	CUSHION-SET;UD6003 55",EPS,EXPORT(BF), D	1	SNA
.2		BN74-00008D	TAPE-OPP MASKING;OPP,T0.05,W75,L800M,CLR	2	SNA
1		BN92-09451C	ASSY BOX;UN55D6005SFXZA	1	SNA
.2	T0077	BH68-00329D	LABEL BAR CODE-02;NO CE,NO WT'Y,MPRII,LA	2	SNA
.2		BN69-06866A	BOX-SET,IN;55UD6003,CB,C-01,DW1,YEL,W186	1	SNA
.2		BN69-06867B	BOX-SET,OUT;55UD6005,CB,C-03,DW3,YEL,W15	1	SNA
1	ACCE1	BN92-09883Y	ASSY ACCESSORY;UN55D6005SFXZA	1	SNA
.2	ACCE2	BN96-21986A	ASSY ACCESSORY-CABLE;UN55D6005SFXZA	1	SNA
...3	T0268	3903-000598	CBF-POWER CORD;DT,UL/CSA,EP-2,N,125V,5A,	1	SA
...3	T0120	4301-000121	BATTERY-MN;1.5V,R03,10.5x44.5m,HOLDER,7.	2	SNA
...3		6902-001340	BAG PE;LDPE,T0.05,W250,L350,TRP,RECYCLE	1	SNA
...3	REMO2	AA59-00548A	REMOCON;TM950A,48KEY,3V,D6003_US	1	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
..3		AK98-01080A	ASSY ACCESSORY-WIRELESS USB ADAPTOR;ASSY	1	SA
..3	EC03	BN39-01154W	CBF SIGNAL;COMPONENT GENDER / UD8000,2P,	1	SA
..3		BN61-05491A	HOLDER-WIRE STAND;UB7000 46inch,NYRON	1	SNA
..3	EH03A	BN96-18153A	ASSY HOLDER P-RING;11 LED-TV	1	SNA
...4		6902-001404	BAG ZIPPER;LDPE,T0.05,W80,L100,TRP	1	SNA
...4	AH365	BN61-07295A	HOLDER-RING;40UD5500,ABS,BK0007,HB	4	SNA
.2	ACCE4	BN96-22078A	ASSY ACCESSORY-MANUAL;UN55D6005SFXZA	1	SNA
..3		6902-000476	BAG PE;LDPE,T0.03,W250,L350,TRP,Recycle,	1	SNA
..3		AA68-03242L	LEAFLET-08,SAFETY GUIDE;comm,Samsung,Eng	1	SNA
..3	T0527	BN68-00513A	LABEL-E,PASS;ALL MODEL,YUPO(110G),50X15,	1	SNA
..3		BN68-03601A	MANUAL FLYER-01,SAMART TV GUIDE;UD5500 ~	1	SNA
..3		BN68-03846D	MANUAL USERS;UD6003, UD6003,SAMSUNG,Eng,	1	SNA
..3		BP68-00263E	LEAFLET-03,WARRANTY CARD;comm,Samsung,En	1	SNA
1		BN92-10044M	ASSY LABEL;UN55D6005SFXZA	1	SNA
.2	CIS1	0203-001598	TAPE-FILAMENT;#8915,0.15,12,55000,CLR	0	SNA
.2		BN68-03608A	LEAFLET-04,STOP GUIDE;All,SAMSUNG,ENG/FR	1	SNA
.2		BN68-03801L	LABEL-STICKER;UD6U,ZA,PET,T0.05,38,140,E	1	SNA
.2	T0527	BP68-00052B	LABEL-00,RATING;CCTV,TETRON PAPER,T0.05,	1	SNA



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