



SAMSUNG

LED-TV

Chassis : U80A
Model : UN46ES8000F
UN55ES8000F
UN60ES8000F
UN65ES8000F

SERVICE MANUAL

LED TV



UNES8000F**

1. Precautions

1.1. Safety Precautions

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

1-1-1. Warnings



For continued safety, do not attempt to modify the circuit board.
Disconnect the AC power and DC power jack before servicing.

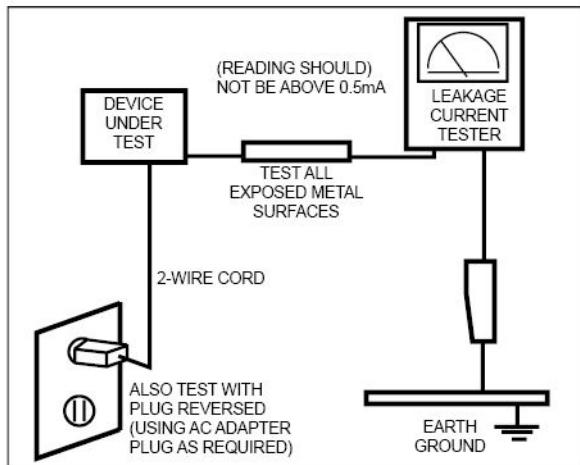
1-1-2. Servicing the LED TV

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

1-1-3. Fire and Shock Hazard

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

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



Do not use an isolation transformer during this test.

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

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

1-1-4. Product Safety Notices

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

1.2. Servicing Precautions



An electrolytic capacitor installed with the wrong polarity might explode.



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



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

1-2-1. General Servicing Precautions

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

1.3. Static Electricity Precautions

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.

CAUTION

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. Product Information

2-1-1. Model Comparison

Model	UN**ES8000F		
Front View	<p>Front View</p>		
Detail View	<p>Detail View</p>		
Front Color	T_Blue/CB		
Dimensions (W x H x D)	46"	Set with Stand	40.89 x 25.74 x 8.27 inches
		Set without Stand	40.89 x 24.2 x 1.12 inches
	55"	Set with Stand	48.44 x 30.03 x 8.27 inches
		Set without Stand	48.44 x 28.5 x 1.21 inches
	60"	Set with Stand	53.88 x 33.38 x 8.27 inches
		Set without Stand	53.88 x 31.84 x 1.24 inches
	65"	Set with Stand	58.29 x 36.04 x 11.46 inches
		Set without Stand	58.29 x 34.54 x 1.3 inches
Weight	46"	Set with Stand	32.18 lbs (14.6 kg)
		Set without Stand	24.41 lbs (11.0 kg)
	55"	Set with Stand	63.60 lbs (28.8 kg)
		Set without Stand	42.53 lbs (19.3 kg)
	60"	Set with Stand	51.81 lbs (23.5 kg)
		Set without Stand	45.41 lbs (20.6 kg)
	65"	Set with Stand	63.60 lbs (23.5 kg)
		Set without Stand	55.34 lbs (20.6 kg)
Panel Type	Super Clear		
Internal Memory	2 G		
DDR	1024 Mbyte		
Feature	Media Play(USB/DLNA)		

2-1-2. Feature & Specifications

Model	UN46ES8000F			
Feature				
<ul style="list-style-type: none"> Digital-TV, RF, 3-HDMI(Port 1 - DVI / Port 3 - MHL), 1-Component, 1-A/V, 3-USB2.0(Media Play), LAN CMR Clear Motion Rate : 960 PIP(in 3-HDMI, 1-Component, PC Mode and Sub picture is available only in TV mode(DTV/ATV)) Dolby Digital+, SRS theater HD 				
Specifications				
Item	Description			
LCD Panel	46 inch FHD 240 Hz			
Scanning Frequency	Horizontal : 67.5 KHz (TYP) Vertical : 60 Hz (TYP)			
Display Colors	Wide Color Enhancer Plus			
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	160 MHz			
Active Display (H x V)* * Horizontal x Vertical	40.08189 x 2.546063 inches (1018.08 (H) x 572.67 (V) mm)			
AC Power Voltage & Frequency	AC 110V ~ 120 V, 60 Hz			
Power Consumption	150 W (Under 0.1 W, Stand by)			
Dimensions Set (W x H x D)* * Width x High x Depth	Set with Stand	40.89 x 25.74 x 8.27 inches		
	Set without Stand	40.89 x 24.2 x 1.12 inches		
Weight	Set with Stand	32.18 lbs (14.6 kg)		
	Set without Stand	24.41 lbs (11.0 kg)		
TV System	Tunning	Frequency Synthesize (Refer to detailed Frequency Table)		
	System	ATSC & Clear QAM		
	Sound	NTSC-M, Dolby Digital +		
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10% ~ 80%, non-condensing Storage Temperature : -13°F ~ 113°F (-25°C ~ 45°C) Storage Humidity : 5% ~ 95%, non-condensing			
Audio 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 AU/Componet/HDMI : 20 Hz ~ 20 kHz 			
Note : 3D, MoIP, Media Bridge, Allshare, Internet TV, Built-in Wi-Fi, Full Browser, Bluetooth				

Model	UN55ES8000F			
Feature				
<ul style="list-style-type: none"> Digital-TV, RF, 3-HDMI(Port 1 - DVI / Port 3 - MHL), 1-Component, 1-A/V, 3-USB2.0(Media Play), LAN CMR <small>Clear Motion Rate</small> : 960 PIP(in 3-HDMI, 1-Component, PC Mode and Sub picture is available only in TV mode(DTV/ATV)) Dolby Digital+, SRS theater HD 				
Specifications				
Item	Description			
LCD Panel	55 inch FHD 240 Hz			
Scanning Frequency	Horizontal : 67.5 KHz (TYP) Vertical : 60 Hz (TYP)			
Display Colors	Wide Color Enhancer Plus			
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	160 MHz			
Active Display (H x V)* <small>* Horizontal x Vertical</small>	47.622047 x 26.787402 inches (1209.6 (H) x 680.4(V) mm)			
AC Power Voltage & Frequency	AC 110V ~ 120 V, 60 Hz			
Power Consumption	170 W (Under 0.1 W, Stand by)			
Dimensions Set (W x H x D)* <small>* Width x High x Depth</small>	Set with Stand	48.44 x 30.03 x 8.27 inches		
	Set without Stand	48.44 x 28.5 x 1.21 inches		
Weight	Set with Stand	63.60 lbs (28.8 kg)		
	Set without Stand	42.53 lbs (19.3 kg)		
TV System	Tunning	Frequency Synthesize (Refer to detailed Frequency Table)		
	System	ATSC & Clear QAM		
	Sound	NTSC-M, Dolby Digital +		
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10% ~ 80%, non-condensing Storage Temperature : -13°F ~ 113°F (-25°C ~ 45°C) Storage Humidity : 5% ~ 95%, non-condensing			
Audio 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 : 3D, MolP, Media Bridge, Allshare, Internet TV, Built-in Wi-Fi, Full Browser, Bluetooth				

2. Product Specifications

Model	UN60ES8000F			
Feature				
<ul style="list-style-type: none"> Digital-TV, RF, 3-HDMI(Port 1 - DVI / Port 3 - MHL), 1-Component, 1-A/V, 3-USB2.0(Media Play), LAN CMR Clear Motion Rate : 960 PIP(in 3-HDMI, 1-Component, PC Mode and Sub picture is available only in TV mode(DTV/ATV)) Dolby Digital+, SRS theater HD 				
Specifications				
Item	Description			
LCD Panel	60 inch FHD 240 Hz			
Scanning Frequency	Horizontal : 67.5 KHz (TYP) Vertical : 60 Hz (TYP)			
Display Colors	Wide Color Enhancer Plus			
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	160 MHz			
Active Display (H x V)* * Horizontal x Vertical	48.527559 x 27.253937 inches (2307.5 (H) x 692.25(V) mm)			
AC Power Voltage & Frequency	AC 110V ~ 120 V, 60 Hz			
Power Consumption	TBD W (Under 0.1 W, Stand by)			
Dimensions Set (W x H x D)* * Width x High x Depth	Set with Stand	53.88 x 33.38 x 8.27 inches		
	Set without Stand	53.88 x 31.84 x 1.24 inches		
Weight	Set with Stand	51.81 lbs (23.5 kg)		
	Set without Stand	45.41 lbs (20.6 kg)		
TV System	Tunning	Frequency Synthesize (Refer to detailed Frequency Table)		
	System	ATSC & Clear QAM		
	Sound	NTSC-M, Dolby Digital +		
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10% ~ 80%, non-condensing Storage Temperature : -13°F ~ 113°F (-25°C ~ 45°C) Storage Humidity : 5% ~ 95%, non-condensing			
Audio 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 AU/Componet/HDMI : 20 Hz ~ 20 kHz 			
Note : 3D, MoIP, Media Bridge, Allshare, Internet TV, Built-in Wi-Fi, Full Browser, Bluetooth				

Model	UN65ES8000F			
Feature				
<ul style="list-style-type: none"> Digital-TV, RF, 3-HDMI(Port 1 - DVI / Port 3 - MHL), 1-Component, 1-A/V, 3-USB2.0(Media Play), LAN CMR <small>Clear Motion Rate</small> : 960 PIP(in 3-HDMI, 1-Component, PC Mode and Sub picture is available only in TV mode(DTV/ATV)) Dolby Digital+, SRS theater HD 				
Specifications				
Item	Description			
LCD Panel	65 inch FHD 240 Hz			
Scanning Frequency	Horizontal : 67.5 KHz (TYP) Vertical : 60 Hz (TYP)			
Display Colors	Wide Color Enhancer Plus			
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	160 MHz			
Active Display (H x V)* <small>* Horizontal x Vertical</small>	56.34 x 31.63 inches (1428.48 (H) x 803.52 (V) mm)			
AC Power Voltage & Frequency	AC 110V ~ 120 V, 60 Hz			
Power Consumption	TBD W (Under 0.1 W, Stand by)			
Dimensions Set (W x H x D)* <small>* Width x High x Depth</small>	Set with Stand	58.29 x 36.04 x 11.46 inches		
	Set without Stand	58.29 x 34.54 x 1.3 inches		
Weight	Set with Stand	63.60 lbs		
	Set without Stand	55.34 lbs		
TV System	Tunning	Frequency Synthesize (Refer to detailed Frequency Table)		
	System	ATSC & Clear QAM		
	Sound	NTSC-M, Dolby Digital +		
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10% ~ 80%, non-condensing Storage Temperature : -13°F ~ 113°F (-25°C ~ 45°C) Storage Humidity : 5% ~ 95%, non-condensing			
Audio 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 : 3D, MoIP, Media Bridge, Allshare, Internet TV, Built-in Wi-Fi, Full Browser, Bluetooth				

2-1-3. Specification Comparison to Old Models

Model	UE8Y(UN**ES8000F)		UD8Y(UN**D8000YF)	
Design				
Display Type	LED TV		LED TV	
Built-in Tuner	O		O	
Resolution	1920 x 1080		1920 x 1080	
LCD Panel	TFT LCD Panel 240 Hz		TFT LCD Panel 240 Hz	
Screen Size	46"/55"/60"/65"		46"/55"/60"	
Picture ratio	16 : 9		16 : 9	
Dimensions (W x H x D)	46"	40.89 x 25.74 x 8.27 inches_with Stand 40.89 x 24.2 x 1.12 inches_without Stand	46"	40.99 x 10.18 x 27.6 inches_with Stand 40.99 x 23.60 x 1.17 inches_without Stand
	55"	48.44 x 30.03 x 8.27 inches_with Stand 48.44 x 28.5 x 1.21 inches_without Stand	55"	48.53 x 30.99 x 12.18 inches_with Stand 48.53 x 27.84 x 1.17 inches_without Stand
	60"	53.88 x 33.38 x 8.27 inches_with Stand 53.88 x 31.84 x 1.24 inches_without Stand	60"	53.42 x 34.14 x 13.83 inches_with Stand 53.42 x 30.67 x 1.19 inches_without Stand
	65"	58.29 x 36.04 x 11.46 inches_with Stand 58.29 x 34.54 x 1.3 inches_without Stand		
Weight	46"	32.18 lbs (14.6 kg)_with Stand 24.41 lbs (11.0 kg)_without Stand	46"	31.53 lbs (14.3 kg)_with Stand 27.34 lbs (12.4 kg)_without Stand
	55"	63.60 lbs (28.8 kg)_with Stand 42.53 lbs (19.3 kg)_without Stand	55"	41.00 lbs (18.6kg)_with Stand 35.71 lbs (16.2 kg)_without Stand
	60"	51.81 lbs (23.5 kg)_with Stand 45.41 lbs (20.6 kg)_without Stand	60"	54.63 lbs (24.7 kg)_with Stand 47.53 lbs (21.5 kg)_without Stand
	65"	63.60 lbs_with Stand 55.34 lbs_without Stand		
Contrast Ratio	MEGA CR		MEGA CR	
Equalizer	5 Band		5 Band	
Auto Volume Control	O		O	
Surround Sound	Dolby Digital Plus / Dolby Pulse, DNSe		ThearterSurround HD	
Speaker Output	10 W + 10 W		46"	10 W + 10 W
			55"	10 W + 10 W
			60"	15 W + 15 W
PIP	O		O	
Double Window	X		X	
Caption	O		O	

Model	UE8Y(UN**ES8000F)	UD8Y(UN**D8000YF)
Entertainment Mode	X	X
Game Mode	O	O
Energy Saving	O	O
Anynet+	O	O
Antenna	1(Cable/Air/Satellite)	1(Cable/Air)

2.2. 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".

Model Name		UN46ES8000F	UN55ES8000F	UN60ES8000F	UN65ES8000F
PANEL	Vendor	AML	AML	SHARP	AUO
	Code	BN95-00619A	BN95-00618A	BN95-00633	BN95-00636A
	Spec.	LTJ460HQ10-V	LTJ550HQ16V	LSJ600HQ01	LE650DSA-V1
SMPS	Vendor	SEMCO	SEMCO	SEMCO	HANSOL
	Code	BN44-00522A	BN44-00523A	BN44-00526A	BN44-00539A
	Spec.	PD46B2Q_CSM	PD55B2Q_CSM	PD60B2Q_CSM	PD65B2Q_CHS
MAIN	Chassis Ass'y	BN91-06308A	BN91-06308B	BN91-06308C	BN91-08860E
	PBA Ass'y	BN94-04251A	BN94-04251B	BN94-04971B	BN94-05578J
Byte	Item				
0	Factory Reset	-	-	-	-
1	Type	46A2UF0E	55A2UF0E	60A2UF0E	65A2UF0E
2	Local Set	US	US	US	US
3	Basic Model	UES8000	UES8000	UES8000	UES8000
4	SVC Model	8000	8000	8000	8000
5	TUNER	ECHO_CV	ECHO_CV	ECHO_CV	ECHO_CV
6	Ch Table	NONE	NONE	NONE	NONE
7	Front Color	U-T-BK-M	U-T-BK-M	U-T-BK-M	U-T-BK-M

2.3. Accessories

Description	Code. No	Remark
Smart Touch Control & Batteries (AA x 2)	AA59-00626A	
Remote Control & Batteries (AAA x 2)	AA59-00637A	
IR Blaster & Batteries (AA x 4)	BN96-22897A	
Cleaning Cloth	BN63-01798B	
Warranty Card / Safety Guide	-	
3D Active Glasses	BN96-22253A	Samsung Electronics Service center
User Manual	BN68-04032A	
Power Cord	3903-000598	
AV Adapter	BN39-01154H	
Holder-Wire stand	BN61-05491A	
Holder-Ring x 4	BN96-18153A	

2.4. Viewing the Function

2-4-1. SMART HUB

■ Family Story

Concept

Effortless way to access family content.

- To provide an access to family photos, messages and events at anytime and anywhere
- You can share from TV, mobile, tablet or PC with your family
- Store over 1,000 HD-level pictures free of charge
- Real-time chatting with family members while watching photos



Functions

1. Sharing your family's precious moments

- Family story allows consumers to stay connected with their families



2. Enjoy family's moments in everywhere

- Enjoy the service on various Samsung devices like TV, mobile, tablet, PC.
- Also you can upload contents to the free web storage which is big enough to store over 1,000 HD-level pictures.



3. Album, Messages & Events

- You can also upload photos, post messages and share important family events so everyone is kept up to date.



4. Watch Together

- Invite your family member if you want to show or share any family photos.
- Enjoy Live chat with family members while watching family photos.



