



LED TV

Chassis : UWK50

Model : UN32J6300AF
UN40J6300AF
UN48J6300AF
UN50J6300AF
UN55J6300AF
UN60J6300AF
UN65J6300AF
UN75J6300AF

SERVICEManual

LED TV



UN**J6300AF

Contents

1. Precautions
2. Product specifications
3. Disassembly and Reassembly
4. Troubleshooting
5. Wiring Diagram

Contents

1. Precautions	1-1
1-1. Safety Precautions	1-1
1-1-1. Warnings.....	1-1
1-1-2. Servicing the LED TV	1-1
1-1-3. Fire and Shock Hazard	1-1
1-1-4. Product Safety Notices	1-2
1-2. Servicing Precautions.....	1-3
1-2-1. General Servicing Precautions	1-3
1-3. Static Electricity Precautions	1-4
1-4. Installation Precautions	1-5
2. Product Specifications.....	2-1
2-1. Product information	2-1
2-2. Product specification	2-5
2-2-1. Feature & Specifications.....	2-5
2-2-2. Detailed Specifications	2-7
2-3. Accessories	2-11
2-4. Viewing the Functions	2-12
2-5. NEW Key Features.....	2-13
2-5-1. 15" New UI.....	2-13
2-5-2. Instant On	2-14
2-6. Supported Formats.....	2-15
3. Disassembly and Reassembly	3-1
3-1. Disassembly and Reassembly	3-1
3-1-1. TV Disassembly	3-1
4. Troubleshooting	4-1
4-1. Troubleshooting	4-1
4-1-1. Previous Check	4-1
4-2. How to Check Fault Symptom	4-2
4-2-1. Video.....	4-2
4-2-2. Bluetooth / WIFI Module	4-4
4-3. Factory Mode Adjustments	4-6
4-3-1. Detail Factory Option	4-6
4-3-2. Entering Factory Mode	4-8
4-3-3. Factory Data	4-9
4-4. White Balance	4-23
4-4-1. Calibration	4-23
4-4-2. Service Adjustment.....	4-23
4-4-3. Adjustment.....	4-25
4-5. RS-232C.....	4-26
4-6. AV Control Tab.....	4-27
4-7. Updating the TV's Software	4-33

5. Wiring Diagram	5-1
5-1. Wiring Diagram.....	5-1
5-2. Connector	5-2
5-3. Connector Functions	5-6
5-4. Cables and Module.....	5-7
ANNEX. Exploded View & Part List [UN32J6300AFXZA TD01]	ANNEX-1
1-1. Exploded View.....	ANNEX-1
1-1-1. Parts List.....	ANNEX-2
2-1. Electrical Parts List.....	ANNEX-3
ANNEX. Exploded View & Part List [UN40J6300AFXZA TS01].....	ANNEX-1
1-1. Exploded View.....	ANNEX-1
1-1-1. Parts List.....	ANNEX-2
2-1. Electrical Parts List.....	ANNEX-3
ANNEX. Exploded View & Part List [UN48J6300AFXZA TS01].....	ANNEX-1
1-1. Exploded View.....	ANNEX-1
1-1-1. Parts List.....	ANNEX-2
2-1. Electrical Parts List.....	ANNEX-3
ANNEX. Exploded View & Part List [UN50J6300AFXZA DH01]	ANNEX-1
1-1. Exploded View.....	ANNEX-1
1-1-1. Parts List.....	ANNEX-2
2-1. Electrical Parts List.....	ANNEX-3
ANNEX. Exploded View & Part List [UN55J6300AFXZA TH01]	ANNEX-1
1-1. Exploded View.....	ANNEX-1
1-1-1. Parts List.....	ANNEX-2
2-1. Electrical Parts List.....	ANNEX-3
ANNEX. Exploded View & Part List [UN60J6300AFXZA MS01].....	ANNEX-1
1-1. Exploded View.....	ANNEX-1
1-1-1. Parts List.....	ANNEX-2
2-1. Electrical Parts List.....	ANNEX-3
ANNEX. Exploded View & Part List [UN65J6300AFXZA AH01]	ANNEX-1
1-1. Exploded View.....	ANNEX-1
1-1-1. Parts List.....	ANNEX-2
2-1. Electrical Parts List.....	ANNEX-3
ANNEX. Exploded View & Part List [UN75J6300AFXZA TH01]	ANNEX-1
1-1. Exploded View.....	ANNEX-1
1-1-1. Parts List.....	ANNEX-2
2-1. Electrical Parts List.....	ANNEX-3



**This Service Manual is a property of Samsung Electronics Co.,Ltd.
Any unauthorized use of Manual can be punished under applicable
International and/or domestic law.**

**© 2015 Samsung Electronics Co.,Ltd.
All rights reserved.
Printed in Korea**



2. Product Specifications

2-1. Product information

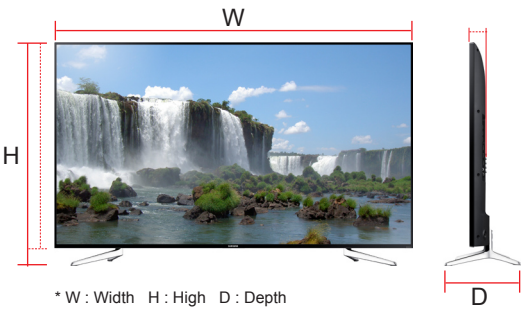

Model	UN** J6300AF		
Front View	<p>* W : Width H : High D : Depth</p>		
Detail View			
Front Color	Black (PANEL)		
Dimensions (W x H x D)	32"	Body	722.1 X 420.6 X 62.9 mm
		With stand	722.1 X 473.4 X 207.6 mm
	40"	Body	907.2 X 525.7 X 63.1 mm
		With stand	907.2 X 585.6 X 288.1 mm
	48"	Body	1075.8 X 620.4 X 63.5 mm
		With stand	1075.8 X 681.7 X 310.5 mm
	50"	Body	1116.8 X 642.9 X 63.7 mm
		With stand	1116.8 X 703.6 X 310.5 mm
	55"	Body	1230.6 X 707.4 X 64.0 mm
		With stand	1230.6 X 770.6 X 310.5 mm
65"		Body	1454.5 X 835.4 X 70.9 mm
		With stand	1454.5 X 910.2 X 369.4 mm

2. Product specifications

Model	UN**J6300AF		
Weight	32"	Body	5.1 Kg
		With stand	5.5 Kg
	40"	Body	7.8 Kg
		With stand	8.7 Kg
	48"	Body	11.3 Kg
		With stand	12.3 Kg
	50"	Body	12.8 Kg
		With stand	13.8 Kg
	55"	Body	15.7 Kg
		With stand	16.7 Kg
	65"	Body	25.5 Kg
		With stand	27.6 Kg
Panel Type	Ultra Clear		
Internal Memory	4GB		
DDR	1.5GB		
Feature	SMART HUB / BT,Wi-Fi		

Model	UN60J6300AF		
Front View	 <p>* W : Width H : High D : Depth</p>		
Detail View			
Front Color	Black (PANEL)		
Dimensions (W x H x D)	60"	Body	1365.0 X 786.4 X 64.4 mm
		With stand	1365.0 X 859.8 X 369.4 mm
Weight	60"	Body	23.5 Kg
		With stand	25.6 Kg
Panel Type	Ultra Clear		
Internal Memory	4GB		
DDR	1.5GB		
Feature	SMART HUB / BT,Wi-Fi		

2. Product specifications

Model	UN75J6300AF		
Front View	 <p>* W : Width H : High D : Depth</p>		
Detail View			
Front Color	Black (PANEL)		
Dimensions (W x H x D)	75"	Body	1676.2 X 959.6 X 70.9 mm
		With stand	1676.2 X 1045.6 X 318.4 mm
Weight	75"	Body	31.2 Kg
		With stand	32.0 Kg
Panel Type	Ultra Clear		
Internal Memory	4GB		
DDR	1.5GB		
Feature	SMART HUB / BT,Wi-Fi		

2-2. Product specification

2-2-1. Feature & Specifications

■ Feature

- FHD TV, RF, 4-HDMI, 1-COMPONENT, 3-USB2.0, LAN, WIFI
- CMR 120
- Dolby Digital Plus, DTS Premium Sound 5.1, DTS Studio Sound

■ Specifications

Model	UN** J6300AF			
Item	Description			
Screen Size (Diagonal)	32 inches	40 inches	48 inches	50 inches
LCD Panel	FHD 120Hz			
Scanning Frequency	Horizontal : 60 kHz ~ 73 kHz (Automatic) Vertical : 47 Hz ~ 63 Hz (Automatic)			
Display Colors	16.7M color			
Display Resolution	1920 X 1080			
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	74.25MHz			
AC Power Voltage & Frequency	AC110-120V 60Hz			
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10% ~ 80%, non-condensing Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5% ~ 95%, non-condensing			
Sound (Output)	20 W (10 W X 2)			
Note : AllShare, SMART Guide, Web Browser, USB HID, BT				

2. Product specifications

Model	UN**J6300AF			
Item	Description			
Screen Size (Diagonal)	55 inches	60 inches	65 inches	75 inches
LCD Panel	FHD 120Hz			
Scanning Frequency	Horizontal : 60 kHz ~ 73 kHz (Automatic) Vertical : 47 Hz ~ 63 Hz (Automatic)			
Display Colors	16.7M color			
Display Resolution	1920 X 1080			
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	74.25MHz			
AC Power Voltage & Frequency	AC110-120V 60Hz			
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10% ~ 80%, non-condensing Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5% ~ 95%, non-condensing			
Sound (Output)	20 W (10 W X 2)			
Note : AllShare, SMART Guide, Web Browser, USB HID, BT				

2-2-2. Detailed Specifications



NOTE

Design and specifications are subject to change without prior notice.

Item		UN**J6300AFXZA
General Information	Product	FHD
	Series	6
	Country	UNITED STATES
Display	Inch	32" / 40" / 48" / 50" / 55" / 60" / 65" / 75"
	Resolution	1920 x 1080
	Ultra Clear Panel	N/A
Video	Motion Refresh Rate	120
	Dynamic Contrast Ratio	Mega Contrast
	Micro Dimming	Micro Dimming Pro
	Precision Black (Local Dimming)	N/A
	Nano Crystal Color	N/A
	Wide Color Enhancer (Plus)	Yes
	PurColor	N/A
	Auto Depth Enhancer	N/A
	Contrast Enhancer	N/A
	Auto Motion Plus	Yes
	Film Mode	Yes
	Peak Illuminator	N/A
Audio	Dolby Digital Plus	Yes
	Virtual Surround	DTS Studio Sound
	DTS Codec	DTS Premium Sound 5.1
	3D Sound	N/A
	Sound Customizer	N/A
	Sound Output (RMS)	20W (L:10W, R:10W)
	Speaker Type	2CH (Down Firing + Base Reflex)
	Woofer	N/A
	HD Audio	Yes
	Wallmount Sound Mode	Yes
	Multiroom Link	Yes
Smart TV	Samsung SMART TV	Yes
	Apps	Yes
	Game	N/A
	Multi-Link Screen	N/A
	ACR (Advertisement)	Yes

2. Product specifications

Item		UN**J6300AFXZA
Smart TV	Info Widget	N/A
	Vertical Enhancement	Yes
Smart Interaction	Voice Interaction	N/A
	Voice Control	N/A
	Face recognition	N/A
	Motion control	N/A
Convergence	TV to Mobile - Mirroring	Yes
	Mobile to TV - Mirroring, DLNA	Yes
	RVU	Wired
	Samsung SMART View	Yes
	Wireless TV On - WOL	Yes
	Notification - BLE	Yes
	Briefing On TV	Yes
	WiDi	N/A
	WiFi Direct	Yes
Tuner/Broadcasting	Digital Broadcasting	ATSC / Clear QAM
	2 Tuner	N/A
	CI/CI+/2CI+	N/A
	Analog Tuner	Yes
	MHP / MHEG / HbbTV / ACAP / GINGA / OHTV	N/A
Connectivity	HDMI	4
	USB	3
	Component In (Y/Pb/Pr)	1
	Composite In (AV)	1 (Common Use for Component Y)
	Ethernet (LAN)	1
	Headphone	N/A
	Audio Out (Mini Jack)	1
	Digital Audio Out (Optical)	1
	RF In (Terrestrial / Cable input / Satellite input)	1/1(Common Use for Terrestrial)/0
	Ex-Link (RS-232C)	Yes
	IR Out	N/A
	CI Slot	N/A
	Scart	N/A
	MHL	Yes
	Dongle Ready (3G / LTE)	N/A
	HDMI 3D Auto Setting	N/A
	HDMI A / Return Ch. Support	Yes
	HDMI Quick Switch	N/A

Item		UN**J6300AFXZA
Connectivity	Wireless LAN Adapter Support	N/A
	Wireless LAN Built-in	Yes
	Anynet+ (HDMI-CEC)	Yes
Design	Design	Wavy Line
	Bezel Type	VNB
	Slim Type	Slim
	Front Color	Black
	Light Effect (Deco)	N/A
	Stand Type	V-Shape
	Swivel (Left/Right)	N/A
Additional Feature	Samsung 3D	N/A
	3D Converter	N/A
	Instant On	Yes
	Camera Built-in	N/A
	Wireless Copy	N/A
	Processor	Quad
	PX Ready	N/A
	21:9 Immersive Picture Mode	N/A
	SCSA Support	N/A
	Accessibility	Voice guide/ Enlarge/ High contrast
	Digital Clean View	Yes
	One Connect (Jack)	N/A
	Auto Channel Search	Yes
	Auto Power Off	Yes
	BD Wise Plus	Yes
	Caption (Subtitle)	Yes
	Channel List USB-Clone	N/A
	Connect Share™ (HDD)	Yes
	Connect Share™ Transfer	N/A
	ConnectShare™ (USB 2.0)	Yes
	AC/DC TV	N/A
	Sports Mode	Basic
	Embedded POP	Yes
	EPG	Yes
	Extended PVR	N/A
	Game Mode	Yes
	IP Video Closed Caption	Yes
	OSD Language	English, Spanish, French

2. Product specifications

Item		UN**J6300AFXZA
Additional Feature	Picture-In-Picture	Yes
	BT HID Built-in	Yes
	USB HID Support	Yes
	Feature Upgrade (Evolution Kit Ready)	N/A
	ATSC 3.0 Ready	N/A
	Teletext (TTXT)	N/A
	Time Shift	N/A
	Analog Clean View	N/A
	Ultra Clean View	Yes
Eco Feature	Energy Star	TBD
	Eco Sensor	Yes
Accessory	3D Active Glasses (Included)	N/A
	Remote Controller Model	TM1260C
	Batteries (for Remote Control)	Yes
	Samsung Smart Touch Control (Included)	N/A
	PX (Included)	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)	N/A
	Wireless Keyboard (Included)	N/A
	Wireless PC Mirroring Adaptor (Included)	N/A
	Composite to Scart Gender (Included)	N/A
	User Manual	Yes
	E-Manual	Yes
	ANT-Cable	N/A
	Power Cable	Yes
	Slim Gender Cable	N/A

2-3. Accessories

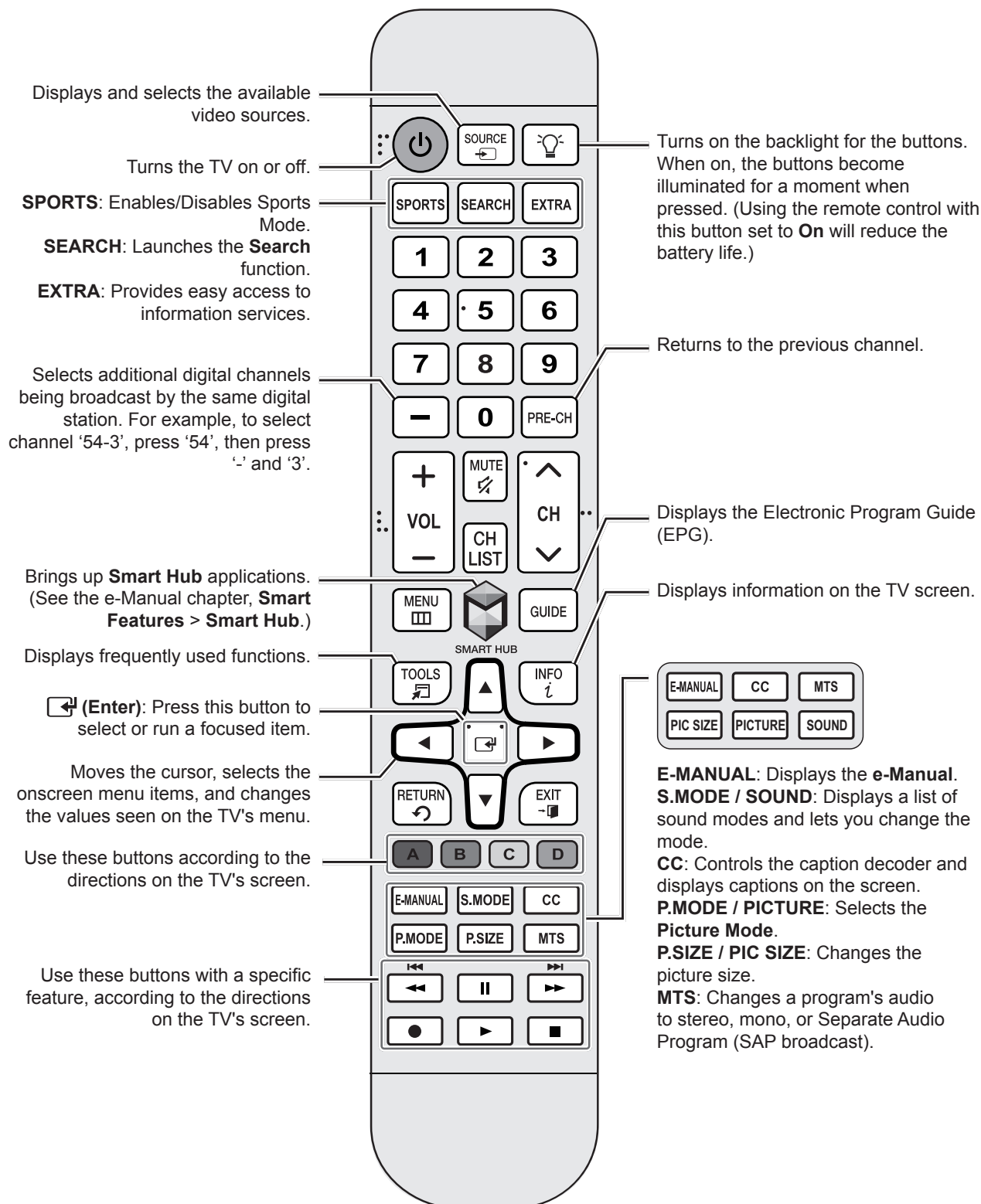
**NOTE**

- 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	BN59-01223A	• Power Cord	3903-000853
• Batteries (AAA x 2)	4301-000103	• User Manual	BN68-07150H

