SAMSUNG

LED TV

Chassis : U8MC

Model : UN40H4203AH

UN48H4203AH

SERVICE Manual

LED TV

UN**H4203AH

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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

WARNING

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

Disconnect the AC power and DC power jack before servicing.

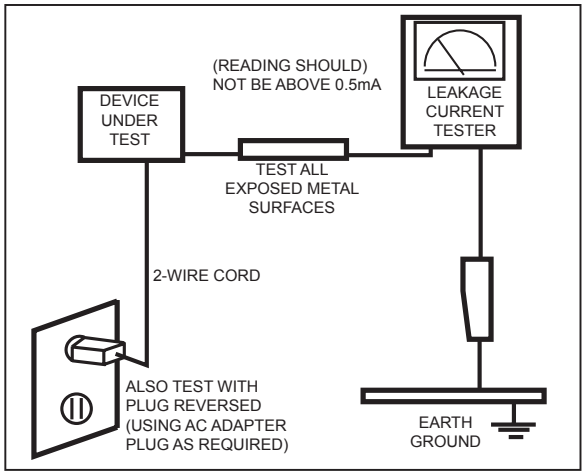
1-1-2. Servicing the LED TV

1. When servicing the LED TV, Disconnect the AC line cord from the AC outlet.
2. It is essential that service technicians have an accurate voltage meter available at all times. Check the calibration of this meter periodically.

1-1-3. Fire and Shock Hazard

Before returning the monitor to the user, perform the following safety checks:

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



WARNING

Do not use an isolation transformer during this test.

Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).

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

1-1-4. Product Safety Notices

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

1-2. Servicing Precautions

WARNING

An electrolytic capacitor installed with the wrong polarity might explode.

CAUTION

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

NOTE

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

1-2-1. General Servicing Precautions

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

1-3. Static Electricity Precautions

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

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

CAUTION

Be sure no power is applied to the chassis or circuit and observe all other safety precautions.

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

1-4. Installation Precautions

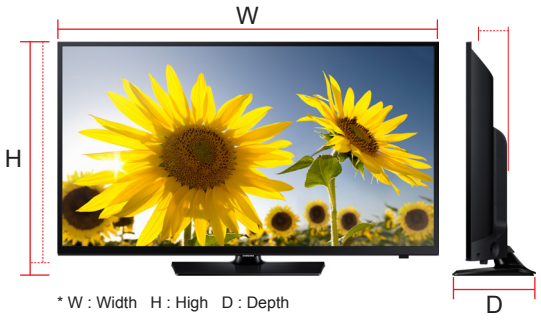
1. For safety reasons, more than a people are required for carrying the product.
2. Keep the power cord away from any heat emitting devices, as a melted covering may cause fire or electric shock.
3. Do not place the product in areas with poor ventilation such as a bookshelf or closet. The increased internal 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.
8. If an equipment is provided with a replaceable battery, and if replacement by an incorrect type could result in an explosion (for example, with some lithium batteries), the following applies:

CAUTION

- Risk of explosion if battery is replaced by an incorrect type dispose of used batteries according to the instructions.
- Do not dispose of batteries in a fire.
- Do not short circuit, disassemble or overheat the batteries.
- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not be exposed to excessive heat such as sunshine, fire or the like.

2. Product Specifications

2-1. Product information

Model	UN**H4203AH		
Front View	 * W : Width H : High D : Depth		
Detail View			
Front Color	Black (Panel)		
Dimensions W x H x D	40H42	Set with Stand	914.2 x 586.4 x 196.4 mm / 36.0 x 23.1 x 7.7 inches
		Set without Stand	914.2 x 547.9 x 90.9 mm / 36.0 x 21.6 x 3.6 inches
	48H42	Set with Stand	1083.2 x 677.0 x 203.9 mm / 42.6 x 26.6 x 8.0 inches
		Set without Stand	1083.2 x 637.8 x 90.9 mm / 42.6 x 25.1 x 3.6 inches
Weight	40H42	Set with Stand	7.6 kg / 16.8 lbs
		Set without Stand	7.0 kg / 15.4 lbs
	48H42	Set with Stand	9.9 kg / 21.8 lbs
		Set without Stand	9.1 kg / 20.0 lbs

2-2. Product specification

2-2-1. Detailed Specifications

NOTE

Design and specifications are subject to change without prior notice.

Item		UN**H4203AHXPA
General Information	Product	LED
	Series	4
	Country	PANAMA
Display	Screen Size	40"/48"
	Resolution	1366 X 768
	Ultra Clear Panel	N/A
Video	Picture Engine	HyperReal Engine
	Clear Motion Rate	120
	Dynamic Contrast Ratio	Mega Contrast
	Micro Dimming	No
	Precision Black (Local Dimming)	N/A
	Wide Color Enhancer (Plus)	Yes
	Wide Color Gamut	N/A
	Color Accuracy	N/A
	Auto Depth Enhancer	N/A
	Film Mode	Yes
	Natural Mode Support	N/A
Audio	Dolby MS10 / MS110	Dolby MS10
	DTS Studio Sound / DNSe+	DTS Studio Sound
	DTS Premium Sound / DTS Premium Sound 5.1	DTS Premium Sound 5.1
	3D Sound	N/A
	Auto Volume Leveler	Yes
	Sound Output (RMS)	10W x 2
	Speaker Type	Down Firing + Full Range
	Woofer	N/A
	HD Audio	N/A
Smart TV	Smart Hub	Yes
	Samsung SMART TV	Yes
	On TV	N/A
	Movies & TV Shows	N/A

Item		UN**H4203AHXPA
Smart TV	Multimedia	N/A
	Apps	Yes
	News On	N/A
	Game	N/A
	My Space	N/A
	Social	N/A
	Fitness	N/A
	Kids	N/A
	Multi-Screen (Dual / Quad Screen)	N/A
	Skype™ on Samsung TV	N/A
	Web Browser	Yes
	AllShare Control	Yes
	Search	Yes
Smart Interaction	Voice Interaction	N/A
	Voice Control	N/A
	Camera Built-in	N/A
	Face recognition	N/A
	Motion control	N/A
Smart Convergence	Contents Streaming	Yes
	Screen Mirroring	Yes
	Samsung SMART View	N/A
	Smart Home	N/A
	Wake On LAN	N/A
	WiDi	N/A
Tuner/Broadcasting	DTV Tuner	ISDB-T / DVB-T
	Analog Tuner	Yes (Trinorma)
	MHP / MHEG / HbbTV / ACAP / GINGA / OHTV	No
Connectivity	HDMI	2
	USB	1
	Component In (Y/Pb/Pr)	1
	Composite In (AV)	1 (Common Use for Component Y)
	Ethernet (LAN)	Yes
	Headphone	N/A
	Audio Out (Mini Jack)	Yes
	Digital Audio Out (Optical)	1

Item		UN**H4203AHXPA
Connectivity	PC In (D-sub)	N/A
	PC/DVI Audio In (Mini Jack)	N/A
	RF In (Terrestrial / Cable input / Satellite input)	1/1/0
	Ex-Link (RS-232C)	N/A
	IR Out	N/A
	CI Slot	N/A
	Scart	N/A
	MHL 3	N/A
	One Connect (Jack)	N/A
	WiFi Direct	Yes
	MHL	N/A
	Dongle Ready (3G / LTE)	N/A
	HDMI 1.4 3D Auto Setting	N/A
	HDMI 1.4 A/Return Ch. Support	N/A
	InstaPort S (HDMI quick switch)	N/A
	Wireless LAN Adapter Support	No
	Wireless LAN Built-in	Yes
	Anynet+ (HDMI-CEC)	N/A
Design	Design	Narrow Bezel
	Bezel Type	NNB
	Slim Type	Normal
	Front Color	Black
	Light Effect (Deco)	No
	Stand Type	Square
	Swivel (Left/Right)	No
	Camera Type	N/A
Additional Feature	Samsung 3D	N/A
	3D Converter	N/A
	Instant On	N/A
	N-KIT	N/A
	Quad Core+	N/A
	Accessibility	Yes(Zoom)
	Digital Clean View	Yes
	Auto Channel Search	Yes
	Auto Power Off	Yes

Item		UN**H4203AHXPA
Additional Feature	Clock&On/Off Timer	Yes
	Sleep Timer	Yes
	BD Wise Plus	N/A
	Caption (Subtitle)	Yes
	ConnectShare™ (USB 2.0)	Movie
	AC/DC TV	N/A
	Sports Mode	Basic
	Screen Capture	N/A
	Sound Capture	N/A
	Embeded POP	Yes
	EPG	Yes
	Extended PVR	N/A
	Game Mode	Yes
	History	N/A
	Multiroom Compatible	N/A
	OSD Language	Local Languages
	Picture-In-Picture	Yes
	USB HID Support	Yes
	Smart Evolution Support	N/A
	TV SoundConnect	N/A
	Teletext (TTXT)	N/A
	Time Shift	N/A
	Analog Clean View	No
	Triple Protector	N/A
	GUI	Golden Bridge
Eco Feature	Eco Mark	.
	Eco Label	No
	Eco Sensor	Yes
	Energy Efficiency Class	N/A
	Mercury Content	0.0 mg
	Lead Presence	Yes
Accessory	3D Active Glasses (Included)	N/A
	Remote Controller Model	TM1250A
	Batteries (for Remote Control)	Yes
	Samsung Smart Touch Control (Included)	N/A

Item		UN**H4203AHXPA
Accessory	Electric Stand Support	N/A
	Electric Wall Mount Support	N/A
	Ultra Slim Wall Mount Supported	N/A
	Mini Wall Mount Supported	Yes
	Vesa Wall Mount Supported	Yes
	Floor Stand Support	N/A
	TV Camera (Included)	N/A
	IR Extender Cable (Included)	No
	Network Speaker (Included)	N/A
	Wireless Keyboard (Included)	N/A
	Wireless LAN Adaptor (Included)	N/A
	User Manual	Yes
	E-Manual	Yes
	ANT-Cable	N/A
	Power Cable	Yes
	Slim Gender Cable	N/A

2-2-2. Specifications

■ Specifications

Model	UN**H4203AH

Item	Description	
Screen Size (Diagonal)	40 inches	48 inches
LCD Panel	HD 60 Hz	
Display Colors	16.7 M color	
Display Resolution	1,366 x 768	
Input Signal	Analog 0.7 Vp-p ± 5% positive at 75Ω, internally terminated	
Input Sync Signal	H/V Separate, TTL, P. or N.	
AC Power Voltage & Frequency	AC100-240V 50/60Hz	
Sound (Output)	20 W (10 W X 2)	

2-3. Accessories

NOTE

- The items' colors and shapes may vary depending on the model.
- Cables not included in the package contents can be purchased separately.
- The part code for some accessories may differ depending on your region.

Product	Code. No	Product	Code. No
• Remote Control	BN59-01178K	• User Manual	BN68-06549A
• Batteries (AAA x 2)	4301-000121	• Warranty Card (Not available in some locations)	AA68-03727A
• Power Cord	3903-000853		

Image	Product	Code. No
	• Holder-Wire Stand	BN61-08370A

3. Disassembly and Reassembly

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

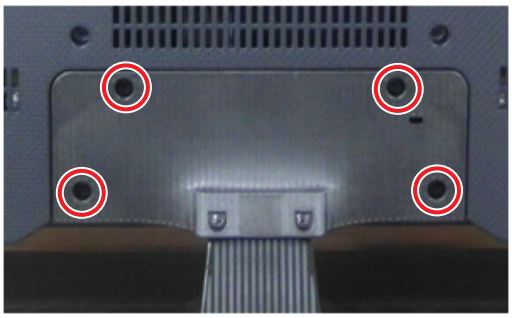
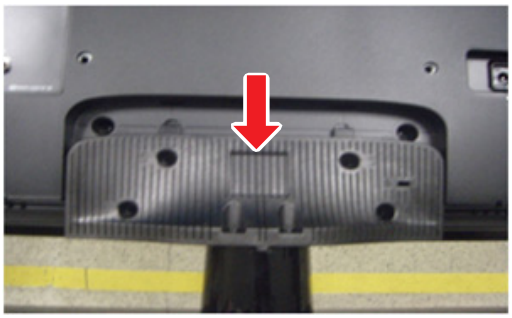
WARNING

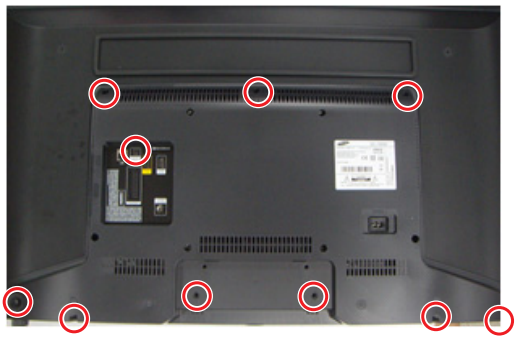
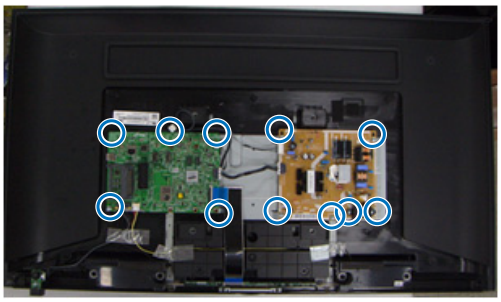
This LED TV contains electrostatically sensitive devices. Use caution when handling these components.