5. Share contents that could interest other family members

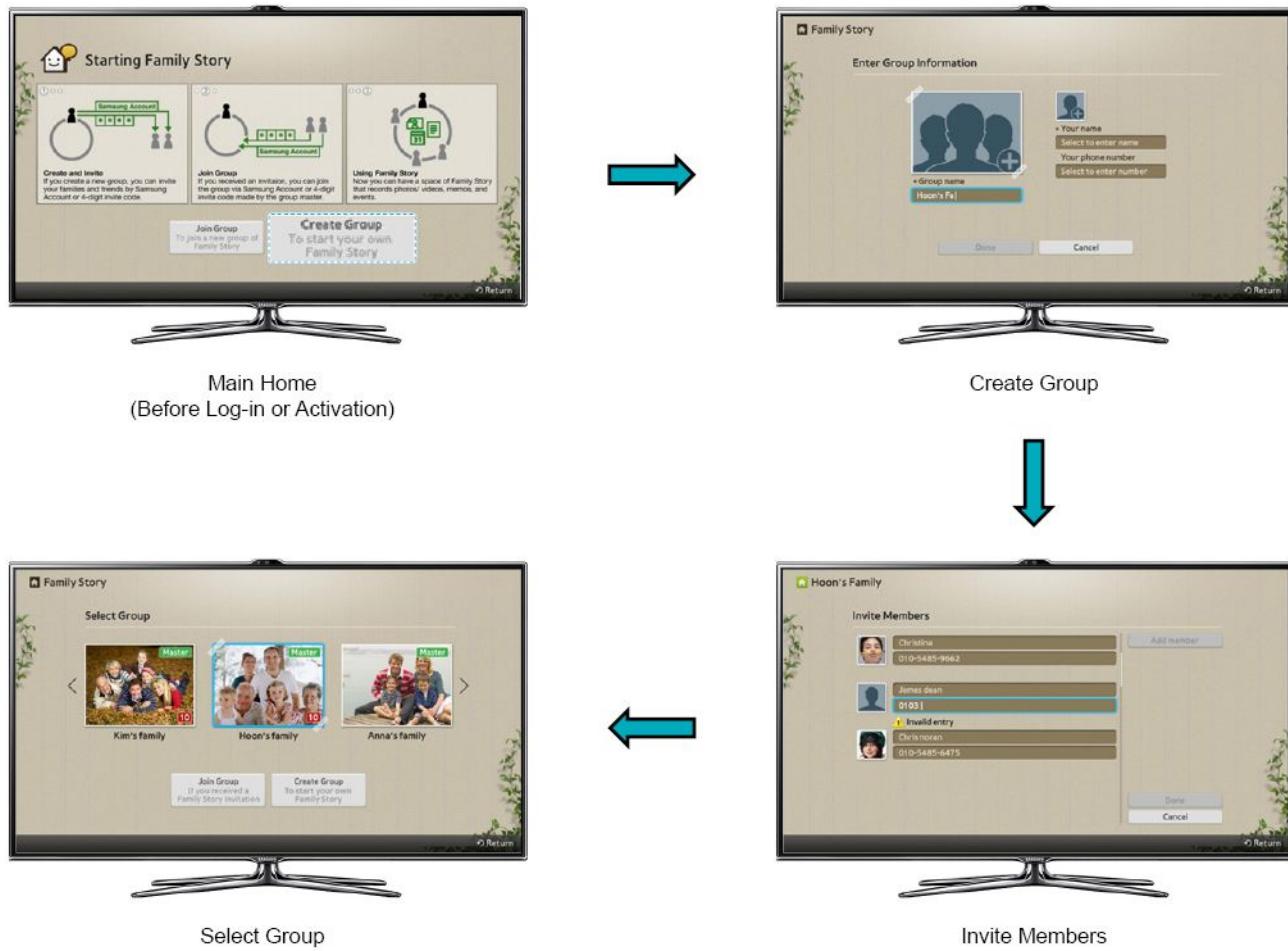
- You can share your Vides movies, Apps, Url etc.

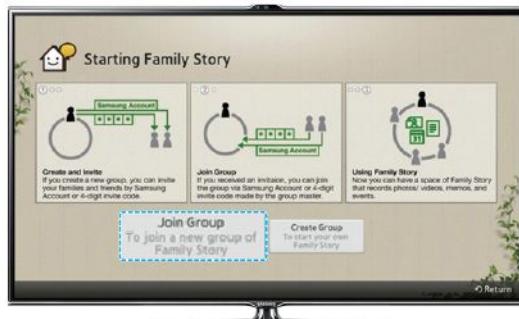


2. Product Specifications

User Scenario

Create Group



Join GroupMain Home
(Before Log-in or Activation)

Create Group



Join Group



Invite Code

Create Contents

Mobile

Use 'Create' menu in Family Story app



[tab]

Use 'Share' menu in Gallery



[[phone]]

TV

Use 'Create' menu in Family Story app



[tab]

You can browse and select USB storage



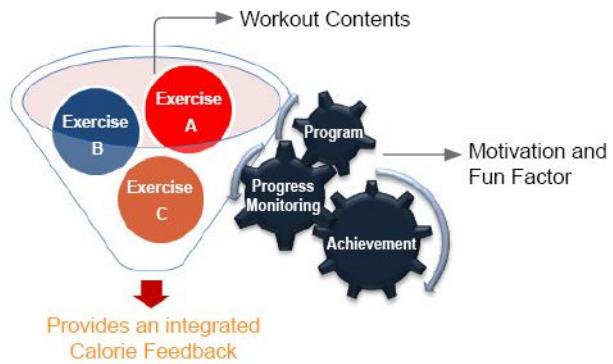
[[phone]]

■ Fitness

Service Structure

- Calorie Feedback → Unified Integration on 'Fitness Hub'
 - Home Exercise : Exer-VOD, Exer-Guide
 - Outdoor Exercise : Mobile Exer-App
- Achievement based upon mission → Maximization of exercise efficiency by motivation

Fitness



Calorie

Home Exercise
"Fitness & Fun in Your Living Room"

Exercise A

Exer-VOD

- Exercise VOD/Virtual Mirror

Exercise B

Exer-Guide

- Exercise Guide

Calorie

Outdoor Exercise
"Add Value to Your Outdoor Fitness & Calorie Consumption Management"

Exercise C

Mobile Exer-App

- Sync with Exercise App

Service Overview

Unified fitness care service with a variety of exercise apps

- Provides fitness contents from various providers with feedback on calorie burn
- Motivates users through goal setting and exercise tracking menu
- Allows synchronization with fitness accessories and mobile apps



Service Details

Exercise

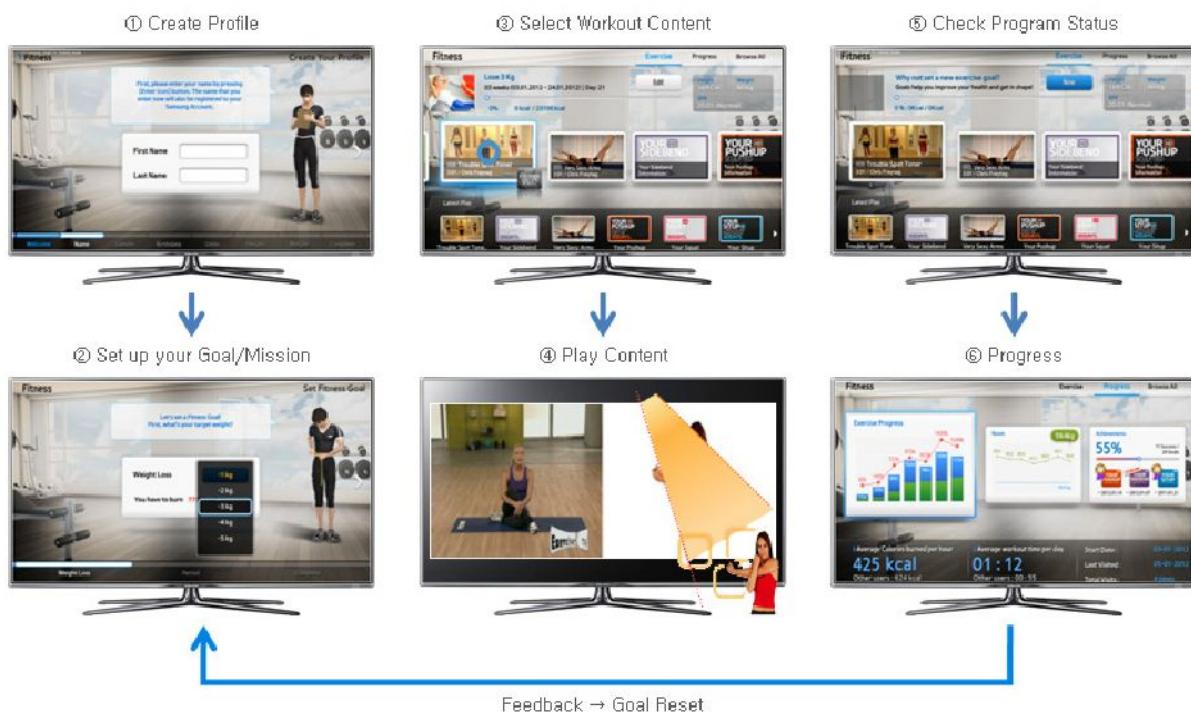
This screen appears when entering 'Fitness' or selecting the Exercise tab of the 3 categories in main screen of 'Fitness'.

- Exercise Tab



No	Name	Description
1	Goal & Status	Goal image, Goal name, How much weight users want to lose, Status
2	Recommended Contents	The latest played content, and the latest updated contents in the same categories of the latest played content
3	Content Image	Representative screen shot image
4	Content Info	Title, Type, Calories, Time
5	App Icon	Icon of the application including the content
6	Latest Play	6 Latest Play would be exposed

VOD Scenario



2. Product Specifications

Progress

This screen appears when selecting History tab of the 3 categories in main screen of 'Fitness'.

- Progress Tab



No	Name	Description
1	Preview Area	Provide preview panels of various history information of History category. <ul style="list-style-type: none">• Body Profile, Exercise History, Achievements• It is possible to add new history panel if new service added.
2	Latest play apps/contents list	6 apps/contents information that the user played recently.

- Body Profile : Weight graph, BMI graph
- Exercise History : The graph on User's burned calories, Exercise hour according to user's recent 7 days data.
- Achievements : Success rate of achieving goals, Recent 3 goals information.

■ Kids

What is this Service for?

Kids' service brings kids and parents an easy and safe way to enjoy their favorite contents via 4 major features.

- Provides a wide variety of fun and safe content for children
- Lets parents create custom playlists for their children easily
- Allows parents to check their kids' viewing history and manage their watching time
- 4 Major Features of the Service, "Kids"



How to Use "Playground"

Kids can meet the content they must like when they just come in.



2. Product Specifications

How to Use “Browse All” and “Parents”

Gather my favorites to My Choice and enjoy it anytime.

1. Browse All - Browse all content and add favorites to My Choice



[1] "Browse by Characters"



[2] "Select a Favorite Episodes"



[3] "Add It to My Choice"

2. Parents - 'My Choice' at Parents menu



[4] "Add to My Choice"



[5] "Play it anytime you want"

How to Use “Sticker book”

- Give Stickers as a reward and children loves to collect it

[1]



"Select and Watch a content with a sticker banner on it"

[2]



"Select a sticker book"

[3]



"A sticker will be added to your sticker book"

[4]

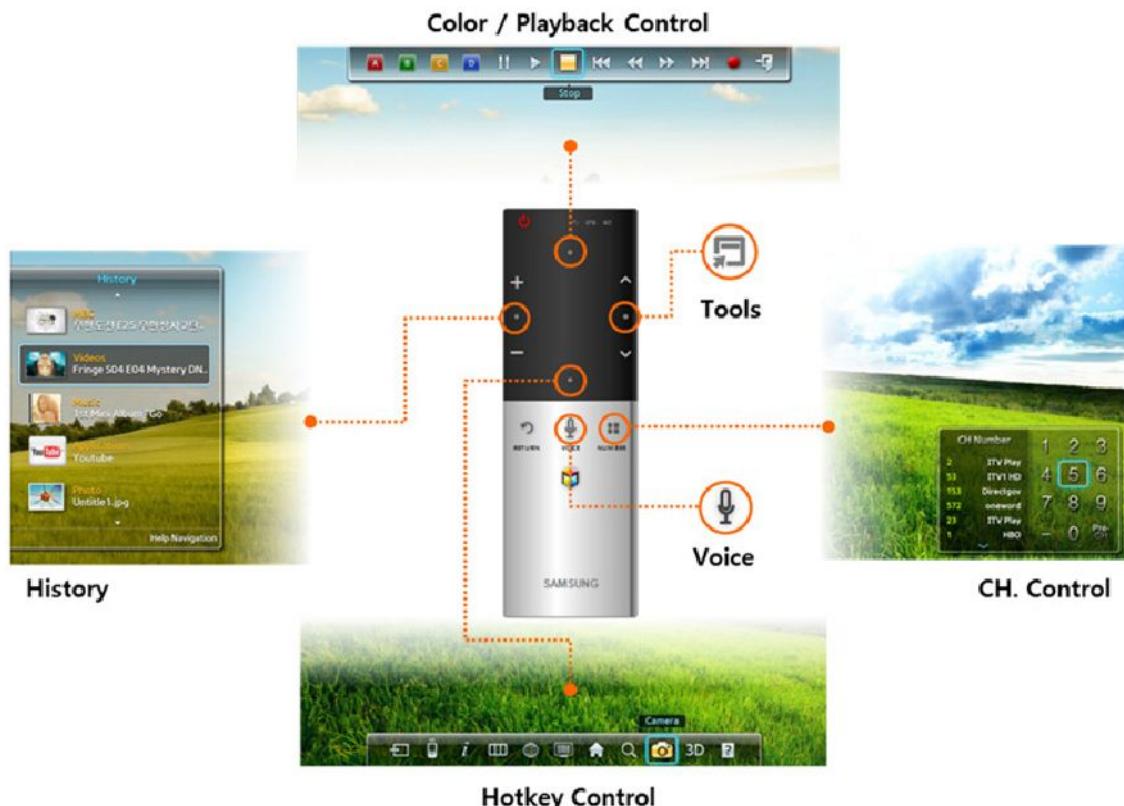


"Congratulations!
You've filled your sticker book!"

2-4-2. Hi TV Control

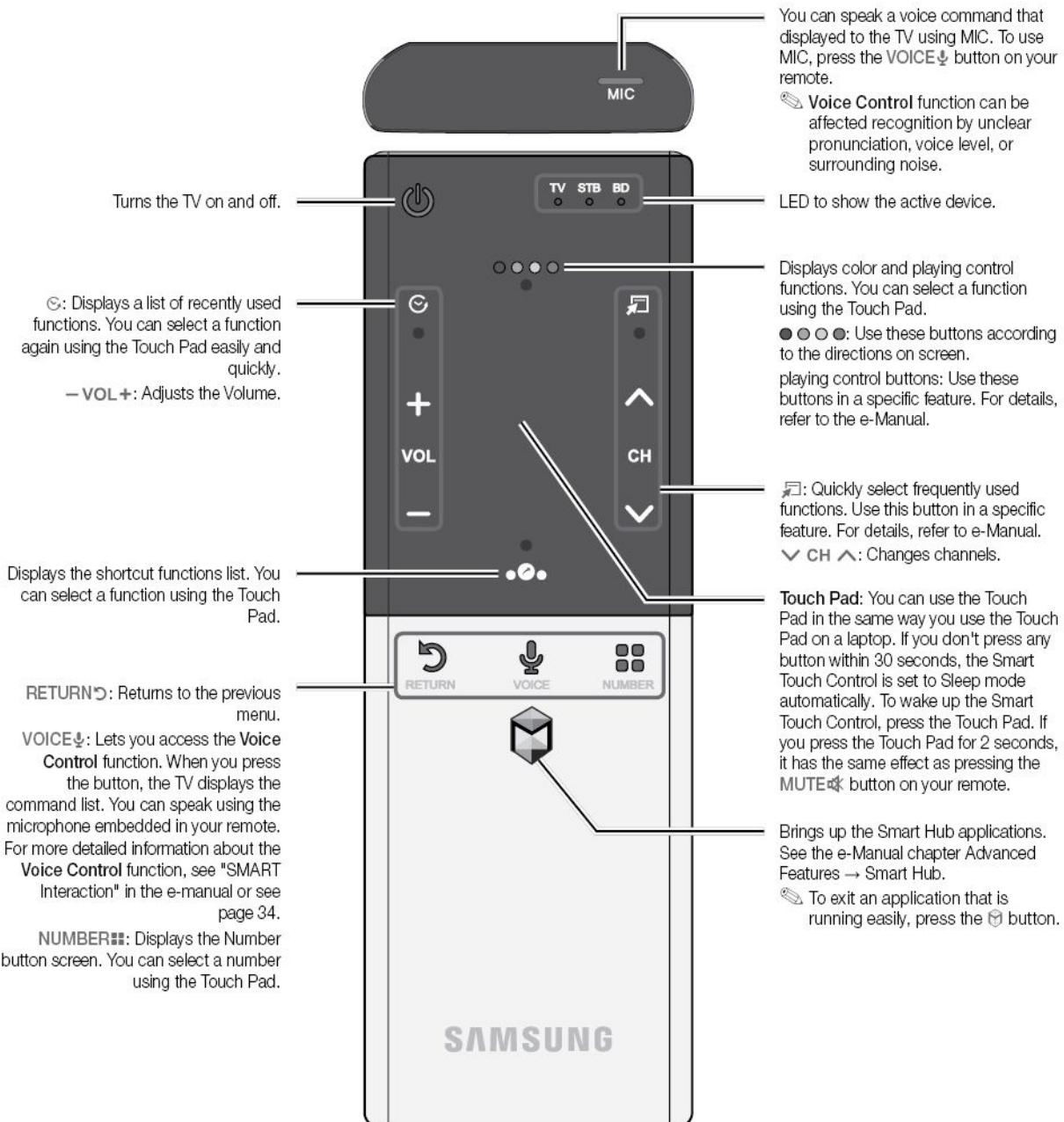
■ Smart Touch Control

Viewing the Control



Viewing the Smart Touch Control

For more detailed information about Smart Touch Control, see "Using the Smart Touch Control" in e-Manual.