2-4. Viewing the Functions

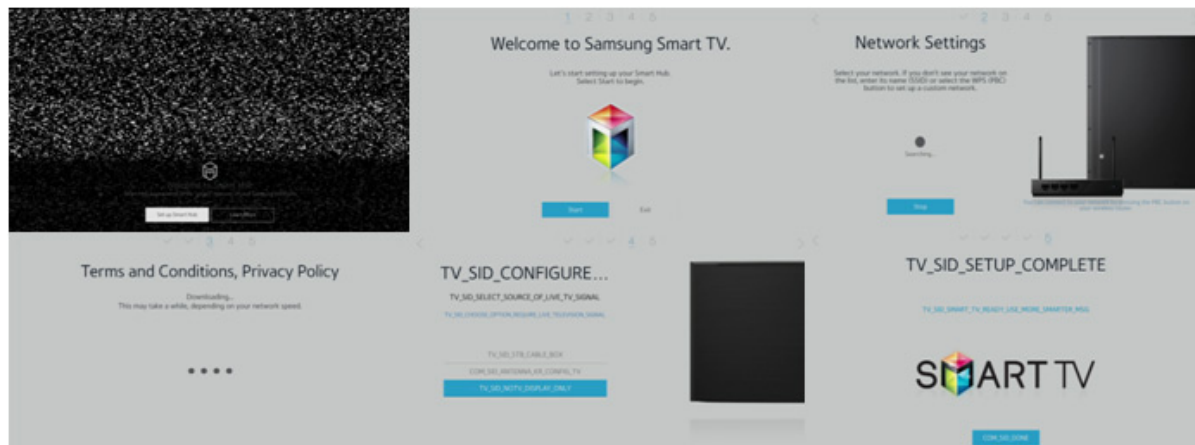
■ The Remote Control



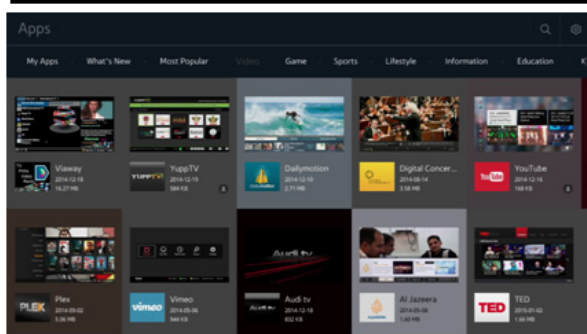
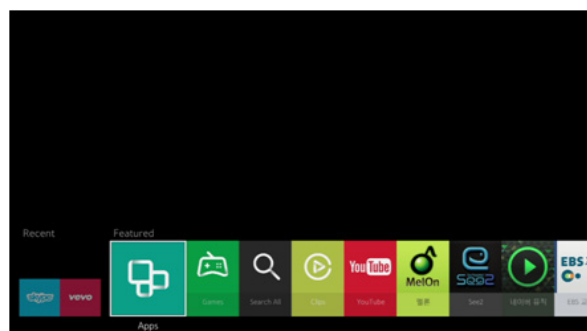
2-5. NEW Key Features

2-5-1. 15" New UI

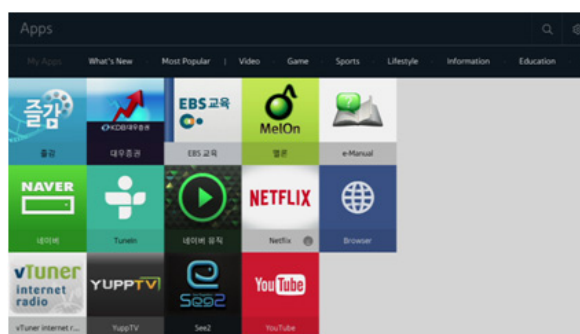
■ SMART HUB START



■ After Smart HUB setup



<Videos contents>



<My Apps>



<Web browser>



<My contents>

2-5-2. Instant On

■ Enabling the TV to Boot Faster

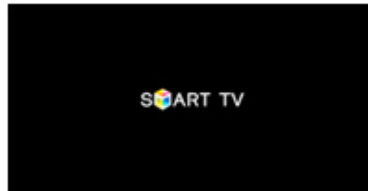
MENU > System > General > Samsung Instant On

Set Fast Boot on to have the TV boot up faster.

<Cold Boot>



Detachable power



SMART TV

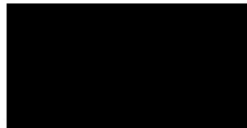


5.3sec

<Instant On>



Remocon on



1.3sec

2-6. Supported Formats

■ Supported Image resolution

File Extension	Type	Resolution
*.jpg *.jpeg	JPEG	15360x8640
*.png	PNG	4096x4096
*.bmp	BMP	4096x4096
*.mpo	MPO	15360x8640

■ Supported Music File Formats

File Extension	Type	Codec	Comments
*.mp3	MPEG	MPEG1 Audio Layer 3	-
*.m4a *.mpa *.aac	MPEG4	AAC	-
*.flac	FLAC	FLAC	Supports up to two channels.
*.ogg	OGG	Vorbis	Supports up to two channels.
*.wma	WMA	WMA	WMA 10 Pro supports up to 5.1 channels. WMA lossless audio is not supported. Supports up to M2 profile.
*.wav	wav	wav	-
*.mid *.midi	midi	midi	Type 0, type 1 and supported.
*.ape	ape	ape	-

- Sound or video may not work if they have standard bit rates/frame rates above the TV's compatibility.
- If the Index Table is wrong, the Seek (Jump) function does not work.
- When playing video over a network connection, the video may not play smoothly because of data
- Some USB/digital camera devices may not be compatible with the player.

■ Supported Video Code

File Formats	Container	Video Codecs	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec			
*.avi *.mkv *.asf *.wmv *.mp4 *.mov *.3gp *.vro *.mpg *.mpeg *.ts *.tp *.trp *.mov *.flv *.vob *.svi *.m2ts *.mts *.divx	AVI MKV ASF MP4 3GP MOV FLV VRO VOB PS TS SVAF	H.264 BP/MP/HP	4096x2160	UHD: MAX 30 FHD: MAX 30 HD : MAX 60 UHD: 60	60	AC3 LPCM ADPCM (IMA, MS) AAC HE-AAC WMA Dolby Digital Plus MPEG(MP3) DTS (Core, LBR) G.711(A-Law, μ-Law			
		Motion JPEG							
		HEVC(H.265)							
		DivX 3.11/4/5/6	1920x1080	FHD: 30 HD : 60	30				
		MPEG4 SP/ASP							
		Microsoft MPEG-4 v1 , v2 , v3							
		Window Media Video v7(WMV1), v8(WMV2)							
		Window Media Video v9(VC1)							
		MPEG2							
		MPEG1							
		VP6							
		H.263 Sorrenson							
		MVC			60				
		*.webm	WebM	VP8	1920x1080		6~30	20	Vorbis

■ Other Restrictions



NOTE

- Codecs may not function properly if there is a problem with the content data.
- Video content does not play or does not correctly if there is an error in the content or container.
- Sound or video may not work if they have standard bit rates/frame rates above the TV's compatibility.ratings
- If the Index Table is wrong, the Seek(Jump) function does not work.
- When playing video over a network connection, the video may not play smoothly because of datatransmission speeds.
- Some USB/digital camera devices may not be compatible with the player.

3. Disassembly and Reassembly

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



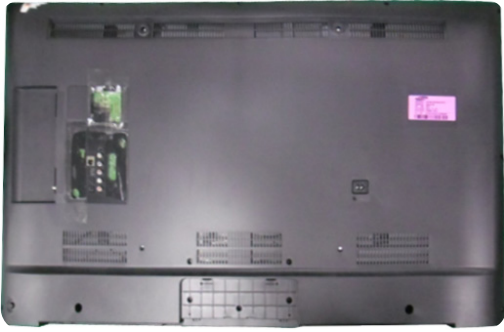
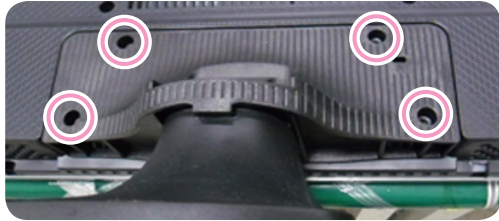


This LED TV contains electrostatically sensitive devices. Use caution when handling these components.

3-1. Disassembly and Reassembly





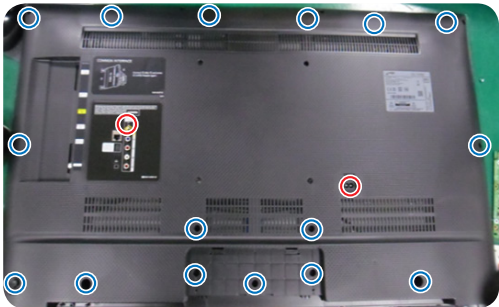
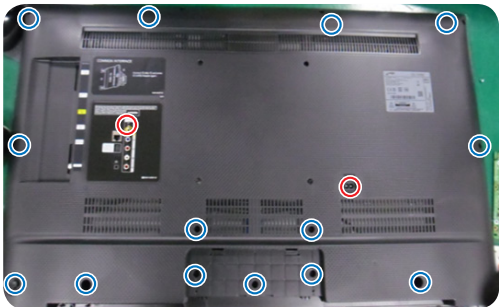
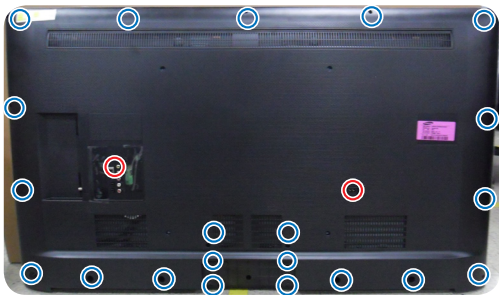


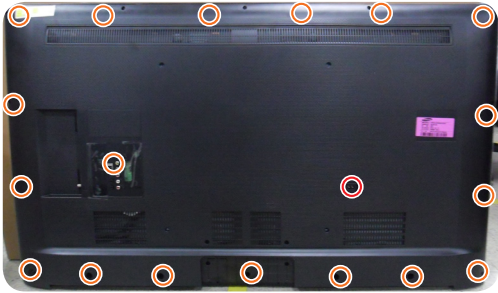

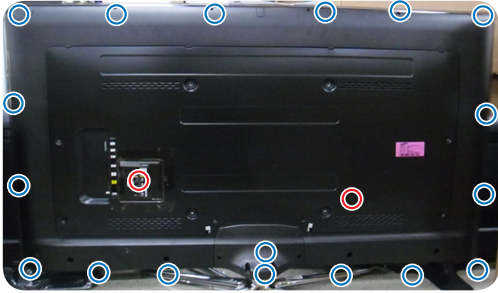
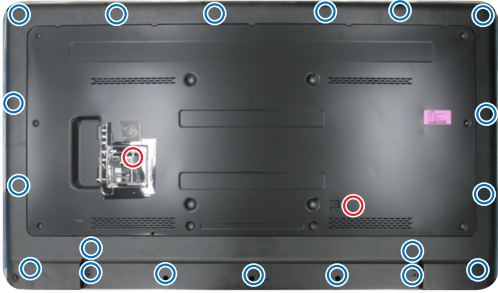
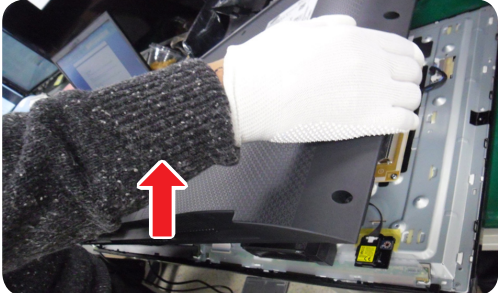
1. Disconnect the LED TV from the power source before disassembly.
2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.
3. If there is no additional coment, it is same for all inches.

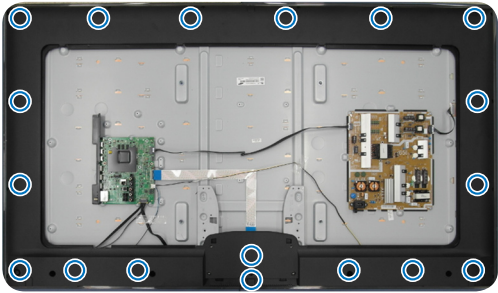
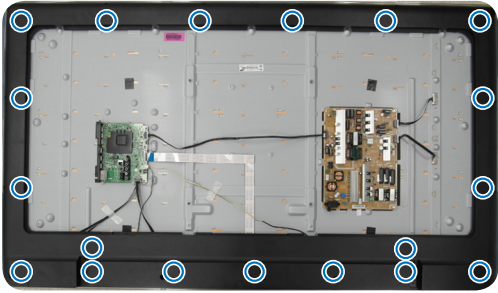



3-1-1. TV Disassembly

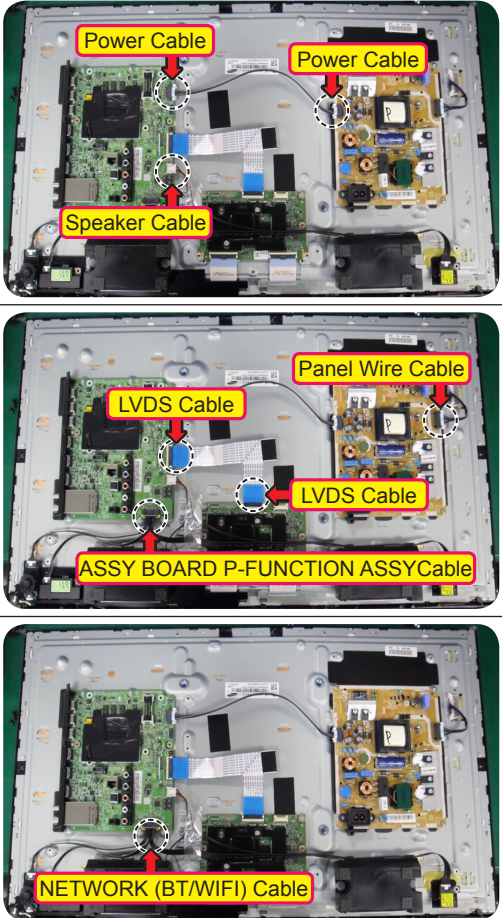
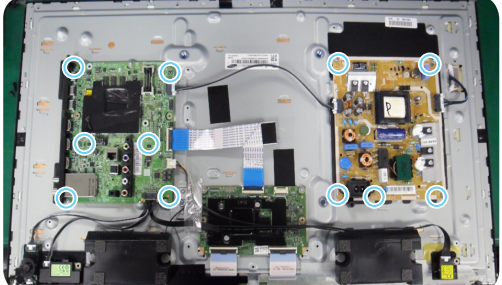

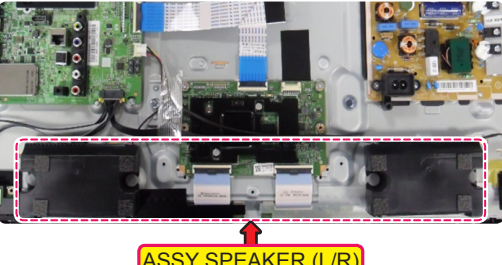
Description	Picture Description	Screws
1 Place TV face down on cushioned table.		
2 Remove 4 screws from the ASSY STAND P-BASE.		 6003-001782 (32")  BN61-09494D (40"/48"/50"/55"/ 60"/65") 6002-001294 (75")

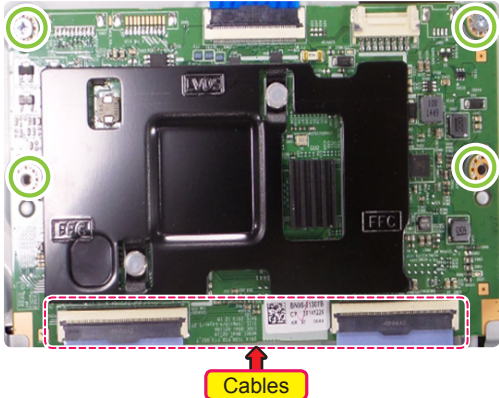


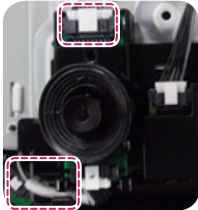

3. Disassembly and Reassemble


Description	Picture Description	Screws
<div>3</div> <div>Remove the screws of ASSY COVER P-REAR.</div> <div><div>• 32" : 11 EA / 1 EA</div><div>• 40" : 15 EA / 1 EA</div><div>• 48" : 16 EA / 2 EA</div><div>• 50" : 18 EA / 2 EA</div><div>• 55" : 20 EA / 2 EA</div></div>		<div></div> <div>6001-002755</div>
		<div></div> <div>6003-000003</div>
		
		
		

Description	Picture Description	Screws
<ul style="list-style-type: none">• 60" : 18 EA		 6003-001782 (60")
<ul style="list-style-type: none">• 65" : 6 EA / 2 EA		
<ul style="list-style-type: none">• 75" : 8 EA / 2 EA		
<div>4</div> Remove the ASSY COVER P-REAR.		