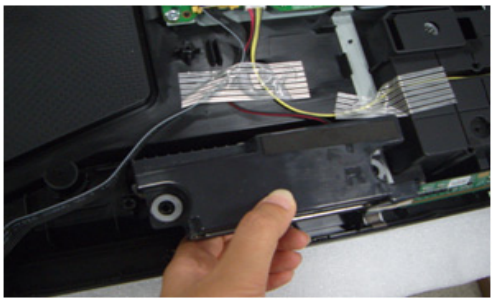
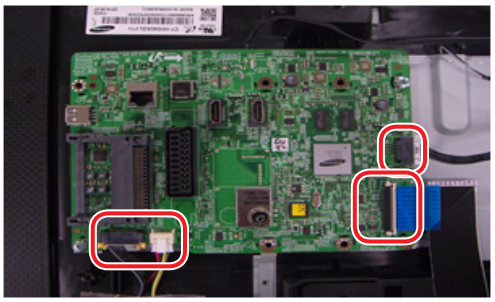
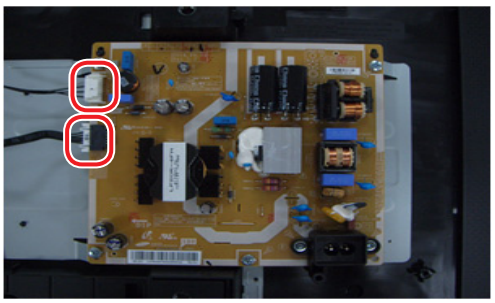
3-1. Disassembly and Reassembly

CAUTION

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.		
2 Remove 4 screws from the stand.		6003-001782
3 Remove stand.		

Description	Picture Description	Screws
4 Remove screws of rear cover.		6003-001782
5 Disconnect the function assy cable.		6003-001188
6 Remove the screws of Function module & WiFi.	 	6003-001188

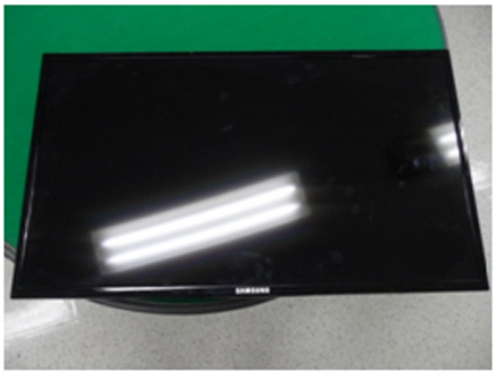
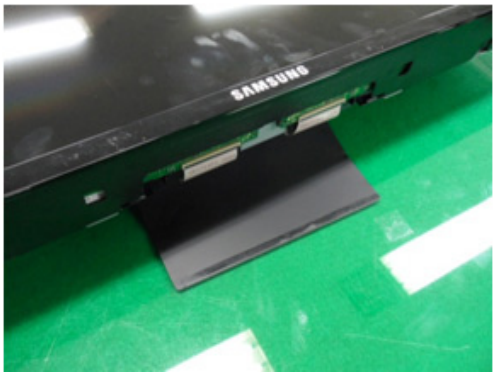
Description	Picture Description	Screws
7 Remove the speakers and cables.	  	
8 Completed disassembly.		

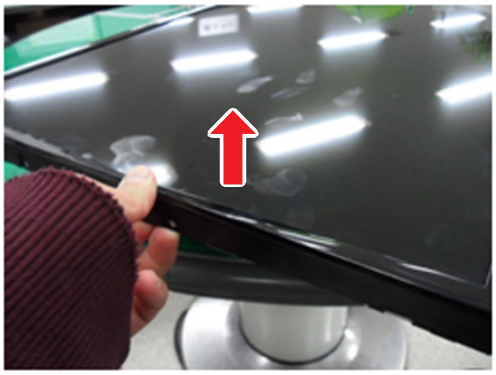
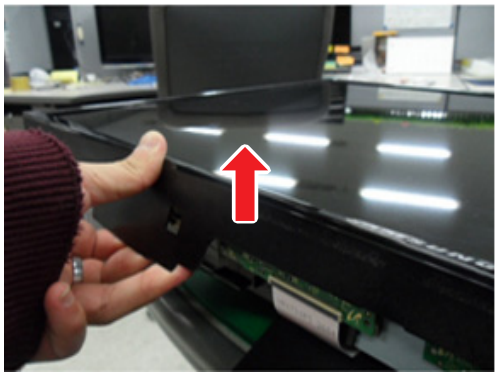
NOTE

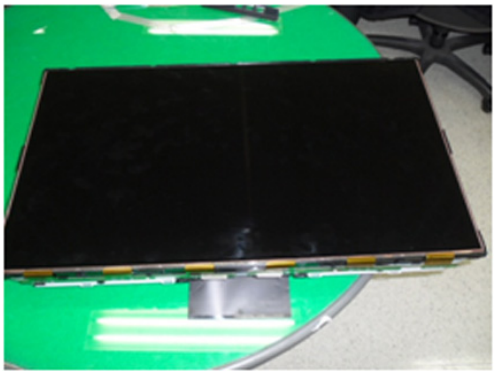
Reassembly procedures are in the reverse order of disassembly procedures.

3-2. Disassembly(PTC)

■ How to disassembly

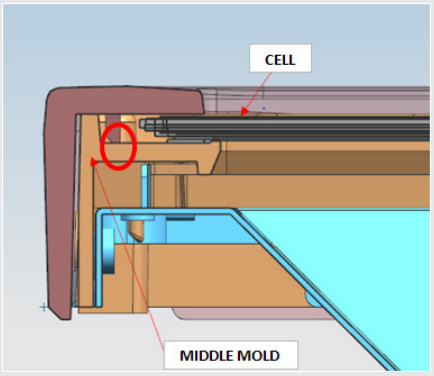
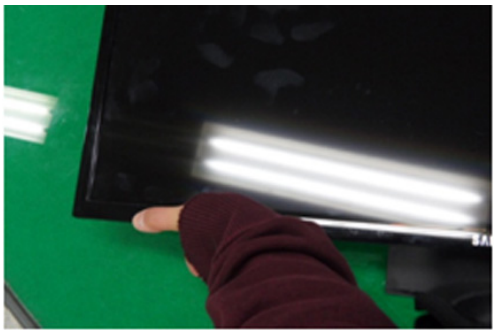
Description	Picture Description	Refer
1 Place TV face up on cushioned table.		
2 Remove the T-CON Cover		
3		
4 First spread the PTC upper		

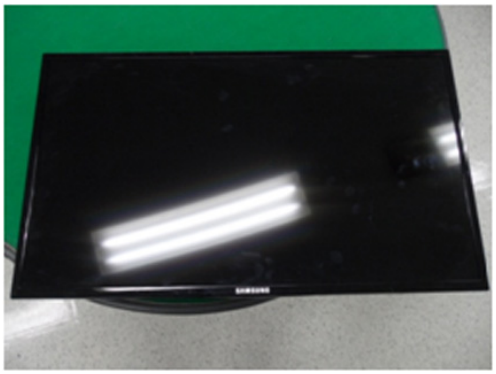
Description	Picture Description	Refer
5 Spread the both sides of PTC upper (marked "▼") by use the tool. **CAUTION** Do not scratch on both side by use tool. Gate Cof will be damaged. 		
6 Apart left and right sides of PTC.		
7 Raise up the PTC bottom.		

Description	Picture Description	Refer
8 Disassembly is complete.		
9 Disassembly is complete.		

■ How to reassembly

Description	Picture Description	Refer
1 Cover the PTC bottom.		
2 Combine the hook of left and right side.		

Description	Picture Description	Refer
3 Check to combine the top and bottom. **CAUTION** Combine to stick the PTC Rib into the middle mold. 		
		

Description	Picture Description	Refer
4 Disassembly is complete.		

4. Troubleshooting

4-1. Troubleshooting

4-1-1. Testing the Picture

MENU → Support → Self Diagnosis → Picture Test → Try Now

Before you review the list of problems and solutions below, use Picture Test to determine if the problem is caused by the TV. The Picture Test displays a high definition picture you can examine for flaws or faults. If the test picture does not appear or there is noise or distortion, the TV may have a problem. Contact Samsung's Call Center for assistance. If the test picture is displayed properly, there may be a problem with an external device. Please check the connections. If the problem persists,check the signal strength or refer to the external device's user manual.

The Problem	Try this!
Flickering and Dimming.	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of the energy efficiency features. Disable Energy Saving (System > Eco Solution > Energy Saving) or Eco Sensor (System > Eco Solution > Eco Sensor).
Component Connections/ Screen Color	If the color on your Samsung television screen is not correct or the black and white colors are off, run Picture Test (Support > Self Diagnosis > Picture Test). If the test results indicate that the problem is not caused by the TV, do the following: • Confirm that the TV's video input connectors are connected to the correct external device video output connectors. • Check the other connections as well. If the TV is connected to an external device via a component cable, confirm that the Pb, Pr, and Y jacks are plugged into their proper connectors.
Screen Brightness	If the colors on your Samsung TV are correct but just a little too dark or bright, try adjusting the following settings first. • Go to the Picture menu and adjust the Backlight/Cell Light (available on different models) Contrast, Brightness, Sharpness, Color, and Tint (G/R) settings.
Ghosting, Blurring, or Juddering	If you notice ghosting or blurring on the screen, use the Auto Motion Plus option (Picture > Picture Options > Auto Motion Plus) to resolve the issue. **NOTE** For the LED 5203, 5303 and 4303 series models, you can resolve this issue by using LED Clear Motion (Picture > Picture Options > LED Clear Motion).
Unwanted Powering Off	If your Samsung TV appears to turn off by itself, try disabling some of the TV's energy efficiency features. See if Sleep Timer (System > Time > Sleep Timer) has been enabled. The Sleep Timer automatically turns the TV off after a specified period of time. If the Sleep Timer has not been enabled, see if No Signal Power Off (System > Eco Solution > No Signal Power Off) or Auto Power Off (System > Eco Solution > Auto Power Off) has been enabled and disable them.
Problems Powering On	When the TV is turned on, the remote control receiver flashes 5 times before the screen turns on. If you are having problems powering on your Samsung television, there are a number of things to check before calling the service department. Confirm that the TV's power cord is connected correctly at both ends and that the remote control is operating normally. Make sure that the antenna cable or cable TV cable is firmly connected. If you have a cable/satellite box confirm that it is plugged in and turned on.
Unable to find a Channel	If your TV is not connected to a cable box or satellite box, run Setup (System > Setup) or Auto Program (Broadcasting > Auto Program).

The Problem	Try this!
The TV image does not look as good as it did in the store.	Store displays are all tuned to digital, HD (high definition) channels. If you have an analog cable/set top box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality. Many HD channels are upscaled from SD (Standard Definition) content. Look for a channel that is broadcasting true HD content. • Cable/Satellite Subscribers: Try HD channels from the channel lineup. • Air/Cable Antenna Connection: Try HD channels after running the Auto Program function. Adjust the cable/satellite box's video output resolution to 1080i or 720p.
The picture is distorted.	The compression of video content may cause picture distortions, especially in fast moving pictures from sports programs and action movies. A weak or bad quality signal can cause picture distortions. This is not an issue with the TV. Mobile phones used close to the TV (within 3.2 ft) may cause noise in analog and digital channels.
The color is wrong or missing.	If you're using a Component connection, make sure that the Component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.
The color is poor or the picture is not bright enough.	Go to the Picture menu and then adjust the Picture Mode, Brightness, Sharpness, and Color settings. See if Energy Saving (System > Eco Solution > Energy Saving) has been enabled. Try resetting the picture. (Picture > Picture Reset)
There is a dotted lineon the edge of the screen.	If the Picture Size has been set to Screen Fit, change the setting to 16:9. Change the cable/satellite box resolution.
The picture is black and white.	If you are using AV composite input, connect the video cable (yellow) to the TV's green component jack.

4-1-2. Testing the Sound

MENU → Support → Self Diagnosis → Sound Test → Try Now

Before you review the list of problems and solutions below, make sure that the TV Sound Output menu item is set to TV Speaker, and then listen to the speakers again. If the TV still does not play audio,run the Sound Test. The Sound Test uses a built-in melody to check for sound problems. If the TV does not play sound during the Sound Test, or the sound is distorted, there may be a problem with the TV. Contact Samsung's Call Center for assistance. If the TV plays the Sound Test melody without distortion, there may be a problem with an external device. Please check the connections. If the problem persists, refer to the external device's user manual.