■ Gesture Control

Volume / Channel Control



Shake your hand in front of TV.



Indicate a menu about CH/VOL in screen.



If your hand let down on the screen,
the manu will be a close.



Grabbing hand is a Click.

- If you maintain hand grabbed,
TV execute channel up
consecutively.



Move a cursor by using hand gesture,
move a cursor to channel up area.

■ Voice Control

Volume / Channel Control



Show a Voice cognition Menu by command "Hi TV".



Control CH by command "Channel UP/DOWN".



Control Volume by command "Volume UP/DOWN".

3. Disassembly and Reassembly

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



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

3.1. Disassembly and Reassembly

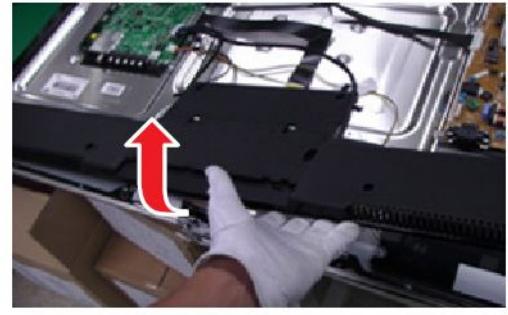
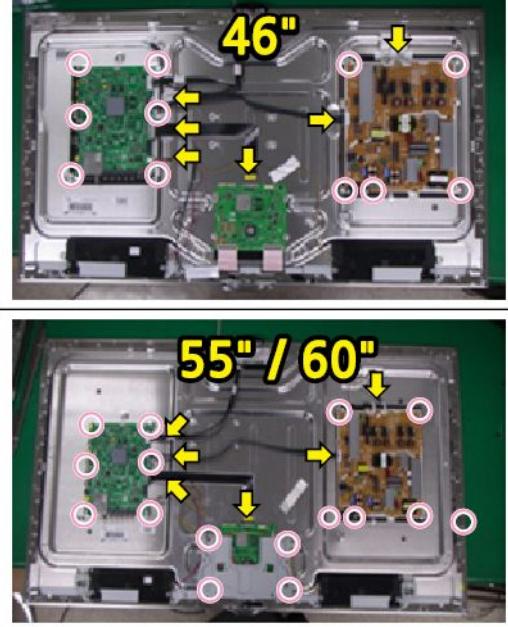


1. Disconnect the LED TV from the power source before disassembly.
2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.
3. If there is no additional comment, it is same for all inches.

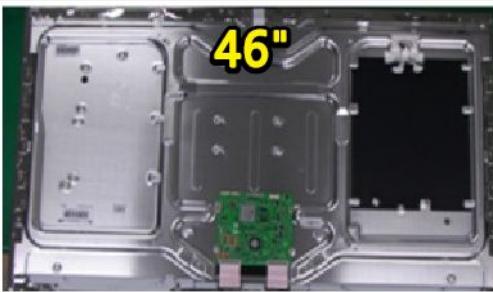
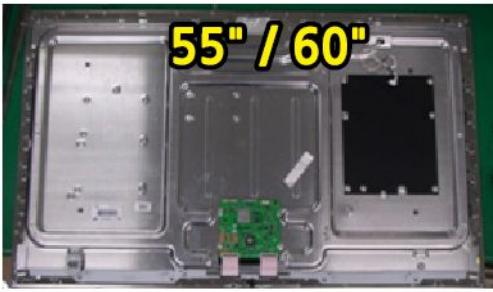
Description	Picture Description	Screws
1 Place TV face down on cushioned table.		
2 Remove 6 screws from the Stand.		 6003-001783 (M4xL12, Tapping)
3 Remove Stand.		

3. Disassembly and Reassembly

Description	Picture Description	Screws
4 Remove the screws of Rear-Cover.		 6001-002755 (M3xL6, Tapping)
5 Lift up and remove the Rear-Cover. CAUTION Be careful when you lift up the Rear-Cover, it's really sharp (○).		
6 Remove the screws of Middle-Cover.		 6001-002755 (M3xL6, Tapping)
7 Remove the Function cable and MoIP. NOTE • Function cable • MoIP • Rear view of 46".	 	

Description	Picture Description	Screws
<ul style="list-style-type: none"> Rear view of 55"/60". 		
8 Remove the Middle - Cover.		
9 Remove the Speakers(R/L). <p> NOTE 55" / 60" : Remove the Bracket-Stand.</p> 		
10 Remove the screws of Main Board and SMPS Board. <p> NOTE Disconnect all cable connectors before removing any Board. ( Position indicator cable)</p> <p>Remove the screws of Main Board, SMPS Board, T-CON.</p>		

3. Disassembly and Reassembly

Description	Picture Description	Screws
11 Rear view.		
		



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

4. Troubleshooting

4.1. Troubleshooting

4-1-1. Camera Module (MOIP Module)

Can not use voice control or too low the volume in skype

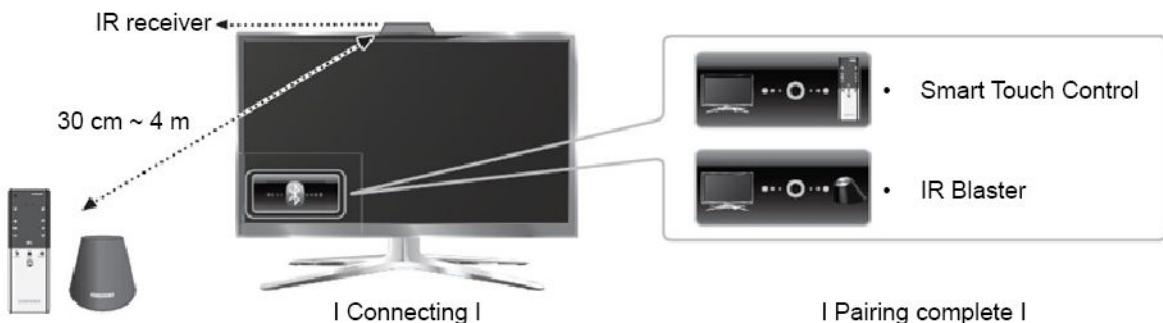
1. Mute + 5 + 6 + 9 + Exit
 - It is Camera inspection mode.
2. Check the sound.
 - In case of no sound : It is a MOIP module problem.
Please reconnect the module or change the module.
 - The sound is ok : MOIP module is ok.
Please check FW and noise of surroundings.

Cannot use gesture or no image when you use a skype

1. Mute + 5 + 6 + 9 + Exit
2. Check the image of camera.
 - The image of camera is ok : Please check the angle of camera.
 - In case of no image : Please check FPCB cable of MOIP Module or change the MOIP Module.

4-1-2. Using the Smart Touch Control with an IR Blaster

When you connect an IR Blaster with your TV, you can control connected external devices with your TV using the Smart Touch Control.



Initial Pairing for Smart Touch Control

After you have run the Initial Setup on your TV, you should connect your Smart Touch Control to your TV.

1. Turn the TV off, and then press the P button on the Smart Touch Control.
2. The TV will turn on and the connection icon appears on the bottom left of the screen. The TV will connect to your Smart Touch Control automatically. It can take a minute or two.



If you want to perform the pairing process again, press the reset button in the center of the back cover using a pin or the tip of an unbent paper clip. The Smart Touch Control will be initialized.



IR Blaster Pairing

1. Turn on the IR Blaster.
2. Move the IR Blaster to the direction of your TV's IR receiver, and then press the PAIRING button on the bottom of the IR Blaster.
3. The TV will connect your IR Blaster and Smart Touch Control automatically.



If the connection process failed, try again from Step 2.

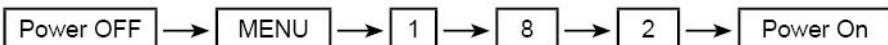


4.2. Factory Mode Adjustments

4-2-1. Entering Factory Mode

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

- If you do not have Factory remote control



- If you have Factory remote control



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

Option	T-ECPAUC-xxxx
Control	T-ECOAUSS3-xxxx
SVC	E-Manual : EPATSCE-xxxx
Expert	Camera Version : x.xx
ADC/WB	Mic Version : x.xx
Advanced	EDID SUCCESS
	CALIB : AV / COMP / PC / HDMI /
	Option : xxxx xxxx xxx
	FactoryCS :xxxxxxxxxx
	 DTP-SDAL-ECHOP-xxxx
	RFS : "Echo.P 00xx" / 201x-xx-xx
	Backend IC[1], Data Ver : xxxx
	Backend FW : CORE[xxxx], LUT[xxxx]
	 Bluetooth:x.x.xx.xxx
	Type :xxxxxxxx
	Model : UNxxES7500
	Wired MAC----
	Wireless MAC----
	 DRM : Cert P Netflix X Widevine X
	Factory Data Ver : xx
	EERC Version : 20
	DTP-AP-COMP-xxx
	DTP-BP-HAL-xxxx
	DTP-BP-xxxx
	POP-FLA-12-xxxx
	Date of purchase : mm/dd/yyyy

- How to enter the hidden factory mode.

- Into the factory mode.
- Move the tap to Advanced.
- Key input : 0 + 0 + 0 + 0.



hidden menu : Advanced

4-2-2. Factory Data

■ Option

Factory Menu Name	Data	Range
Factory Reset	-	
Type	46A2UF0E/55A2UF0E/60A2UF0E	
Local set	US	
Basic Model	UES8000	
SVC Model	8000	
TUNER	ECHO-CV	
Ch table	NONE	
Front Color	U-MOIP	

■ Control

Factory Menu Name	Data	Range
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	600ms	
RS-232 Jack	Debug	
Watchdog	OFF	
WD COUNT	0	
AR COUNT	0	
LVDS FORMAT	VESA	
Language_Arabic	US	
Auto Power	LAST POWER	
TOOLS Support	95	
LNA Support	OFF	
NETWORK Support	Int-Wifi	
IPERF	Stopped	
Info Link Country	None	
Info Link Server Type	development	

Factory Menu Name	Data	Range
TTX List	Flof	
TTX Group	UserOSD	
ND ADJ Support	ON	
24Px4 Support	OFF	
Power Indicator Support	ON	
BD Wise Support	ON	
RF Remocon Support	OFF	
Data Service Support	OFF	
PVR Support	OFF	
3D Support	EchoFp	
WSS Support	...	
ColorSpace Support	RGB Type	
OTA Support	OFF	
OTA Duration Test	OFF	
Alternate Del	OFF	
SWU		
OTA Support	OFF	
OTN Server Type	operating	
OTN Test Server	OFF	
OTN Support	ON	
SWU Reset	-	
SWU Duration	OFF	
SWU Fail Test	0	
Cable Modulation	QAM	
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	ON	
HD SSC Value	1	
LVDS SSC ON/OFF	ON	
LVDS SSC Value	0	
DDR SSC ON/Off	ON	

Factory Menu Name	Data	Range
DDR SSC Value	1	
Napoli DDR SSC ON/OFF	OFF	
Napoli DDR SSC MFR	0	
Napoli DDC SSC MRR	26	
EchoFP LVDS SSC On/Off	ON	
EchoFP LVDS SSC MFR	3	
EchoFP LVDS SSC MRR	2	
EchoFP DDR SSC On/Off	ON	
EchoFP DDR SSC MFR	3	
EchoFP DDR SSC MRR	4	
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	15	
MPEGMargin	20	
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	

Factory Menu Name	Data	Range
Cr2 TH	54	
Cr3 TH	66	
Cr4 TH	189	
Cr5 TH	201	
Cr6 TH	116	
Cr7 TH	128	
S.DEV0	100	
S.DEV1	80	
EEPROM RESET		
EER RESET		
NVR All Clear	OFF	
FANET ON/OFF	OFF	
Fast USB Booting ON/OFF	OFF	
Panel Key		
Type If PANEL KEY	Horizontal	
Num of PANEL KEY	...	
PK LOCATION	R_BACK	
WIFI Region	S	
CAM Wait Time	1500	
POP Default	ON	
ENERGY STAR	ON	
All Share Support	ON	
CI+1.3	OFF	
Light Effect	ON	
DPMS Support	OFF	
Checksum	0x0000	
POP Option		
Hospitality Option		
HOSPITALITY MODE	Off	
POWER ON SOURCE	...	
POWER ON CHANNEL EN	...	
POWER ON CHANNEL	...	
CHANNEL TYPE	...	
POWER ON VOLUME EN	...	
POWER ON VOLUME	...	
MIN VOLUME	...	
MAX VOLUME	...	

Factory Menu Name	Data	Range
Menu Display	...	
Picture Menu Lock	...	
PANEL BUTTON LOCK	...	
Energy Saving	...	
Power on Option	...	
Auto Source	...	
Music Mode AV	...	
Msic Mode PC	...	
Music Mode Comp	...	
Music Mode Backlight	...	
Clone TV to USB	...	
Clone USB to TV	...	
Setting Auto Initialize	...	
Shop Option		
Shop Mode	OFF	
Exhibition Mode	OFF	
3D_Emiton	ON	
3D_EmitShowMode	OFF	
3D_GLASS PULSE_S	5	
3D_GLASS PULSE_H	3	
3D CUBE	OFF	
Asia Option		
	OFF	
TTX	OFF	
China HD	OFF	
NT Conversion	OFF	
Mono Last Memory	OFF	
Unbalance	7	
IF AGC	0	
D AGC	3	
PHBW	3	
FQ BW	4	
PH RATE	1	
SOUND		
High Devi	OFF	
Carrier Mute	ON	
Pilot Level High Thld	0x30h	

Factory Menu Name	Data	Range
Pilot Level Low Thld	0x10h	
Amp Volume	0xCBh	
Amp Scale	0x35h	
AMP Speaker EQ	ON	
AMP EQ CheckSum	0x0181D0	
AMP PEQ Test	Ready	
SPDIF PCM Level	-9	
PEQ Inx	5	
WF EQ CheckSum		
WF Type	0	
Tuner Status		
2173_tcint		
2173_rssilint		
2173_rssihint		
2173_tc		
2173_rssil		
2173_rssih		
2173_freq		
2173_mode		
Frequency		
Bandwidth		
Demod_lock		
FEC_Lock		
SNR		
BER		
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	

4. Troubleshooting

Factory Menu Name	Data	Range
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	
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	
BackendDevice	NAPOLI	
ENCORDER	NXC1000	

Factory Menu Name	Data	Range
SCC		
SCC Mode	Dynamic	
SCC ON/OFF	Off	
SCC Input Data		
Hx	272	
Hy	;278	
Lx	272	
Ly	278	
sSCC Const		
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
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	

Factory Menu Name	Data	Range
Panel Auto Setting		
PANEL DISPLAY TIME	3Hr	
T-CON USB Download		
T-CON CheckSum		
CPLD USB Download		
REMOCON PAIRING		
TC905x7		
TC90507		
FFT Size_0	0	
Guard Interval_0	0	
Freq. Offset_0	0	
SNR_0	0	
IF AGC_0	0	
TMCC Lock_0	0	
TS Packet_0	0	
Master Lock_0	0	
A_Modulation_0	0	
A_Code Rate_0	0	
A_Timer InterLeave_0	0	
A_Segments Num_0	0	
A_BER_0	0	
B_Modulation_0	0	
B_Code Rate_0	0	
B_Timer InterLeave_0	0	
B_Segments Num_0	0	
B_BER_0	0	
C_Modulation_0	0	
C_Code Rate_0	0	
C_Timer InterLeave_0	0	
C_Segments Num_0	0	
C_BER_0	0	
MICOM UPGRADE		
Temp Last		
Temp Read		
DDC Version	0x40519	
DDC_CHK_SEL	0	
DDC_Check_Total	0x0	

Factory Menu Name	Data	Range
IR_ON_OFF	0xaa	
BT ADDRESS	ON	
BT UPGRADE		
SVC Reset		