Description	Picture Description	Screws
<div>5</div> <div>Remove the screws of ASSY COVER MIDDLE. (Only 65"/75")</div> <div><div>• 65" : 18 EA</div><div>• 75" : 19 EA</div></div> <div>Remove the ASSY COVER MIDDLE.</div>	<div></div> <div></div>	<div></div> <div>6001-002755</div>
<div>6</div> <div>Remove the Electric tapes shown on the image.</div> <div><div>• EMI Point : After removing release paper from the LVDS Cable bottom, attach the LVDS Cable to the C/ Chassis and rub the attached surface.</div></div> <div><div> CAUTION</div><div>When assembling the TV, the electric tapes must be applied on the same locations.</div><div>Please remember to take a picture of where the tapes were first applied.</div></div>	<div></div>	

Description	Picture Description	Screws
<p>7 Remove the Power Cables and Speaker Cables.</p> <p>Remove the LVDS Cable, Panel Wire Cable and ASSY BOARD P-FUNCTION ASSY Cable.</p> <p>Remove the NETWORK (BT/WIFI) Cable.</p>		
<p>8 Remove the screws of ASSY PCB MAIN and DC VSS-LED TV PD BD.</p> <ul style="list-style-type: none"> ASSY PCB MAIN : 4 EA (32"/40"/48"/50"/55"/60"/65"), 6 EA (75") DC VSS-LED TV PD BD : 5 EA (32"/40"/48"/50"/55"/60"/65"), 5 EA (75") 		 6001-003016
<p>9 Remove the ASSY SPEAKER (L/R).</p>		

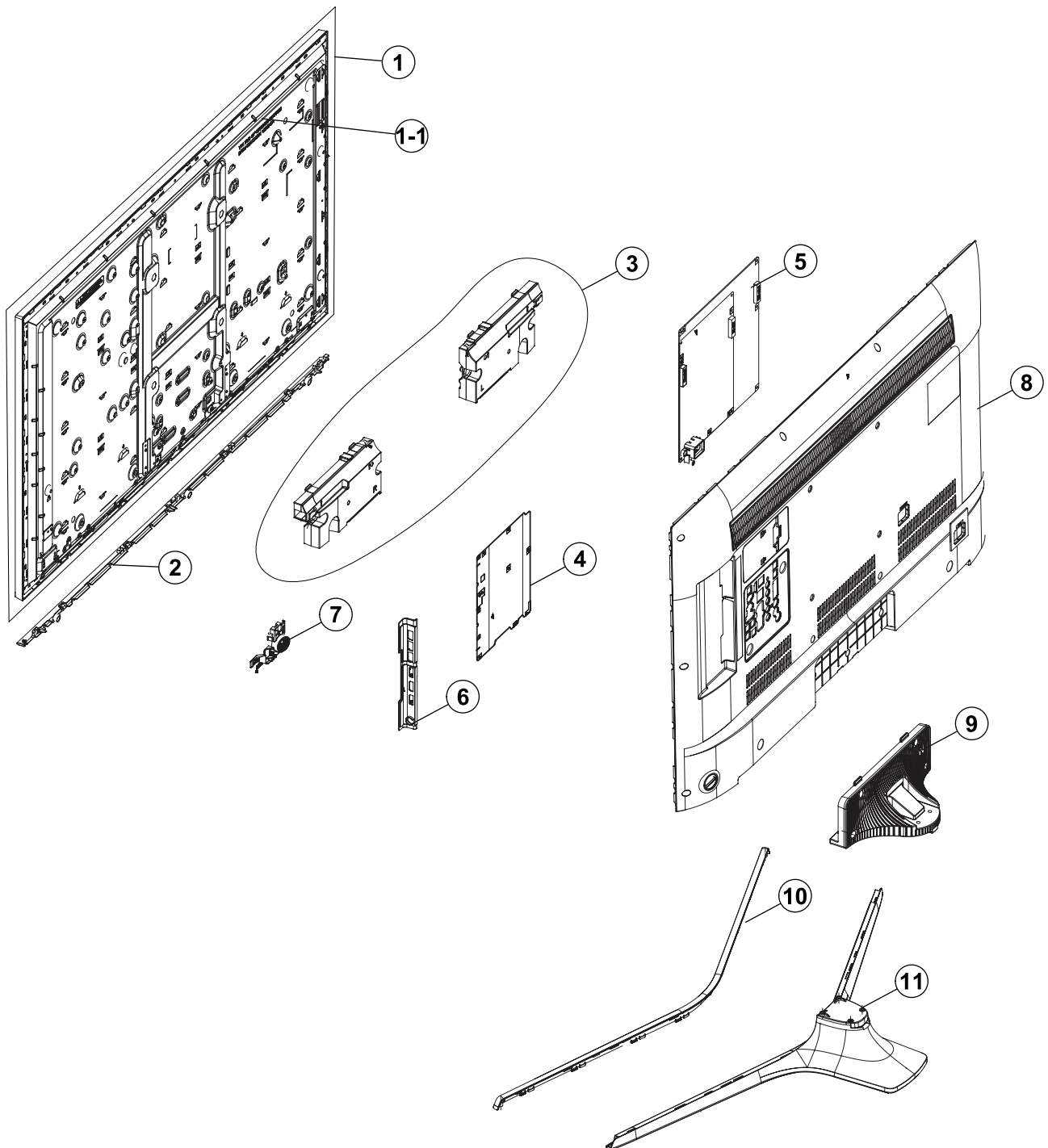
Description	Picture Description	Screws
10 Remove the cables and 2 screws from the ASSY T CON. Finally carefully remove the ASSY T CON.		 6001-003075
11 Remove the NETWORK (BT/WIFI).		
12 Remove the JOG/IR unit.		
13 Completed disassembly. <ul style="list-style-type: none">Panel		

 **NOTE**

Reassembly procedures are in the reverse order of disassembly procedures.

ANNEX. Exploded View & Part List [UN32J6300AFXZA TD01]

1-1. Exploded View



1-1-1. Parts List

No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
1	BN95-01326A	PRODUCT LCD-AMLCD; LSF320HJ02-G,CY-GH032C	1	SA	
1-1	BN96-30570D	ASSY CHASSIS TOP P; Y14 VNB 32 6.3K,BN64-	1	SA	
2	BN63-13945A	COVER-HOLDER; J6200 32",PC+ABS+GF15%,V1	1	SNA	
3	BN96-30336D	ASSY SPEAKER P; 6ohm,10W,Enclosure_J5.5K	1	SA	
4	BN94-08247D	ASSY PCB MAIN; LED_J6K	1	SA	
5	BN44-00700A	DC VSS-LED TV PD BD; L32S1_EDY,L32S1_EDY,	1	SA	
6	BN61-08813A	HOLDER-SIDE AV; UF6100, 55,HIPS,BK0020,HB	1	SNA	
7	BN96-30902C	ASSY BOARD P-FUNCTION ASSY; UH5500,Functi	1	SA	
8	BN96-36523A	ASSY COVER P-REAR; 32J6300,BN63-13933V,HI	1	SA	
9	BN96-30999E	ASSY GUIDE P-STAND; J5500 32,ABS,NON-EU	1	SA	
10	BN95-02139C	ASSY COVER STAND SMT; J5500 32,32,LIGHT T	1	SNA	
11	BN96-35221H	ASSY STAND P-BASE; J5500 32,ABS+PC,V0,1	1	SA	

2-1. Electrical Parts List

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

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
			UN32J6300AFXZA (TD01)			
1	S001A	BN90-06496A	ASSY STAND;J5000	1	SNA	
0.2	SG01A	BN96-30999E	ASSY GUIDE P-STAND;J5500 32,ABS,NON-EU	1	SA	
..3		6902-001063	BAG PE;LDPE,T0.05,W180,L350,TRP,RECYCLE	1	SNA	
..3	SG03	BN61-10357B	GUIDE-STAND;J5100/500 32",ABS,HB,BLK,NON	1	SNA	
..3		BN96-29120B	ASSY ACCESSORY-SCREW;BN69-09241B,6003-00	1	SNA	
...4	SCREW	6003-001782	SCREW-TAPTYPE;BH,+,B,M4,L12,ZPC(BLK),SWR	7	SA	
...4		6902-000341	BAG PE;LDPE,T0.05,L90,W70,TRP,,,PE MARK	1	SNA	
0.2	SB04A	BN96-35221H	ASSY STAND P-BASE;J5500 32,ABS+PC,V0,1	1	SA	
..3		0203-001602	TAPE-OPP MASKING;#232,0.14,15,50000,YEL	0	SNA	
..3		6902-002485	BAG PE;HDPE/PE FOAM,T0.015/T0.5,W100,L30	1	SNA	
..3		6902-002488	BAG PE;HDPE/PE FOAM,T0.015/T0.5,W200,L25	1	SNA	
..3		BN63-13257A	COVER-STAND BASE;Y15 F-LED J5100/5500 32	1	SNA	
..3		BN67-00398P	RUBBER-FOOT;RUBBER,SILICONE,15.5*8,2.5,G	5	SNA	
..3		BN68-05381A	LABEL-BASE;Art Paper 100G,T0.08,20mmX50m	1	SNA	
..3		BN95-02139C	ASSY COVER STAND SMT;J5500 32,32,LIGHT T	1	SNA	
...4		0204-006861	COATING;SMT-L100,CLEAR,0.928	3	SNA	
...4		BN01-00160A	TARGET-CHROMIUM-CY;Chromium target,99.95	1	SNA	
...4		BN01-00161A	TARGET-CHROMIUM-PL;chromium target,over	1	SNA	
...4		BN63-13261E	COVER-DECORATION STAND;J5500,ABS,HB,BLK,	1	SNA	
...4		BN63-14064B	SHEET-COVER;PE+PP,0.068,W30,CLEAR,100g/i	1	SNA	
...4		BN68-03682A	LABEL-STICKER;Label,20mm,10mm	1	SNA	
1	R001A	BN90-06523B	ASSY COVER REAR;LED_J6K	1	SNA	
0.2	SCREW	6001-002755	SCREW-MACHINE;BH,+,M3,L6,ZPC(BLK),SWRCH1	11	SA	
0.2	SCREW	6003-001782	SCREW-TAPTYPE;BH,+,B,M4,L12,ZPC(BLK),SWR	1	SA	
0.2	R001A	BN96-36523A	ASSY COVER P-REAR;32J6300,BN63-13933V,HI	1	SA	
..3	R001	BN63-13933V	COVER-REAR;J6200 32",HIPS,V0,BLK,US	1	SNA	
..3		BN68-07096Q	LABEL-TERMINAL SIDE;J6200,PET,0.03,14.7,	1	SNA	
1		BN90-06667A	ASSY W/I;LED_J6K	1	SNA	
0.2		BN81-08159Z	PART SET-ELEC W/I;UF**,UH**,UG**,ELEC	1	SNA	
0.2		BN81-11260Q	A/S PART SET-MECH W/I;UJ6L,U32JL*	1	SNA	
1		BN91-12034A	ASSY LCM-AMLCD;BN95-01326A,CY-GH032CSLV1	1	SNA	
0.2	PANEL	BN95-01326A	PRODUCT LCD-AMLCD;LSF320HJ02-G,CY-GH032C	1	SA	
..3	SCREW	6001-002757	SCREW-MACHINE;BH,+,M3,L4,ZPC(WHT),SWRCH1	2	SA	
..3		6001-002903	SCREW-MACHINE;CH,+,M3,L8,ZPC(BLK),SWRCH1	1	SNA	
..3		BN62-00502C	INSULATION-SOURCE PCB L;Y14 VNB 32,PC,0.	1	SNA	
..3		BN62-00502D	INSULATION-SOURCE PCB R;Y14 VNB 32,PC,0.	1	SNA	
..3	M0131	BN63-00520A	GASKET;APPOLO_PAL,Conductive Fabric,0.13	2	SNA	
..3		BN68-05595A	LABEL-STICKER;Art Paper 100G,T0.2,80mmX2	1	SNA	
..3		BN90-05184B	ASSY MISC-BLU;H6300 32",CY-GH032CSLV1V	1	SNA	
...4		BN02-00163A	TAPE ETC-SHEET FIXING;Y13 VNB,PET,0.1,W3	2	SNA	
...4		BN02-00352A	TAPE PET;Y12 F-LED,PET,T0.05,30,40,BLK,8	1	SNA	
...4		BN61-10113A	SUPPORT-PLATE;Y14 F-LED,PC,V2,WHT/CLEAR,	4	SNA	