The Problem	Try this!
There is no sound or the sound is too low at maximum volume.	Check the volume control of the device (cable/satellite box, DVD, Blu-ray, etc.) connected to your TV.
The picture is good but there is no sound.	Set Sound > Speaker Settings > TV Sound Output to TV Speaker. If you are using an external device, check the device's audio output option. (For example, you may need to change your cable box's audio option to HDMI if the box connected to your TV is using an HDMI cable.) To listen to the computer sound, connect the external speaker to the computer' s audio output connector. If your TV has a headphone jack, make sure there is nothing plugged into it. Reboot the connected device by disconnecting and then reconnecting the device's power cable.
The speakers are making an odd sound.	Make sure that the audio cable is connected to the correct audio output connector on the external device. For antenna or cable connections, check the signal information. A low signal level may cause sound distortions. Run Sound Test (Support > Self Diagnosis > Sound Test).

4-1-3. There is a problem with the broadcast

The Problem	Try this!
The TV is not receiving all channels.	If your TV is not connected to a cable box or satellite box: • Confirm that the coaxial cable is securely connected to the TV. • If you are using an antenna, verify it is positioned correctly and the all the connections are secure. • Run Setup (System > Setup) or Auto Program (Broadcasting > Auto Program).
There are no captions with digital channels.	Go to Caption (System > Accessibility > Caption) and change the Caption Mode. Some channels may not have caption data.
The picture is distorted.	The compression of the video content may cause picture distortions. This is especially true with fast moving pictures from sports programs and action movies. A weak signal can cause picture distortions. This is not a problem with the TV.

4-1-4. My computer won’t connect

The Problem	Try this!
The "Mode Not Supported" message appears.	Set your PC’s output resolution so it matches a resolution supported by the TV.
The video is OK but there is no audio.	If you are using an HDMI connection, check the audio output setting on your PC. If you are using a DVI to HDMI cable, a separate audio cable is required.

4-1-5. I can’t connect to the Internet

The Problem	Try this!
The wireless network connection failed.	Confirm your wireless modem/router is on and connected to the Internet. Reset your wireless modem/router by turning it off, waiting for 15 seconds, and then turning it on again. Run Network Setup (MENU > Network > Network Settings).
The software update over the Internet has failed.	Check the network connection status (MENU > Network > Network Status). If the TV is not connected to a network, connect to a network. The upgrade stops if you already have the latest software version.

4-1-6. My file won’t play

The Problem	Try this!
Some files can’t be played.	This problem may occur with high-bitrate files. Most files can be played back, but you might experience problems with high-bitrate files.

4-1-7. I am having trouble launching/using apps

The Problem	Try this!
I launched an app, but it’s in English. How can I change the language?	Languages supported by the app may be different from the user interface language. The ability to change the language depends on the service provider.
My application is not working.	Check with the service provider. Refer to the help section on the application service provider’s website.

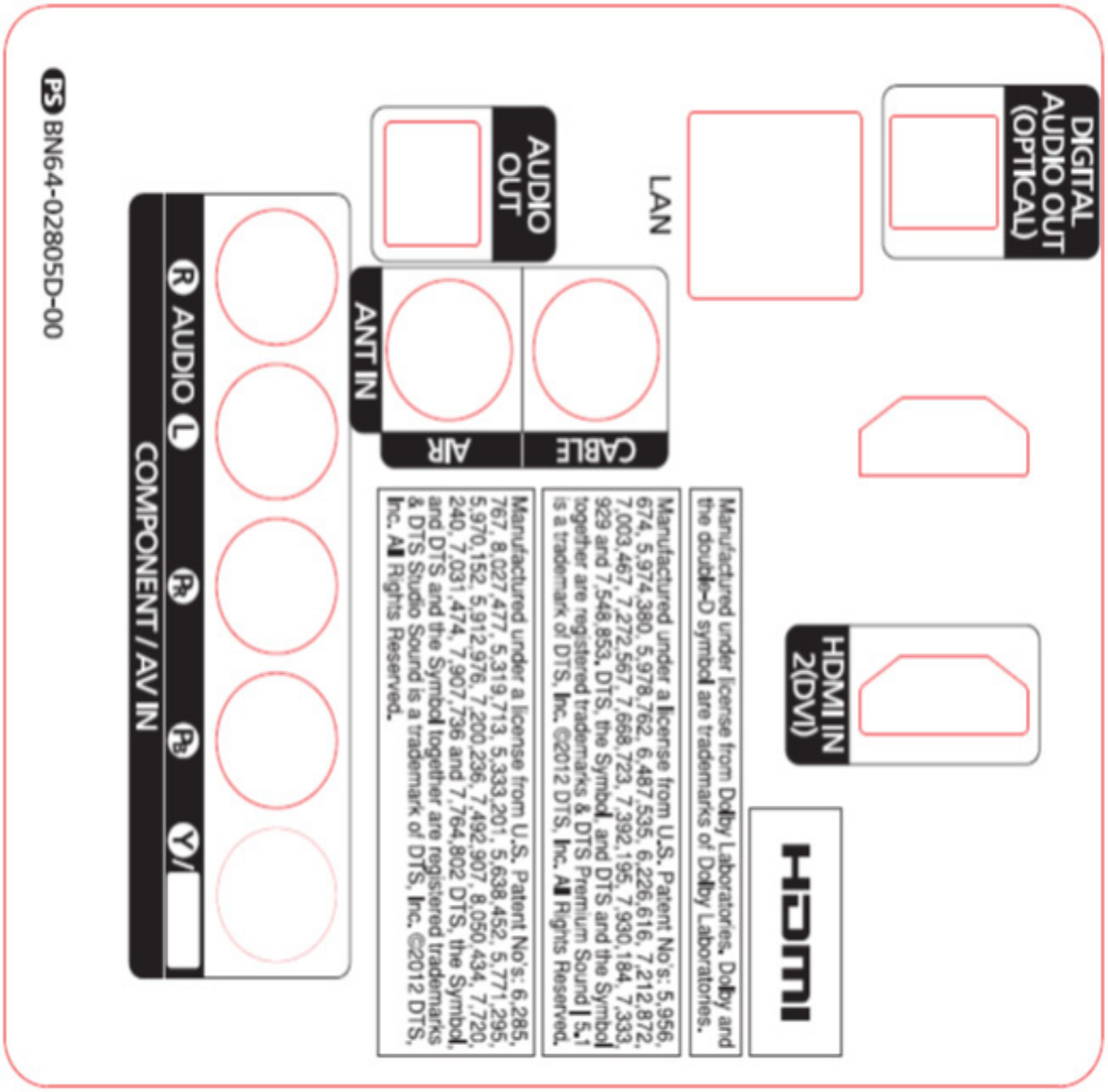
4-1-8. I want to reset the TV

Reset	Path	Description
Reset Settings	MENU > Support > Self Diagnosis > Reset	Reset Picture, Sound, Channel, Smart Hub, and all other settings, except for the network settings, default settings.
Resetting Smart Hub	MENU > Smart Hub >Smart Hub Reset	Resets all Smart Hub settings to their factory defaults and deletes all information related to Samsung accounts, linked service accounts, Smart Hub service agreements, and Smart Hub applications.

4-1-9. Other Issues

The Problem	Try this!
The TV is hot.	Watching TV for an extended period of time causes the panel to generate heat. The heat from the panel is dissipated through internal vents running along the top of the TV. The bottom, however, may feel hot to the touch after extended use. Children watching TV need constant adult supervision to prevent them from touching the TV. This heat, however, is not a defect and does not affect the TV's functionality.
The picture won't display in full screen.	HD channels will have black bars on either side of the screen when displaying upscaled SD (4:3) content. Black bars will appear at the top and bottom of the screen when you watch movies that have aspect ratios different from your TV. Adjust the picture size options on your external device or set the TV to full screen.
The "Mode Not Supported" message appears.	The output resolution of the attached device is not supported by the TV. Check the TV's supported resolutions and adjust the external device's output resolution accordingly.
The Captions item in the TV menu is grayed out.	You cannot select the Caption menu if you have selected a source connected to the TV via HDMI or Component. To view captions, turn on the external device's caption function.
The TV smells of plastic.	This smell is normal and will dissipate over time.
The Signal Information option under Self Diagnosis isn't activated.	Verify that the current channel is a digital channel. The Signal Information is only available for digital channels.
The TV is tilted to the side.	Remove the base stand from the TV and reassemble it.
The Broadcasting option has been deactivated.	Broadcasting is only available when the Source is set to TV. The Broadcasting menu cannot be accessed while you watch TV using a cable box or satellite receiver.
The settings are lost after 5 minutes or every time the TV is turned off.	If the Use Mode is set to Store Demo, the TV's audio and video settings are automatically reset every 5 minutes. Change the Use Mode (Support > Use Mode) to Home Use.
There is an intermittent loss of audio or video.	Check the cable connections and reconnect them. Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If you are mounting the TV to a wall, we recommend using cables with 90-degree connectors.
There are small particles on the TV's bezel.	This is part of the product's design and is not a defect.
The PIP menu is not available.	PIP functionality is only available when you are viewing video from an HDMI or Component source on the main screen.
A POP (TV's internal banner ad) appears on the screen.	Change the Use Mode (Support > Use Mode) to Home Use.
The TV is making a popping noise.	The expansion and contraction of the TV's outer casing may cause a popping noise. This does not indicate a product malfunction. The TV is safe to use.
The TV is making a humming noise.	Your TV utilizes high-speed switching circuits and high levels of electrical current. Depending on the TV's brightness level, the TV may seem slightly noisier than a conventional TV. Your TV has undergone strict quality control procedures that meet our demanding performance and reliability requirements. Some noise coming from the TV is considered normal and is not an acceptable cause for an exchange or refund.

4-2. Connect


DIGITAL AUDIO OUT (OPTICAL)
HDMI IN 2(DVI)
HDMI
LAN
AUDIO OUT
ANT IN
CABLE
AIR
R AUDIO L
COMPONENT / AV IN
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PS BN64-02805D-00

4-3. Factory Mode Adjustments

4-3-1. 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".

■ UN**H4203AHXPA

Model Name		40"	48"
Panel	Vendor	SDC	SDC
	Code	BN95-01722A	BN95-01723A
	Spec.	HH040AGLV1H/V	HH048AGLV1H/V
SMPS	Vendor	SEM	SEM
	Code	BN44-00754A	BN44-00757A
	Spec.	L40G0B_ESM	L48G0B_ESM
MAIN ASSY	Chassis Ass'y	BN91-13320B	BN91-13320L
	PBA Ass'y code	BN94-07823N	BN94-07822T

Byte	Item		
0	Factory Reset	-	
1	Type	40A6AH0S	48A6AH0S
2	Basic Model	UH4203	
3	SVC Model	4203	
4	Local Set	depending on the country	
5	Tuner	ISDB-T / DVB-T	
6	Ch Table	NONE	

4-3-2. Entering Factory Mode

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

- If you have Factory remote control

INFO → Factory

1. If you don’t have Factory remote control, can’t control some menus.

Option
Control
Debug
SVC
ADC/WB
Advanced

T-NT14MUABC-xxxx
T-NT14MAKUCSS-xxxx
BT Version :*****
E-Manual : NMISDBH-1.****
EDID SUCCESS
CALIB : AV/COMP/PC/HDMI/
Option : **A6AF1D,US,4203,NONE (Vary by inches)

DTP-SDAL-NT14M-MAIN-****-****
RFS : "NT14M ****" K/2 2014-0*-**
KERNEL : 107.1272,/ Onboot : 00**
DTP-DTVTD-****

Model : UN**H4203
Wired MAC SUCCESS
Wireless MAC SUCCESS
WIFI :ATH6KL (5.0.0.99_****)
C/Nf/W/M/D/HO PO AO /S/ N/
Factory Data Ver : 191 /EERC Ver :77

Smart control : ****
DTP-BP-HAL-4718
DTP-BP-HW- 4718
DTP-BP-APP-4718-02
POP-FLA-14-HD_SMART-**
Date of purchase : mm/dd/yyyy

4-3-3. Factory Data

Note

- Black : I should not be possible to adjust or change that does not require a change item
  Blue : Adjustment Services for the corresponding
  Red : Items that are secured

■ Option

Factory Menu Name	Data	Range	Remark	Key
Factory Reset	-			
Type		40A6AH0S / 48A6AH0S		
Local Set	BRA_DTV/CHILE_DTV/ PAR_DTV/URU_DTV/ PERU_DTV/SELA/ COLOMBIA			
Model	UH4203			
SVC Model	5203			
TUNER	S_TC			
Ch Table	NONE			
MRT Option				
Front Color	U-S-C-MEGA			
Lvds Format	JEIDA			
Language_Arabic	US			
Region	USA			
PnP Language	Local			
WIFI REGION	S			
OTN Support	ON			
OTA Support	OFF			
MediaPlay DLNA	…			
TTX	OFF			
China HD	OFF			
NT Conversion	OFF			
Num of DTV	1			
Num of AV	1			
Num of COMP	1			
Num of HDMI	2			
Num of SCART	0			
Num of USB Port	2			
Num of USB 3.0	0			