■ Expert

Factory Menu Name	Data	Range
N/D ADJ		
Source		

■ ADC/WB

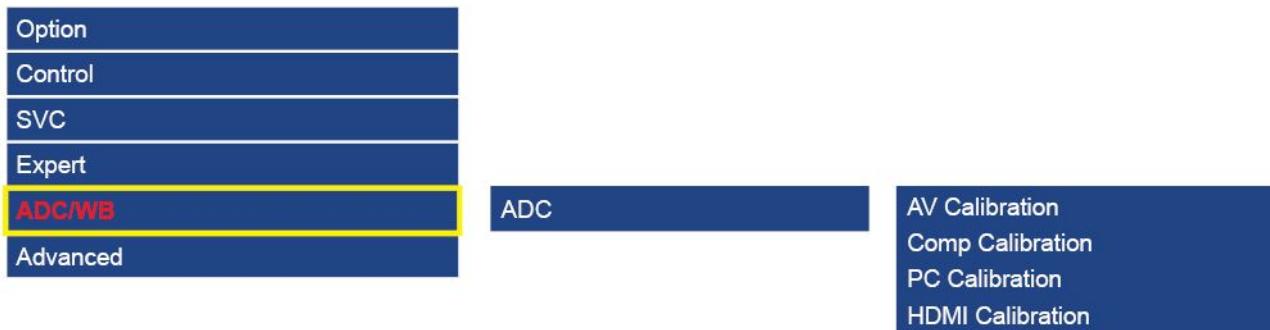
Factory Menu Name	Data	Range
ADC		
AV Calibration		
Comp Calibraion		
PC Calibration		
HDMI Calibration		
ADC Target		
1st_AV_Low	64	
1st_AV_High	880	
1st_AV_Delta	2	
1st_COMP_Y_Low	64	
1st_COMP_Cb_Low	512	
1st_COMP_Cr_Low	512	
1st_COMP_Y_High	940	
1st_COMP_Cb_High	512	
1st_COMP_Cr_High	512	
1st_COMP_Delta	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	
2nd_Delta	2	
ADC Result		
1st_Y_GH	248	
1st_Y_GL	245	

Factory Menu Name	Data	Range
1st_Cb_BH		
1st_Cb_BL		
1st_Cr_RH		
1st_Cr_RL		
2nd_R_L	131	
2nd_G_L	131	
2nd_B_L	131	
2nd_R_H	107	
2nd_G_H	107	
2nd_B_H	107	
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		
Movie B-Offset		
Movie R-Gain		
Movie B-Gain		

4.3. White Balance

4-4-1. Calibration

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



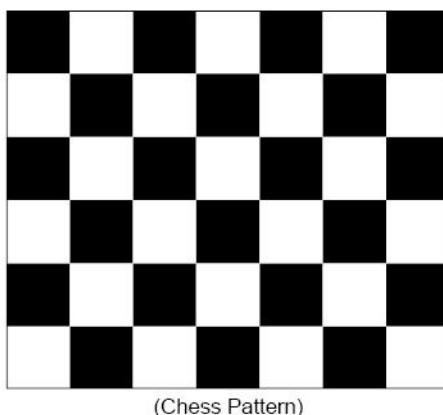
4-4-2. Service Adjustment

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

■ Color Calibration

- Adjust Specification

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



(Chess Pattern)

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

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

■ Method of Color Calibration (AV)

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

■ Method of Color Calibration (Component)

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

■ Method of Color Calibration (PC)

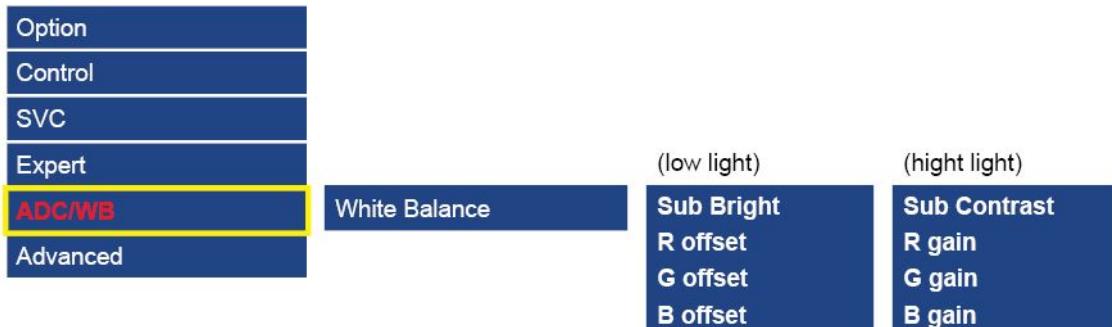
1. Apply the VESA XGA Lattice (N0. 21) pattern signal to the PC IN port.
2. Press the Source key to switch to "PC" mode.
3. Enter Service mode.
4. Select the "ADC" menu.
5. Select the "PC Calibration" menu.
6. In "PC Calibration Off" status, press the "▶" key to perform Calibration.
7. When Calibration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

■ Method of Color Calibration (HDMI)

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

4-4-3. Adjustment

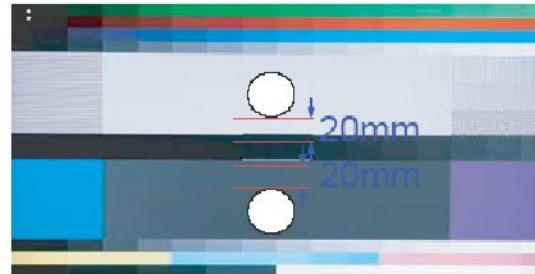
1. Into the Factory Mode.
2. Select SVC Menu.
3. Select ADC/WB menu.
4. Select White Balance menu.



4.4. White Ratio (Balance) Adjustment

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

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



Calibration and Manual setting for WB adjustment

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



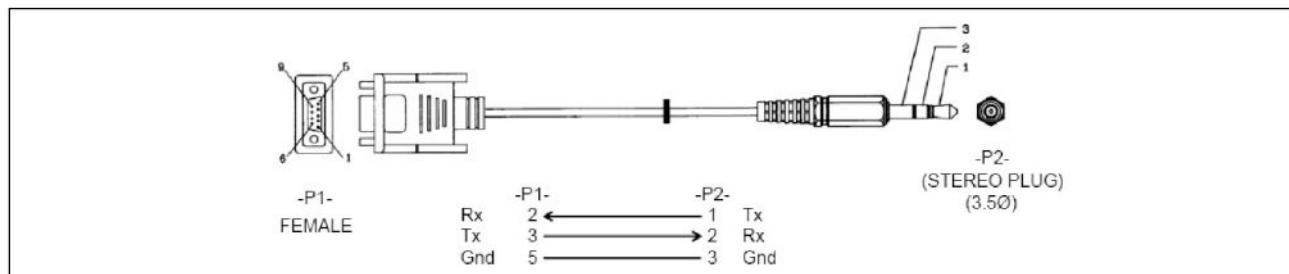
Note

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

4.5. RS-232C

RS232C Control

- Port : COM#(Serial)
- Bit rate : 115200
- Data Bit : 8 bit
- Parity : None
- Stop Bits : 1
- Flow Control : None



Description of RS232C

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

4.6. AV Control Table

Control Item			Cmd1	Cmd2	Cmd3	Value
General	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
			Down			0x02

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

Control Item			Cmd1	Cmd2	Cmd3	Value
PICTURE	Mode	Dynamic(Entertain)	0x0b	0x00	0x00	0x00
		Standard				0x01
		Movie				0x02
		Natural				0x03
		CAL-NIGHT				0x04

Control Item			Cmd1	Cmd2	Cmd3	Value
		CAL-DAY				0x05
		BD Wise				0x06
		Relax				0x07
		BackLight (CellLight)	0~20	0x01	0x00	(0~20)
		Contrast	0~100	0x02	0x00	(0~100)
		Brightness	0~100	0x03	0x00	(0~100)
		Sharpness	0~100	0x04	0x00	(0~100)
		Color	0~10	0x05	0x00	(0~100)
		Tint	G/R	0x06	0x00	(0~100)
		Advanced Settings	Black Tone	Off	0x07	0x00
				Dark		0x01
				Darker		0x02
				Darkest		0x03
		Dynamic Contrast		Off	0x01	0x00
				Low		0x01
				Medium		0x02
				Hlgh		0x03
		Shadow Detail	-2 ~ 2	0x02	(-2~2)	Not Support
		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)	Not Support
		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)	
		Edge Enhancement	Off	0x0f	0x00	
			On			0x01

Control Item		Cmd1	Cmd2	Cmd3	Value
	xvYCC	Off			0x10 0x00
		On			0x01
	Motion Lighting	Off		0x11	0x00
		On			0x01
	LED Motion Plus	Off	0xa	0x07	0x00
		On(Normal)			0x01
		Cinema			0x02
		Ticker			0x03
	Picture Option	Color Tone	Cool	0xa	0x00
		Standard			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
		Cinema Smooth			0x03
	Auto Motion Plus	Off		0x06	0x00
		Clear			0x01
		Standard			0x02
		Smooth			0x03
		Custom			0x04
		Demo			0x05

Control Item			Cmd1	Cmd2	Cmd3	Value
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
		Auto Wide				0x08
		Wide Zoom				0x09
	Reset Picture		0x0b	0x0b	0x00	0x00
3D	3D Mode	Off	0x0b	0x0c	0x00	0x00
		2D → 3D				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)
	3D Auto View	Off			0x05	0x00
		Message Notice				0x01
		On				0x02

Not Support

Control Item			Cmd1	Cmd2	Cmd3	Value
Sound	Sound Mode	Standard	0x0c	0x00	0x00	0x00
		Music				0x01
		Movie				0x02
		Clear Voice				0x03
		Amplify				0x04
Equalizer	Balance		0x01	0x00	(0~20)	
	100hz				0x01	(0~20)

Control Item			Cmd1	Cmd2	Cmd3	Value
Sound Effect	300hz				0x02	(0~20)
	1khz				0x03	(0~20)
	3khz				0x04	(0~20)
	10khz				0x05	(0~20)
	Reset				0x06	0x00
	SRS TruSurround HD (echo)	Off		0x02	0x00	0x00
	Virtual Surround (echo)	On				0x01
	SRS TruDialog (echo)	Off		0x03	0x00	0x00
	Dialog Clarify (X9)	On				0x01
	Preferred Language	English		0x04	0x00	0x00
Multi-Track Sound	Spanish					0x01
	French					0x02
	Korean					0x03
	Japanese					0x04
	Mono		0x05	0x00	0x00	
Auto Volume	Stereo					0x01
	SAP					0x02
	Off		0x06	0x00	0x00	
Speaker Select	ON					0x01
	Night					0x02
	TV Speaker		0x07	0x00	0x00	
Sound Select	External Speaker					0x01
	Main		0x08	0x00	0x00	
Sound Reset	Sub					0x01
	Sound Reset		0x09	0x00	0x00	
3D Audio	Off		0x0a	0x00	0x00	Not Support add 2012
	Low					
	Medium					
	High					
Auto Stereo	Manual		0x0b	0x00	0x00	Not Support only KOREA (2012)
	Auto					

Control Item		Cmd1	Cmd2	Cmd3	Value
KEY	Key Generation	0x0d	0x00	0x00	refer to table
OSD	Show/Hide Control	Show	0x0e	0x00	0x00
		Hide			0x01
Get Status	Power (On/Off)	0xf0	0x00	0x00	0x00
	Volume(0~100)	0xf0	0x01	0x00	0x00
	Mute (On/Off)	0xf0	0x02	0x00	0x00
	Channel Number	0xf0	0x03	0x00	0x00
	Source (TV/AV/.../HDMI/...)	0xf0	0x04	0x00	0x00
	Picture Size	0xf0	0x05	0x00	0x00
	3D (On/Off)	0xf0	0x06	0x00	0x00
	Picture Mode	0xf0	0x07	0x00	0x00
	Sound Mode	0xf0	0x08	0x00	0x00
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)			

4.7. Software Upgrade

Software Upgrade can be performed by downloading the latest firmware from samsung.com to a USB memory device.

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

Software is represented as 'Year/Month/Day_Version'.

4-7-1. How to Check the Software Version

■ Use the Main Menu

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



■ Use the Factory Mode

Option	T-ECPAUC-xxxx T-ECOAUSS3-xxxx E-Manual : EPATSCE-xxxx Camera Version : x.xx Mic Version : x.xx EDID SUCCESS CALIB : AV / COMP / PC / HDMI / Option : xxxx xxxx XXX FactoryCS : xxxxxxxxxxxx
Control	
SVC	
Expert	
ADC/WB	DTP-SDAL-ECHOP-xxxx RFS : "Echo.P 00xx" / 201x-xx-xx Backend IC[1], Data Ver : xxxx Backend FW : CORE[xxxx], LUT[xxxx]
Advanced	

4-7-2. How to Upgrade Software

1. Insert a USB drive containing the firmware upgrade downloaded from samsung.com into the TV.



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

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



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

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

■ Main Software Upgrade

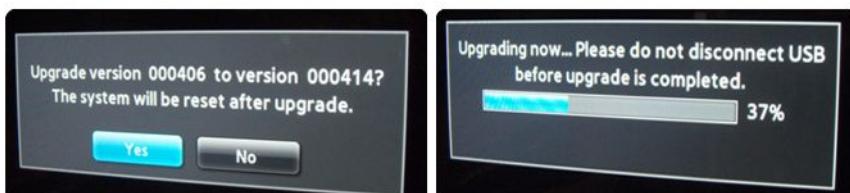
1. Store the sw program named "T-ECPACKUC" in USB memory stick.