ANNEX. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...4		BN61-10226A	LGP-DIFFUSESR PLATE;32inch Diffuser Plat	1	SNA	
...4		BN63-11544A	SHEET-COMPLEX;Y14 VNB 32" FHD DMOP/UTA11	1	SNA	
...4		BN63-11812A	SHEET-REFLECTOR;Y14 32inch, SY95S / 188X	1	SNA	
...4		BN96-30442A	ASSY LED BAR P;32inch FHD Dire,FCPkg,7ea	4	SA	
...4		BN96-30567E	ASSY CHASSIS BOTTOM P;Y14 VNB 32,BN64-02	1	SNA	
...5	SCREW	6001-002757	SCREW-MACHINE;BH,+,M3,L4,ZPC(WHT),SWRCH1	1	SA	
...5		BN02-00040C	TAPE DOUBLE FACE-D-PLATE;F-LED ALL,MKT50	2	SNA	
...5		BN02-00043D	TAPE ETC-SHEET FIXING;Y13 slim F-LED,PET	4	SNA	
...5		BN02-00074A	TAPE PET;CCFL 32"/40",3M1360NH(B),T0.05,	4	SNA	
...5		BN02-00324A	TAPE-METAL FOIL;Y14 4K,T0.085,W25,NTR,3M	0	SNA	
...5		BN02-00352A	TAPE PET;Y12 F-LED,PET,T0.05,30,40,BLK,8	3	SNA	
...5		BN61-10097A	HOLDER-MIDDLE(U);Y14 F-LED 32" (5K),PC+G	1	SNA	
...5		BN61-10114A	BRACKET-WALL MOUNT;Y14 F-LED 32",EGI-SEC	1	SNA	
...5		BN61-10146A	HOLDER-MIDDLE(LR);Y14 F-LED 32" (5K),PC+	2	SNA	
...5		BN61-10187A	HOLDER-MIDDLE(D);Y14 F-LED 32" (5K),PC+G	1	SNA	
...5		BN61-10207A	HOLDER-WALL RIVET;Y14 F-LED 32",SWRCH10A	3	SNA	
...5		BN62-00501J	INSULATION-PD BOARD;Y14 VNB 32" 6K,PC,0.	1	SNA	
...5	T0073	BN63-03871A	GASKET-EMI;58P9,Fabric,2,15,11	4	SNA	
...5	CC02	BN64-02515A	CHASSIS-BOTTOM;Y14 F-LED 32" (VNB),EGI-S	1	SNA	
...5		BN96-30415A	ASSY BOARD P-LED INTERFACE B'D;32inch FH	1	SNA	
...4		BN96-30568A	ASSY MISC P-MOLD MIDDLE;Y14 VNB 32,BN61-	1	SNA	
...5		BN60-00735L	SPACER-MIDDLE;Y14 VNB 32,PET,L262,NTR,T0	1	SNA	
...5		BN60-00735M	SPACER-MIDDLE;Y14 VNB 32,PET,L380,NTR,T0	1	SNA	
...5		BN60-00744A	SPACER-RUBBER;Y13 F-LED SLIM,SH-0140U+AT	2	SNA	
...5		BN60-00815P	SPACER-PANEL (UD);Y14 VNB 32,SI,L700,GRA	2	SNA	
...5		BN60-00816D	SPACER-PANEL (LR);Y14 VNB 32,SI,L399.3,G	2	SNA	
...5		BN61-10076A	FRAME-MOLD MIDDLE;Y14 F-LED 32" (5K),PC+	1	SNA	
..3		BN96-30046A	ASSY OPEN CELL;LSF320HJ02-G,8bit,32 INCH	1	SA	
...4		BN81-07434A	A/S-ADHESIVE-A.C.F(CP);ADHESIVE-A.C.F,1-	1	SNA	
...4		BN81-07943A	A/S-ADHESIVE-A.C.F(TP500B);ADHESIVE-A.C.	1	SNA	
...4		BN81-09604A	A/S-IC DRIVER SOURCE;IC DRIVER SOURCE,LJ	1	SNA	
...4		BN81-09605A	A/S-POLARIZER-TFT;POLARIZER-TFT,SMLK41FP	1	SNA	
...4		BN81-09606A	A/S-POLARIZER-C/F;POLARIZER-C/F,SMLK41FP	1	SNA	
...4		BN81-09619A	A/S-ASSY PCB-SOURCE(L);ASSY PCB-SOURCE(L	1	SNA	
...4		BN81-09620A	A/S-ASSY PCB-SOURCE(R);ASSY PCB-SOURCE(R	1	SNA	
..3		BN96-30142A	ASSY PCB P-TCON;LSF320HJ02-G,32F120Hz VN	1	SA	
...4		BN62-00371D	HEAT SINK-PS;F6000,A1050,BLACK,110*61.1*	1	SNA	
...4		BN62-00487A	HEAT SINK-ES;F6K,A6063,BLACK,18*14*4.4,t	1	SNA	
...4	T0527	BN68-00513A	LABEL-E,PASS;ALL MODEL,YUPO(110G),BLACK,	1	SNA	
...4		BN97-07972D	ASSY SMD;BN95-01307B	1	SNA	
...5		0202-001899	SOLDER-CREAM;M705-GRN360-K2-VT,20-38um,S	1	SNA	
...5		0404-001640	DIODE-SCHOTTKY;SS1060HEWS,60V,1000mA,SOD	1	SA	
...5		0404-001643	DIODE-SCHOTTKY;B360A,60V,3000mA,SMA,TP	1	SA	
...5		0406-001317	DIODE-TVS;SMAJ14A,15.6/-/17.2V,400W,SMA	2	SNA	
...5		0406-001445	DIODE-TVS;RClamp7512N,2.7/2.8/2.9,300W,S	2	SA	
...5		0406-001578	DIODE-TVS;P4SMAJ40A,44.4,51.1,400W,SMA	1	SA	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....5		0502-001331	TR-POWER;NSS30100LT1G,PNP,310mW,SOT-23,T	1	SA	
....5		0502-001345	TR-POWER;FCX491A,NPN,1000mW,SOT89,TR,900	2	SA	
....5		0502-001346	TR-POWER;FCX591A,PNP,1000mW,SOT89,TR,30/	2	SA	
....5		0505-002660	FET-SILICON;Si2308BDS,N,60V,2.3A,0.156oh	1	SNA	
....5		0505-003224	FET-SILICON;AO6405,P,-30V,-5A,0.052ohm,2	1	SA	
....5	EL02	0601-002037	LED;SMD(TOP VIEW),BLUE,1.6x0.8mm,465/470	3	SA	
....5		1105-002227	IC-DDR3 SDRAM;K4B1G1646G-BCK0,DDR3 SDRAM	1	SA	
....5		1203-006130	IC-POS.FIXED REG.:S-1172B25-U5T1G,SOT-8	1	SA	
....5		1203-007956	IC-DC/DC CONVERTER;RT6917,QFN,48P,6x6x1m	1	SNA	
....5		1203-007959	IC-DC/DC CONVERTER;RT6915,QFN,36P,6x6x0.	1	SNA	
....5		1203-008082	IC-DC/DC CONVERTER;TPS54627DDAR,SOP 8P,8	1	SA	
....5		1203-008103	IC-POS.FIXED REG.:S-13A1D15-E8001,HSOP,	1	SNA	
....5		1204-003472	IC-VIDEO PROCESS;SDP1209,PBGA-H,585P,23x	1	SA	
....5	IS01	1209-002183	IC-SENSOR;S-5851AAA-M6T1U,SOT,6Z30,2.9x1	1	SA	
....5		1404-001731	THERMISTOR-NTC;33Kohm,4050K,1mW/C,TP,1.6	1	SNA	
....5		1405-001381	VARISTOR;11V,8VDC,30A,1.6x0.8x0.9mm,TP,2	6	SA	
....5		1405-001382	VARISTOR;24.5V,16VDC,120A,2.0x1.25x1.1mm	2	SA	
....5		2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	6	SA	
....5		2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	3	SA	
....5		2007-000063	R-CHIP;150Kohm,1%,1/10W,TP,1608	1	SNA	
....5		2007-000066	R-CHIP;20Kohm,1%,1/10W,TP,1608	3	SNA	
....5		2007-000067	R-CHIP;15Kohm,1%,1/10W,TP,1608	2	SNA	
....5		2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	16	SA	
....5		2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	1	SA	
....5		2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	11	SA	
....5		2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	7	SA	
....5		2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	13	SA	
....5		2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	6	SA	
....5		2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	SNA	
....5		2007-000159	R-CHIP;56Kohm,5%,1/16W,TP,1005	1	SA	
....5		2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	2	SA	
....5		2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	10	SA	
....5		2007-000239	R-CHIP;1.5Kohm,1%,1/10W,TP,1608	1	SNA	
....5		2007-000265	R-CHIP;1.8Kohm,1%,1/10W,TP,1608	1	SA	
....5		2007-000336	R-CHIP;120Kohm,1%,1/10W,TP,1608	2	SA	
....5		2007-000455	R-CHIP;18Kohm,1%,1/10W,TP,1608	3	SA	
....5		2007-000491	R-CHIP;2.2Kohm,1%,1/10W,TP,1608	1	SA	
....5		2007-000614	R-CHIP;24Kohm,1%,1/10W,TP,1608	2	SNA	
....5		2007-000651	R-CHIP;27Kohm,1%,1/10W,TP,1608	1	SA	
....5		2007-000772	R-CHIP;33Kohm,1%,1/10W,TP,1608	2	SA	
....5		2007-000779	R-CHIP;33ohm,1%,1/10W,TP,1608	10	SA	
....5		2007-000803	R-CHIP;36Kohm,1%,1/10W,TP,1608	1	SA	
....5		2007-001007	R-CHIP;51Kohm,1%,1/10W,TP,1608	1	SA	
....5		2007-001125	R-CHIP;68Kohm,1%,1/10W,TP,1608	1	SA	
....5		2007-001139	R-CHIP;7.5Kohm,1%,1/10W,TP,1608	1	SA	
....5		2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	SA	

ANNEX. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....5		2007-001433	R-CHIP;12Kohm,1%,1/10W,TP,1608	1	SA	
....5		2007-002899	R-CHIP;10ohm,1%,1/10W,TP,1608	3	SA	
....5		2007-007136	R-CHIP;4.7Kohm,1%,1/16W,TP,1005	2	SNA	
....5		2007-007238	R-CHIP;8.25Kohm,1%,1/10W,TP,1608	1	SA	
....5		2007-007268	R-CHIP;0.39ohm,1%,1/4W,TP,2012	1	SNA	
....5		2007-007306	R-CHIP;100ohm,1%,1/16W,TP,1005	14	SNA	
....5		2007-007316	R-CHIP;3.3Kohm,1%,1/16W,TP,1005	2	SNA	
....5		2007-007431	R-CHIP;91Kohm,1%,1/10W,TP,1608	1	SA	
....5		2007-007517	R-CHIP;240ohm,1%,1/16W,TP,1005	3	SNA	
....5		2007-007651	R-CHIP;9.1Kohm,1%,1/10W,TP,1608	1	SA	
....5		2007-007733	R-CHIP;51ohm,1%,1/10W,TP,1608	5	SA	
....5		2007-007736	R-CHIP;510Kohm,1%,1/10W,TP,1608	3	SA	
....5		2007-007766	R-CHIP;2Kohm,1%,1/16W,TP,1005	2	SA	
....5		2007-008622	R-CHIP;0.47ohm,1%,1/10W,TP,1608	1	SNA	
....5		2007-010998	R-CHIP;0.3ohm,1%,1/8W,TP,1608,0.45	1	SNA	
....5		2011-001264	R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,2.	6	SNA	
....5	AD480	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,TP,1608	1	SA	
....5	AD480	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	1	SA	
....5	AD480	2203-000332	C-CER,CHIP;0.012nF,5%,50V,COG,TP,1608	2	SA	
....5	AD480	2203-000357	C-CER,CHIP;0.15nF,5%,50V,COG,TP,1608	1	SA	
....5	AD480	2203-000489	C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1005	2	SA	
....5	AD480	2203-001697	C-CER,CHIP;0.082nF,5%,50V,NP0,TP,1608	2	SNA	
....5	AD480	2203-002711	C-CER,CHIP;100nF,10%,25V,X7R,TP,1608	5	SA	
....5	AD480	2203-003019	C-CER,CHIP;8.2nF,10%,50V,X7R,TP,1005	1	SNA	
....5	AD480	2203-005138	C-CER,CHIP;1.8nF,10%,50V,X7R,TP,1005	3	SA	
....5	AD480	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	3	SNA	
....5	AD480	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,1005	5	SA	
....5	AD480	2203-006088	C-CER,CHIP;330nF,10%,10V,X7R,TP,1608	1	SA	
....5	AD480	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,TP,1005,0.5	59	SA	
....5	AD480	2203-006320	C-CER,CHIP;2200nF,10%,16V,X7R,TP,2012	1	SNA	
....5	AD480	2203-006324	C-CER,CHIP;2200nF,10%,10V,X5R,TP,1608	2	SA	
....5	AD480	2203-006460	C-CER,CHIP;2200nF,10%,16V,X5R,TP,1608,-	2	SA	
....5	AD480	2203-006474	C-CER,CHIP;22000nF,20%,6.3V,X5R,TP,2012	17	SA	
....5	AD480	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	4	SNA	
....5	AD480	2203-006698	C-CER,CHIP;1000nF,10%,25V,X7R,TP,1608,0.	4	SA	
....5	AD480	2203-006841	C-CER,CHIP;1000nF,10%,16V,X5R,TP,1005	1	SNA	
....5	AD480	2203-006844	C-CER,CHIP;470nF,10%,10V,X5R,TP,1005	2	SA	
....5	AD480	2203-006890	C-CER,CHIP;10000nF,20%,6.3V,X5R,TP,1608	4	SNA	
....5	AD480	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012,1	25	SNA	
....5	AD480	2203-007306	C-CER,CHIP;10000nF,10%,25V,X5R,TP,2012,1	21	SNA	
....5	AD480	2203-007513	C-CER,CHIP;10000nF,10%,10V,X5R,TP,1608,0	13	SA	
....5		2703-003713	INDUCTOR-SMD;1.5uH,20%,7366,0.015ohm,700	1	SA	
....5		2703-003747	INDUCTOR-SMD;22uH,20%,6060,0.135ohm,1300	3	SA	
....5		2703-003862	INDUCTOR-SMD;10uH,20%,6060,0.065ohm,1900	1	SA	
....5		2703-004199	INDUCTOR-SMD;10uH,20%,6.6x7.0mm,2.2mm,0.	1	SNA	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...5		2703-004847	INDUCTOR-SMD;4.7uH,20%,3838,1.8T,0.075Oh	1	SA	
...5		2801-005324	CRYSTAL-SMD;27MHz,30ppm,Ceramic SMD(4pin	1	SA	
...5		2901-001362	FILTER-EMI/ESD;5.5V,0A,50pF,2.05x1.25x0.	3	SNA	
...5		3301-002039	BEAD-SMD;26ohm,1608,TP	21	SA	
...5		3601-001386	FUSE-SURFACE MOUNT;125V,5A,FAST-ACTING,C	1	SA	
...5		3708-003073	CONNECTOR-FPC/FFC/PIC;51P,0.5mm,SMD,AU,N	1	SA	
...5		3708-003176	CONNECTOR-FPC/FFC/PIC;68P,0.5mm,SMD-A,AU	2	SA	
...5	EH01	3711-005601	HEADER-BOARD TO CABLE;BOX,8P,1R,2mm,SMD-	1	SA	
...5		6302-001290	GASKET;SMR-TS-4-4.5-3,4.0mm,Ni+Au+SUS+Mg	4	SNA	
...5		BN41-02110A	PCB-T CON;2014 FHD 120Hz,FR-4,4,1.2T,150	1	SNA	
...5		BN68-04746A	LABEL-SMD;all model,POLY*,25.4mm x 9.53m	1	SNA	
...5		BN97-08161G	ASSY MICOM-BN95-01307B;H32A1F610_3119_51	1	SNA	
....6		1107-002224	IC-FLASH MEM. MODULE;W25X40CLSSIG,4Mbit,	1	SNA	
..3	TC01A	BN96-30570D	ASSY CHASSIS TOP P;Y14 VNB 32 6.3K,BN64-	1	SA	
...4		BN60-00930C	SPACER-TOP(UD);Y14 NNB/VNB 32",GASKET+PE	2	SNA	
...4		BN60-00930D	SPACER-TOP(LR);Y14 NNB/VNB 32",GASKET+PE	2	SNA	
...4		BN60-01076A	SPACER-GASKET;Y14,CONDUCTIVE FABRIC,L16,	3	SNA	
...4	AS080	BN63-07229T	SHEET-COVER;Y12 F-LED,SI,T0.052,W 18mm,1	2	SNA	
...4		BN63-07229W	SHEET-COVER;UE8000,PET+SI,T0.052,W27mm,1	2	SNA	
...4	FW04	BN64-02480A	WINDOW-RMC;UH5500 40",PC,V2,Violet, T25%	1	SNA	
...4	AC157	BN64-02492D	CHASSIS-TOP;Y14 F-LED 32" (6.3K),PC+ABS+	1	SNA	
...4		BN68-06250B	LABEL-TPC MODEL;H6300/6350,ART PAPER*100	1	SNA	
..3	OC-TC	BN96-30720B	ASSY CABLE P-FFC;H5000,FFC,No housing ty	2	SNA	
1	M0017	BN91-14265A	ASSY CHASSIS;LED_J6K	1	SNA	
0.2	M0014	BN94-08247D	ASSY PCB MAIN;LED_J6K	1	SA	
..3		BN61-08813A	HOLDER-SIDE AV;UF6100, 55,HIPS,BK0020,HB	1	SNA	
..3	AH020	BN62-00724A	HEAT SINK;AL,1.5T,83.48mm,71.92mm,BLACK,	1	SNA	
..3	AH020	BN62-00725A	HEAT SINK;AL,2T,73mm,60mm,BLACK,TAPE	1	SNA	
..3	T0527	BN68-00513A	LABEL-E,PASS;ALL MODEL,YUPO(110G),BLACK,	1	SNA	
..3		BN97-09470A	ASSY DRM;MAC, MIRACAST HDCP	1	SNA	
...4		BN46-00109H	KEY CODE-CERTIFI;MAC,TV/AV,General	1	SNA	
...4		BN46-00110P	KEY CODE-CERTIFI;MIRACAST(HDCP2.2), TV	1	SNA	
..3		BN97-09529A	ASSY SMD;J6K	1	SNA	
...4		0202-001899	SOLDER-CREAM;M705-GRN360-K2-VT,20-38um,S	4	SNA	
...4	DS01A	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA	
...4		0403-001783	DIODE-ZENER;BZB84-C6V2,5.8/6.6V,300mW,SO	3	SNA	
...4		0404-001404	DIODE-SCHOTTKY;BAT721C,40V,200mA,SOT-23,	8	SA	
...4		0406-001200	DIODE-TVS;RCLAMP0504F,6/-/-V,150W,SC-70	3	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	7	SA	
...4		0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	3	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,	2	SA	
...4		0505-003507	FET-SILICON;AO3424,N,30V,3.8A,1.4W,SOT-2	4	SA	