Factory Menu Name	Data	Range	Remark	Key
Num of RVU	0			
Num of Display	2			
Num of IPTV	0			
Num of RUI	0			
Num of PVR RECORD	0			
TOOLS Support	40			
LNA Support	OFF			
24Px4 Support	OFF			
BD Wise Support	OFF(H6203 ON)			
Data Service Support	OFF			
PVR Support	OFF			
CI Support	OFF			
LEDMotionPlus Support	ON			
Natual Mode Support	ON			
Relax Mode Support	OFF			
HDMI/DVI SEL	2			
Select LED/PDP	LCD			
Wall Mount	OFF			
HV Flip	HV Filp			
FRC HV Flip	0			
Light Effect	OFF			
e-Pop Default	ON			
CAMERA Support	OFF			
NETWORK Support	Int-Wifi			
EcoSensor Support	ON			
3D Support	OFF			
BT Support	OFF			
BT ADDRESS	Not support			
HP LINE	LineOut			
Smart Control Support	OFF			
Motion Recog	OFF			
Voice Recog	OFF			
Virtual Remocon color	1			
Local Dimming Panel	OFF			
Wifi Vendor	QCA			
Engineer Option				
Type Of PANEL KEY	None			
5 Way Function Key	R_BACK			

Factory Menu Name	Data	Range	Remark	Key
Contents Bar	OFF			
Cable Modulation	QAM			
Standby led on/off	OFF			
Recognition Support	OFF			
IF AGC	0			
D AGC	0			
PH BW	0			
FQ BW	0			
PH RATE	0			
PD EN	0			
PEQ Inx	0			
WF Scale				
WF Type	0			
Num of Network Stream	1			
DP V Size	0			
Backend Device				
BT_AUDIO_ON_OFF	OFF			
Config_AV_PATH				
USING_PSI_UPDATE				
ECO Stanby	OFF			
Fast Logo Delay	0			
Num of PANEL KEY				
Panel Detail	0			
Panel Init Time	250			
Tcon Init Time	460			
WRITE MAC Address				

■ Control

Factory Menu Name	Data	Range	Remark	Key
EDID				
EDID ON/OFF	OFF			
EDID WRITE ALL	…			
EDID WRITE PC	…			
EDID WRITE HDMI	…			
EDID WRITE HDMI1	…			
EDID WRITE HDMI2	…			
EDID WRITE HDMI3	…			

Factory Menu Name	Data	Range	Remark	Key
EDID WRITE HDMI4	…			
EDID Ver	…			
EDID Port				
EDID WRITE DVI	…			
Sub Option				
RS-232 Jack	UART	Debug/UART		
Serial Log On/Off	OFF	ON/OFF		
Watchdog	OFF			
FRC Monitoring	OFF			
Checksum	0x0000			
Fast Boot in Production	ON			
UART ENABLE	OFF			
ECO IC TYPE	MC8121			
Info Link Server Type	development			
Info Link Country	None			
TTX Group	…			
Visual Test	…			
MediaPlay DB	…			
OPTION_SWU				
OPTION_NUM				
RF Remocon Support	OFF			
CCD mode	…			
DONS Support	OFF			
Num of IPTV CIP	0			
Num of CI	0			
Num of HYBRID TV	0			
T-CON Device				
BOARD CONTROL	OFF			
RM				
PSA				
LMK threshold	4			
Low threshold	10			
High threshold	15			
CSB	ON			
CLB	ON			
EEPG Enable	0			
Last Screen	OFF			
App Resume	OFF			

Factory Menu Name	Data	Range	Remark	Key
BP PMS Reset	1			
F Anet Thread	2			
ACM_MC	OFF			
Support MiniBrowser	ON			
HotkeyList	Basic_Smart			
PDP Option				
Pixel Shift Test	OFF			
Logic SW				
Panel Temperature				
LOGIC Waveform Day				
Logic Check Sum				
MRT				
SAPC Timer				
APC Speed				
Hotel Option				
Hospitality Mode	OFF			
Power On				
Menu OSD				
Operation				
Music Mode				
External Source				
Eco Solution				
Cloning				
Shop Option				
Shop Mode	OFF			
Exhibition Mode	OFF			
3D Cube	OFF			
Asia Option				
Unbalance				
AF Level adjust				
TX Power Level				
Mono Last Memory				
H Shaking				
SOUND				
Carrier_Mute	ON			
High Devi	OFF			
Speaker Delay Normal	10			
SPDIF PCM Gain	-9 dB			

Factory Menu Name	Data	Range	Remark	Key
FM M Prescale	48			
FM Prescale	0x00h			
AM Prescale	0x32h			
NICAM Prescale	0x48h			
BTSC Mono Prescale	15			
BTSC stereo Prescale	29			
BTSC SAP Prescale	29			
A2Ident High Thid	36			
A2Ident Low Thid	9			
Pilot Level High Thld	0x0Fh			
Pilot Level Low Thld	0x08h			
Carrier2 Amp High Thld	4			
Carrier2 Amp Low Thld	3			
Carrier2 SNR High THR	16			
Carrier2 SNR Low THR	80			
Sig Error On	35			
Sig Error Off	41			
Amp Model	TAS5745			
Amp Volume	0xc9h			
Amp Scale	0x35h			
Amp Check Sum	0x00480W60			
Woofer Type	0			
Woofer Volume	0xcbh			
Woofer Scale	0x8ah			
Woofer Check Sum	NONE			
Woofer Local EQ Checksum	0			
Speaker EQ	ON			
PEQ Test	Ready			
Lacal Speaker EQ	0			
Local EQ Checksum	0			
SRS Tuning Parm	0			
Subwoofer Support	0			
India Sound	OFF			
AudioDock BT delay	50			
Wall Filter Type	0			
Bottom CheckSum	0			
Bottom Local Checksum	0			
Lipsync Inx	2			

Factory Menu Name	Data	Range	Remark	Key
Lipsync checkSum	NG			
Lipsync USB Test	Ready			
Lipsync BT Checksum	NG			

■ Debug

Factory Menu Name	Data	Range	Remark	Key
Spread Spectrum				
LVDS Spread	ON			
DDR Spread	OFF			
Period	20K			
Amplitude	1.5			
HD SSC ON/Off	OFF			
HD SSC Value	1			
LVDS SSC ON/OFF	OFF			
LVDS Value	0			
DDR SSC ON/OFF	OFF			
DDR SSC Value	1			
FRC Vx1 SSC ON/OFF	OFF			
FRC LVDS SSC ON/OFF	OFF			
FRC LVDS SSC MRR	10			
FRC LVDS SSC MFR	1			
FRC Vx1 SSC Period	0			
FRC Vx1 SSC Modulation	0			
FRC DDR SSC ON/OFF	ON			
FRC DDR SSC MRR	15			
FRC DDR SSC MFR	1			
FRC DDR SSC Period	0			
FRC DDR SSC Modulation	0			
DDR Margin				
A CTRL_OFFSET_0_3	0			
A CTRL_OFFSET_D	0			
B CTRL_OFFSET_0_3	0			
B CTRL_OFFSET_D	0			
MICOM POWER OFF	OFF			
RF Mute Time	6ms			
CI +1.3	OFF			
FRC				

Factory Menu Name	Data	Range	Remark	Key
Tuner Margin	10			
MPEG Margin	100			
H.264 Margin	100			
CAM Wait Time				
TS Clock delay	0			
TCON_TEMP_READ	0			
TEMP LAST	60			
DCC VERSION	0x3447			
DCC CHK SEL	0			
DCC CHECK LOCAL	0			
DCC CHECK TOTAL	0			
MultiACC Checksum	0			
IIC Bus Stop	OFF			
Tuner Status				
Cert Option	SHOW			
RM_BIST_DTV	0			
RM_BIST_ATV	0			
Voice Debug	OFF			

■ SVC

Factory Menu Name	Data	Range	Remark	Key
Self Test(for HW)				
Loop Back				
CPU				
DDR				
FLASH				
EEPROM				
Tuner X-TAL				
Tuner1				
HDMI Switch IC				
USB HUB IC				
WIFI				
LVDS				
LVDS2				
T-CON/FRC				
T-CON2/FRC				
PCB Test				

Factory Menu Name	Data	Range	Remark	Key
MOIP				
BT				
EcoSensor				
Voltage				
Chip Test				
Module Test				
ATV CH Inspection				
DTV CH Inspection				
Satellite CH Inspection				
Woofer Sound Inspection				
DP Test				
DP CRC Result				
Voltage Result				
BT				
Chip Test				
Module Test				
ATV CH Inspection				
DTV CH Inspection				
Satellite CH Inspection				
UHD OSD TEST				
Aging Line Test				
Tweeter Sound Inspection				
Info				
SVC Info				
LOG(View Log)				
ER Count				
Panel Display Time				
Factory Execution History				
Factory Reset History				
Upgrade				
T-CON Usb Download				
T-CON CheckSum				
Logic Usb D/L				
SUBMICOM UPGRADE				
BT UPGRADE				
BT FREEPAIRING				
Function Upgrade				
FRC3D FW UPGRADE				

Factory Menu Name	Data	Range	Remark	Key
FRC3D LD UPGRADE				
Camera Upgade				
Mic Upgrade				
CPLD USB Download				
JP MICOM UPGRADE				
DP MICOM UPGRADE				
Jump UPGRADE				
IR Blaster Upgrade				
IR Blaster delay time				
CPLD Download				
LDC PROFILE UPGRADE				
Pic Data USB Update				
Audio Data USB Update				
Eco Data USB Upate				
SC ADK Upgrade				
SC MBR Upgrade				
Reset				
App Reset	0			
EEPROM Rst	0			
SPI Flash Reset	Failure			
OPTION_HDMI				
DVI/HDMI SOUND	Auto			
HDMI HOT PLUG	Disable			
HOTPLUG SWITCHING	boot			
HOTPLUG DURATION	1200ms			
CLK TERM DURATION	1200ms			
HDMI FLT CNT SIG	100ms			
HDMI FLT CNT LOS	100ms			
UNSTABLE BAN CNT	5000ms			
HDMI ROBIN	ON			
HDMI Callback	OFF			
HDMI CTS Thld	8			
HDMI CTS Cnt1	1			
HDMI EQ	Auto			
HDMI Write Type	Combine			
HDMI Switch	NONE			
DVI SET TIME	300ms			
HDMI Sync	DE			

Factory Menu Name	Data	Range	Remark	Key
HDMI 3D DET	0			
HOTPLUG OFF HOLD TIME				
HDMI Stable Count	1			
HDCP UPDATE SPI				
SPI VERSION	0			
DVB CI				
TS Clock delay TC	0			
TS Clock delay S	0			
CI Control Buf ON	ON			
TS Clock delay CPU	-1			
Test Pattern				
Pattern Sel	OFF			
Logic Pattern Sel				
Logic Level Sel				
FRC Pre Test Pattern	0			
FRC Post Test Pattern	0			
SOC TCON Test Pattern	0			
SOC TCON Pattern Level	255			
SOC TCON FRC Pattern	0			
HDMI WB Pattern	OFF			
HDMI Pattern Sel	0			
Parma Pre Test Pattern	0			
Parma Port Test Pattern	0			
FRC OSD PRE PATTERN	0			
FRC OSD POST PATTERN	0			
Other Setting				
Delete S/N	0			
IPERF	stopped			
Expert				
CAL Data Backup				
CAL Data Restore				
ATV IF AGC SPEED				
Source Direct ON/OFF	0			
App Update	LAST POWER			
SVC Panel	ORIGINAL			

■ ADC/WB

Factory Menu Name	Data	Range	Remark	Key
ADC				
AV Calibaration				
Comp Calibration				
PC Calibration				
HDMI Calibration				
ADC Result				
1st_Y_GH	0			
1st_Y_GL	0			
1st_Cb_BH	0			
1st_Cb_BL	0			
1st_Cr_RH	0			
1st_Cr_RL	0			
2nd_R_L	134			
2nd_G_L	134			
2nd_B_L	134			
2nd_R_H	49			
2nd_G_H	49			
2nd_B_H	49			
White Balance				
R-Offset	128			
G-Offset	128			
B-Offset	128			
R-Gain	128			
G-Gain	128			
B-Gain	128			
WB-W2_R_Offset				
WB_W2_B_Offset				
WB_W2_R_Gain				
WB_W2_B_Gain				
WB-N_R_Offset				
WB_W2_N_Offset				
WB_W2_N_Gain				
WB_W2_N_Gain				
MGA				
MGA On/Off	OFF			
R1_Gain				

Factory Menu Name	Data	Range	Remark	Key
G1_Gain				
B1_Gain				
R2_Gain				
G2_Gain				
B2_Gain				
R3_Gain				
G3_Gain				
B3_Gain				
R4_Gain				
G4_Gain				
B4_Gain				
R5_Gain				
G5_Gain				
B5_Gain				
R6_Gain				
G6_Gain				
B6_Gain				
R7_Gain				
G7_Gain				
B7_Gain				
R8_Gain				
G8_Gain				
B8_Gain				
R9_Gain				
G9_Gain				
B9_Gain				
R10_Gain				
G10_Gain				
B10_Gain				

■ Advanced

4-4. White Balance

4-4-1. Calibration

1. Into the Factory Mode.
2. Select **ADC/WB** menu.
3. Select **ADC** menu.

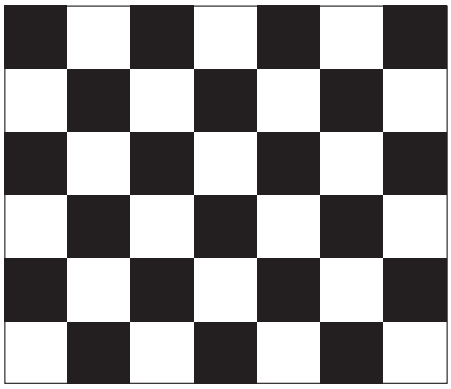
4-4-2. Service Adjustment

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

■ Color Calibration

- Adjust Specification

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



(Chess Pattern)

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

Input mode	Calibration	Pattern
CVBS IN (Model_#1)	Perform in NTSC B&W Pattern #24	Lattice
Component IN (Model_#6)	Perform in 720p B&W Pattern #24	Lattice
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 (HDMI)

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

4-4-3. Adjustment

1. Into the Factory Mode.
2. Select **ADC/WB** menu.
3. Select **White Balance** menu.

		(Low light)	(High light)
ADC/WB	White Balance	**Sub Bright**	**Sub Contrast**
		R offset	**R gain**
		G offset	**G gain**
		B offset	**B gain**

4-5. Software Upgrade

Samsung may offer upgrades for the TV's firmware in the future. These upgrades can be performed via the TV when it is connected to the Internet, or by downloading the new firmware from samsung.com to a USB memory device.