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

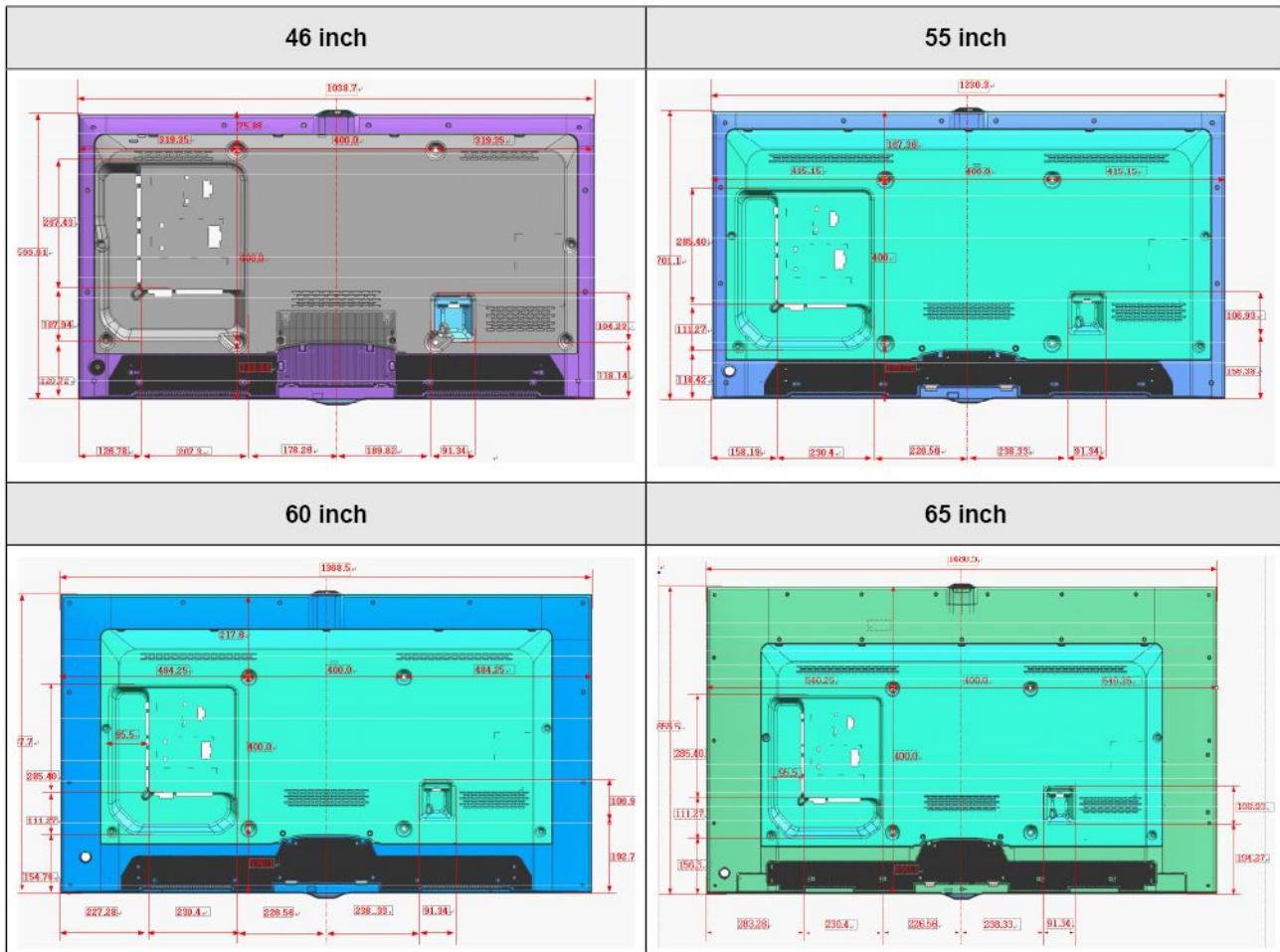


4. Click the "ENTER" key.
 - Wait for upgrade complete.
 - Check the Software Version.

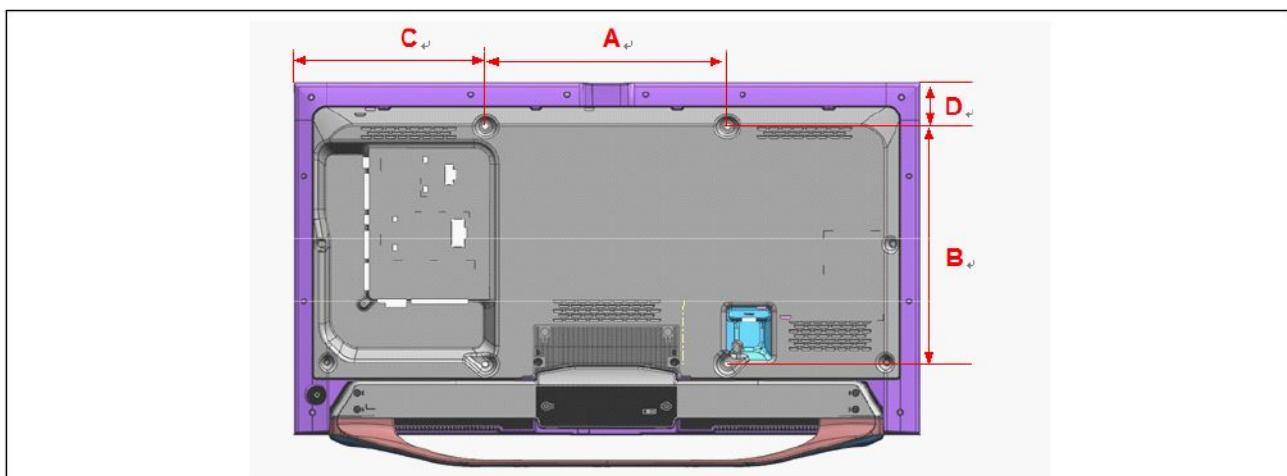


4.8. Cover-Middle Rear Dimension

■ Cover-Middle & Rear Dimmension



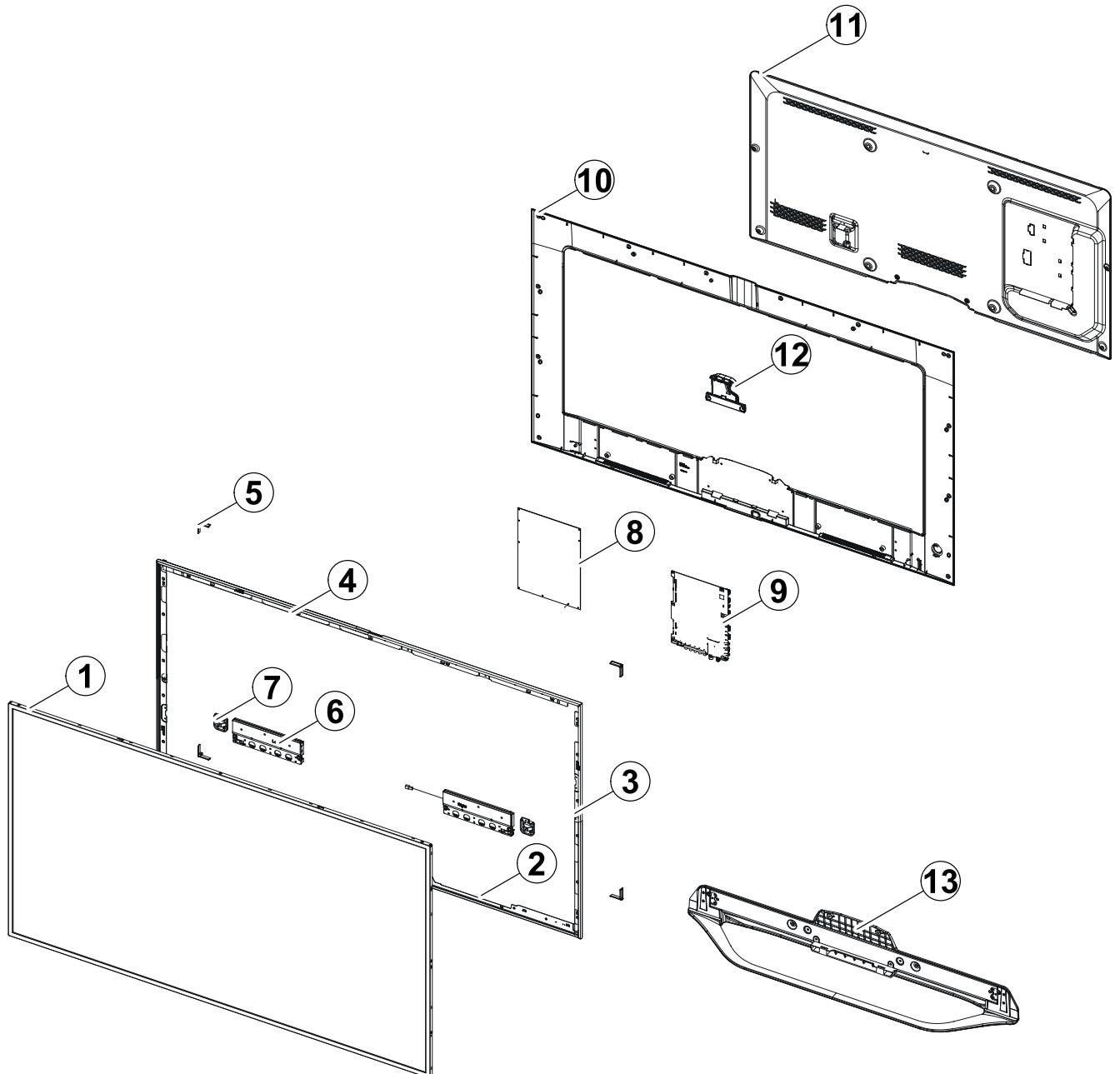
■ Cover-Rear Area



UN**ES8000F	46 inch	55 inch	60 inch	65 inch
Wall Mount (A X B)	400 x 400	400 x 400	400 x 400	400 x 400
C, D	319.3	74.9	415.1	167.3

1. Exploded View & Part List

Exploded View



Parts List

No.	Parent	Lvl.	Loc.	Material Code	Description & Specification	SNA	Qty.
1	BN91-08867A	2		BN95-00633A	PRODUCT LCD; 3D,7K, LE600DSS-V1,1920*1080	SA	1
2	BN91-06460Q	2		BN96-21951A	ASSY COVER P-FRAME BOTTOM; UE8000,60,SUS3	SA	1
3	BN91-06460Q	2		BN96-22132A	ASSY COVER P-FRAME SIDE; UE8000,60,SUS304	SA	2
4	BN91-06460Q	2		BN96-22128A	ASSY COVER P-FRAME TOP; UE8000,60,SUS304,	SA	1
5	BN91-06460Q	2		BN63-09069A	COVER-CORNER; UE8000,60,ABS+PMMA,HB,BK000	SNA	4
6	BN91-06460Q	2	SP01A	BN96-16798H	ASSY SPEAKER P; 6ohm,4pin,10W,E7000/8000	SA	1
7	BN96-23708A	3		BN61-07931A	BRACKET-STAND, PANEL; UE8000 55",EGI-SECC	SNA	2
8	BN91-06460Q	2		BN44-00526A	DC VSS-LED TV PD BD; PD60B2Q_CSM,PSLF161Q	SA	1
9	BN91-08855L	2	M0014	BN94-05160Q	ASSY PCB MAIN; UE8Y,E8000	SA	1
10	BN90-03802B	2	M001A	BN96-21937B	ASSY COVER P-MIDDLE; UE8000,60,ABS+PC,V0,	SA	1
11	BN90-03809M	2	R001A	BN96-21944M	ASSY COVER P-REAR; UE8000,60,UO,PCM T0.4,	SA	1
12	BN91-06460Q	2	M002A	BN96-22666A	ASSY MISC P-CAMERA MODULE; KITE-LED 8000,	SA	1
13	BN90-03806A	2	SB04A	BN96-21941A	ASSY STAND P-BASE; UE8000,60,ABS,HB,NC000	SA	1

2. Electrical Parts List

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
			UN60ES8000FXZA (HS01)		
1		BN90-03802B	ASSY COVER MIDDLE;UE8000,60	1	SNA
.2		6001-002755	SCREW-MACHINE;BH,+,M3,L6,ZPC(BLK),SWRCH1	20	SA
.2	T0527	AA68-03539A	LABEL BAR CODE;65X40mm,ART PAPER	1	SNA
.2	M001A	BN96-21937B	ASSY COVER P-MIDDLE;UE8000,60,ABS+PC,V0,	1	SA
.3	T0214	0203-001602	TAPE-OPP MASKING;#232,0.14,15,50000,YEL	0	SNA
.3	M0081	6003-000115	SCREW-TAPTYPE;BH,+,B,M3,L6,ZPC(BLK),SWRC	4	SNA
.3		BN02-00102B	TAPE FILAMENT;UE7000,#893,0.15,25,60,WHI	0	SNA
.3		BN60-00184C	SPACER-FOAM;FOAM,30000mm,DARK GRAY,1T,20	1	SNA
.3		BN60-00577B	SPACER-SPONGE;UE8K,URETHANE,115mm,GREY,7	1	SNA
.3	CCM1	BN63-05199M	COVER-SHEET;AMBER,PE,T0.08,W150mm,200M,C	3	SNA
.3	CCM1	BN63-05199N	COVER-SHEET;OUTDOOR PLUS,PE,T0.08,W190mm	1	SNA
.3	R002A	BN63-09054B	COVER-MIDDLE;UE8000,60,ABS+PC,V0,BK0008,	1	SNA
.3	FB05A	BN96-22726E	ASSY BOARD P;UN60ES8000,SUNGJI,1050mm,fu	1	SNA
.4	EC13	BN39-01643D	LEAD CONNECTOR;UE7X/UE8Y,Cable Connector	1	SA
.4	NW01	BN59-01148C	NETWORK;WIDT-20R,Internal WiFi,USB,34x36	1	SA
.4		BN96-21431B	ASSY BOARD P-RF-MODULE;Bluetooth Module,	1	SA
.4		BN96-22726A	ASSY BOARD P-5WAY SWITCH FUNCTION;E7000/	1	SA
1	S001A	BN90-03806A	ASSY STAND;UE8000,60	1	SNA
.2	SCREW	6003-001806	SCREW-TAPTYPE;BH,S,M4,L10,NI_PLT,SWRCH18	6	SNA
.2	SB04A	BN96-21941A	ASSY STAND P-BASE;UE8000,60,ABS,HB,NC000	1	SA
.3	M0081	6003-001010	SCREW-TAPTYPE;FH,+,B,M3,L6,ZPC(WHT),SWRC	8	SNA
.3	M0081	6003-001188	SCREW-TAPTYPE;BH,+-,B,M4,L10,ZPC(WHT),S	8	SA
.3	SCREW	6003-001785	SCREW-TAPTYPE;FH,+,B,M4,L8,ZPC(BLK),SWRC	10	SA
.3		6902-001704	BAG PE;HDPE/NITRON,T0.015/T0.5,W1200,L40	1	SNA
.3		BN60-00162W	SPACER-FOAM;FOAM,30000mm,Dark Gray,1T,10	0	SNA
.3		BN60-00573B	SPACER-FORM;UE8000,FORM,L200,DARK GRAY,T	2	SNA
.3		BN61-07944A	BRACKET-STAND, TOP;UE8000 60",EGI-SECC PL	1	SNA
.3		BN61-07959A	BRACKET-STAND, BOTTOM;UE8000 60",EGI-SECC	2	SNA
.3	SG03	BN61-07969A	GUIDE-STAND;UE8000,60,ABS+PMMA,HB,BK0007	1	SNA
.3		BN61-08166A	BRACKET-STAND,R;UE8000 55",ALCOT,RIGHT	1	SNA
.3		BN61-08167A	BRACKET-STAND,L;UE8000 55",ALCOT,LEFT	1	SNA
.3	CCM1	BN63-02183C	COVER-SHEET;Rhcm,PE Vinyl,T0.05,200mm,20	1	SNA
.3		BN63-09090A	COVER-STAND FRONT;UE8000,60,ABS,HB,NC000	1	SNA
.3		BN63-09090B	COVER-STAND REAR;UE8000,60,ABS,HB,NC0001	1	SNA
.3		BN63-09091A	COVER-STAND,BOTTOM;UE8000,60,HIPS,HB,BK0	1	SNA
.3		BN68-04344A	LABEL-BASE;A/P100G,0.08,20X,70mm,PANTONE	1	SNA
.3	AR011	BN73-00077A	RUBBER FOOT;MATISSE,BUMPON,13.5,T2.0,G	6	SNA