ANNEX. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...4		0801-003330	IC-CMOS LOGIC:Octal buffer,DQFN,20P,4.5x	1	SA	
...4		1001-001872	IC-ANALOG SWITCH;NLA52750MUTAG,Dual SPDT	1	SA	
...4		1006-001576	IC-DRIVER/RECEIVER;MAX3221ECPWR,TSSOP,16	1	SA	
...4		1103-001564	IC-EEPROM;S-24C512CI-J800,512Kbit,64Kx8,	1	SA	
...4		1105-002528	IC-DDR3 SDRAM;K4B4G1646D-BCMA,DDR3 1866,	3	SA	
...4		1201-003891	IC-AUDIO AMP;NTP7415,MLF,48P,7x7mm,DUAL,	1	SA	
...4		1203-004364	IC-VOL. DETECTOR;RT9818C-42PV,SOT-23,3P,	1	SA	
...4		1203-006330	IC-POWER SUPERVISOR;TPS2065DBV,SOT-23,5P	1	SA	
...4		1203-007018	IC-DC/DC CONVERTER;TPS54821RHL,QFN,14P,3	1	SA	
...4		1203-007238	IC-PWM CONTROLLER;TPS54427,DDA,8P,4.8x3.	1	SNA	
...4		1203-007700	IC-DC/DC CONVERTER;TPS54527DDAR,DDA,8Z30	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		1203-008112	IC-POSI.ADJUST REG.;AOZ2002PI,SO-8,8P,4.	1	SA	
...4		1203-008183	IC-DC/DC CONVERTER;AOZ3015PI-1,EPAD SO-8	1	SA	
...4		1203-008392	IC-VOL. DETECTOR;S-6414AAB-L800X,TSOT-23	1	SA	
...4		1203-008393	IC-DDR TERMINATION REG.;AP2303MTR-G1-89,	1	SA	
...4		1203-008405	IC-DC/DC CONVERTER;AOZ3103DI,DFN3X3,8P,3	2	SA	
...4		1203-008454	IC-DC/DC CONVERTER;TPS56528,HSOP8,8P,4,8	1	SA	
...4		1204-003586	IC-DECODER;SDP1415,PBGA,631P,23x23mm,PLA	1	SA	
...4		1205-004983	IC-SWITCH;BD82032FVJ,TSSOP-B8J,8P,3.0x4.	3	SA	
...4		1405-001271	VARISTOR;35V,20Vdc,5A,1.0x0.5x0.6mm,TP,1	17	SA	
...4		2007-000137	R-CHIP;2Kohm,5%,1/16W,TP,1005	16	SNA	
...4		2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	41	SA	
...4		2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	22	SNA	
...4		2007-000166	R-CHIP;300Kohm,5%,1/16W,TP,1005	1	SA	
...4		2007-000170	R-CHIP;1Mohm,5%,1/16W,TP,1005	1	SA	
...4		2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	25	SA	
...4		2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	26	SA	
...4		2007-000695	R-CHIP;3.3ohm,5%,1/10W,TP,1608	4	SNA	
...4		2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005	3	SA	
...4		2007-001116	R-CHIP;680ohm,1%,1/10W,TP,1608	1	SA	
...4		2007-001125	R-CHIP;68Kohm,1%,1/10W,TP,1608	1	SA	
...4		2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	5	SA	
...4		2007-001308	R-CHIP;200ohm,5%,1/16W,TP,1005	5	SNA	
...4		2007-001313	R-CHIP;330ohm,5%,1/16W,TP,1005	1	SNA	
...4		2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005	10	SNA	
...4		2007-007132	R-CHIP;15Kohm,1%,1/16W,TP,1005	4	SA	
...4		2007-007134	R-CHIP;39Kohm,1%,1/16W,TP,1005	1	SA	
...4		2007-007135	R-CHIP;18Kohm,1%,1/16W,TP,1005	2	SNA	
...4		2007-007136	R-CHIP;4.7Kohm,1%,1/16W,TP,1005	5	SNA	
...4		2007-007138	R-CHIP;27Kohm,1%,1/16W,TP,1005	2	SA	
...4		2007-007139	R-CHIP;47Kohm,1%,1/16W,TP,1005	3	SA	
...4		2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	25	SA	
...4		2007-007306	R-CHIP;100ohm,1%,1/16W,TP,1005	15	SNA	
...4		2007-007307	R-CHIP;150ohm,1%,1/16W,TP,1005	1	SA	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...4		2007-007309	R-CHIP;12Kohm,1%,1/16W,TP,1005,0.35T	2	SA	
...4		2007-007311	R-CHIP;22Kohm,1%,1/16W,TP,1005	5	SA	
...4		2007-007312	R-CHIP;20Kohm,1%,1/16W,TP,1005	3	SA	
...4		2007-007313	R-CHIP;6.8Kohm,1%,1/16W,TP,1005	2	SA	
...4		2007-007316	R-CHIP;3.3Kohm,1%,1/16W,TP,1005	2	SNA	
...4		2007-007317	R-CHIP;2.2Kohm,1%,1/16W,TP,1005	1	SA	
...4		2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005	18	SA	
...4		2007-007431	R-CHIP;91Kohm,1%,1/10W,TP,1608	1	SA	
...4		2007-007470	R-CHIP;7.5Kohm,1%,1/16W,TP,1005	1	SNA	
...4		2007-007488	R-CHIP;75Kohm,1%,1/16W,TP,1005	1	SNA	
...4		2007-007517	R-CHIP;240ohm,1%,1/16W,TP,1005	4	SNA	
...4		2007-007528	R-CHIP;1.5Kohm,1%,1/16W,TP,1005	2	SA	
...4		2007-007766	R-CHIP;2Kohm,1%,1/16W,TP,1005	3	SA	
...4		2007-007861	R-CHIP;62Kohm,1%,1/16W,TP,1005	1	SA	
...4		2007-008015	R-CHIP;75ohm,1%,1/16W,TP,1005	14	SA	
...4		2007-008213	R-CHIP;4.3Kohm,1%,1/16W,TP,1005	3	SA	
...4		2007-008263	R-CHIP;3Kohm,1%,1/16W,TP,1005	2	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		2007-008429	R-CHIP;499ohm,1%,1/16W,TP,1005	1	SNA	
...4		2007-008485	R-CHIP;22ohm,1%,1/16W,TP,1005	14	SC	
...4		2007-008593	R-CHIP;750ohm,1%,1/16W,TP,1005	1	SA	
...4		2007-008779	R-CHIP;0ohm,1%,1/16W,TP,1005	4	SA	
...4		2007-009117	R-CHIP;49.9Kohm,1%,1/16W,TP,1005	1	SA	
...4		2007-009777	R-CHIP;4.99Kohm,1%,1/16W,TP,1005	1	SA	
...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	1	SNA	
...4		2011-001587	R-NETWORK;100ohm,5%,1/16W,L,CHIP-V,4P,TP	2	SA	
...4	AD480	2203-000233	C-CER,CHIP;0.1nF,5%,50V,COG,TP,1005	6	SA	
...4	AD480	2203-000278	C-CER,CHIP;0.01nF,0.5pF,50V,COG,TP,1005	4	SA	
...4	AD480	2203-000359	C-CER,CHIP;0.15nF,5%,50V,COG,TP,1005,0.5	3	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	2	SA	
...4	AD480	2203-000585	C-CER,CHIP;0.22nF,10%,50V,X7R,TP,1005	3	SA	
...4	AD480	2203-000627	C-CER,CHIP;0.022nF,5%,50V,COG,TP,1005	2	SNA	
...4	AD480	2203-000679	C-CER,CHIP;0.027nF,5%,50V,COG,TP,1005	2	SA	
...4	AD480	2203-000714	C-CER,CHIP;3.3nF,10%,50V,X7R,TP,1005	7	SA	
...4	AD480	2203-000812	C-CER,CHIP;0.033nF,5%,50V,COG,TP,1005	5	SA	
...4	AD480	2203-000854	C-CER,CHIP;0.039nF,5%,50V,COG,TP,1005	1	SA	
...4	AD480	2203-000940	C-CER,CHIP;0.47nF,10%,50V,X7R,TP,1005	2	SA	
...4	AD480	2203-000995	C-CER,CHIP;0.047nF,5%,50V,COG,TP,1005	3	SA	
...4	AD480	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,TP,1005	10	SNA	
...4	AD480	2203-003019	C-CER,CHIP;8.2nF,10%,50V,X7R,TP,1005	2	SNA	
...4	AD480	2203-005083	C-CER,CHIP;220nF,10%,50V,X7R,TP,1608,0.8	2	SA	
...4	AD480	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	13	SA	
...4	AD480	2203-005968	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1005,0.5	1	SNA	

ANNEX. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...4	AD480	2203-006126	C-CER,CHIP;47nF,10%,16V,X7R,TP,1005	2	SNA	
...4	AD480	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,TP,1005,0.5	124	SA	
...4	AD480	2203-006257	C-CER,CHIP;470nF,10%,6.3V,X5R,TP,1005,0.	1	SNA	
...4	AD480	2203-006348	C-CER,CHIP;1000nF,10%,25V,X5R,TP,1608,0.	7	SA	
...4	AD480	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	25	SNA	
...4	AD480	2203-006824	C-CER,CHIP;4700nF,10%,10V,X5R,TP,1608	2	SNA	
...4	AD480	2203-006838	C-CER,CHIP;2200nF,10%,6.3V,X5R,TP,1005	11	SA	
...4	AD480	2203-006890	C-CER,CHIP;10000nF,20%,6.3V,X5R,TP,1608	41	SNA	
...4	AD480	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012,1	4	SNA	
...4	AD480	2203-007240	C-CER,CHIP;22000nF,20%,6.3V,X5R,TP,1608(31	SA	
...4	AD480	2203-007269	C-CER,CHIP;22000nF,20%,10V,X5R,TP,2012(2	30	SA	
...4	AD480	2203-007513	C-CER,CHIP;10000nF,10%,10V,X5R,TP,1608,0	32	SA	
...4	AD480	2203-007544	C-CER,CHIP;100nF,10%,50V,X7R,TP,1005,0.5	64	SA	
...4		2503-001051	C-NETWORK;100nFx4,20%,16V,2012	1	SA	
...4		2703-000158	INDUCTOR-SMD;1uH,10%,2012,.4Ohm,50mA,45,	1	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	3	SA	
...4		2703-003713	INDUCTOR-SMD;1.5uH,20%,7366,0.015ohm,700	1	SA	
...4		2703-003937	INDUCTOR-SMD;1uH,20%,7.0x6.47x3.0mm,0.00	1	SA	
...4		2703-004724	INDUCTOR-SMD;8.2uH,20%,5050,4mm,0.072Ohm	4	SA	
...4		2703-005191	INDUCTOR-SMD;1.5uH,20%,6060,4.5,0.02ohm,	2	SA	
...4		2703-005192	INDUCTOR-SMD;4.7uH,20%,6060,4.5,0.036ohm	2	SA	
...4		2703-005194	INDUCTOR-SMD;3.3uH,20%,6060,4.5,0.03ohm,	1	SA	
...4		2801-004477	CRYSTAL-SMD;24.576MHz,20ppm,SMD,18pF,20o	1	SA	
...4		3301-000314	BEAD-SMD;120ohm,1608,TP,120ohm/100MHz	5	SNA	
...4		3301-001364	BEAD-SMD;1000ohm,1608,TP,1085ohm/108MHz,	2	SNA	
...4		3301-002039	BEAD-SMD;26ohm,1608,TP	42	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	1	SA	
...4		3701-001861	CONNECTOR-HDMI;19P,FEMALE,AU,0.5mm,BLK,S	3	SA	
...4		3707-001106	CONNECTOR-OPTICAL;STRAIGHT W/L,SPDIF	1	SA	
...4		3708-003073	CONNECTOR-FPC/FFC/PIC;51P,0.5mm,SMD,AU,N	1	SA	
...4		3711-007585	CONNECTOR-HEADER;BOX,4P,1R,2.5mm,ANGLE-D	1	SA	
...4	EH01	3711-008488	HEADER-BOARD TO CABLE;BOX,14P,2R,2mm,ANG	1	SA	
...4	EH01	3711-008558	HEADER-BOARD TO CABLE;BOX,26P,2R,1.25mm,	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	3	SA	
...4	JACK PIN	3722-003546	JACK-PIN;5P+Screw hole,NI+SN,G,Y/BLU/RED	1	SA	
...4		3722-003617	JACK-PHONE;14P/2C,SN,BLK,STRAIGHT,3.6PI,	1	SA	
...4		6302-001376	GASKET;D-Q43-14-180,6mm,SI	1	SNA	
...4	ET01	BN40-00312B	TUNER;GVTH-5B31,GVTH-5B31,VSB-half,75ohm	1	SA	
...4		BN41-02353A	PCB MAIN;J6300/J5500,Hawk_M_FHD_W/W,FR-4	1	SNA	
...4		BN68-04746A	LABEL-SMD;all model,POLY*,25.4mm x 9.53m	1	SNA	
...4		BN97-09451A	ASSY MICOM;T-HKMFACUC-XXXX	1	SNA	
...5		1107-002341	IC-EMMC;THGBMBG5D1KBAIT,4GB,BGA,153P,11x	1	SNA	
...4		BN97-09455A	ASSY MICOM;HMMICOM_FHD_US	1	SNA	

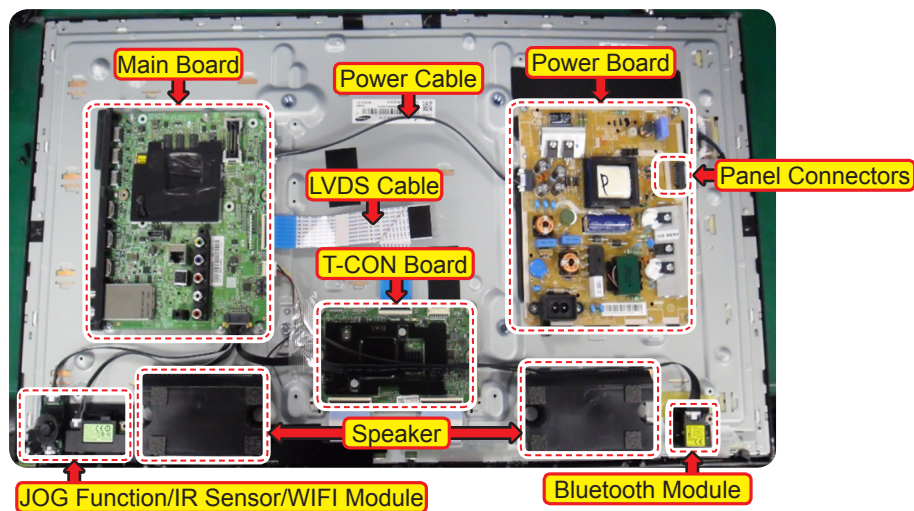
Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....5		1107-002226	IC-NOR FLASH;W25Q40CLSSIP,4Mbit,SOIC,8P,	1	SA	
1		BN91-14346A	ASSY SHIELD;LED_J6K	1	SNA	
0.2	SCREW	6001-003016	SCREW-MACHINE;PWH,+,M3.0,L5.0,ZPC(WHT),S	10	SA	
0.2		BN02-00102B	TAPE-FILAMENT;#8917,0.15,25,50,WHITE	0	SNA	
0.2	EC13	BN39-01884C	LEAD CONNECTOR;UN28H4200AF,Lead Connecto	1	SA	
0.2		BN39-02001A	LEAD CONNECTOR-FUNTION;32J5500,Flat Conn	1	SA	
0.2	EC13	BN39-02036E	LEAD CONNECTOR;32J5500,Flat Connector,UL	1	SA	
0.2	P001A	BN44-00700A	DC VSS-LED TV PD BD;L32S1_EDY,L32S1_EDY,	1	SA	
0.2	WIFI	BN59-01174D	NETWORK-WIFI MODULE;WIDT-30Q,Internal Wi	1	SA	
0.2	HOLDER-LED SCREW	BN61-09175B	SCREW-MACHINE;BH,+,M3,L10,ZPC(WHT),SWRCH	2	SA	
0.2		BN63-13945A	COVER-HOLDER;J6200 32",PC+ABS+GF15%,V1	1	SNA	
0.2		BN96-30218F	ASSY BOARD P-BT MODULE;BT Module + Holde	1	SA	
0.2	SP01A	BN96-30336D	ASSY SPEAKER P;6ohm,10W,Enclosure_J5.5K	1	SA	
0.2	FB01A	BN96-30902C	ASSY BOARD P-FUNCTION ASSY;UH5500,Functi	1	SA	
..3	JOG	BN96-30902A	ASSY BOARD P-JOG SWITCH PBA;UH5000,Funct	1	SNA	
..3	IR	BN96-30904A	ASSY BOARD P-IR PBA;UH5500,Function Assy	1	SNA	
0.2	FL06	BN96-31530F	ASSY CABLE P-FFC;UN32H6350AFXZA,FFC,NH,2	1	SA	
1		BN92-17066A	ASSY BOX;LED_J6K	1	SNA	
0.2		BH68-00697A	LABEL BOX-00;ALL MODEL,ART PAPER 90G,60,	1	SNA	
0.2		BN69-12017B	BOX UNIT;32J6300-VS,CB,A-01,SW2,W891,D11	1	SNA	
1		BN92-17127A	ASSY LABEL;LED_J6K	1	SNA	
0.2		BN68-05050A	LABEL RATING;ALL,SS,PET,T0.05,93,73,Dark	1	SNA	
0.2		BN68-07054J	LEAFLET-QSG;J6300,United States,ART*	1	SNA	
0.2		BN68-07113U	LABEL ENERGY;UN32J6300AFXZA,ZP,PET,T0.1,	1	SNA	
0.2		BN74-00053G	TAPE-PAPER;PAPER,3M2307,0.14T,W10,60M,WH	0	SNA	
1		BN92-17128A	ASSY P/MATERIAL;LED_J6000	1	SNA	
0.2		6902-002380	BAG ROLL;HDPE/PE FOAM+HDPE,T0.015/T0.5+T	2	SNA	
0.2		6922-000013	BAND;PP,W18,L2300/L2900,TRP	1	SNA	
0.2		BH69-00418A	WRAP;762,1828M,SAMEX FACTORY	759	SNA	
0.2		BN02-00319B	TAPE OPP;OPP,T0.05,W75,L800m,CLEAR	2	SNA	
0.2		BN68-02422B	LABEL-WARNING SHIPPING;ALL MODEL,A/P,T0.	1	SNA	
0.2		BN69-11438A	PAD-ENGLE;all LED,PAPER,T3.5,2440,50,Yel	1	SNA	
0.2		BN69-11801A	CUSHION-SET;J6200 32",EPS,16.7g/l	1	SNA	
1	ACCE1	BN92-17153A	ASSY ACCESSORY;LED_J6K	1	SNA	
0.2		BN96-35674A	ASSY ACCESSORY MANUAL/CABLE;LED_J6K	1	SNA	
..3	T0268	3903-000853	CBF-POWER CORD;DT,UL/CSA,LP-11L,125V,7A,	1	SA	
..3		4301-000103	BATTERY-ALKALINE;1.5V,750mAH,LR03,10.2x4	2	SNA	
..3		6902-001962	BAG PE;LDPE,BIOBASED,T0.05,W400,L300,TRP	1	SNA	
..3		BN59-01223A	REMOCON-REMOCON;TM1260C,52,3.0V,TM1260C_	1	SA	
..3	HOLDER-WIRE	BN61-08370A	HOLDER-WIRE STAND;26UE4000 GUIDE STAND,P	1	SA	
..3		BN68-04972E	LEAFLET-03,REGULATORY GUIDE;ALL,SAMSUNG,	1	SNA	
..3		BN68-05723A	LABEL-ACCESSORY;ALL MODELS,YUPO,0.2,20,7	1	SNA	
..3		BN68-07150A	MANUAL USERS;J6300,United States,S/W*	1	SNA	

4. Troubleshooting

4-1. Troubleshooting

4-1-1. Previous Check




■ Check list for initial operation



4-2. How to Check Fault Symptom

4-2-1. Video

■ Customer Picture Test

Main Board	Pre FRC	Post FRC	Problem
			
Pass	Pass	Pass	Check Signal Source and other inputs
Fail	Pass	Pass	Main Board or LVDS Cable
Fail	Fail	Pass	T-Con or Board
Fail	Fail	Fail	T-Con or Panel

■ MAIN / FRC / T-CON

Troubleshooting

CHECK TEST PATTERNS

1

Verify "Scaler Pattern".