- Alternative Software (Backup) shows The previous version that will be replaced.
- Software is represented as 'Year/Month/Day_Version'. The more recent the date, the newer the software version Installing the latest version is recommended.

4-5-1. By USB

Insert a USB drive containing the firmware upgrade downloaded from samsung.com into the TV. Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied.

"MENU-->Support--> Software Update"

The TV will turn off and turn on automatically after completing the firmware upgrade. Please check the firmware version after the upgrades are complete (the new version will have a higher number than the older version). When software is upgraded, video and audio settings you have made will return to their default (factory) settings. We recommend you write down your settings so that you can easily reset them after the upgrade.

4-5-2. 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.

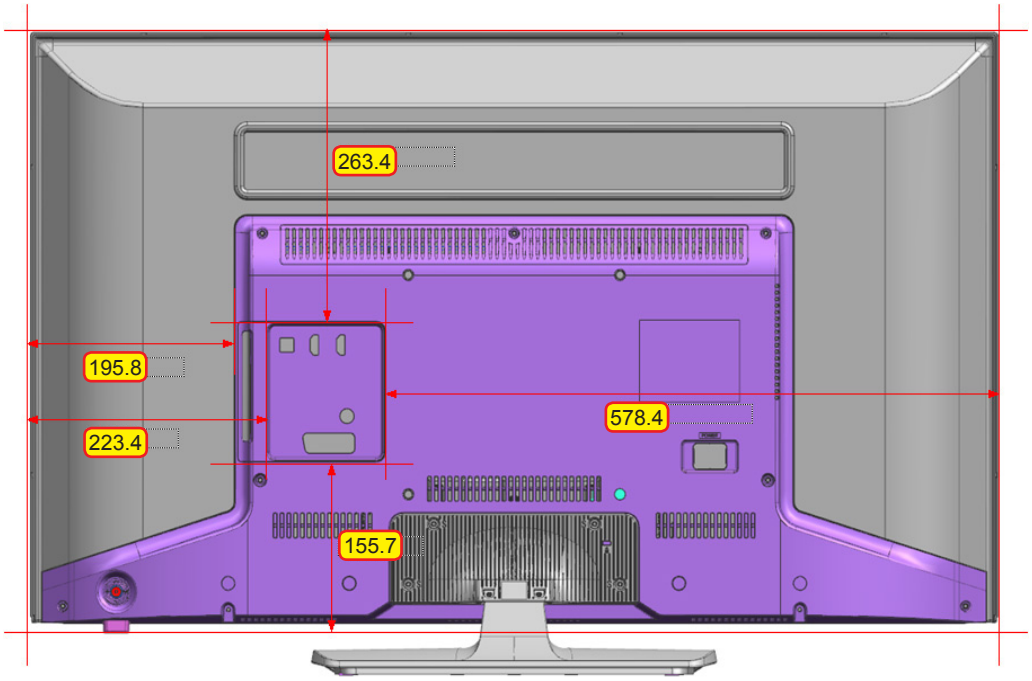
4-5-3. Alternative Software (Backup)

If there is an issue with the new firmware and it is affecting operation, you can change the software to the previous

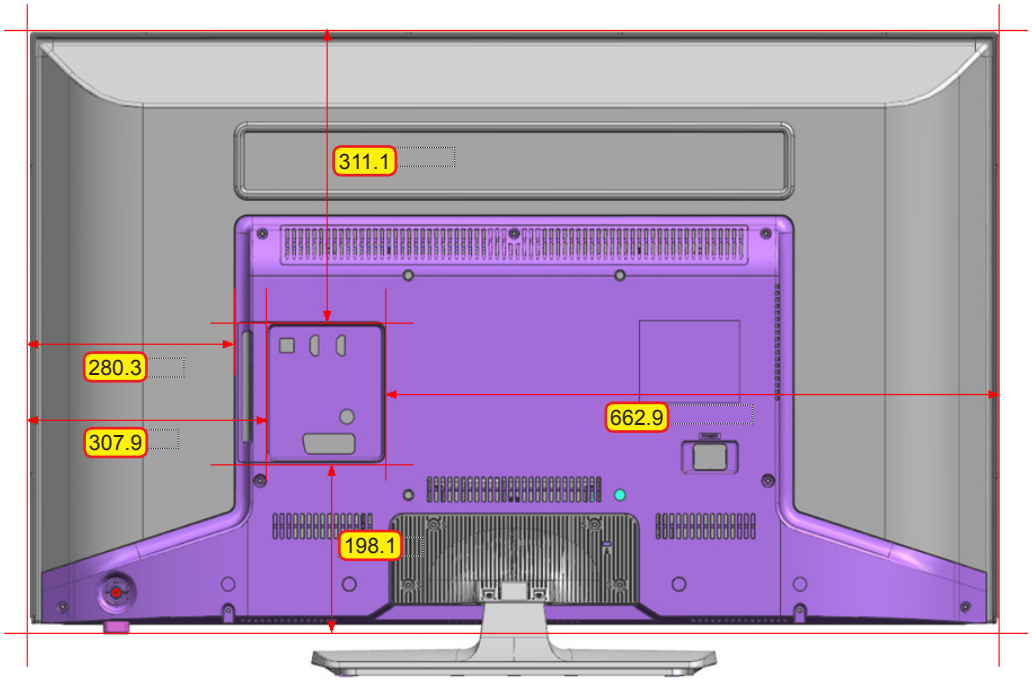
- If Software was changed, existing Software is displayed.
- you can change current Software to Alternative Software by 'Alternative Software'.

4-6. Cover Rear Dimension

40 inches

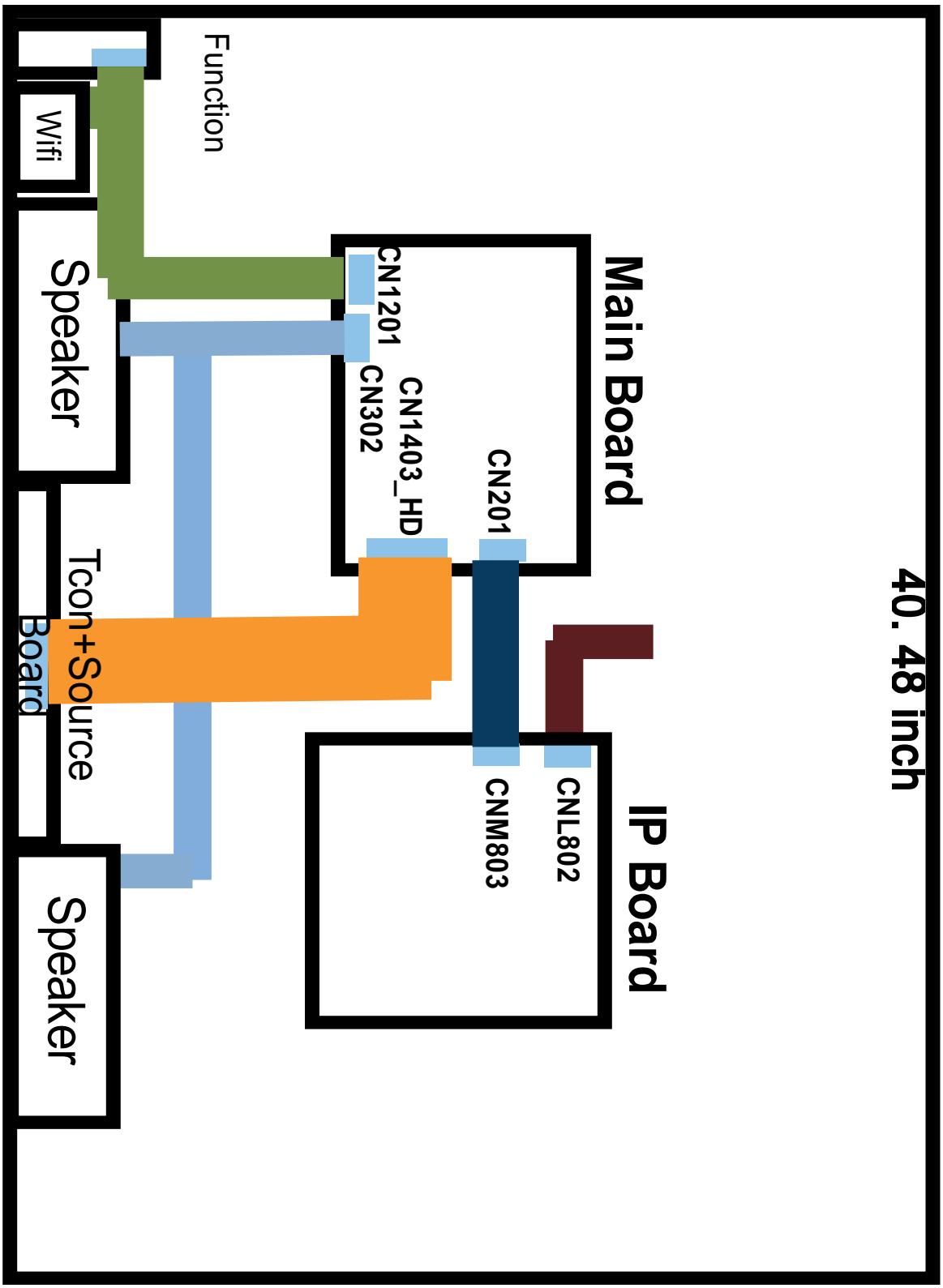


48 inches

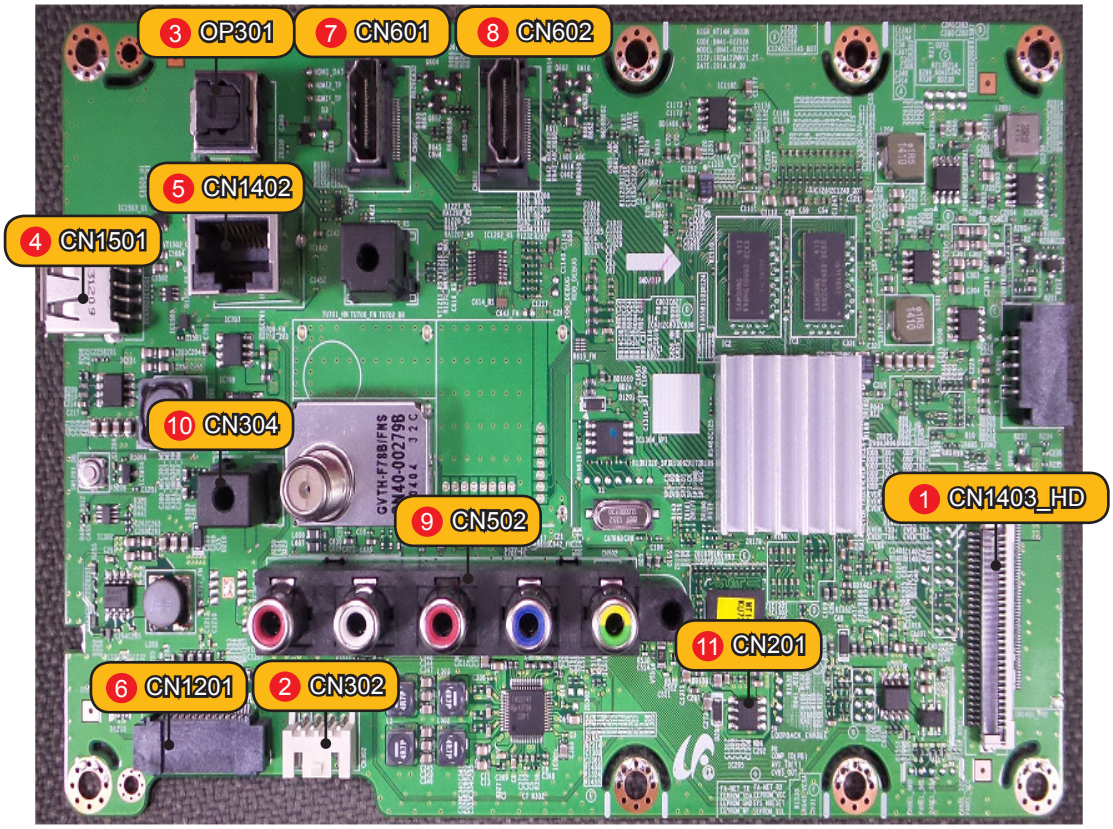


5. Wiring Diagram

5-1. Wiring Diagram



5-2. Connector



1 CN1403_HD			
1	PANEL_13V_PW	16	TXCLK+
2	PANEL_13V_PW	17	TXCLK-
3	PANEL_13V_PW	18	GND
4	PANEL_13V_PW	19	TX2+
5	PANEL_13V_PW	20	TX2-
6	GND	21	GND
7	GND	22	TX1+
8	GND	23	TX1-
9	PANEL_I2C_EN	24	GND
10	GND	25	TX0+
11	NC	26	TX0-
12	GND	27	GND
13	TX3+	28	TCON_SDA
14	TX3-	29	TCON_SCL
15	GND	30	NC