Exploded Views and Parts List

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
1	R001A	BN90-03809M	ASSY COVER REAR;UE8000,60,UO	1	SNA
.2	R001A	BN96-21944M	ASSY COVER P-REAR;UE8000,60,UO,PCM T0.4,	1	SA
..3		BN60-00162Y	SPACER-FOAM;FOAM,50000mm,Dark Gray,0.35T	0	SNA
..3	R001	BN63-07843H	COVER-REAR;UE8000 55INCH, Echo-P,PCM,T0.	1	SNA
..3		BN63-08262A	EARTH-PLATE;UD6500,STAINLESS-STS304,0.15	4	SNA
..3		BN63-08448B	GASKET-EMI;51 U/SLIM,Conductive Fabric,1	2	SNA
..3		BN63-08804A	SHEET-INSULATOR SMPS;UD8000 60",PC,0.43,	1	SNA
..3		BN68-03947A	LABEL-TERMINAL SIDE;LED 7K,8K,PET,T0.05,	1	SNA
..3		BN68-03948A	LABEL-TERMINAL BOTTOM;LED 7K,8K,PET,T0.0	1	SNA
..3		BN68-04094A	LABEL-EVOLUTION KIT;WW, Echo-P,72.0,131.	1	SNA
1		BN91-06460Q	ASSY SHIELD;UE8Y,E8000	1	SNA
.2		6001-002756	SCREW-MACHINE;BH,+,M3,L6,ZPC(WHT),SWRCH1	16	SA
.2		6001-002757	SCREW-MACHINE;BH,+,M3,L4,ZPC(WHT),SWRCH1	9	SA
.2		BN02-00102B	TAPE FILAMENT;UE7000,#893,0.15,25,60,WHI	0	SNA
.2		BN39-01472D	LEAD CONNECTOR-DECO CABLE;D8K 60",Cable	1	SA
.2	EC13	BN39-01475G	LEAD CONNECTOR;UN46C6400,Flat Connector	1	SA
.2	EC13	BN39-01650C	LEAD CONNECTOR;UE8K,Cable Connector Ass'	1	SA
.2		BN44-00526A	DC VSS-LED TV PD BD;PD60B2Q_CSM,PSLF161Q	1	SA
.2		BN62-00285B	HEAT SINK-PS;TV Echo-P,AL5052,2t,BLACK,5	1	SNA
.2		BN62-00295A	PAD GAP;ES7/8K_40/46/55/60,SILICON,50 50	1	SNA
.2		BN63-03734A	GASKET;UBISYNC 19,Conductive Fabric,1.3,	2	SNA
.2		BN63-09069A	COVER-CORNER;UE8000,60,ABS+PMMA,HB,BK000	4	SNA
.2	SP01A	BN96-16798H	ASSY SPEAKER P;6ohm,4pin,10W,E7000/8000	1	SA
.2	FL06	BN96-17116T	ASSY CABLE P-FFC;UD7K~8K 60",FFC,449mm,5	1	SA
.2		BN96-21951A	ASSY COVER P-FRAME BOTTOM;UE8000,60,SUS3	1	SA
..3		BN63-09063A	COVER-FRAME, BOTTOM;UE8000 60",SUS416,T0	1	SNA
..3	FB04A	BN96-22676B	ASSY BLU P;UN46ES8000FXZA,M12-8000,BLUE	1	SNA
.2		BN96-22128A	ASSY COVER P-FRAME TOP;UE8000,60,SUS304,	1	SA
..3		BN63-07229Q	COVER-SHEET;UE8000,urethane,T0.052,W6mm,	1	SNA
..3		BN63-09059A	COVER-FRAME, TOP;UE8000 60",SUS416,T0.6	1	SNA
.2		BN96-22132A	ASSY COVER P-FRAME SIDE;UE8000,60,SUS304	2	SA
..3		BN63-07229V	COVER-SHEET;UE8000,urethane,T0.052,W16mm	2	SNA
..3		BN63-09067A	COVER-FRAME, SIDE;UE8000 60",SUS416,T0.6	2	SNA
.2	M002A	BN96-22666A	ASSY MISC P-CAMERA MODULE;KITE-LED 8000,	1	SA
.2		BN96-23708A	ASSY BRACKET P-STAND PANEL;UE8000,60,EGI	2	SNA
..3		BN61-04692A	BOSS-PRIMER;#94,clear,35cps	0	SNA
..3		BN61-07931A	BRACKET-STAND, PANEL;UE8000 55",EGI-SECC	2	SNA
..3		BN63-03734A	GASKET;UBISYNC 19,Conductive Fabric,1.3,	2	SNA
.2	T0382	BP61-00492C	HOLDER-CARE;PJT,ACRYL-FOAM,T0.25,W50.0mm	0	SNA
1	M0017	BN91-08855L	ASSY CHASSIS;UE8Y,E8000	1	SNA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
.2	M0014	BN94-05160Q	ASSY PCB MAIN;UE8Y,E8000	1	SA
.3	T0756	AA68-01018A	LABEL-PQS,50mmX,13,WHITE	1	SNA
.3	HDP01	BN61-06644A	HOLDER-PCB;LC750,NYNOL66,V0	2	SA
.3	CB01	BN61-07938A	BRACKET-AV;UE8000 55",PCM,T0.4	1	SNA
.3		BN62-00285A	HEAT SINK-PS;TV Echo-P,A5052,2t,BLACK,50	1	SNA
.3		BN97-05229L	ASSY SMD;UE8Y,E8000,UE8Y,E8000	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	5	SA
.4	D0254	0404-001404	DIODE-SCHOTTKY;BAT721C,40V,200mA,SOT-23,	2	SA
.4	T0139	0406-001200	DIODE-TVS;RCLAMP0504F,6/-/V,150W,SC-70	3	SA
.4	Q375	0504-000126	TR-DIGITAL;KSR1101,NPN,200mW,4.7K/4.7Koh	2	SA
.4	CEQ2	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	SA
.4		0505-002598	FET-SILICON;AP2317GN,P,-20V,-4.2A,0.052o	2	SA
.4		0801-003424	IC-CMOS LOGIC;74VHCV541,Octal schmitt bu	1	SA
.4		0904-002631	IC-USC;QFN,28P,5.0mm X 5.0mm,12MHz,TP,PL	2	SA
.4		1001-001686	IC-ANALOG MULTIPLEX;74LV4052,CMOS,TTSOP,	1	SA
.4		1001-001745	IC-VIDEO SWITCH;SiI9587CNUC,QFN,88P,10X1	1	SA
.4		1001-001758	IC-ANALOG MULTIPLEX;TS3DS10224RUKR,QFN,2	1	SNA
.4		1006-001509	IC-DRIVER/RECEIVER;MAX3222ECPWR,TSSOP,20	1	SA
.4		1103-001506	IC-EEPROM;M24512-RMN6TP,512Kbit,64Kx8,SO	1	SA
.4		1105-002269	IC-DDR3 SDRAM;K4B2G1646C-HCMA,DDR3 1866,	4	SA
.4		1201-003341	IC-AUDIO AMP;TAS5735PHPR,HTQFP,48P,7x7mm	1	SNA
.4		1203-004363	IC-VOL. DETECTOR;RT9818C-29PV,SOT-23,3P,	1	SA
.4		1203-006017	IC-VOL. DETECTOR;RT9824GJ8,TSOT23,8P,2.9	1	SA
.4		1203-006067	IC-POWER SUPERVISOR;TPS2553DBVR,SOT-23,6	4	SNA
.4	T0087	1203-006109	IC-POSI.FIXED REG.;S-1206B33-M3T1G,SOT-2	1	SA
.4	T0087	1203-006135	IC-POSI.FIXED REG.;AP1117D-33-GZ-13-89,T	3	SA
.4	T0087	1203-006136	IC-POSI.FIXED REG.;AP1117D-18-GZ-13-89,T	1	SA
.4		1203-006167	IC-POSI.FIXED REG.;S-1172B12-U5T1G,SOT-8	1	SA
.4		1203-007018	IC-DC/DC CONVERTER;TPS54821RHL,QFN,14P,3	1	SA
.4		1203-007080	IC-DC/DC CONVERTER;AOZ1051PI,SO-8,8P,4.9	5	SA
.4		1204-003317	IC-VIDEO PROCESS;SDP1101,FBGA,196P,11.5x	1	SA
.4		1204-003318	IC-DECODER;SDP1106,FCBGA,1188P,35x35mm,P	1	SA
.4		1205-003231	IC-BUFFER;DS90LV804,LLP,32P,5x5mm,PLASTI	3	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		1205-004385	IC-ETHERNET CONTROLLER;RTL8201F-VB-CGT,Q	1	SA
.4		1405-001271	VARISTOR;35V,20Vdc,5A,1.0x0.5x0.6mm,TP,1	1	SA
.4	R105	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	SA
.4	AR49	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	SA

Exploded Views and Parts List

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4	R319	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	37	SA
...4	R104	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SA
...4	HDR2	2007-000151	R-CHIP;15Kohm,5%,1/16W,TP,1005	2	SNA
...4	AR43	2007-000155	R-CHIP;27Kohm,5%,1/16W,TP,1005	1	SA
...4	MR13	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	SNA
...4	R509	2007-000170	R-CHIP;1Mohm,5%,1/16W,TP,1005	3	SA
...4	R111	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	38	SA
...4	HDR17	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	5	SNA
...4	R338	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	21	SA
...4		2007-000231	R-CHIP;1.3Kohm,1%,1/10W,TP,1608	2	SA
...4	FR6	2007-000536	R-CHIP;200ohm,1%,1/10W,TP,1608	3	SA
...4	R124	2007-000775	R-CHIP;33Kohm,5%,1/16W,TP,1005	7	SNA
...4	DR37	2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005	4	SA
...4	R858	2007-001007	R-CHIP;51Kohm,1%,1/10W,TP,1608	2	SA
...4	VR88	2007-001116	R-CHIP;680ohm,1%,1/10W,TP,1608	2	SA
...4		2007-001168	R-CHIP;75ohm,5%,1/4W,TP,3216	2	SA
...4	AHR41	2007-001175	R-CHIP;8.2Kohm,1%,1/10W,TP,1608	1	SA
...4		2007-001288	R-CHIP;18ohm,5%,1/16W,TP,1005	4	SA
...4	R1	2007-002425	R-CHIP;1ohm,5%,1/10W,TP,1608	6	SNA
...4	DR8	2007-007001	R-CHIP;3.9Kohm,5%,1/16W,TP,1005	1	SA
...4	R365	2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005	10	SNA
...4		2007-007132	R-CHIP;15Kohm,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		2007-007139	R-CHIP;47Kohm,1%,1/16W,TP,1005	14	SA
...4	DR4	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	33	SA
...4		2007-007306	R-CHIP;100ohm,1%,1/16W,TP,1005	8	SNA
...4		2007-007309	R-CHIP;12Kohm,1%,1/16W,TP,1005,0.35	1	SA
...4		2007-007312	R-CHIP;20Kohm,1%,1/16W,TP,1005	5	SA
...4		2007-007317	R-CHIP;2.2Kohm,1%,1/16W,TP,1005	2	SA
...4		2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005	21	SA
...4		2007-007517	R-CHIP;240ohm,1%,1/16W,TP,1005	6	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	6	SA
...4		2007-007766	R-CHIP;2Kohm,1%,1/16W,TP,1005	17	SA
...4		2007-007850	R-CHIP;249ohm,1%,1/10W,TP,1608	1	SA
...4	MR11	2007-008015	R-CHIP;75ohm,1%,1/16W,TP,1005	6	SA
...4		2007-008137	R-CHIP;24Kohm,1%,1/16W,TP,1005	2	SNA
...4		2007-008175	R-CHIP;330ohm,1%,1/16W,TP,1005	1	SNA
...4		2007-008263	R-CHIP;3Kohm,1%,1/16W,TP,1005	3	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4		2007-008275	R-CHIP;30Kohm,1%,1/16W,TP,1005	1	SNA
...4		2007-008294	R-CHIP;33ohm,1%,1/16W,TP,1005	3	SA
...4		2007-008391	R-CHIP;6.34Kohm,1%,1/16W,TP,1005	2	SA
...4		2007-008779	R-CHIP;0ohm,1%,1/16W,TP,1005	1	SA
...4		2007-009853	R-CHIP;1.6Kohm,1%,1/16W,TP,1005	1	SNA
...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.	2	SA
...4	DRP29	2011-001396	R-NETWORK;4.7Kohm,5%,1/16W,L,CHIP,8P,TP,	3	SNA
...4		2011-001449	R-NETWORK;22ohm,5%,1/16W,L,4P,TP,1010	5	SA
...4		2011-001497	R-NETWORK;470ohm,5%,1/16W,L,CHIP,4P,TP,1	3	SNA
...4		2011-001506	R-NETWORK;10Kohm,5%,1/16W,L,CHIP,4P,TP,1	5	SA
...4		2011-001527	R-NETWORK;4.7Kohm,5%,1/16W,L,CHIP,4P,TP,	14	SA
...4		2011-001586	R-NETWORK;1Kohm,5%,1/16W,L,CHIP-V,4P,TP,	1	SNA
...4		2011-001587	R-NETWORK;100ohm,5%,1/16W,L,CHIP-V,4P,TP	9	SA
...4	PC43	2203-000233	C-CER,CHIP;0.1nF,5%,50V,C0G,TP,1005	5	SA
...4	DC54	2203-000278	C-CER,CHIP;0.01nF,0.5pF,50V,C0G,TP,1005	1	SA
...4	DC2	2203-000330	C-CER,CHIP;0.012nF,5%,50V,C0G,TP,1005	4	SA
...4	DC1	2203-000386	C-CER,CHIP;0.015nF,5%,50V,C0G,TP,1005	10	SA
...4	C254	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	12	SA
...4	C507	2203-000489	C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1005	8	SA
...4	V1233	2203-000575	C-CER,CHIP;220nF,10%,25V,X7R,TP,2012	6	SA
...4	MC9	2203-000627	C-CER,CHIP;0.022nF,5%,50V,C0G,TP,1005	2	SNA
...4	AD480	2203-000714	C-CER,CHIP;3.3nF,10%,50V,X7R,TP,1005	7	SA
...4	DC25	2203-000812	C-CER,CHIP;0.033nF,5%,50V,C0G,TP,1005	3	SA
...4	C525	2203-001634	C-CER,CHIP;33nF,10%,50V,X7R,TP,1608	4	SA
...4	AD480	2203-002050	C-CER,CHIP;47nF,10%,50V,X7R,TP,1608	1	SA
...4	AD480	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,TP,1005	25	SNA
...4	C711	2203-002982	C-CER,CHIP;6.8nF,10%,50V,X7R,TP,1005	1	SA
...4	C231	2203-005221	C-CER,CHIP;15nF,10%,50V,X7R,TP,1608	1	SNA
...4	AAC1	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	13	SA
...4	AD480	2203-005344	C-CER,CHIP;22nF,10%,25V,X7R,TP,1005,0.5T	4	SNA
...4	PC8	2203-005642	C-CER,CHIP;0.22nF,5%,50V,NP0,TP,1005	3	SNA
...4	AD480	2203-005968	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1005,0.5	3	SNA
...4	VC37	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,1005	222	SA
...4	AD480	2203-006088	C-CER,CHIP;330nF,10%,10V,X7R,TP,1608	1	SA
...4	AD480	2203-006126	C-CER,CHIP;47nF,10%,16V,X7R,TP,1005	4	SNA
...4	C102	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,TP,1005,0.5	3	SA
...4	C802	2203-006348	C-CER,CHIP;1000nF,10%,25V,X5R,TP,1608,0.	3	SA
...4	HE4	2203-006474	C-CER,CHIP;22000nF,20%,6.3V,X5R,TP,2012	9	SA
...4	HDC11	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	40	SNA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4	AD480	2203-006741	C-CER,CHIP;470nF,10%,25V,X5R,TP,1608,0.8	2	SNA
...4	AD480	2203-006824	C-CER,CHIP;4700nF,10%,10V,X5R,TP,1608	17	SNA
...4	C23	2203-006890	C-CER,CHIP;10000nF,20%,6.3V,X5R,TP,1608	27	SNA