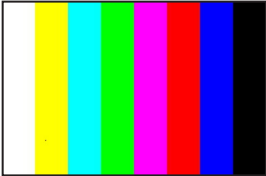
2

Verify "US Post Pattern".

3

Verify "FRC Post Pattern".

ENTER : Factory mode → SVC → Info → Pattern



1

Scaler Pattern

Main Board

HAWK-MF

↔ LVDS ↔

4

SoC TCON Test Pattern
(Not available for UHD Models)

Tcon BOARD

T-CON

FRC

2

US Post Pattern

3

FRC Post Pattern

FRC Pre Pattern

FRC Post Pattern

FRC2 Pre Pattern

FRC2 Post Pattern

FRC OSD Pre Pattern

FRC OSD Post Pattern

SOC TCON Pattern

SOC TCON Pattern Level

SOC TCON FRC Pattern

SOC TCON2 Pattern

SOC TCON2 Pattern Level

SOC TCON2 FRC Pattern

Troubleshooting**Video Test**

- ❶ Power TV ON.
- ❷ Verify initial Start Up Screens with Power On.
- ❸ Press Mute 147 Mute to view Pattern from the **MAIN Board**.
- ❹ Press Mute 369 Mute to view Pattern from **T-CON Board**.



4-2-2. Bluetooth / WIFI Module

■ Bluetooth Module

Troubleshooting

- 1 Check **Bluetooth Address** at [Contact Samsung](#).

-Wired MAC Address: c4:57:6e:da:d2:94
 -Wireless MAC Address: BC:14:85:4B:E5:C6
 -Bluetooth Address: BC:14:85:57:97:8C → ✓ BT Address

- 2 Check **BT Version** at [Factory Mode](#) screen.

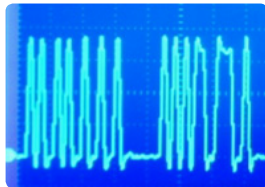
– Might require upgrade. Check GSPN.

T-HKMFAKUC-xxxx (T-HKMFUABC-xxxxx : AG***)
 T-HKMFAKUC-xxxx
 tztv-2.2.1-hawk-m-fhd_2015*****

 BT Version : xxxx → ✓ BT Version
 E-Manual : HMFxxxx-****
 Camera Version : Not Support
 Blaster Version :Not Support

- 3 Check the BT Connector voltage.

– If the DC voltage supply is missing, check the **cable** and the **Main Board**.



BT Signal
(4V P-P)



Pins	1	2	3	4	5	6	7	8	9	10
Standby	0	3.3Vdc	0	0	0V	0	5	3.3Vdc	0	3.3Vdc
Power ON	3.3Vdc	3.3Vdc	0	0	2V BT Sig. 4V P-P	1V BT Sig. 4V P-P	5	3.3Vdc	3.3Vdc	3.3Vdc

- All Measurements in the Chart are DC Volts with Multi Meter.
- Bluetooth Sig. & Sync Pulse are effective DC Readings.

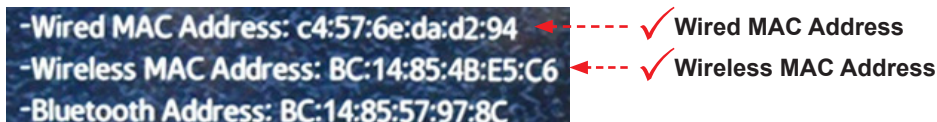


Voltage is normal, but BT Sig. pins (DC Ref.) If you do not measure, BT Module can possibly defective.

■ WIFI Module

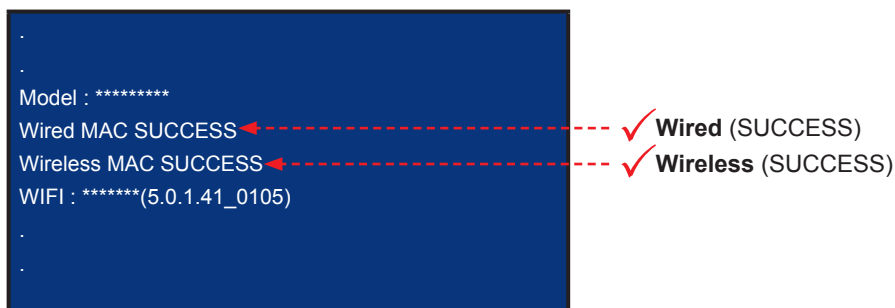
Troubleshooting

- 1 Check **Bluetooth Address** at [Contact Samsung](#).



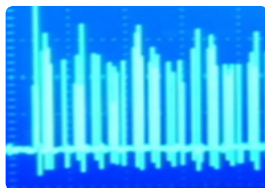
- 2 Check **BT Version** at [Factory Mode](#) screen.

- Might require upgrade. Check GSPN.



- 3 Check the BT Connector voltage.

- If the DC voltage supply is missing, check the **cable** and the **Main Board**.



Wi-Fi Signal
(500mv P-P)



Pins	1	2	3	4	5	6
Standby	0	0	0	0	.8	0
Power ON	0	.04Vdc Wi-Fi Sig.	.04Vdc Wi-Fi Sig.	5.3Vdc	3.3Vdc	3.3Vdc

- All Measurements in the Chart are DC Volts with Multi Meter.



Voltage is normal, but BT Sig. pins (DC Ref.) If you do not measure, BT Module can possibly defective.

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**J6300AFXZA

Inches		32"	40"	48"	50"
PANEL	Vendor	SEC	SEC	KOHS	AUO
	Code	BN95-01326A	BN95-01318A	BN95-01319A	BN07-01361E
	Spec.	CY-GH032CSLV1H/V	CY-GH040CSLV1V	CY-GH048CSLV1V	GH050CSA-B3
SMPS BOARD	Vendor	DYREL	SEM	SEM	HANSOE
	Code	BN44-00700C	BN44-00703G	BN44-00703G	BN44-00704E
	Spec.	L32S1_FDY	L48S1_FSM	L48S1_FSM	L55S1_FHS
MAIN BOARD	Chassis Ass'y	BN91-14265A	BN91-14265B	BN91-14265C	BN91-15201R
	PBA Ass'y	BN94-09062X	BN94-09062W	BN94-09062U	BN94-08977Q
Byte	Item				
0	Factory Reset	-	-	-	-
1	Type	32A1AF0V	40A1AF0V	48A1AF0V	50L1AF0VJ
2	Local set	US	US	US	US
3	SW Model	UJ6200	UJ6200	UJ6200	UJ6200
4	BOM Model	6300	6300	6300	6300
5	Tuner	AUTO	AUTO	AUTO	AUTO
6	Ch table	NONE	NONE	NONE	NONE

Inches		55"	60"	65"	75"
PANEL	Vendor	KOHS	KOHS	SEC	SEC
	Code	BN95-01332A	BN95-01333A	BN95-01334A	BN95-01335A
	Spec.	CY-GH055CSLV1H/V	CY-HH060CSSV1V	CY-GH065CSAV1H/V	CY-GH075CSLV1H/V
SMPS BOARD	Vendor	HANSOE	SEM	HANSOE	HANSOE
	Code	BN44-00704E	BN44-00705C	BN44-00706C	BN44-00723C
	Spec.	L55S1_FHS	L60S1_FSM	L65S1_FHS	L75S1_FHS
MAIN BOARD	Chassis Ass'y	BN91-14265D	BN91-14365R	BN91-14365V	BN91-15202K
	PBA Ass'y	BN94-09062V	BN94-09061G	BN94-09061F	BN94-09061E
Byte	Item				
0	Factory Reset	-	-	-	-
1	Type	55A1AF0V	60H1AF0S	65L1AF0V	75A1AF0V
2	Local set	US	US	US	US
3	SW Model	UJ6200	UJ6200	UJ6200	UJ6200
4	BOM Model	6300	6300	6300	6300
5	Tuner	AUTO	AUTO	AUTO	AUTO
6	Ch table	NONE	NONE	NONE	NONE

4-3-2. 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



- Some items are not available without a factory remote.

Option	Factory Mode Menu	Item
Control	T-HKMFAKUC-xxxx (T-HKMFUABC-xxxx : AG**)	Main SW Version
Debug	T-HKMFAKUC-xxxx tztv-2.2.1-hawk-m-fhd_2015*****	Sub Version (Main, Jak)
SVC	BT Version : xxxx	Bluetooth Version
ADC/WB	E-Manual : HMFxxxx-****	E-Manual Version
	Camera Version : Not Support Blaster Version :Not Support	
	E-POP Version :HAWKNFH-**** ** EDID SUCCESS HDCP SUCCESS CALIB : AV/COMP/PC/HDMI/ Option : xxxx,xxxx,6300,NONE DTCP Not Support	
	TCON Version : -----	TCON Version
	Model : UNXXJ6300AF	
	Wired MAC SUCCESS	Condition of Wired Mac
	Wireless MAC SUCCESS	Condition of Wireless Mac
	WIFI : ***** (5.0.1.41_0105)	
	CO Nf/W/M/D/HO P / AO O S / M RO SC SiX Factory Data Ver : 195 EERC Version : 34	
	CPLD/HD :N/A SmartControl : **** Date of purchase : mm/dd/yyyy	

4-3-3. Factory Data

■ Option

Factory Menu Name	Data	Range
Factory Reset	-	
Type	32A1AF0V 40A1AF0V 48A1AF0V 50L1AF0VJ 55A1AF0V 60H1AF0S 65L1AF0V 75A1AF0V	
Local Set	US	SD_MEXICO/CARRIBE/PERU_DTV/ PAR_DTV/URU_DTV/ARG_DTV/BRA_DTV/ CHILE_DTV
SW Model	UJ6200	
BOM Model	6300	
TUNER	AUTO	"NORTH AMERICA : S_TC, LATIN AMERICA : S_ISDB BRAZIL : S_ISDB"
Ch Table	NONE	
MRT Option		
Front Color	U-R-C-55	U-T-CL-M63
LVDS FORMAT	JEIDA	
Language_Arabic	US	
Region	USA	
PnP Language	ENG_US	
WIFI REGION	B	
OTN Support	ON	
OTA Support	OFF	
TTX	OFF	
China HD	OFF	
NT Conversion	OFF	
OPTION_NUM		
BD Wise Support	OFF	
PVR Support		
LEDMotionPlus Support		
Natural Mode Support	ON	
HDMI/DVI SEL	4	
HV Flip		HV Flip / H Filp / OFF
Light Effect	OFF	
e-Pop Default	ON	
CAMERA Support	OFF	

4. Troubleshooting

Factory Menu Name	Data	Range
NETWORK Support	Int-Wifi	
EcoSensor Support	ON	
Frameless Support		
3D Support	OFF	
BT Support	ON	
BT ADDRESS	Not support	
HP LINE	LineOut	
Resolution Sel	FHD	
Multiview Support	OFF	
Local Dimming Panel	OFF	
Wifi Vendor	QCA	
FAN Vendor	OFF	
Voice Recog	OFF	
Motion Recog	OFF	
TTV Support (21_9)	OFF	
PC Mode Dimming Support	OFF	
PX Support	OFF	
No Glass 3D support	OFF	
MLS Support	OFF	
MBR Support	OFF	
SmartView Support	ON	
Provider Setup Support	OFF	
Bezel Light Support	OFF	
Smart control Supoort	OFF	
Bendable Suppport	OFF	
Engineer Option		
Type Of PANEL KEY	None	
5 Way Function Key	R BACK	
Power Panelkey Only		
Contents Bar	0	
Cable Modulation	...	
Standby led on/off	ON	
Recognition Support	OFF	
IF AGC	7	
D AGC	0	
PH BW	3	
FQ BW	3	

Factory Menu Name	Data	Range
PH RATE	4	
PD EN	1	
WF Scale		
WF Type	0	
Number of Network Stream	1	
BT_AUDIO_ON_OFF	OFF	
Config_AV_PATH		
USING_PSI_UPDATE	-	
Fast Logo Delay	0	
JP Tuner Reset Delay		
Num of PANEL KEY	7	
Panel Init Time		
Tcon Init Time		
Write MAC Address		
data sync Init		
Common Source Support	ON	
OVD Support	0	
EcoSensor Location	0	
BENDABLE PEQ Inx	0	

■ Control

Factory Menu Name	Data	Range
EDID		
EDID ON/OFF	OFF	
EDID WRITE ALL	...	
EDID WRITE HDMI	...	
EDID Ver	...	
EDID Port		
Sub Option		
RS-232 Jack	UART	Debug/UART
EXT Link Support	OFF	
Serial Log On/Off	ON	
Watchdog	OFF	
FRC Monitoring		
Checksum	0x0000	
Fast Boot in Production	OFF	
UART Enable	OFF	

4. Troubleshooting

Factory Menu Name	Data	Range
Eeprom Reset		
ECO IC TYPE	MC8121	
Info Link Server Type	development	
Info Link Country	None	
TTX Group	UserOSD	
Visual Test	-	
OPTION_SWU		
OTN Server Type	operating	
OTN Test Server	OFF	
SWU Reset		
SWU Duration	OFF	
SWU Fail Test	OFF	
RF Remocon Support	OFF	
CDD mode	-	
DPMS Support	OFF	
T-CON Device		
RM		
Server Type	Operating	
RTS Mode	OFF	
LMN 1ST THRESHOLD	80	
LMN 2ST THRESHOLD	60	
LMN 3ST THRESHOLD	40	
EOS Click	OFF	
BP PMS Reset	1	
Fanet Thread	2	
User InstantOn Default Value	ON	
CI CPLD Version		
ACM_MC	ON	
HotkeyList		
UNIQUE TRIPLET	ON	
FS_FAV	OFF	
Pricate Range USE	ON	
SCSA Support	OFF	
OCM Reboot	ON	
SPI Protection		
Hotel Option		
Hospitality Mode	OFF	

Factory Menu Name	Data	Range
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	OFF	
AF Level adjust	3	
TX Power Level	0	
Mono Last Memory	OFF	
H Shaking	OFF	
SOUND		
High Devi	OFF	
Carrier_Mute	OFF	
Pilot Level High Thld	0x70h	
Pilot Level Low Thld	0x20h	
Carrier2 Amp High THID	6	
Carrier2 Amp Low THID	4	
Amp Volume	0xc5h	
Amp Scale		
Amp EQ Check Sum		
Subwoofer Support		
Woofer Type	0	
Woofer Volume	0xcbh	
Woofer Scale	0x8ah	
Woofer Check Sum	NONE	
Woofer Local EQ Checksum	0	
PEQ Inx		
PEQ Test		
Amp Model	NTP7415	

4. Troubleshooting

Factory Menu Name	Data	Range
Bottom CheckSum	NONE	
Wall Filter Type	2	
SRS Tuning Parm	0	
SPDIF PCM Gain	-9dB	
AudioDock BT Delay		
3D_Glass BT Delay		
Mic Scale		
India Sound		
Specker Delay Normal		
NTV CU Delay		
Lipsync Inx		
Lipsync CheckSum	OK:0x9631	
Lipsync USB Test	Ready	
LipSync BT CheckSum	OK:0x696A	

■ Debug

Factory Menu Name	Data	Range
US LVDS Value	5	
FRC Vx1 SSC ON/OFF	OFF	
FRC Vx1 SSC Period	0	
FRC Vx1 SSC Modulation	1	
FRC LVDS SSC ON/OFF	OFF	
FRC LVDS SSC MRR	3	
FRC LVDS SSC MFR	2	
FRC DDR SSC ON/OFF	ON	
FRC DDR SSC MRR	3	
FRC DDR SSC MFR	4	
FRC DDR SSC Period	0	
FRC DDR SSC Modulation	2	
DDR Margin		
A CTRL_OFFSET_0_3	0x0	
A CTRL_OFFSET_D	0x0	
B CTRL_OFFSET_0_3	0x0	
B CTRL_OFFSET_D	0x0	
BT_ON_OFF	ON	
RF Mute Time	600ms	