2 CN302 (to Speaker)			
1	R+	3	L+
2	R-	4	L-

3 OP301 (to Optical Jack)			
1	SPDIF_OUT	3	GND
2	B5V_DC_PW		

4 CN1501 (USB1)			
1	B5V_USB1_PW	3	USB1_DP
2	USB1_DM	4	GND

5 CN1402 (to LAN)			
1	LAN_TXD+	5	GND
2	GND	6	LAN_RXD-
3	LAN_TXD-	7	NC
4	LAN_RXD+	8	GND

6 CN1201 (to Function/IR/WiFi)			
1	IR	14	NC
2	NC	15	LED_STB
3	GND	16	NC
4	NC	17	GND
5	A3.3V	18	NC
6	NC	19	NC
7	MSCL	20	NC
8	NC	21	GND
9	MSDA	22	WIFI_DP
10	NC	23	WIFI_DM
11	KEY_INPUT1	24	B5V_DC_PW
12	NC	25	NC
13	KEY_INPUT2	26	WIFI_NRESET

7 CN601 (to HDMI1)			
1	HDMI1_RX2+	11	GND
2	GND	12	HDMI1_RXCLK-
3	HDMI1_RX2-	13	CEC
4	HDMI1_RX1+	14	NC
5	GND	15	HDMI1_SCL_DDC
6	HDMI1_RX1-	16	HDMI1_SDA_DDC
7	HDMI1_RX0+	17	GND
8	GND	18	HDMI1_5V
9	HDMI1_RX0-	19	HDMI1_HOT_PLUG
10	HDMI1_RXCLK+		

8 CN602 (to HDMI2)			
1	HDMI2_RX2+	11	GND
2	GND	12	HDMI2_RXCLK-
3	HDMI2_RX2-	13	CEC
4	HDMI2_RX1+	14	ARC2_SIGLE
5	GND	15	HDMI2_SCL_DDC
6	HDMI2_RX1-	16	HDMI2_SDA_DDC
7	HDMI2_RX0+	17	GND
8	GND	18	HDMI2_5V
9	HDMI2_RX0-	19	HDMI2_HOT_PLUG
10	HDMI2_RXCLK+		

9 CN502 (to Component&AV)			
1	GND	9	TEST_PR
2	COMP2_Y_CVBS	10	GND
3	INDENT_VIEDO2	11	COMP2_AV2_SL_IN
4	GND	12	TEST_SL
5	COMP2_PB	13	GND
6	INDENT_COMP2	14	COMP2_AV2_SR_IN
7	GND	15	TEST_SR
8	COMP2_PR		

10 CN304 (HEADPHONE & LR OUT)			
1	GND	4	TEST_SL
2	HP_LINE_SL_OUT	5	TEST_SR
3	HP_LINE_SR_OUT	6	IDENT_HP

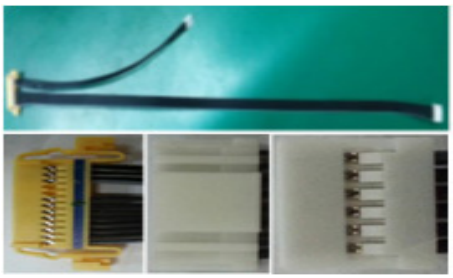
11 CN201 (to Power)			
1	GND	6	SW_POWR
2	GND	7	A13V_PW
3	A13V_PW	8	SW_INVERTER
4	GND	9	A13V_PW
5	A13V_PW	10	UNDER_DRIVE

5-3. Connector Functions

Connector	Function
CN201 ↔ CNM803	Supply main power and dimming signal from SMPS to Main Board.
CN401 ↔ CON3	The LVDS signal transfered from Main Board to Panel.

5-4. Cables

Use	Use	Main-SMPS (10P-10P)	Main-Tcon
Code No.	40"	BN39-01885S	BN96-31086R
	48"	BN39-01885G	BN96-31086W
Image			

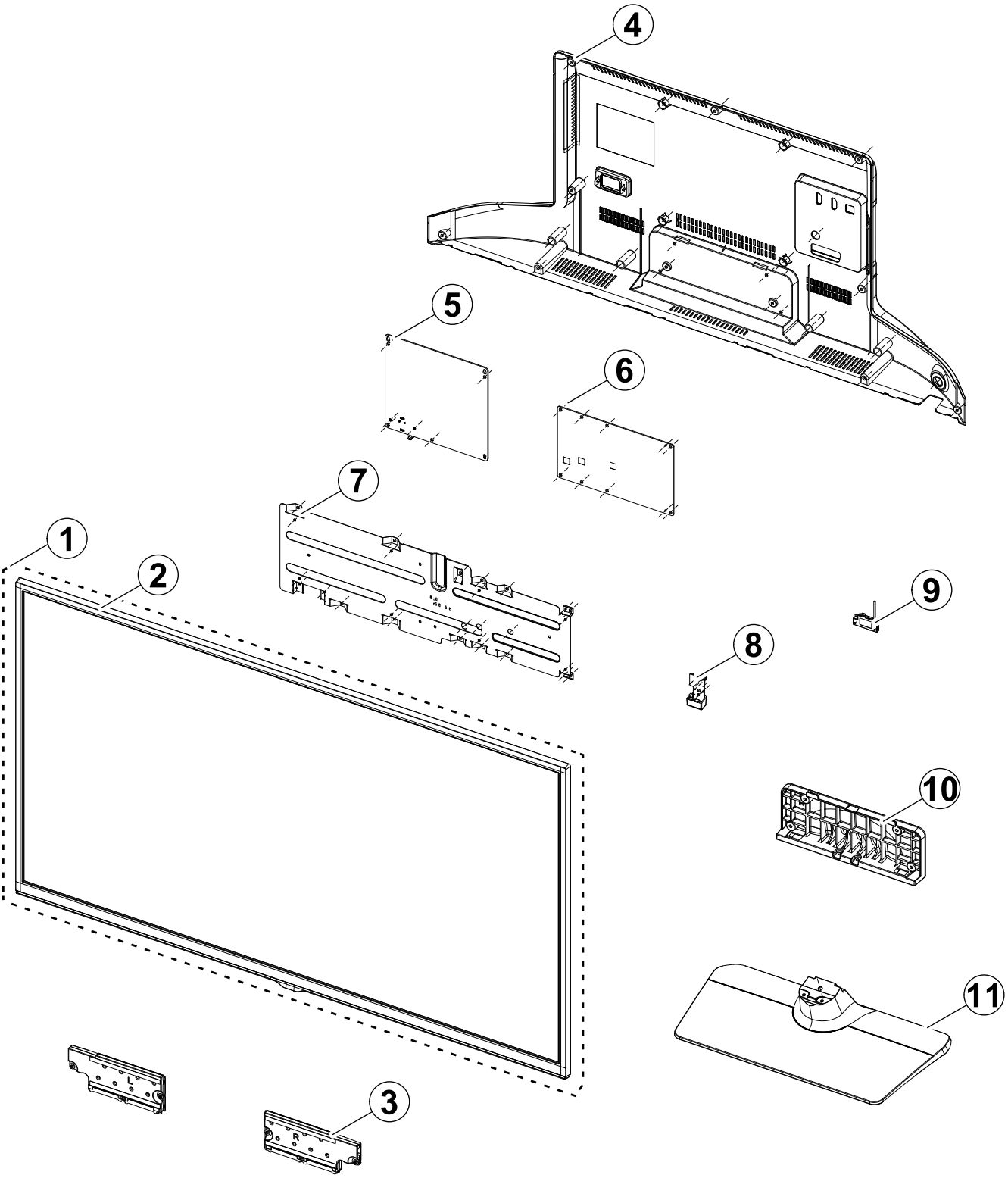
Use	Use	Main-Function/WiFi	
Code No.	40"	BN39-01929M	
	48"	BN39-01929K	
Image			

5-5. The Types of Module

Use	Use	Wifi module	Function module
Code No.	-	BN59-01174A	BN96-32965B
Standard		IEEE802.11abgn	-
Image	-		

1. Exploded View & Part List

Exploded View



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Parts List

No.	Lvl.	Loc.	Material Code	Description & Specification	SNA	Qty.
1	2	PANEL	BN95-01722A	PRODUCT LCD-AMLCD; LSF400AM01-G,CY-HH040A	SA	1
2	3	TC01A	BN96-32836A	ASSY CHASSIS TOP P; Y14 H4203 40",PC+ABS	SA	1
3	2	SP01A	BN96-32738A	ASSY SPEAKER P; 6ohm,10W,holderless_PDP-r	SA	1
4	2	R001A	BN96-33655C	ASSY COVER P-REAR; MEGA SMART 40"(H4203),	SA	1
5	2	P001A	BN44-00754A	DC VSS-LED TV PD BD; L40G0B_ESM,L40G0B_ES	SA	1
6	2	M0014	BN94-07823N	ASSY PCB MAIN; H4203,40"	SA	1
7	2	CB07	BN61-10765A	BRACKET-PCB; H4203,SECC,T0.5	SNA	1
8	2	FB01A	BN96-32965B	ASSY BOARD P-JOG SWITCH & IR; UH4200,FUNC	SA	1
9	2	WIFI	BN59-01174A	NETWORK-WIFI MODULE; WIDT-30Q,Internal Wi	SA	1
10	2	SG01A	BN96-30590A	ASSY GUIDE P-STAND; UH5000/5500 40/48/50,	SA	1
11	2	SB04A	BN96-30587A	ASSY STAND P-BASE; UH5500 40,PC+ABS GF20%	SA	1

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2. Electrical Parts List

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
			UN40H4203AHXPA (TS01)		
1	S001A	BN90-05205B	ASSY STAND;UH5K	1	SNA
.2	SB04A	BN96-30587A	ASSY STAND P-BASE;UH5500 40,PC+ABS GF20%	1	SA
..3		6902-002108	BAG PE;HDPE/PE FOAM+HDPE,T0.015/T0.5,W25	1	SNA
..3		BN63-11628A	COVER-STAND BASE;UH5500 40",PC+ABS+G/F20	1	SNA
..3		BN67-00327D	RUBBER-FOOT;STAND,SILICON,13*13,T2,GRAY(	8	SNA
.2	SG01A	BN96-30590A	ASSY GUIDE P-STAND;UH5000/5500 40/48/50,	1	SA
..3		6902-001063	BAG PE;LDPE,T0.05,W180,L350,TRP,RECYCLE	1	SNA
..3	SG03	BN61-09997A	GUIDE-STAND;UH5000 40",PC+G/F20%,V2	1	SC
..3		BN68-05381A	LABEL-BASE;Art Paper 100G,T0.08,20mmX50m	1	SNA
..3		BN96-31991A	ASSY ACCESSORY-SCREW;H5500,6003-001782,8	1	SNA
...4	SCREW	6003-001782	SCREW-TAPTYPE;BH,+,B,M4,L12,ZPC(BLK),SWR	8	SA
...4		6902-000341	BAG PE;LDPE,T0.05,L90,W70,TRP,,,PE MARK	1	SNA
1	R001A	BN90-06066Q	ASSY COVER REAR;H4203	1	SNA
.2	SCREW	6003-001782	SCREW-TAPTYPE;BH,+,B,M4,L12,ZPC(BLK),SWR	11	SA
.2	R001A	BN96-33655C	ASSY COVER P-REAR;MEGA SMART 40"(H4203),	1	SA
..3		BN60-00162V	SPACER-FOAM;FOAM,50000mm,DARK GRAY,0.5T,	0	SNA
..3	R001	BN63-12351T	COVER-REAR;MEGA SMART 40",HIPS,MASTER,Co	1	SNA
..3	T0071	BN64-02805D	INLAY-TERMINAL;H4203 SMART,PS,T0.3,119.5	1	SNA
1		BN90-06145A	ASSY W/I;40H4203	1	SNA
.2		BN81-08159Z	PART SET-ELEC W/I;UF4~UF8,UH4~UH9 ELEC	1	SNA
.2		BN81-09500K	PART SET-MECH W/I;UH4B,U40HF*	1	SNA
1		BN91-12952A	ASSY LCM-AMLCD;BN95-01722A,CY-HH040AGLV1	1	SNA
.2	PANEL	BN95-01722A	PRODUCT LCD-AMLCD;LSF400AM01-G,CY-HH040A	1	SA
..3		BN68-05595A	LABEL-STICKER;Art Paper 100G,T0.2,80mmX2	1	SNA
..3		BN90-05980A	ASSY MISC-BLU;MEGA MODEL,CY-HH040AGLV1V	1	SNA
...4	SCREW	6003-000115	SCREW-TAPTYPE;BH,+,B,M3,L6,ZPC(BLK),SWRC	2	SA
...4		BN61-08161A	HOLDER-LED-PCB;Direct-LED,PC,white	19	SNA
...4		BN61-10579A	HOLDER-PLATE;Y14 F-LED 40" (MEGA),ABS+PC	3	SNA
...4		BN61-10716A	BRACKET-DRIVER IC;Y14 F-LED 40" (MEGA),E	1	SNA
...4		BN61-10792A	LGP-DIFFUSESR PLATE;40inch Mega, Diffuse	1	SNA
...4		BN61-11123A	SUPPORT-PLATE;MEGA,PC,CLEAR	3	SNA
...4	M0131	BN63-00520A	GASKET;APPOLO_PAL,Conductive Fabric,0.13	2	SNA
...4		BN63-12637A	SHEET-COMPLEX;MEGA 40inch,PET,0.32,901.6	1	SNA
...4		BN63-12642A	SHEET-REFLECTOR;MEGA 40inch TXA188,PET,0	1	SNA
...4		BN96-32767A	ASSY LED BAR P-LED BAR;40inch A type,Dir	2	SNA
...4		BN96-32768A	ASSY LED BAR P-LED BAR;40inch B type,Dir	1	SNA
...4		BN96-32838A	ASSY CHASSIS BOTTOM P;14Y H4203 40",PC+A	1	SNA