...4	AD480	2203-006992	C-CER,CHIP;0.33nF,5%,50V,C0G,TP,1005	1	SNA
...4	AD480	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012,1	50	SNA
...4	AD480	2203-007513	C-CER,CHIP;10000nF,10%,10V,X5R,TP,1608,0	11	SA
...4		2409-001118	C-POLYMER ,CHIP;47uF,20%,10V,WT,TP,3.5X2	4	SA
...4		2503-001051	C-NETWORK;100nFx4,20%,16V,2012	2	SA
...4	T0052	2703-000158	INDUCTOR-SMD;1uH,10%,2012	4	SA
...4	T0052	2703-003790	INDUCTOR-SMD;4.7uH,20%,8080	5	SA
...4		2703-003930	INDUCTOR-SMD;4.7uH,20%,5050	4	SA
...4		2703-004145	INDUCTOR-SMD;2.2uH,20%,6.5 x 6.9mm	1	SNA
...4	X202	2801-003331	CRYSTAL-SMD;28.63636MHz,30ppm,HC-49,16pF	1	SA
...4	X202	2801-003948	CRYSTAL-SMD;12MHz,30ppm,28-AAN,12pF,60oh	1	SA
...4	X202	2801-004734	CRYSTAL-SMD;25.000000MHz,20ppm,28-AAN,12	1	SA
...4	X202	2801-004774	CRYSTAL-SMD;24MHz,30ppm,14pF,30ohm,TP	2	SA
...4	X202	2801-004775	CRYSTAL-SMD;12MHz,30ppm,16pF,30ohm,TP	2	SNA
...4	DR32	3301-000314	BEAD-SMD;120ohm,1608,TP,120ohm/100MHz	7	SNA
...4	T0568	3301-002039	BEAD-SMD;260ohm,1608,TP	57	SA
...4	F201	3601-001374	FUSE-SURFACE MOUNT;32V,5A,FAST-ACTING,PL	2	SA
...4	CN601	3701-001736	CONNECTOR-HDMI;19P,2ROW,FEMALE,SMD-A	3	SA
...4	CN303	3707-001104	CONNECTOR-OPTICAL;SMD-A(Ultra Slim),SPDI	1	SA
...4		3710-003555	CONNECTOR-SOCKET;80P,2R,0.5mm,ANGLE,NI+S	1	SA
...4	HB01A	3711-005499	HEADER-BOARD TO CABLE;BOX,8P,1R,1.25mm,S	1	SA
...4	HB01A	3711-005509	HEADER-BOARD TO CABLE;BOX,4P,1R,1.25mm,S	1	SA
...4	HB01A	3711-005925	HEADER-BOARD TO CABLE;BOX,51P,1R,0.5mm,S	1	SA
...4		3711-007571	CONNECTOR-HEADER;BOX,18P,2R,2.0mm,ANGLE,	1	SA
...4		3711-007585	CONNECTOR-HEADER;BOX,4P,1R,2.5mm,ANGLE-D	1	SA
...4	EH01	3711-007742	HEADER-BOARD TO CABLE;BOX,20P,2R,2mm,ANG	1	SA
...4	EH01	3711-008095	HEADER-BOARD TO CABLE;BOX,22P,2R,2mm,ANG	1	SNA
...4	CN1501	3722-003044	JACK-USB;4P/1C,NI,BLK,SMD-A,A-TYPE	3	SA
...4		3722-003151	JACK-PIN;5P(ULTRA SLIM),NI,BLK,ANGLE(SSR	1	SA
...4	CN1701	3722-003199	JACK-MODULAR;8P/8C,ANGLE,AU,1P	1	SA
...4	CN502	3722-003208	JACK-PHONE;1P/7C,P-BRONZE,YEL,SMD-A(DIP)	1	SA
...4		3722-003216	JACK-PHONE;1P/7C,P-BRONZE,BLACK,SMD-A(DI	1	SA
...4		3722-003394	JACK-PHONE;1P/6C,AU,BLK,ANGLE	2	SA
...4	ET01	BN40-00228A	TUNER;DNVS203EH144A,DNVS203EH144A,VSBFull	1	SA
...4		BN41-01800A	PCB MAIN;UE7000,FR-4,4,A,1.2,192*240,1	1	SNA
...4		BN68-02775A	LABEL-SMD;ALL MODELS,8.5,21,COMMON	1	SNA
...4		BN97-06594A	ASSY MICOM-MAIN FIASH;T-ECPAKUC-1012.0,2	1	SNA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
....5		1107-002088	IC-NAND FLASH;KLM2G1HE3F-B001,2GByte,16G	1	SNA
....5	T0527	AA68-03540A	LABEL-MICOM;ART PAPE,7X6mm	1	SNA
...4		BN97-06595A	ASSY MICOM-SUB;T-ECAUSS3-1003,2012.03.0	1	SNA
....5		0903-001747	IC-MICROCONTROLLER;WT61P806-RG480,LQFP,4	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
1		BN91-08867A	ASSY LCM-SHARP;BN95-00633A	1	SNA
.2		BN95-00633A	PRODUCT LCD;3D,7K, LE600DSS-V1,1920*1080	1	SA
..3		6001-002756	SCREW-MACHINE;BH,+,M3,L6,ZPC(WHT),SWRCH1	4	SA
..3		6001-002757	SCREW-MACHINE;BH,+,M3,L4,ZPC(WHT),SWRCH1	10	SA
..3		6001-002759	SCREW-MACHINE;CH,+,M3,L4,ZPC(BLK),SWRCH1	16	SNA
..3	T0527	AA68-03539A	LABEL BAR CODE;65X40mm,ART PAPER	1	SNA
..3		BN68-03216A	LABEL-STICKER;WW,Yupo Polyester,80X40,AV	1	SNA
..3		BN73-00280A	SILICON/RUBBER-GAPPAD;UC7W/UC8X,SILICON+	3	SNA
..3		BN82-01229A	A/S ASSY-FPC CABLE;QFR,59mm,80P FPC CABL	4	SNA
..3		BN90-03841A	ASSY MISC-BLU;SNB 60" 7K	1	SNA
...4		6001-002759	SCREW-MACHINE;CH,+,M3,L4,ZPC(BLK),SWRCH1	10	SNA
...4		BN02-00031A	TAPE FILAMENT-WIRE;NNB 32/40/46/55,3M891	2	SNA
...4		BN61-08254A	LGP-LED;60" ,Lenti,PMMA,1340.5 x 762.5 x	1	SNA
...4		BN63-09450A	SHEET-PRISM;60inch NNB UTE34G-10B,SHEET,	1	SNA
...4		BN63-09451A	SHEET-DBEF;60inch NNB DBEF D3 340,SHEET,	1	SNA
...4		BN63-09452A	SHEET-REFLECTOR;60inch NNB SRS980CS,SHEE	1	SNA
...4		BN63-09453A	SHEET-DIFFUSER;60inch NNB UTE23C-10B,SHE	1	SNA
...4		BN96-21715A	ASSY MISC P-LED BAR;60" NNB _6K3D Left,4B	1	SNA
...4		BN96-21716A	ASSY MISC P-LED BAR;60" NNB _6K3D Right,4	1	SNA
...4		BN96-22357A	ASSY MISC P-CHASSIS BOTTOM;NNB 60" 2D,BN	1	SNA
....5		6001-002617	SCREW-MACHINE;CH,+,M3,L4,Ni_PLT (White),	8	SNA
....5		6001-002759	SCREW-MACHINE;CH,+,M3,L4,ZPC(BLK),SWRCH1	6	SNA
....5		BN02-00102B	TAPE FILAMENT;UE7000,#893,0.15,25,60,WHI	0	SNA
....5		BN02-00113A	TAPE ETC-FIXING WIRE;Y12 NNB2,PET,0.1T,3	1	SNA
....5	EC13	BN39-01618A	LEAD CONNECTOR;E_NNB Plus 60"L wire-harn	1	SNA
....5	EC13	BN39-01619A	LEAD CONNECTOR;E_NNB Plus 60"R wire-harn	1	SNA
....5		BN61-07424A	BRACKET-WALL MOUNT;NNB 32/40/46/55,SPCC,	4	SNA
....5		BN61-08235A	HOLDER-LGP;SNB,M3*L4.9*SCALOCK,trap,4.9,	2	SNA
....5		BN62-00280A	INSULATION-S-PCB L;NNB 60",MTU-100,0.1,2	1	SNA
....5		BN62-00281A	INSULATION-S-PCB R;NNB 60",MTU-100,0.1,2	1	SNA
....5		BN62-00282A	INSULATION-PD BOARD;NNB 60",PC-FILM(0.43	1	SNA
....5	CC02	BN64-01921A	CHASSIS-BOTTOM;NNB 60",EGI-SECC,0.6,1354	1	SNA
...4		BN96-22361A	ASSY FRAME P-MOLD MIDDLE U;NNB 60",BN61-	1	SNA
....5		BN60-00556A	SPACER-PANEL UD;NNB 60",SI(SH0140U)0.6T+	2	SNA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
....5		BN60-00570A	SPACER-PANEL UD B;NNB 60",SSP40 0.7T + M	2	SNA
....5		BN61-07922A	FRAME-MOLD MIDDLE (U);NNB 60",PC+GF,1.1,	1	SNA
...4		BN96-22362A	ASSY FRAME P-MOLD MIDDLE D;NNB 60",BN61-	1	SNA
....5		BN02-00040B	TAPE DOUBLE FACE-DIFFUSER FIXING;NNB 32/	1	SNA
....5		BN60-00558A	SPACER-LGP UD;NNB 60",SB00.188T+MKT-Z100	2	SNA
....5		BN60-00569A	SPACER-PANEL DN B;NNB 60",SSP40 0.7T + M	2	SNA
....5		BN60-00571A	SPACER-PANEL DN A;NNB 60",SSP40 0.7T + M	2	SNA
....5		BN61-07923A	FRAME-MOLD MIDDLE (D);NNB 60",PC+GF,1.1,	1	SNA
...4		BN96-22363A	ASSY FRAME P-MOLD MIDDLE LR;NNB 60",BN61	2	SNA
....5		BN60-00557A	SPACER-PANEL LR;NNB 60",SI(SH0140U)0.6T+	2	SNA
....5		BN60-00559A	SPACER-LGP LR;NNB 60",SB00.188T+MKT-Z100	2	SNA
....5		BN61-07924A	FRAME-MOLD MIDDLE (LR);NNB 60",PC+GF,1.1	2	SNA
..3		BN95-00630A	ASSY T CON;217*150*1.2T,Sharp 240HZ	1	SA
...4	T0756	AA68-01018A	LABEL-PQS;50mmX,13,WHITE	1	SNA
...4		BN97-06553A	ASSY SMD;BN95-00630A	1	SNA
....5		0202-001477	SOLDER-CREAM;LST309-M,D20~45um,96.5Sn/3A	3	SNA
....5		0404-001157	DIODE-SCHOTTKY;RB160M-30,30V,1000MA,PMDU	2	SA
....5	D0254	0404-001271	DIODE-SCHOTTKY;SSA34,40V,3000mA,SMA,TP	1	SA
....5	D0254	0404-001307	DIODE-SCHOTTKY;SSC54,40V,5000mA,DO-214AB	2	SA
....5		0404-001482	DIODE-SCHOTTKY;RB055LA-40,40V,3000mA,PMD	2	SA
....5		0404-001640	DIODE-SCHOTTKY;SS1060HEWS,60V,1000mA,SOD	1	SA
....5		0404-001643	DIODE-SCHOTTKY;B360A,60V,3000mA,SMA,TP	1	SA
....5	T0139	0406-001200	DIODE-TVS;RCLAMP0504F,6/-/V,150W,SC-70	3	SA
....5		0406-001438	DIODE-TVS;SMCJ14A,15.6/-/17.2V,1500W,DO-	1	SA
....5		0406-001445	DIODE-TVS;RClamp7512N,2.7/2.8/2.9,300W,S	2	SA
....5	PQ02	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	SA
....5		0502-001360	TR-POWER;STC405D,NPN,15000mW,TO-252	1	SA
....5		0502-001364	TR-POWER;KTC3573,1,500mW,PLASTIC,TR,150	1	SA
....5		0502-001365	TR-POWER;KTA1040D,1000mW,DPAK,TR,100	1	SA
....5	Q409	0505-000274	FET-SILICON;AO4435L,P,-30V,-11A,0.014ohm	4	SNA
....5		0505-001844	FET-SILICON;SI4435DDY-T1-GE3,P,-30V,-11.	1	SA
....5	Q409	0505-001905	FET-SILICON;2N7002,N,60V,300mA,7.5ohm,.3	1	SC
....5		0505-002598	FET-SILICON;AP2317GN,P,-20V,-4.2A,0.052o	1	SA
....5		0505-002645	FET-SILICON;AOD4184A,N,40V,50A,0.007ohm,	1	SA
....5		0505-002925	FET-SILICON;AO4438,N,60V,8.2A,3.1W,SOT-8	1	SA
....5		0505-002937	FET-SILICON;AO4854L,DUAL N,30V,8A,2W,SOT	1	SA
....5	S1M036	10801-002294	IC-CMOS LOGIC;7SH08,AND GATE,SC-70,5P,2x	1	SA
....5		0801-003292	IC-CMOS LOGIC;7WB66,Bus Switch,MAB08A,8P	1	SA
....5		1003-002412	IC-LEVEL DRIVER;MAX17079GTL+,TR,40P,6x6x	1	SA
....5		1105-002194	IC-DDR3 SDRAM;K4B1G1646G-BCH9,DDR3 SDRAM	2	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
....5		1105-002264	IC-DDR2 SDRAM;K4T51163QJ-BCF8,DDR2,512Mb	4	SNA
....5		1201-002980	IC-OP AMP;MAX9650ATA+,TDFN-EP,TP,8P,3*3m	4	SA
....5		1203-004363	IC-VOL. DETECTOR;RT9818C-29PV,SOT-23,3P,	1	SA
....5	T0087	1203-006130	IC-POSI.FIXED REG.;S-1172B25-U5T1G,SOT-8	1	SA
....5	IC012	1203-006138	IC-POSI.ADJUST REG.;AP1117DGZ-13-89,TO-2	1	SA
....5		1203-006591	IC-SWITCH VOL. REG.;BD9329EFJ,HTSOP-J8,8	1	SNA
....5		1203-006684	IC-DC/DC CONVERTER;TPS54327DDAR,HSOP8,8P	2	SNA
....5		1203-006780	IC-VOL. REFERENCE;MAX9697ATI+,TQFN,28P,5	1	SA
....5		1203-006806	IC-POWER SUPERVISOR;ISL45041IRZ-T,8P,3x3	1	SA
....5		1203-007215	IC-DC/DC CONVERTER;SN1109048RHL,QFN,14P,	1	SA
....5		1204-003301	IC-DECODER;VPP1552,FPBGA,324P,15 x 15 mm	2	SA
....5		1204-003324	IC-VIDEO PROCESS;SDP1111,FCBGA,768P,31x3	1	SA
....5		1205-004222	IC-MULTIPLIER;THV3056,64P,9x9x0.9mm,PLAS	1	SA
....5	IS01	1209-001761	IC-SENSOR;LM75ADP,TSSOP,8P,3.1x3.1mm,PLA	1	SA
....5		1301-001822	IC-FPGA;EP2C5T144C8N,TQFP,144P,22x22mm,3	1	SNA
....5	J914	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	2	SC
....5		2007-000039	R-CHIP;0ohm,1%,1/10W,TP,1608	1	SA
....5	SR51	2007-000040	R-CHIP;150ohm,1%,1/10W,TP,1608	1	SNA
....5	DR1	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	10	SA
....5	PR4	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
....5	KAR13	2007-000060	R-CHIP;100Kohm,1%,1/10W,TP,1608	1	SNA
....5	ND51C	2007-000066	R-CHIP;20Kohm,1%,1/10W,TP,1608	2	SNA
....5	KAR21	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	28	SA
....5	AR150	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	2	SA
....5	R331	2007-000079	R-CHIP;1.8Kohm,5%,1/10W,TP,1608	1	SA
....5	CER04	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	2	SA
....5	ZR24	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	3	SA
....5	AAR39	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	SA
....5	MR9	2007-000127	R-CHIP;9.1Kohm,5%,1/10W,TP,1608	1	SA
....5	R105	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	20	SA
....5	AR49	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	2	SA
....5	MR306	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	2	SA
....5	R319	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	28	SA
....5		2007-000147	R-CHIP;8.2Kohm,5%,1/16W,TP,1005	2	SA
....5	R104	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	23	SA
....5	R102	2007-000149	R-CHIP;12Kohm,5%,1/16W,TP,1005	1	SA
....5	HDR2	2007-000151	R-CHIP;15Kohm,5%,1/16W,TP,1005	1	SNA
....5	MR36	2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	1	SNA
....5	RR33	2007-000154	R-CHIP;24Kohm,5%,1/16W,TP,1005	1	SA
....5	AR43	2007-000155	R-CHIP;27Kohm,5%,1/16W,TP,1005	1	SA