Factory Menu Name	Data	Range
FRC		
FRC FDISPLAY ON/OFF	0	
3D FDISPLAY ON/OFF	OFF	
PC Mode ON/OFF	OFF	
Home Panel FRC	OFF	
DDR Test	0	
FRC VX1 RX EQ SETTING	OFF	
Netflix OSD Threshold	1	
Tuner Margin	3	
MPEG Margin	20	
H.264 Margin	15	
CAM Wait Time	0	
TCON_TEMP READ	0	
TEMP LAST	6000	
DCC VERSION	0x0	
DCC CHK SEL	0	
DCC CHECK LOCAL	0x0	
DCC CHECK TOTAL	0x0	
Voice Debug	OFF	
Power Management		
Cert Option	Waiting	
RM_BIST_DTV	5	
RM_BIST_ATV	0	
RM_BIST_CABLE	29	
SerDES_Check		
EU_CIS	0	
Stress Mode	OFF	
Log Analyzer	ON	
Error Popup On/off	ON	
DeadLock KILL	OFF	
CES mode on/off	NONE	
CES Option	OFF	
CES convergence Option	OFF	
TCON Demura Bypass	OFF	

■ SVC

Factory Menu Name	Data	Range
Self Test(for HW)		
Loop Back		
LAN Test		
AV Audio Test		
AV2 Audio Test		
CVBS Test		
CVBS2 Test		
COMP Test		
USB HUB Test		
SPDIF Test		
HDMI Test		
SCART Audio		
SCART Video		
CPU	...	
DDR		
FLASH		
EEPROM		
Tuner X-TAL		
T-CON CheckSum	Ready	
T-CON2 Usb Download		
T-CON2 CheckSum		
PANEL EEPROM UPGRADE		
PANEL FHASH UPGRADE		
Logic Usb D/L		
SUBMICOM UPGRADE	ON	
SUBMICOM JP USB UPGRADE		
BT UPGRADE	Failure	
BT FREEPAIRING		
Function Upgrade	Failure	
FRC3D FW Upgrade		
FRC3D LD UPGRADE		
FRC3D FW UPGRADE		
Camera Upgrade		
Mic Upgrade	Failure	
Jump Upgrade		
IR Blaster Upgrade	0	

Factory Menu Name	Data	Range
IR Blaster delay time		
NTV CU UPDATE		
UD LDC PROFILE UPGRADE		
Pic Data USB Update	0	
Audio Data USB Update		
Eco Data USB Update	0	
CI CPLD UPGRADE		
SC ADK Upgrade		
SC MCU Upgrade		
TCON DEMURA FW UPGRADE		
Reset	0	
Apps Reset		
SVC Reset	0	
SPI Flash Reset		
Data Sync Reset		
OPTION_HDMI		
DVI/HDMI SOUND	Auto	
HDMI HOT PLUG	Disable	
HOTPLUG SWITCHING	Boot	
HOT PLUG 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	
H Write		
HDMI Sync		
HDMI 3D DET	0	
HOT PLUG OFF HOLD TIME		
HDMI MUTE TIME		

4. Troubleshooting

Factory Menu Name	Data	Range
REPEAAUDIO PKT		
HDMI HDCP EN		
HDMI HDCP EN FLAG		
POWER ON FLT CNT LOS		
HDCP UPDATE SPI		
SPI VERSION	1	
DVB CI		
TS Clock delay TC	0	
TS Clock delay S	0	
CI Control Buf On	ON	
TS Clock delay CPU	1	
TS Clock delay TC2	0	
TS Clock delay S2	0	
CI Control Buf On2	1	
TS Clock delay CPU2	0	
Test Pattern		
Scaler Pattern		
US Post Pattern		
FRC Pre Pattern	0	
FRC Post Pattern	0	
SOC TCON Pattern	0	
SOC TCON Pattern Level	255	
FRC OSD Pre Pattern		
FRC OSD Post Pattern		
FRC2 Pre Pattern		
FRC2 Post Pattern		
SOC TCON2 Pattern		
SOC TCON2 Pattern Level		
Other Setting		
Delete S/N	0	
IPERF	Stopped	
Expert		
CAL Data Backup	...	
CaL Data Restore		
MICOM POWER OFF	ON	
NTV RF Region		
NTV CU FW VER	0	

Factory Menu Name	Data	Range
ATV IF AGC SPEED	0	
Source Direct On/Off	OFF	
Apps Update		
Auto Power	LAST POWER	
SMCE Control		
Moter Test	ORIGINAL	
SVC Panel		
Tizen		
Export		
Import		
Verify		
Flash Reset		
Tizen EEPROM Reset		
S/N		
Serial number		
Writing S/N		

■ ADC/WB

Factory Menu Name	Data	Range
G1_Gain	...	
R2_Gain	...	
B2_Gain	...	
G2_Gain	...	
R3_Gain	...	
B3_Gain	...	
G3_Gain	...	
R4_Gain	...	
B4_Gain	...	
G4_Gain	...	
R5_Gain	...	
B5_Gain	...	
G5_Gain	...	
R6_Gain	...	
B6_Gain	...	
G6_Gain	...	
R7_Gain	...	

4. Troubleshooting

Factory Menu Name	Data	Range
B7_Gain	...	
G7_Gain	...	
R8_Gain	...	
B8_Gain	...	
G8_Gain	...	
R9_Gain	...	
B9_Gain	...	
G9_Gain	...	
R10_Gain	...	
B10_Gain	...	
G10_Gain	...	
MGA On/Off	OFF	
R1_Gain	...	
B1_Gain	...	
G1_Gain	...	
R2_Gain	...	
B2_Gain	...	
G2_Gain	...	
R3_Gain	...	
B3_Gain	...	
G3_Gain	...	
R4_Gain	...	
B4_Gain	...	
G4_Gain	...	
R5_Gain	...	
B5_Gain	...	
G5_Gain	...	
R6_Gain	...	
B6_Gain	...	
G6_Gain	...	
R7_Gain	...	
B7_Gain	...	
G7_Gain	...	
R8_Gain	...	
B8_Gain	...	
G8_Gain	...	
R9_Gain	...	

Factory Menu Name	Data	Range
B9_Gain	...	
G9_Gain	...	
R10_Gain	...	
B10_Gain	...	
G10_Gain	...	
SPI White Balance	...	
SPI White Balance On/OFF	...	
SPI R-Offset	...	
SPI G-Offset	...	
SPI B-Offset	...	
SPI R-Gain	...	
SPI G-Gain	...	
SPI B-Gain	...	
SPI N Rgain	...	
SPI N Bgain	...	
SPI N Roffset	...	
SPI N Boffset	...	
SPI W2 Rgain	...	
SPI W2 Bgain	...	
SPI W2 Roffset	...	
SPI W2 Boffset	...	
SPI MGA	...	
SPI MGA On/OFF	...	
SPI R1_Gain	...	
SPI G1_Gain	...	
SPI B1_Gain	...	
SPI R2_Gain	...	
SPI G2_Gain	...	
SPI B2_Gain	...	
SPI R3_Gain	...	
SPI G3_Gain	...	
SPI B3_Gain	...	
SPI R4_Gain	...	
SPI G4_Gain	...	
SPI B4_Gain	...	
SPI R5_Gain	...	
SPI G5_Gain	...	

4. Troubleshooting

Factory Menu Name	Data	Range
SPI B5_Gain	...	
SPI R6_Gain	...	
SPI G6_Gain	...	
SPI B6_Gain	...	
SPI R7_Gain	...	
SPI G7_Gain	...	
SPI B7_Gain	...	
SPI R8_Gain	...	
SPI G8_Gain	...	
SPI B8_Gain	...	
SPI R9_Gain	...	
SPI G9_Gain	...	
SPI B9_Gain	...	
SPI R10_Gain	...	
SPI G10_Gain	...	
SPI B10_Gain	...	
WB Data to SPI	...	

4-4. White Balance

4-4-1. Calibration

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

Option	AV Calibration
Control	Comp Calibration
Debug	PC Calibration
SVC	HDMI Calibration
ADC/WB	

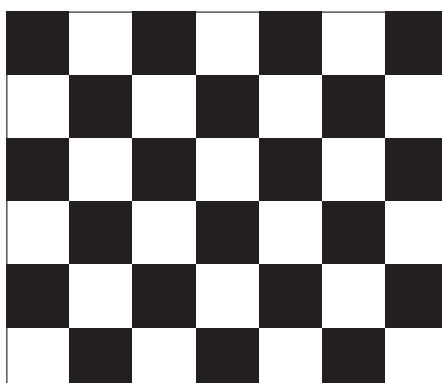
4-4-2. Service Adjustment

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.

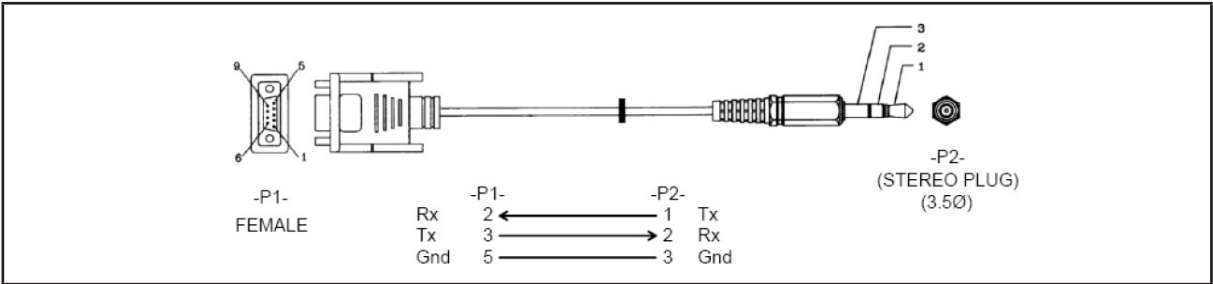
4-4-3. Adjustment

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

Option			
Control			
Debug			
SVC		(Low Light)	(Hight Light)
ADC/WB	White Balance	Sub Brightness	Sub Contrast
		R offset	R gain
		G offset	G gain
		B offset	B gain

4-5. RS-232C

- **RS232C Control**
 - Port : COM#(Serial)
 - Baud rate : 9600
 - 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 Tab

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	0x03	0x00	0x01	0x00
			Down			0x02	0x00

Control Item				Cmd1	Cmd2	Cmd3	Value
Input	Source List	TV	TV	0x0a	0x00	0x00	0x00
			AV			0x01	0x00
		AV	AV1				0x01
			AV2				0x01
			AV3				0x02
		S-Video	S-Video1			0x02	0x00
			S-Video2				0x01
			S-Video3				0x02
		Component	Component1			0x03	0x00
			Component2				0x01
			Component3				0x02
		PC	PC1			0x04	0x00
			PC2				0x01
			PC3				0x02
		HDMI	HDMI1			0x05	0x00
			HDMI2				0x01
			HDMI3				0x02
			HDMI4				0x03
		DVI	DVI1			0x06	0x00
			DVI2				0x01
			DVI3				0x02
		RVU	RVU			0x07	0x00

Control Item				Cmd1	Cmd2	Cmd3	Value
PICTURE	Mode	Dynamic(Entertain)		0x0b	0x00	0x00	0x00
		Standard					0x01
		Movie					0x02

4. Troubleshooting

Control Item				Cmd1	Cmd2	Cmd3	Value
PICTURE	Mode	Natural					0x03
		CAL-NIGHT					0x04
		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	0x00
			Dark				0x01
			Darker				0x02
			Darkest				0x03
		Dynamic Contrast	Off			0x01	0x00
			Low				0x01
			Medium				0x02
			High				0x03
		Shadow Detail	-2 ~ 2			0x02	(-2~2)
		Gamma	-3 ~ 3			0x03	(-3~3)
		RGB Only Mode	Off			0x05	0x00
			Red				0x01
			Green				0x02
			Blue				0x03
		Color Space	Auto			0x06	0x00
			Native				0x01
			Custom				0x02
		White Balance	R-Offset(LCD)			0x07	(0~50)
		White Balance	G-Offset(LCD)			0x08	(0~50)
		White Balance	B-Offset(LCD)			0x09	(0~50)
		White Balance	R-Gain(LCD)			0x0a	(0~50)
		White Balance	G-Gain(LCD)			0x0b	(0~50)
		White Balance	B-Gain(LCD)			0x0c	(0~50)
		White Balance	Reset(LCD)			0x0d	0x00
		Flesh Tone	-15 ~ 15			0x0e	(-15~15)

New function of 12"
(only PDP TV)

Not support

Control Item				Cmd1	Cmd2	Cmd3	Value	
PICTURE	Advanced Settings	Edge Enhancement	Off			0x0f	0x00	Not support
			On				0x01	
		xvYCC	Off			0x10	0x00	
			On				0x01	
		Motion Lighting	Off			0x11	0x00	
			On				0x01	
		Color Space Custom Color	Red			0x12	0x00	
			Green				0x01	
			Blue				0x02	
			Yellow				0x03	
			Cyan				0x04	
			Magenta				0x05	
		Color Space Custom Color Red Value	0~100			0x13	0~100	
		Color Space Custom Color Green Value	0~100			0x14	0~100	
		Color Space Custom Color Blue Value	0~100			0x15	0~100	
		LED Motion Plus	Off		0x0a	0x07	0x00	
			On(Normal)				0x01	
			Cinema				0x02	
			Ticker				0x03	
	Picture Option	Color Tone	Cool		0x0a	0x00	0x00	Change Normal → Standard mode
			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	

Control Item				Cmd1	Cmd2	Cmd3	Value
PICTURE	Picture Option	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
	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
			Zoom				0x0a
	Reset Picture	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

New function of 12"
(only PDP TV)

New function of 12"
(only DVB TV)

Control Item				Cmd1	Cmd2	Cmd3	Value
PICTURE	3D	3D View Point				0x02	(-5~5)
		Depth				0x03	(1~10)
		3D Auto View	Off			0x05	0x00
			Message Notice				0x01
			On				0x02

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)
		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
		Spanish					0x01
		French					0x02
		Korean					0x03
		Japanese					0x04
	Multi-Track Sound	Mono			0x05	0x00	0x00
		Stereo					0x01
		SAP					0x02
	Auto Volume	Off			0x06	0x00	0x00
		ON					0x01

4. Troubleshooting

Control Item				Cmd1	Cmd2	Cmd3	Value
Sound	Auto Volume	Night					0x02
	Speaker Select	TV Speaker			0x07	0x00	0x00
		External Speaker					0x01
	Sound Select	Main			0x08	0x00	0x00
		Sub					0x01
	Sound Reset	Sound Reset			0x09	0x00	0x00
	3D Audio	Off			0x0a	0x00	0x00
		Low					0x01
		Medium					0x02
		High					0x03
	Auto Stereo	Manual			0x0b	0x00	0x00
		Auto					0x01

Only for korea model

Control Item				Cmd1	Cmd2	Cmd3	Value
KEY	Key Generation			0x0d	0x00	0x00	refer to table
OSD	Show/Hide Control	Show		0x0e	0x00	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

4-7. Updating the TV's Software

- [MENU/123](#) → [MENU](#) → [Support](#) → [Software Update](#)

You can view your TV's software version and update it if necessary.

■ Updating the TV's software to the latest version

- [MENU/123](#) → [MENU](#) → [Support](#) → [Software Update](#) → [Update now](#)

You can update your TV's software by downloading the update from the Internet directly to your TV or copying the update from a USB device that contains it to your TV.

- This function requires an Internet connection.
- Save the update package in the USB device's top-level folder. Otherwise, the TV will not be able to locate the update package.



DO NOT turn off the TV's power until the update is complete. The TV will turn off and on automatically after completing the software update. All video and audio settings return to the default settings after a software update.