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Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
....5	SCREW	6003-000115	SCREW-TAPTYPE;BH,+,B,M3,L6,ZPC(BLK),SWRC	2	SA
....5	SCREW	6003-001070	SCREW-TAPTYPE;BH,+,B,M2,L4,ZPC(BLK),SWRC	6	SNA
....5	SCREW	6003-001782	SCREW-TAPTYPE;BH,+,B,M4,L12,ZPC(BLK),SWR	4	SA
....5		BN02-00074A	TAPE PET;CCFL 32"/40",3M1360NH(B),T0.05,	2	SNA
....5		BN02-00102B	TAPE FILAMENT;UE7000,#8917,0.15,25,50,WH	0	SNA
....5	EC13	BN39-01908A	LEAD CONNECTOR;40inch Mega,Lead Connecto	1	SNA
....5		BN60-00999G	SPACER-PANEL_B;14 H4.2K 40",SI,L218,GRAY	3	SNA
....5		BN60-00999H	SPACER-PANEL_C;14 H4.2K 40",SI,L174,GRAY	3	SNA
....5		BN60-00999J	SPACER-PANEL_D;14 H4.2K 40",SI,L237,GRAY	2	SNA
....5		BN60-00999K	SPACER-PANEL_DOWN_A;14 H4.2K 40",SI,L249	2	SNA
....5		BN60-00999L	SPACER-PANEL_DOWN_B;14 H4.2K 40",SI,L221	1	SNA
....5		BN60-01005D	SPACER-BOTTOM;14 ENTRY MODEL 40" & quot,CO	2	SNA
....5		BN60-01009D	SPACER-BOTTOM_LINK;14 ENTRY MODEL 40 & quo	2	SNA
....5		BN60-01051A	SPACER-THERMAL RADIATION;Y14 ENTRY MODEL	4	SNA
....5		BN61-10607A	BRACKET-LED BAR_U;Y14 F-LED 40" (MEGA),A	2	SNA
....5		BN61-10610A	BRACKET-LED BAR_D;Y14 F-LED 40" (MEGA),A	1	SNA
....5		BN61-10624A	BRACKET-EMI_L;Y14 F-LED 40" (MEGA),EGI-S	1	SNA
....5		BN61-10627A	BRACKET-EMI_R;Y14 F-LED 40" (MEGA),EGI-S	1	SNA
....5		BN61-10731A	BRACKET-WALL MOUNT;MEGA,EGI-SECC AG,T1.2	4	SNA
....5	CC02	BN64-02660A	CHASSIS-BOTTOM;Y14 F-LED 40" (MEGA),PC+A	1	SNA
..3		BN96-32517A	ASSY OPEN CELL;LSF400AM01-G01,8bit,40INC	1	SNA
...4		BN81-07435A	A/S-ADHESIVE-A.C.F;ADHESIVE-A.C.F,2-ADHE	1	SNA
...4		BN81-07943A	A/S-ADHESIVE-A.C.F(TP500B);ADHESIVE-A.C.	1	SNA
...4		BN81-10285A	A/S-IC DRIVER SOURCE;IC DRIVER SOURCE,DB	1	SNA
...4		BN81-10286A	A/S-POLARIZER-C/F;POLARIZER-C/F,LJ01-098	1	SNA
...4		BN81-10287A	A/S-POLARIZER-TFT;POLARIZER-TFT,LJ01-098	1	SNA
...4		BN81-10288A	A/S-ASSY PCB-SOURCE;ASSY PCB-SOURCE(R),L	1	SNA
..3	TC01A	BN96-32836A	ASSY CHASSIS TOP P;Y14 H4203 40",PC+ABS	1	SA
...4		BN60-00715A	SPACER-TOP,CORNER;Y13 Slim F-LED,GASKET*	4	SNA
...4		BN60-01007A	SPACER-TOP (UD);Y14 ENTRY MODEL 40",GASK	2	SNA
...4		BN60-01008A	SPACER-TOP (LR);Y14 ENTRY MODEL 40",GASK	2	SNA
...4		BN60-01009A	SPACER-LINK;H4203,GASKET*,30mm,BLK,0.2T,	2	SNA
...4	AS080	BN63-07229A	SHEET-COVER;rose70",SILICONE,T0.052,W50m	1	SNA
...4		BN63-07229W	SHEET-COVER;UE8000,PET+SILICONE,T0.052,W	2	SNA
...4	AC157	BN64-02658A	CHASSIS-TOP;Y14 F-LED 40" (MEGA),PC+ABS+	1	SNA
1		BN91-13128Y	ASSY SHIELD;H4K	1	SNA
.2	SCREW	6001-003016	SCREW-MACHINE;PWH,+,M3.0,L5.0,ZPC(WHT),S	2	SA
.2	SCREW	6003-001188	SCREW-TAPTYPE;BH,+,-,B,M4,L10,ZPC(WHT),S	12	SA
.2		BN02-00102B	TAPE FILAMENT;UE7000,#8917,0.15,25,50,WH	0	SNA
.2	EC13	BN39-01885S	LEAD CONNECTOR;MFM NT14L,Flat Connector	1	SA

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Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
.2	M-F	BN39-01929M	LEAD CONNECTOR-FUNCTION;40H4203,Lead Con	1	SA
.2	P001A	BN44-00754A	DC VSS-LED TV PD BD;L40G0B_ESM,L40G0B_ES	1	SA
.2	WIFI	BN59-01174A	NETWORK-WIFI MODULE;WIDT-30Q,Internal Wi	1	SA
.2	CB07	BN61-10765A	BRACKET-PCB;H4203,SECC,T0.5	1	SNA
.2	FL06	BN96-31086R	ASSY CABLE P-FFC;UE40H4200,FFC,NH,250mm,	1	SA
.2	SP01A	BN96-32738A	ASSY SPEAKER P;6ohm,10W,holderless_PDP-r	1	SA
.2	FB01A	BN96-32965B	ASSY BOARD P-JOG SWITCH & IR;UH4200,FUNC	1	SA
1	M0017	BN91-13320B	ASSY CHASSIS;H4203	1	SNA
.2	M0014	BN94-07823N	ASSY PCB MAIN;H4203,40"	1	SA
..3	AH020	BN62-00659A	HEAT SINK;UN55H6203AFXZA,A6063,BLACK	1	SNA
..3	T0527	BN68-00513A	LABEL-E,PASS;ALL MODEL,YUPO(110G),BLACK,	1	SNA
..3		BN97-07144A	ASSY DRM-KEY;HDCP(BN46-00110N),MAC(BN46-	1	SNA
...4		BN46-00109H	KEY CODE-CERTIFI;MAC,TV/AV,General	1	SNA
...4		BN46-00110N	KEY CODE-CERTIFI;MIRACAST,TV,X12 /X13	1	SNA
..3		BN97-08898A	ASSY SMD;H4203,BN41-02253*	1	SNA
...4		0202-001899	SOLDER-CREAM;M705-GRN360-K2-VT,25-36um,S	0	SNA
...4		0403-001783	DIODE-ZENER;BZB84-C6V2,5.8/6.6V,300mW,SO	2	SNA
...4		0404-001404	DIODE-SCHOTTKY;BAT721C,40V,200mA,SOT-23,	2	SA
...4		0406-001200	DIODE-TVS;RCLAMP0504F,6/-/-V,150W,SC-70	2	SA
...4		0406-001628	DIODE-TVS;AOZ8804ADI,6/-/-V,150W,SLP2510	1	SA
...4		0406-001635	DIODE-TVS;SMF5.0A,6.4V, 6.7V, 7V,200W,SM	5	SA
...4		0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	2	SC
...4		0505-002560	FET-SILICON;AO6415,P,-20V,-3.3A,0.15ohm,	1	SA
...4		0505-002598	FET-SILICON;AP2317GN,P,-20V,-4.2A,0.052o	1	SA
...4		0505-002893	FET-SILICON;AO4801AS,P,-30V,-5A,2W,SOIC-	1	SA
...4		0505-003397	FET-SILICON;2N7002K,N,60V,380mA,1.19ohm,	5	SA
...4		1001-001545	IC-ANALOG MULTIPLEX;TS3USB221ERSER,R-PQF	1	SA
...4		1103-001487	IC-EEPROM;AT24C256C-SSHL-T,256Kbit,32Kx8	1	SA
...4		1105-002527	IC-DDR3 SDRAM;K4B2G1646Q-BCK0,DDR3,2Gbit	1	SA
...4		1105-002529	IC-DDR3 SDRAM;K4B4G1646D-BCK0,DDR3 1600,	1	SA
...4		1201-003690	IC-AUDIO AMP;TAS5747PHPR,QFP,48P,DUAL,PL	1	SA
...4		1203-004363	IC-VOL. DETECTOR;SOT-23,3Z30,2.9x1.6mm,P	1	SA
...4		1203-006017	IC-VOL. DETECTOR;RT9824GJ8,TSOT23,8P,2.9	1	SA
...4		1203-006130	IC-POSI.FIXED REG.;S-1172B25-U5T1G,SOT-8	1	SA
...4		1203-007238	IC-PWM CONTROLLER;TPS54427,DDA,8P,4.8x3.	1	SNA
...4		1203-007242	IC-POSI.ADJUST REG.;G2992BP11U,SOP-8,8P,	1	SA
...4		1203-007984	IC-DC/DC CONVERTER;AOZ3015PI,SO-8,8P,6.2	1	SA
...4		1203-008104	IC-POSI.FIXED REG.;S-13A1D18-E8001,HSOP,	2	SNA
...4		1203-008105	IC-POSI.FIXED REG.;S-13A1D33-E8001,HSOP,	1	SNA
...4		1203-008118	IC-DC/DC CONVERTER;AOZ3013PI,SO-8,8P,4.9	3	SNA

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Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4		1204-003558	IC-VIDEO PROCESS;SENK15,HS-TFBGA,626P,26	1	SNA
...4		1205-004447	IC-SWITCH;TPS2051CDBVR,SOT23-5,5P,3x1.65	1	SA
...4		1405-001271	VARISTOR;35V,20Vdc,5A,1.0x0.5x0.6mm,TP,1	13	SA
...4		2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	22	SA
...4		2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	9	SA
...4		2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	6	SA
...4		2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	26	SA
...4		2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	19	SA
...4		2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	6	SNA
...4		2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	14	SNA
...4		2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	1	SA
...4		2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	8	SA
...4		2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	2	SNA
...4		2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	16	SA
...4		2007-000256	R-CHIP;1.6Kohm,1%,1/10W,TP,1608	3	SA
...4		2007-000265	R-CHIP;1.8Kohm,1%,1/10W,TP,1608	1	SA
...4		2007-000583	R-CHIP;22Kohm,1%,1/10W,TP,1608	3	SA
...4		2007-000691	R-CHIP;3.3Mohm,5%,1/10W,TP,1608	1	SA
...4		2007-000726	R-CHIP;300ohm,1%,1/10W,TP,1608	2	SA
...4		2007-000775	R-CHIP;33Kohm,5%,1/16W,TP,1005	1	SNA
...4		2007-000803	R-CHIP;36Kohm,1%,1/10W,TP,1608	2	SA
...4		2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005	8	SA
...4		2007-001125	R-CHIP;68Kohm,1%,1/10W,TP,1608	1	SA
...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		2007-003022	R-CHIP;62ohm,5%,1/16W,TP,1005	26	SNA
...4		2007-007001	R-CHIP;3.9Kohm,5%,1/16W,TP,1005	1	SA
...4		2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005	4	SNA
...4		2007-007108	R-CHIP;43.2Kohm,1%,1/16W,TP,1005	1	SA
...4		2007-007136	R-CHIP;4.7Kohm,1%,1/16W,TP,1005	14	SNA
...4		2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	15	SA
...4		2007-007156	R-CHIP;1ohm,5%,1/16W,TP,1005	5	SA
...4		2007-007306	R-CHIP;100ohm,1%,1/16W,TP,1005	2	SNA
...4		2007-007309	R-CHIP;12Kohm,1%,1/16W,TP,1005,0.35	3	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		2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005	14	SA
...4		2007-007470	R-CHIP;7.5Kohm,1%,1/16W,TP,1005	1	SNA
...4		2007-007517	R-CHIP;240ohm,1%,1/16W,TP,1005	2	SNA
...4		2007-007538	R-CHIP;56Kohm,1%,1/16W,TP,1005	1	SA