Exploded Views and Parts List

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
....5	MR13	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	SNA
....5		2007-000161	R-CHIP;82Kohm,5%,1/16W,TP,1005	1	SNA
....5	DR39	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	4	SA
....5	R111	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	58	SA
....5	HDR17	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	2	SNA
....5	R1S36	2007-000491	R-CHIP;2.2Kohm,1%,1/10W,TP,1608	1	SA
....5		2007-000509	R-CHIP;2.4Kohm,1%,1/10W,TP,1608	1	SA
....5	HDR7	2007-000570	R-CHIP;220ohm,1%,1/10W,TP,1608	1	SA
....5	PR6	2007-000583	R-CHIP;22Kohm,1%,1/10W,TP,1608	2	SA
....5		2007-000606	R-CHIP;240ohm,1%,1/10W,TP,1608	1	SA
....5	JR11	2007-000614	R-CHIP;24Kohm,1%,1/10W,TP,1608	2	SNA
....5		2007-000736	R-CHIP;30Kohm,1%,1/10W,TP,1608	1	SA
....5	R1057	2007-000744	R-CHIP;30ohm,5%,1/10W,TP,1608	1	SA
....5	R299	2007-000772	R-CHIP;33Kohm,1%,1/10W,TP,1608	1	SA
....5	HR60	2007-000779	R-CHIP;33ohm,1%,1/10W,TP,1608	1	SA
....5	R741	2007-000799	R-CHIP;360ohm,5%,1/10W,TP,1608	1	SA
....5	DR6	2007-000831	R-CHIP;39Kohm,5%,1/16W,TP,1005	1	SA
....5	MR14	2007-000842	R-CHIP;3Kohm,1%,1/10W,TP,1608	1	SA
....5	AR61	2007-000869	R-CHIP;4.7Kohm,1%,1/10W,TP,1608	4	SNA
....5	AAR99	2007-000910	R-CHIP;43Kohm,1%,1/10W,TP,1608	1	SA
....5	R552	2007-000913	R-CHIP;43Kohm,5%,1/10W,TP,1608	1	SA
....5	HR10	2007-000962	R-CHIP;5.1Kohm,1%,1/10W,TP,1608	1	SA
....5	R441	2007-001042	R-CHIP;56ohm,1%,1/10W,TP,1608	8	SNA
....5	R506	2007-001056	R-CHIP;6.2Kohm,5%,1/10W,TP,1608	1	SA
....5	HR4	2007-001093	R-CHIP;620ohm,5%,1/10W,TP,1608	1	SA
....5		2007-001096	R-CHIP;62Kohm,1%,1/10W,TP,1608	1	SNA
....5	S1G0843	2007-001125	R-CHIP;68Kohm,1%,1/10W,TP,1608	2	SA
....5	R25	2007-001139	R-CHIP;7.5Kohm,1%,1/10W,TP,1608	3	SA
....5	R703	2007-001153	R-CHIP;750ohm,1%,1/10W,TP,1608	1	SA
....5		2007-001199	R-CHIP;820ohm,1%,1/10W,TP,1608	1	SA
....5	R3512	2007-001206	R-CHIP;82Kohm,1%,1/10W,TP,1608	1	SNA
....5	MR31	2007-001305	R-CHIP;120ohm,5%,1/16W,TP,1005	2	SNA
....5		2007-001316	R-CHIP;820ohm,5%,1/16W,TP,1005	1	SA
....5	AVR63	2007-001323	R-CHIP;3Kohm,5%,1/16W,TP,1005	1	SA
....5	R326	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	2	SNA
....5		2007-001333	R-CHIP;18Kohm,5%,1/16W,TP,1005	1	SA
....5		2007-001335	R-CHIP;36Kohm,5%,1/16W,TP,1005	1	SA
....5	R1	2007-002425	R-CHIP;1ohm,5%,1/10W,TP,1608	4	SNA
....5		2007-002797	R-CHIP;560ohm,5%,1/16W,TP,1005	1	SNA
....5	DR8	2007-007001	R-CHIP;3.9Kohm,5%,1/16W,TP,1005	2	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
....5		2007-007008	R-CHIP;300ohm,5%,1/16W,TP,1005	4	SNA
....5	PR8	2007-007015	R-CHIP;13Kohm,5%,1/16W,TP,1005	1	SA
....5	R365	2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005	1	SNA
....5	DR4	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	5	SA
....5		2007-007156	R-CHIP;1ohm,5%,1/16W,TP,1005	2	SA
....5		2007-007306	R-CHIP;100ohm,1%,1/16W,TP,1005	61	SNA
....5		2007-007315	R-CHIP;3.9Kohm,1%,1/16W,TP,1005	2	SNA
....5		2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005	16	SA
....5		2007-007334	R-CHIP;200Kohm,1%,1/16W,TP,1005	2	SA
....5		2007-007352	R-CHIP;130Kohm,1%,1/10W,TP,1608	1	SA
....5		2007-007431	R-CHIP;91Kohm,1%,1/10W,TP,1608	2	SA
....5		2007-007463	R-CHIP;1.1Kohm,1%,1/16W,TP,1005	1	SA
....5	HDR44	2007-007470	R-CHIP;7.5Kohm,1%,1/16W,TP,1005	8	SNA
....5		2007-007517	R-CHIP;240ohm,1%,1/16W,TP,1005	2	SNA
....5		2007-007722	R-CHIP;43ohm,1%,1/10W,TP,1608	1	SA
....5		2007-007723	R-CHIP;75Kohm,1%,1/10W,TP,1608	1	SA
....5		2007-007766	R-CHIP;2Kohm,1%,1/16W,TP,1005	5	SA
....5		2007-007767	R-CHIP;200ohm,1%,1/16W,TP,1005	2	SA
....5	V8642	2007-007768	R-CHIP;13Kohm,1%,1/10W,TP,1608	1	SA
....5		2007-007981	R-CHIP;180Kohm,1%,1/16W,TP,1005	1	SNA
....5		2007-008294	R-CHIP;33ohm,1%,1/16W,TP,1005	8	SA
....5		2007-008714	R-CHIP;0.01ohm,1%,1W,TP,6432	2	SA
....5	ZRN10	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	SA
....5		2011-001264	R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,2.	3	SNA
....5	HRP2	2011-001344	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,2	2	SA
....5	PC43	2203-000233	C-CER,CHIP;0.1nF,5%,50V,C0G,TP,1005	2	SA
....5	MC2	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,TP,1005	60	SA
....5	C134	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	1	SA
....5	MC9	2203-000359	C-CER,CHIP;0.15nF,5%,50V,C0G,TP,1005,0.5	1	SA
....5	DC1	2203-000386	C-CER,CHIP;0.015nF,5%,50V,C0G,TP,1005	1	SA
....5	C254	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	9	SA
....5	C507	2203-000489	C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1005	1	SA
....5	AD480	2203-000530	C-CER,CHIP;2.7nF,10%,50V,X7R,TP,1005,-	2	SNA
....5	V1233	2203-000575	C-CER,CHIP;220nF,10%,25V,X7R,TP,2012	1	SA
....5	AD480	2203-000576	C-CER,CHIP;220nF,10%,50V,X7R,TP,3216	1	SA
....5	AD480	2203-000585	C-CER,CHIP;0.22nF,10%,50V,X7R,TP,1005	1	SA
....5	AD480	2203-000714	C-CER,CHIP;3.3nF,10%,50V,X7R,TP,1005	2	SA
....5	DC25	2203-000812	C-CER,CHIP;0.033nF,5%,50V,C0G,TP,1005	2	SA
....5	AC34	2203-000940	C-CER,CHIP;0.47nF,10%,50V,X7R,TP,1005	1	SA
....5	AD480	2203-000995	C-CER,CHIP;0.047nF,5%,50V,C0G,TP,1005	3	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
....5	DC87	2203-001153	C-CER,CHIP;0.068nF,5%,50V,NP0,TP,1005	1	SA
....5	AD480	2203-001851	C-CER,CHIP;0.016nF,5%,50V,NP0,TP,1608	6	SNA
....5	AD480	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,TP,1005	8	SNA
....5	AVC08	2203-002398	C-CER,CHIP;22nF,10%,50V,X7R,TP,1608	1	SNA
....5	AD480	2203-002519	C-CER,CHIP;5.6nF,10%,50V,X7R,TP,1005	1	SNA
....5	AC2	2203-002711	C-CER,CHIP;100nF,10%,25V,X7R,TP,1608	29	SA
....5	AD480	2203-002720	C-CER,CHIP;10nF,10%,25V,X7R,TP,1005,0.5T	4	SNA
....5	DC18	2203-005138	C-CER,CHIP;1.8nF,10%,50V,X7R,TP,1005	3	SA
....5	AAC1	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	6	SA
....5	AD480	2203-005344	C-CER,CHIP;22nF,10%,25V,X7R,TP,1005,0.5T	9	SNA
....5	VC37	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,1005	69	SA
....5	C600	2203-006090	C-CER,CHIP;10000nF,10%,6.3V,X5R,TP,2012	2	SA
....5	C102	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,TP,1005,0.5	144	SA
....5	C802	2203-006348	C-CER,CHIP;1000nF,10%,25V,X5R,TP,1608,0.	6	SA
....5	C125	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	2	SC
....5	AD480	2203-006377	C-CER,CHIP;4700nF,10%,25V,X5R,TP,2012	2	SNA
....5	HDC11	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	12	SNA
....5	AD480	2203-006698	C-CER,CHIP;1000nF,10%,25V,X7R,TP,1608,0.	11	SA
....5	AD480	2203-006706	C-CER,CHIP;2200nF,10%,50V,X7R,TP,3225	1	SNA
....5	AD480	2203-006824	C-CER,CHIP;4700nF,10%,10V,X5R,TP,1608	2	SNA
....5	C23	2203-006890	C-CER,CHIP;10000nF,20%,6.3V,X5R,TP,1608	11	SNA
....5	AD480	2203-006960	C-CER,CHIP;1000nF,10%,50V,X7R,TP,2012	3	SNA
....5	AD480	2203-007233	C-CER,CHIP;22000nF,10%,16V,X5R,TP,3216,1	4	SA
....5	AD480	2203-007240	C-CER,CHIP;22000nF,20%,6.3V,X5R,TP,1608,	12	SA
....5	AD480	2203-007306	C-CER,CHIP;10000nF,10%,25V,X5R,TP,2012,1	53	SNA
....5	AD480	2203-007513	C-CER,CHIP;10000nF,10%,10V,X5R,TP,1608,0	35	SA
....5		2503-001051	C-NETWORK;100nFx4,20%,16V,2012	3	SA
....5	T0052	2703-002804	INDUCTOR-SMD;10uH,20%,12x12mm	1	SA
....5		2703-003263	INDUCTOR-SMD;3.3uH,20%,10.0x10.0mm	1	SNA
....5		2703-003488	INDUCTOR-SMD;10uH,20%,6965	1	SA
....5	T0052	2703-003790	INDUCTOR-SMD;4.7uH,20%,8080	5	SA
....5		2703-003932	INDUCTOR-SMD;22uH,20%,8080	1	SNA
....5	X202	2801-003954	CRYSTAL-SMD;27MHz,30ppm,28-AAN,16pF,50oh	3	SA
....5	XU25	2806-001308	OSCILLATOR-VCXO;27MHz,-,30PF,TP,3.3V,50M	1	SA
....5	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz,-	14	SA
....5	T0568	3301-002039	BEAD-SMD;26ohm,1608,TP	22	SA
....5		3601-001402	FUSE;125V,7A,FAST ACTING,CERAMIC,2.69X6.	1	SNA
....5	CON1	3708-002552	CONNECTOR-FPC/FFC/PIC;80P,0.5mm,SMD-A,AU	4	SA
....5		3711-002050	CONNECTOR-HEADER;BOX,10P,1R,1.25mm,SMD-A	2	SNA
....5	HB01A	3711-005499	HEADER-BOARD TO CABLE;BOX,8P,1R,1.25mm,S	4	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
....5	HB01A	3711-005601	HEADER-BOARD TO CABLE;BOX,8P,1R,2mm,SMD-	1	SA
....5	HB01A	3711-005925	HEADER-BOARD TO CABLE;BOX,51P,1R,0.5mm,S	1	SA
....5		BN41-01817A	PCB MAIN;FR-4,4,1.2T,217*170,1,12Y 60" 2	1	SNA
....5		BN68-02775A	LABEL-SMD;ALL MODELS,8.5,21,COMMON	1	SNA
....5		BN97-06561A	ASSY MICOM;T-EPCS4-03,2012.02.22	1	SNA
....6	IC115	1107-001492	IC-FLASH MEMORY;EPCS4,4Mbit,SOP,8P,5x4mm	1	SNA
....5		BN97-06562A	ASSY MICOM;T-SACRA_M-03,2012.02.20	1	SNA
....5		BN97-06563A	ASSY MICOM;T-SACRA_S-03,2012.02.20	1	SNA
....6		1107-001915	IC-NOR FLASH;32Mbit,x1,SOP,8P,5.25x5.25m	1	SNA
....5		BN97-06650A	ASSY MICOM;T-ECHO_P_SHARP-03,2012.03.12	1	SNA
....6		1107-001916	IC-NOR FLASH;W25Q16BVSSIG,16Mbit,2Mbitx8	1	SNA
..3		BN96-19792B	ASSY OPEN CELL;LK6003HA9KN,0.69225(H)X0.	1	SNA
..4		BN81-07532A	AS-BIAXIAL-RETARDATION;PFILV1038TPXZ,Pla	1	SNA
..4		BN81-07533A	AS-FRED/QFR;DUNTK4564TPX0,FR4, 4Layers,	1	SNA
..4		BN81-07535A	AS-FRED/QFR;DUNTK4563TPX0,FR4, 4Layers,	1	SNA
..4		BN81-07536A	AS-BIAXIAL-RETARDATION;PFILV1402TPXZ,Cle	1	SNA
..4		BN81-07537A	AS-FRED/QFR;DUNTK4562TPX0,FR4, 4Layers,	1	SNA
..4		BN81-07542A	AS-DUAL-SOURCE;VHILH16E001-K,272ch, 2pf,	1	SNA
..4		BN81-07544A	AS-MINILVDS;VHILH16DD06-K,miniLVDS, 720c	1	SNA
..4		BN81-07546A	AS-FRED/QFR;DUNTK4565TPX0,FR4, 4Layers,	1	SNA
..3	SB05A	BN96-21884A	ASSY BRACKET P-STAND LINK;UE6100 60,EGI-	1	SNA
..4		BN60-00184A	SPACER-FOAM;FOAM,30000mm,DARK GRAY,1T,30	0	SNA
..4		BN61-02932L	BRACKET-STOPPER NUT;LED TV,M3,D5.5,L7.5,	2	SNA
..4		BN61-02932M	BRACKET-STOPPER NUT;LED TV,M4,D6,L7,BRAC	4	SNA
..4	CB18	BN61-08027A	BRACKET-STAND LINK;UE6100,60,EGI-SECC PL	1	SNA
..4	CD101	BN65-00005A	CLAMP-WIRE;55UD6500,NYLON 66,BLK	5	SNA
..3		BN96-22359A	ASSY MISC P-CHASSIS TOP;NNB 60",BN64-019	1	SNA
..4		BN60-00555A	SPACER-TOP D;NNB 60",E-FOAM+TSA01,1347(6	1	SNA
..4		BN63-07229G	COVER-SHEET;rose70",urethane,T0.052,W15m	4	SNA
..4	AC157	BN64-01920A	CHASSIS-TOP;NNB 60",SPCC,0.8T,1359.7,778	1	SNA
..3		BN96-22360D	ASSY COVER P-SOURCE;NNB 60",240Hz,BN63-0	1	SNA
..4		BN60-00342A	SPACER-SOURCE;NNB 32/40/46/55,SH0140U+AT	16	SNA
..4		BN61-08233A	BRACKET-STOPPER NUT;LED TV,M3*D7*L6.5*WH	4	SNA
..4		BN61-08234A	BRACKET-STOPPER NUT;LED TV,M3*D6*L7.7*BL	1	SNA
..4		BN62-00278C	INSULATION-S-COVER L;NNB 60",MTU-100,0.1	1	SNA
..4		BN62-00279C	INSULATION-S-COVER R;NNB 60",MTU-100,0.1	1	SNA
..4		BN63-09041A	SHIELD-SOURCE COVER;NNB 60",EGI-SECC AG,	1	SNA
..4		BP63-00120A	GASKET;SP50L2HX,Conductive Fabric,4.0mm,	4	SNA
1		BN92-10024C	ASSY LABEL;UE8Y,E8000	1	SNA
.2	CIS1	0203-001598	TAPE-FILAMENT;#8915,0.15,12,55000,CLR	0	SNA

Exploded Views and Parts List

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
.2		BN68-03608A	LEAFLET-04,STOP GUIDE;All,SAMSUNG,ENG/FR	1	SNA
.2		BN68-04168A	LABEL-01,TV POP;5500,American,PET,T0.1,1	1	SNA
.2		BN68-04184F	LABEL-STICKER;UE8Y,ZA,PET,T0.05,38,140,E	1	SNA
.2	T0527	BP68-00052B	LABEL-00,RATING;CCTV,TETRON PAPER,T0.05,	1	SNA
1		BN92-10082A	ASSY BOX;UEH8000,60,UO	1	SNA
.2	T0077	BH68-00329D	LABEL BAR CODE-02;NO CE,NO WT`Y,MPRII,LA	2	SNA
.2		BN69-07459B	BOX-SET,OUT;60UE8000-HS,CB,C-03,DW3,YEL,	1	SNA
.2		BN69-07460A	BOX-SET,IN;60UE8000-HS,CB,C-01,DW1,YEL,W	1	SNA
1		BN92-10086A	ASSY P/MATERIAL;UEH8000,60	1	SNA
.2	T0214	0203-001269	TAPE-OPP MASKING;#301,T0.06,W75,L50000,N	1	SNA
.2	T0524	6902-000961	BAG PE;NITRON,T0.015/T0.5,W1700,L1100,TR	1	SNA
.2	M040	6922-000013	BAND PP;PP,W18,L2300/L2900,TRP	3	SNA
.2	T0214	AA61-20285C	HOLDER-BOX;CORAL,PP,BLACK,HB,17.5g	4	SNA
.2		BN69-05528A	PACKING INNER;PAD COMM,CB,3,1828.8,100,C	1	SNA
.2		BN69-06989A	CUSHION-SET;UE8000 60",EPS	1	SNA
.2		BN74-00008D	TAPE-OPP MASKING;OPP,T0.05,W75,L800M,CLR	2	SNA
1	ACCE1	BN92-10353G	ASSY ACCESSORY;UE8Y,E8000	1	SNA
.2	ACCE4	BN96-21957H	ASSY ACCESSORY-MANUAL;UN46ES8000FXZX	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	M9889	BN63-02368B	CLOTH-CLEAN;CLOTH,120,160,sea blue,ToC	1	SNA
..3		BN68-03533V	MANUAL FLYER-05,3D GLASSES GUIDE;All,SAM	1	SNA
..3		BN68-03608C	LEAFLET-ECO SENSOR GUIDE;All,SAMSUNG,ENG	1	SNA
..3		BN68-04033A	MANUAL USERS-04;UE8000,SAMSUNG,ENG,UNITE	1	SNA
..3		BN68-04345A	LEAFLET-SMART TOUCH CONTROL GUIDE;Echo-P	1	SNA
..3		BN68-04374A	LEAFLET-04,SMART INTERACTION;ALL,SAMSUNG	1	SNA
..3		BP68-00263E	LEAFLET-03,WARRANTY CARD;comm,Samsung,En	1	SNA
.2	ACCE2	BN96-21957S	ASSY ACCESSORY-CABLE;UN60ES8000FXZA	1	SNA
..3	T0268	3903-000598	CBF-POWER CORD;DT,UL/CSA,EP-2,N,125V,5A,	1	SA
..3	T0685	4301-000103	BATTERY-ALKALINE;1.5V,750mAH,LR03,10.5x4	2	SNA
..3		4301-000117	BATTERY-MN;1.5V,750mAH,R6,13.3X49.2,14.8	6	SNA
..3		6902-001340	BAG PE;LDPE,T0.05,W250,L350,TRP,RECYCLE	1	SNA
..3	REMO2	AA59-00626A	REMOCON;TM1290,3V,TM1290, E8000, AMERICA	1	SA
..3	REMO2	AA59-00637A	REMOCON;TM1250B,SAMSUNG,49,3V,NORTH AMER	1	SA
..3	EC07	BN39-01154H	CBF SIGNAL;UE40B7000WWXXC,3P RCA,30AWG,1	1	SA
..3		BN61-08391A	HOLDER-WIRE STAND;UE8000,Nylon,BLK	1	SNA
..3	T0527	BN68-00513A	LABEL-E,PASS;ALL MODEL,YUPO(110G),50X15,	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

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
.2		BN96-22253A	ASSY ACCESSORY 3D GLASSES;SSG-3050GB,In	1	SNA
..3	3DGLA	BN81-07013A	A/S-GLASSES;SSG-3050GB,LC LENS	1	SC
..3		BN81-07014A	A/S-COVER TEMPLE;SSG-3050GB,PA12-TR90,CO	1	SNA
..3		BN81-07015A	A/S-NOSEPAD;SSG-3050GB,PA12-TR90,COVER-T	1	SNA
..3		BN81-07017A	A/S-COVER BATTERY TOP;SSG-3050GB,PC + AB	1	SNA
..3		BN81-07018A	A/S-COVER BATTERY BOTTOM;SSG-3050GB,PC +	1	SNA
.2	M001A	BN96-22897A	ASSY MISC P-IR BLASTER;VG-IRB2000,North	1	SA