■ Updating the TV automatically

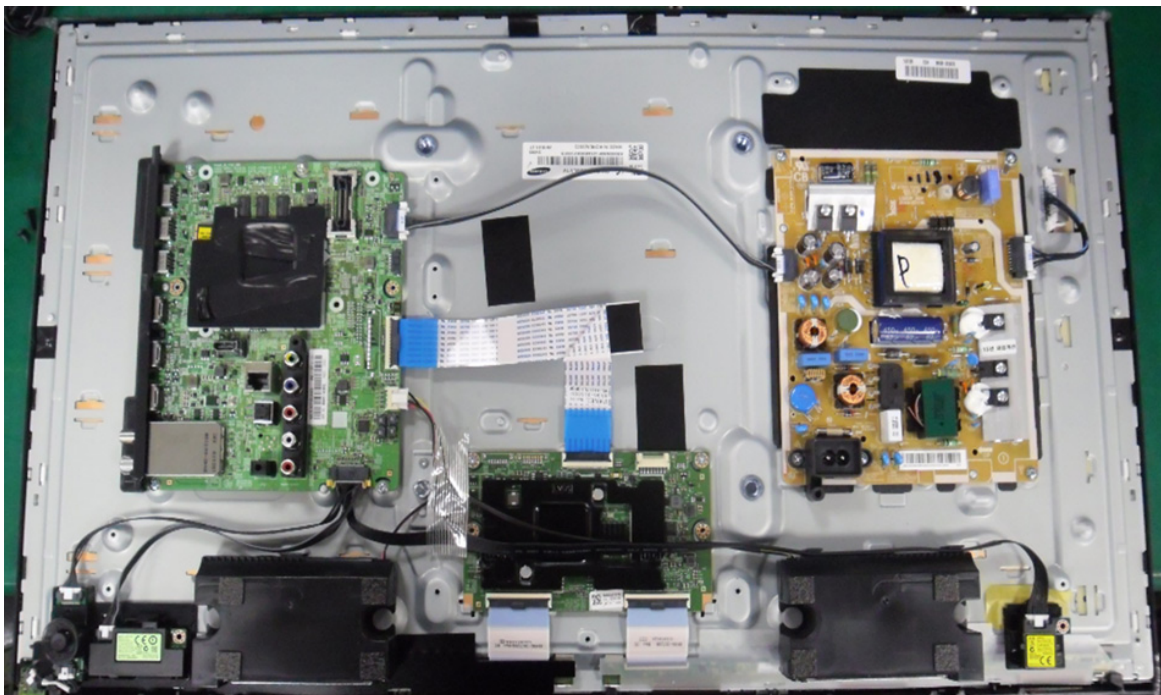
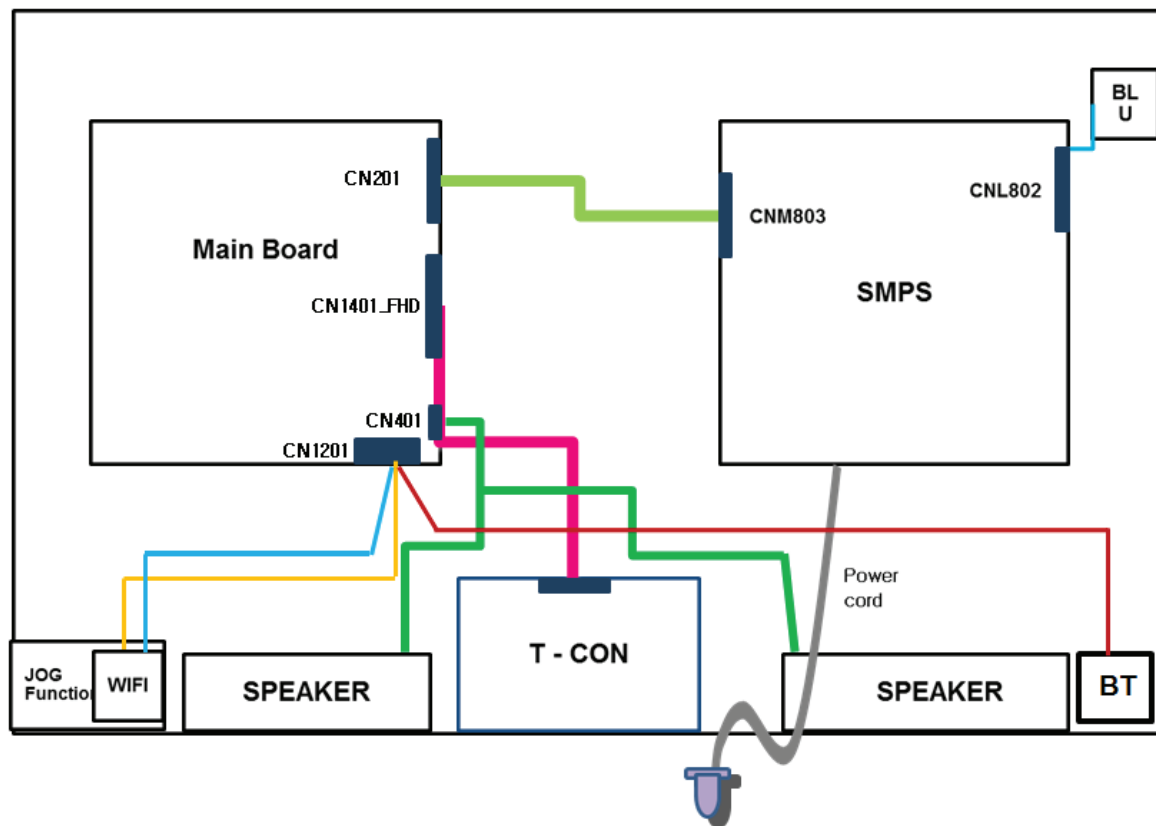
- [MENU/123](#) → [MENU](#) → [Support](#) → [Software Update](#) → [Auto Update](#)

If the TV is connected to the Internet, you can have the TV's software update itself automatically while you are watching the TV. When the background update is completed, it is applied the next time the TV is turned on.

- This function may take a longer time if a different networking function is running concurrently.
- This function requires an Internet connection.
- If you agree to the Smart Hub terms and conditions, Auto Update is set to On automatically. If you do not want the TV's software to update itself automatically, set Auto Update to Off.

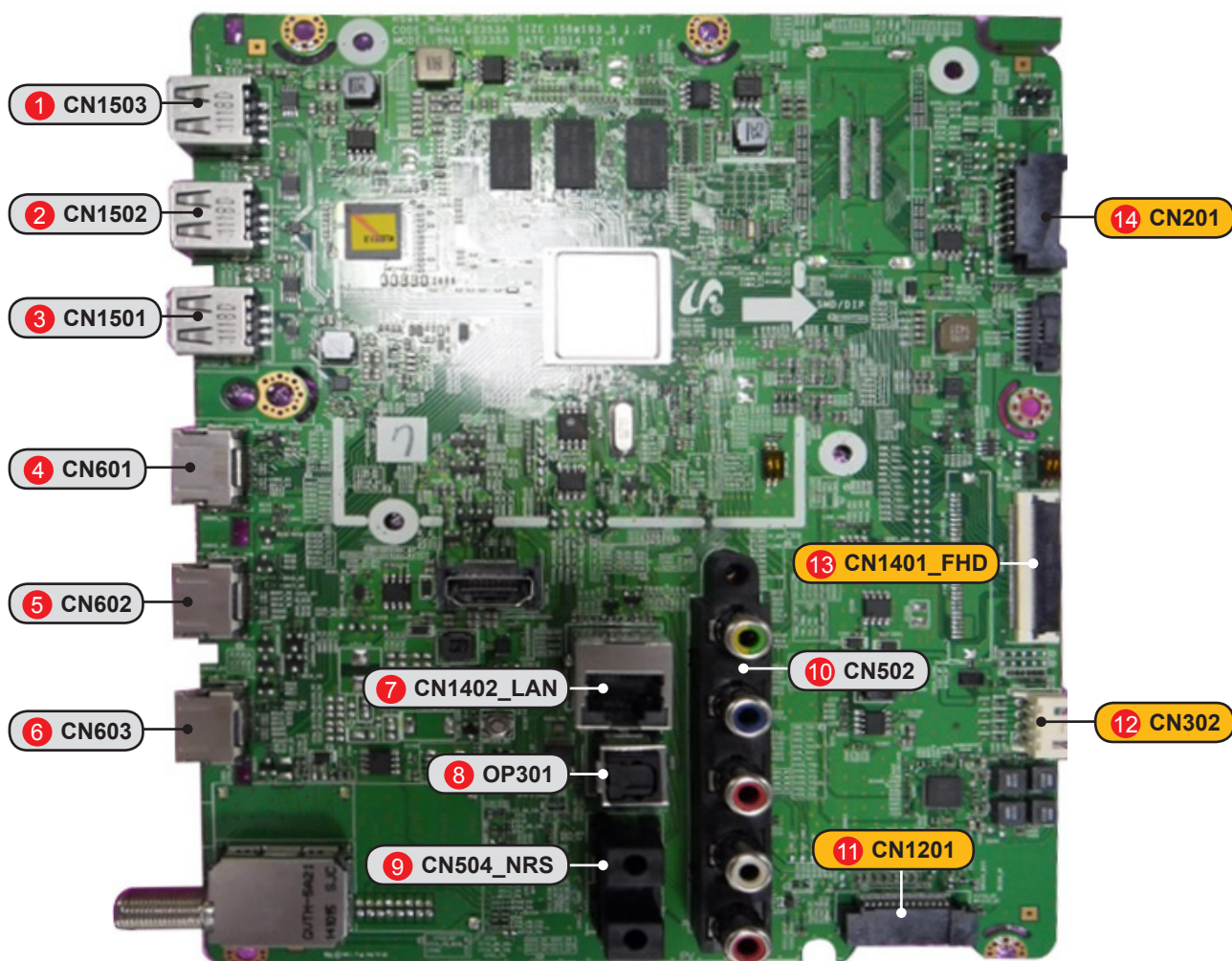
5. Wiring Diagram

5-1. Wiring Diagram



5-2. Connector

■ Main Board



■ Main Board Pin Map

① CN1503(USB2)			
1	B5V_USB3_PW	3	USB3_DP
2	USB3_DM	4	GND

② CN1502(USB2)			
1	B5V_USB2_PW	3	USB2_DP
2	USB2_DM	4	GND

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

④ CN601(to HDMI3)			
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+		

5 CN602(to HDMI1)

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+		

6 CN603(to HDMI2)

1	HDMI3_RX2+	11	GND
2	GND	12	HDMI3_RXCLK-
3	HDMI3_RX2-	13	CEC
4	HDMI3_RX1+	14	NC
5	GND	15	HDMI3_SCL_DDC
6	HDMI3_RX1-	16	HDMI3_SDA_DDC
7	HDMI3_RX0+	17	GND
8	GND	18	HDMI3_5V
9	HDMI3_RX0-	19	HDMI3_HOT_PLUG
10	HDMI3_RXCLK+		

7 CN1402_LAN

1	LAN_TXD+	5	B2.5V
2	B2.5V	6	LAN_RXD-
3	LAN_TXD-	7	NC
4	LAN_RXD+	8	GND

8 OP301(to Optical Jack)

1	SPDIF_OUT	3	GND
2	B5V_DC_PW		

9 CN504_NRS

1	GND	5	TEST_SR
2	HP_AUD_SL_OUT	6	IDENT_HP
3	HP_AUD_SR_OUT	7	GND
4	TEST_SL		

10 CN502(to Component&AV)

1	GND	9	TEST_PR
2	COMP2_Y_CVBS	10	GND
3	INDENT_VIEDO2	11	COMP_AV_SL_IN
4	GND	12	TEST_SL
5	COMP_PB	13	GND
6	IDENT_COMP	14	COMP_AV_SR_IN
7	GND	15	TEST_SR
8	COMP_PR		

11 CN1201(to Function/IR)

1	IR	14	A5V
2	GND	15	LED_STB
3	GND	16	BT_WAKE
4	FRAME_SYNC_IN	17	GND
5	A3.3V	18	POWER_DET
6	BT_SYNC	19	NC
7	MSCL	20	BT_RESET
8	GND	21	GND
9	MSDA	22	WIFI_DP
10	USB_BT_DP	23	WIFI_DM
11	KEY_INPUT1	24	B5V_DC_PW
12	USB_BT_DM	25	WIFI_WOL
13	KEY_INPUT2	26	WIFI_RESET

12 CN302(to Speaker)

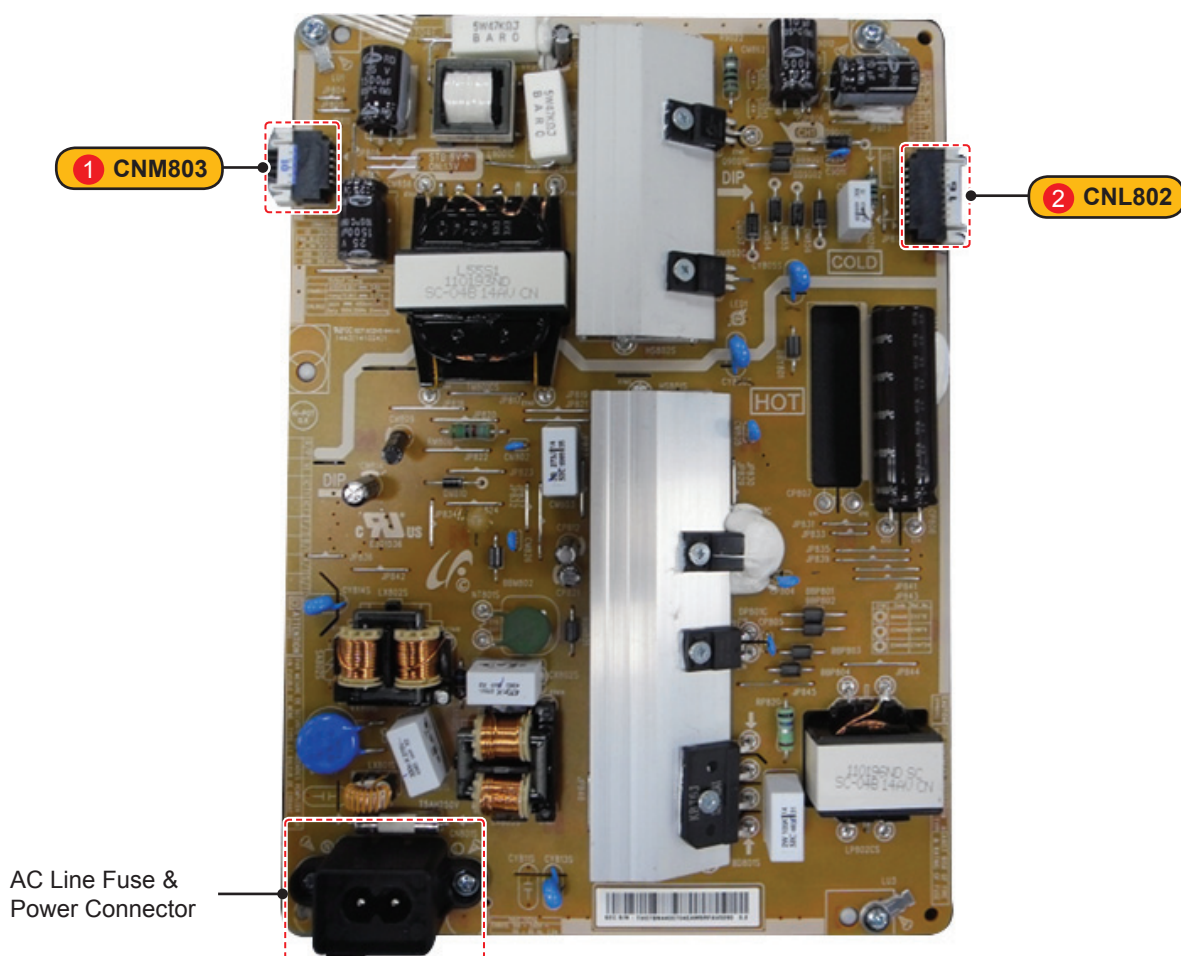
1	R+	3	L+
2	R-	4	L-

5. Wiring Diagram

13 CN1401_FHD			
1	NC	27	EVEN_TX0-
2	GND	28	GND
3	FRC_SDA	29	ODD_TX4+
4	FRC_PWM1	30	ODD_TX4-
5	FRC_SCL	31	ODD_TX3+
6	FRC_PWM3	32	ODD_TX3-
7	FRC_PWM2	33	GND
8	TCON_SDA	34	ODD_TXCLK+
9	PANEL_I2C_EN	35	ODD_TXCLK-
10	BT_SYNC	36	GND
11	UPDATE_CHK	37	ODD_TX2+
12	TCON_SCL	38	ODD_TX2-
13	GND	39	ODD_TX1+
14	EVEN_TX4+	40	ODD_TX1-
15	EVEN_TX4-	41	ODD_TX0+
16	EVEN_TX3+	42	ODD_TX0-
17	EVEN_TX3-	43	GND
18	GND	44	GND
19	EVEN_TXCLK-	45	GND
20	EVEN_TXCLK+	46	FRC_PWM4
21	GND	47	PANEL_13V_PW
22	EVEN_TX2+	48	PANEL_13V_PW
23	EVEN_TX2-	49	PANEL_13V_PW
24	EVEN_TX1+	50	PANEL_13V_PW
25	EVEN_TX1-	51	PANEL_13V_PW
26	EVEN_TX0+		

14 CN201(to Power board)			
1	A13V_PW	7	A13V_PW
2	A13V_PW	8	SW_INVERTER
3	GND	9	A13V_PW
4	GND	10	OVD_LEVEL
5	A13V_PW	11	SMPS_FET_FAIL_DETECT
6	SW_POWER_OUT	12	ANA_DIMMING

■ SMPS Board



■ SMPS Board Pin Map

1 CNM803 (P-Dim Control from Main Board)			
1	A13V	6	PS_ON
2	UD	7	A13V
3	A13V	8	GND
4	PWM_BLU	9	GND
5	A13V	10	GND


2 CNL802 (to BLU)			
1	N.C	9	N.C
2	3+	10	1+
3	3-	11	1-
4	N.C	12	N.C
5	N.C	13	N.C
6	2+	14	N.C
7	2-	15	IF2
8	N.C	16	IF1

5-3. Connector Functions

Connector	Function
CN201 ↔ CNM803	Supply main power and dimming signal from IP Board to Main Board.
CN1401 ↔ CON3	The LVDS signal transfered from Main Board to Panel .

5-4. Cables and Module

■ Cables

USE		Function-Main
		LEAD CONNECTOR-FUNCTION
Code	32"	BN39-02001A
	40"	BN39-02001E
	48"	BN39-02001B
	50"	BN39-02001C
	55"	BN39-02001D
	60"	BN39-02001D
	65"	BN39-02001G
	75"	BN39-02001H
Photo		

■ The Types of Module

USE		Bluetooth module	WiFi module	Function module
		ASSY BOARD P-BT-MODULE	NETWORK-WIFI MODULE	ASSY BOARD P-FUNCTION
Code	32"	BN96-30218F	BN59-01174D	BN96-30902C
	40"	BN96-30218F	BN59-01174D	BN96-30902Y
	48"	BN96-30218F	BN59-01174D	BN96-30902Y
	50"	BN96-30218F	BN59-01174D	BN96-30902Y
	55"	BN96-30218F	BN59-01174D	BN96-30902C
	60"	BN96-30218F	BN59-01174D	BN96-30902D
	65"	BN96-30218F	BN59-01174D	BN96-30902E
	75"	BN96-30218F	BN59-01174D	BN96-30902E
Photo		