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Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4		2007-007942	R-CHIP;1Mohm,1%,1/16W,TP,1005	1	SNA
...4		2007-008015	R-CHIP;75ohm,1%,1/16W,TP,1005	13	SA
...4		2007-008117	R-CHIP;2.7Kohm,1%,1/16W,TP,1005	1	SA
...4		2007-008275	R-CHIP;30Kohm,1%,1/16W,TP,1005	2	SNA
...4		2007-008298	R-CHIP;49.9ohm,1%,1/16W,TP,1005	4	SA
...4		2007-008779	R-CHIP;0ohm,1%,1/16W,TP,1005	2	SA
...4		2011-001449	R-NETWORK;22ohm,5%,1/16W,L,4P,TP,1010	2	SA
...4		2011-001506	R-NETWORK;10Kohm,5%,1/16W,L,CHIP,4P,TP,1	1	SA
...4		2011-001527	R-NETWORK;4.7Kohm,5%,1/16W,L,CHIP,4P,TP,	2	SA
...4	AD480	2203-000233	C-CER,CHIP;0.1nF,5%,50V,C0G,TP,1005	4	SA
...4	AD480	2203-000278	C-CER,CHIP;0.01nF,0.5pF,50V,C0G,TP,1005	1	SA
...4	AD480	2203-000330	C-CER,CHIP;0.012nF,5%,50V,C0G,TP,1005	2	SA
...4	AD480	2203-000359	C-CER,CHIP;0.15nF,5%,50V,C0G,TP,1005,0.5	1	SA
...4	AD480	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	14	SA
...4	AD480	2203-000489	C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1005	4	SA
...4	AD480	2203-000575	C-CER,CHIP;220nF,10%,25V,X7R,TP,2012	6	SA
...4	AD480	2203-000585	C-CER,CHIP;0.22nF,10%,50V,X7R,TP,1005	1	SA
...4	AD480	2203-000627	C-CER,CHIP;0.022nF,5%,50V,C0G,TP,1005	3	SNA
...4	AD480	2203-000679	C-CER,CHIP;0.027nF,5%,50V,C0G,TP,1005	2	SA
...4	AD480	2203-000714	C-CER,CHIP;3.3nF,10%,50V,X7R,TP,1005	5	SA
...4	AD480	2203-000812	C-CER,CHIP;0.033nF,5%,50V,C0G,TP,1005	4	SA
...4	AD480	2203-000940	C-CER,CHIP;0.47nF,10%,50V,X7R,TP,1005	2	SA
...4	AD480	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,TP,1005	19	SNA
...4	AD480	2203-002711	C-CER,CHIP;100nF,10%,25V,X7R,TP,1608	5	SA
...4	AD480	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	6	SA
...4	AD480	2203-005344	C-CER,CHIP;22nF,10%,25V,X7R,TP,1005,0.5T	1	SNA
...4	AD480	2203-005968	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1005,0.5	3	SNA
...4	AD480	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,1005	92	SA
...4	AD480	2203-006126	C-CER,CHIP;47nF,10%,16V,X7R,TP,1005	13	SNA
...4	AD480	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,TP,1005,0.5	17	SA
...4	AD480	2203-006324	C-CER,CHIP;2200nF,10%,10V,X5R,TP,1608	6	SA
...4	AD480	2203-006348	C-CER,CHIP;1000nF,10%,25V,X5R,TP,1608,0.	2	SA
...4	AD480	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	23	SC
...4	AD480	2203-006474	C-CER,CHIP;22000nF,20%,6.3V,X5R,TP,2012	36	SA
...4	AD480	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	14	SNA
...4	AD480	2203-006824	C-CER,CHIP;4700nF,10%,10V,X5R,TP,1608	5	SNA
...4	AD480	2203-006838	C-CER,CHIP;2200nF,10%,6.3V,X5R,TP,1005	1	SA
...4	AD480	2203-006841	C-CER,CHIP;1000nF,10%,16V,X5R,TP,1005	4	SNA
...4	AD480	2203-006842	C-CER,CHIP;0.47nF,5%,50V,C0G,TP,1005	2	SNA
...4	AD480	2203-006890	C-CER,CHIP;10000nF,20%,6.3V,X5R,TP,1608	27	SNA

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Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4	AD480	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012,1	5	SNA
...4	AD480	2203-007269	C-CER,CHIP;22000nF,20%,10V,X5R,TP,2012,0	2	SNA
...4	AD480	2203-007513	C-CER,CHIP;10000nF,10%,10V,X5R,TP,1608,0	3	SA
...4	AD480	2203-007544	C-CER,CHIP;100nF,10%,50V,X7R,TP,1005	10	SA
...4		2409-001213	C-ORGANIC,SMD;150uF,20%,6.3V,-,TP,3.5x2.	2	SNA
...4		2703-000158	INDUCTOR-SMD;1uH,10%,2012,.4Ohm,50mA,45,	4	SA
...4		2703-000213	INDUCTOR-SMD;470nH,10%,1608,1.35Ohm,35mA	1	SA
...4		2703-001938	INDUCTOR-SMD;56nH,5%,1005,1.5Ohm,200mA,1	2	SA
...4		2703-003713	INDUCTOR-SMD;1.5uH,20%,7366,0.015ohm,700	2	SA
...4		2703-003790	INDUCTOR-SMD;4.7uH,20%,8080,0.025ohm,450	1	SA
...4		2703-003930	INDUCTOR-SMD;4.7uH,20%,5050,0.072Ohm,245	4	SA
...4		2703-004145	INDUCTOR-SMD;2.2uH,20%,6.5 x 6.9mm,0.20o	1	SNA
...4		2703-004462	INDUCTOR-SMD;3.3uH,20%,10x10x8mm,0.0082O	1	SA
...4		2801-003773	CRYSTAL-SMD;12MHz,30ppm,28-AAN,20pF,50oh	1	SA
...4		3301-000314	BEAD-SMD;120ohm,1608,TP,120ohm/100MHz	5	SNA
...4		3301-001364	BEAD-SMD;1000ohm,1608,150mA,TP,1085ohm/1	2	SNA
...4		3301-002039	BEAD-SMD;26ohm,1608,TP	36	SA
...4		3601-001374	FUSE-SURFACE MOUNT;32V,5A,FAST-ACTING,PL	2	SA
...4		3701-001856	CONNECTOR-HDMI;19P,FEMALE,AU,0.5mm,BLK,S	2	SA
...4		3707-001106	CONNECTOR-OPTICAL;STRAIGHT W/L,SPDIF	1	SA
...4		3708-001150	CONNECTOR-FPC/FFC/PIC;30P,1mm,SMD-A,SN,Z	1	SA
...4	EH01	3711-008131	HEADER-BOARD TO CABLE;BOX,4P,1R,2.5mm,AN	1	SA
...4	EH01	3711-008558	HEADER-BOARD TO CABLE;BOX,26P,2R,1.25mm,	1	SA
...4	EH01	3711-008634	HEADER-BOARD TO CABLE;BOX,10P,2R,2mm,ANG	1	SA
...4		3722-003229	JACK-MODULAR;8P/8C W/L,Y,STRAIGHT,N,Au,1	1	SA
...4		3722-003457	JACK-USB;4P/1C,NI,BLK,A	1	SA
...4	JACK PIN	3722-003546	JACK-PIN;5P+Screw hole,NI+SN,G,Y/BLU/RED	1	SA
...4		3722-003667	JACK-PHONE;1P/7C,SN/NI,BLK,STRAIGHT,3.6P	1	SA
...4	ET01	BN40-00285B	TUNER;GBTH-F16X2B/FN-FNS,GBTH-F16X2B/FN-	1	SA
...4		BN41-02252A	PCB MAIN;NT14M, US, MEGA,FR-4,4,A,1.2T,1	1	SNA
...4		BN68-04746A	LABEL-SMD;all model,POLY*,25.4mm x 9.53m	1	SNA
...4		BN97-08841A	ASSY MICOM-MAIN;T-NT14MUABC-XXXX,U8DB,KL	1	SNA
....5		1107-002287	IC-EMMC;KLM4G1FEAC-C031,4GByte,BGA,153P,	1	SA
....5	T0527	AA68-03540A	LABEL-MICOM;ART PAPER,7X6mm	1	SNA
...4		BN97-08843A	ASSY MICOM-SUB;SUBMICOM,U8DB,W25Q40CLSSI	1	SNA
....5		1107-002226	IC-NOR FLASH;W25Q40CLSSIP,4Mbit,SOIC,8P,	1	SNA
1		BN92-15371A	ASSY P/MATERIAL;UH4200,40'	1	SNA
.2		6902-001610	BAG ROLL;HDPE/PE FOAM,T0.5/T0.015,W900,L	2	SNA
.2		6922-000013	BAND PP;PP,W18,L2300/L2900,TRP	1	SNA
.2		BH69-00418A	BAG WRAPPING;LDPE,762,1828M,SAMEX FACTOR	1	SNA

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Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
.2		BN68-02422B	LABEL-WARNING SHIPPING;ALL MODEL,A/P 100	1	SNA
.2		BN69-00391E	PAD-ANGLE;DI19PS,PAPER,T5,50,1500,YEL	1	SNA
.2		BN69-09782A	CUSHION-FRONT;UH5000-40,EPS	1	SNA
.2		BN69-10318A	CUSHION-SET;MEGA 40",EPS,16.7g/l,A1	1	SNA
.2		BN74-00008D	TAPE OPP-MASKING;OPP,T0.05,W75,L800M,CLR	3	SNA
1	ACCE1	BN92-16031R	ASSY ACCESSORY;H4203	1	SNA
.2	ACCE4	BN96-31411A	ASSY ACCESSORY-MANUAL;UN40 / 48H4203AHXP	1	SNA
..3		6902-001964	BAG PE;LDPE,BIOBASED,T0.03,W200,L300,TRP	1	SNA
..3		AA68-03727A	LEAFLET-05,WARRANTY CARD;All,SAMSUNG,Spa	1	SNA
..3		BN68-04972A	MANUAL FLYER-06,REGULATORY GUI;ALL,SAMSU	1	SNA
..3		BN68-06488F	LEAFLET-01,QSG;UH4203,SAMSUNG,Brazil,ART	1	SNA
..3		BN68-06549A	MANUAL USERS-01;UH4203,SAMSUNG,ENG/SPA,S	1	SNA
.2	ACCE2	BN96-31412A	ASSY ACCESSORY-CABLE;UN40 / 48H4203AKXZL	1	SNA
..3	T0268	3903-000853	CBF-POWER CORD;DT,UL/CSA,LP-11L,125V,7A,	1	SA
..3		4301-000121	BATTERY-MN;1.5V,R03,10.5x44.5m,7.5g,AAA	2	SNA
..3		6902-001965	BAG PE;LDPE,BIOBASED,T0.05,W200,L300,TRP	1	SNA
..3	REMO2	BN59-01178K	REMOCON;TM1250A,49,3.0V,TM1250A_LATIN AM	1	SA
..3	HOLDER-WIRE	BN61-08370A	HOLDER-WIRE STAND;26UE4000 GUIDE STAND,N	1	SA
..3		BN68-05723A	LABEL-ACCESSORY;ALL MODELS,YUPO,0.2,20,7	1	SNA
1		BN92-16036K	ASSY BOX;UH4B	1	SNA
.2		BH68-00697A	LABEL BOX-00;ALL MODEL,MOJO 90G,60,100,W	1	SNA
.2		BN69-10558X	BOX-SET;40UH4203-SS,CB,A-01,SW3,YEL,W104	1	SNA
1		BN92-16057A	ASSY LABEL;H4K	1	SNA
.2		BN68-06357R	LABEL-ENERGY;UH4B,PA,PET,T0.1,60,125,Ene	1	SNA
.2		BN68-06573C	LABEL-LED -POP;H4203_H4303,PET,T0.1,105,	1	SNA
.2	T0527	BP68-00052B	LABEL-00,RATING;FPTV,PET,T0.05,93,73	1	SNA

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