



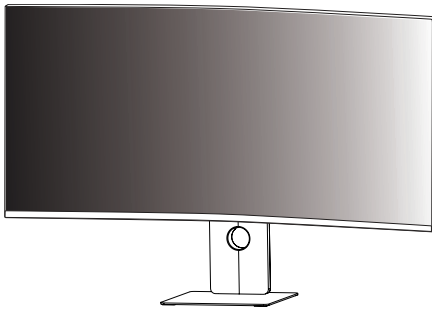
LED MONITOR SERVICE MANUAL

CHASSIS : LM59A

MODEL : 40WT95UF 40WT95UF-WY

CAUTION

BEFORE SERVICING THE CHASSIS, READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



P/NO : MFL05789204 (2503-REV00)

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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by $\triangle$ in the Exploded View.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer** should always be used during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1 W), keep the resistor 10 mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1 M Ω and 5.2 M Ω .

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

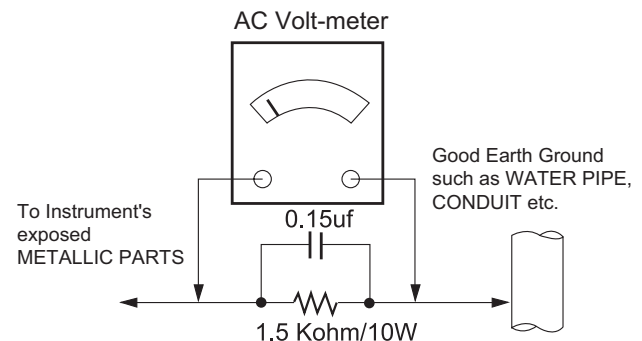
Connect 1.5 K / 10 watt resistor in parallel with a 0.15 uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which corresponds to 0.5 mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



When 25A is impressed between Earth and 2nd Ground for 1 second, Resistance must be less than 0.1

*Base on Adjustment standard

* Plan for Plastics

(Australia only)

- This product must be serviced by a professional service provider.
- After the servicing of the product in the customer premises, fully remove all product or parts packaging (including any expanded or moulded plastic packaging materials) and recycle or dispose of such packaging responsibly. Do not dispose any expanded plastic packaging in the household bin.

SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1. General Specification

No	Category	Item	Data	*Remark
1	General	Customer	Brand	
		User Model Name	40WT95UF	
		SMART Solution	NO	
		Sales region	US	
		Chassis Name	LM59A	
2	Display	Supply Type	Module	
		Active Area diagonal Size(inch)	40	
		Active Area diagonal Size(cm)	100.9	
		Active Area Hor. Size(mm)	929.28	
		Active Area Ver. Size(mm)	392.04	
		Native Resolution	5120x2160	
		Refresh Rate(Max)(Hz)	120	
		Refresh Rate(Recommended)(Hz)	120	
		Panel Type.	IPS Black	
		Backlight Type	Edge	
		Backlight Dimming	Local Dimming	
		Aspect Ratio	21:9	
		Brightness (Typ.)(cd/m²)	450	
		Color Gamut(Standard)	DCI-P3	
		Color Gamut(Coverage)(Typ.)	99.0%	
		Color Gamut(Coverage)(Min.)	95.0%	
		Color Depth (Panel)	16.7M	1.06B w/SoC Dithering
		Color Bit (Panel)	8bit	8bit + FRC
		Contast Ratio(Typ.)	2000:1	
		Contast Ratio(Min.)	1400:1	
		Response Time(Off)	14ms	Panel Spec
		Response Time(ms)	5 / 7 / 9	Faster / Fast / Normal
		Uniformity	75%	
		Curved	YES	
		Multi EDID	NO	
		PBP	YES	
		PIP	YES	
		HDR	DisplayHDR 600	CTS1.2
		Flicker Free	YES	
		Color Weakness	YES	
		Reader Mode	YES	
		LBL	YES	
		VESA ClearMR	NO	

No	Category	Item	Support	Range		Tier / Spec		Remark
				Min	Max			
3	Gaming Option	AMD FreeSync™	YES	48	120	FreeSync Premium		
		NVIDIA G-Sync®	NO					
		VESA AdaptiveSync	NO					
		Motion Blur Reduction	NO					
		Lighting	NO					

No	Category	Interface	Support	Standard Version	Position	Port quantity	Charging Spec (Max)	Remark
4	Input Interface (Display)	HDMI	YES	DSC / 2.1 / 2.0 / 1.4	Rear	2		
		DP	YES	2.1 / 1.4 / 1.2	Rear	1		
		Thunderbolt	YES	5	Rear	1	20V/4.8A (96W)	
		DVI	NO					
		D-sub	NO					
		RJ45	YES	10/100/1000 Mbps	Rear	1		
5	Output Interface (Display)	HDMI(Out)	NO					
		DP(Out)	NO					
		USB-C(Out)	NO					
		Thunderbolt(Out)	YES	5	Rear	1	5V/3A (15W)	
6	USB Support (Peripheral)	USB-A (Downstream)	YES	USB3.2 Gen2	Bottom	2	5V/0.9A	
			NO	0	0	0	0	
		USB-B (Upstream)	NO	0	0	0		
			NO					
		USB-C (Downstream)	YES	USB3.2 Gen2	Rear	3	5V/0.9A	
			YES	USB3.2 Gen2	Bottom	1	5V/3A	
		USB-C (Upstream) *w/o MFDP	YES	USB3.2 Gen2	Rear	1	N/A	
			NO					

No	Category	Item	Support	Type	Position	Specification	Remark
7	Audio	Head Phone	YES	Digital AMP	Rear	w/ MIC	
		DTS Headphone : X	NO				
		Dolby (Head Phone)	NO				
		Speaker	YES		Down-firing	10W	
		Woofer	NO				
		RichBass	YES				
		MAXX AUDIO	NO				
		DepthSound	NO				
		DTS Virtual : X	NO				
		Dolby (Speaker)	NO				
		Optical Digital Audio(Out)	NO				
		Line Out	NO				
		Audio In	NO				
8	Local Key	Control Key	YES	Joystick	Bottom		Up / Down / Left / Right / OK
		Wheel Key	NO				
		LED Indicator	YES		Bottom	White	
9	KVM	USB Hub Switch	YES	TBT & USB-C			
10	Auto Pivot	Auto Pivot	NO				
No	Category	Item	Support	Applied Type	Remark		
11	Sensor Option	ALS	YES		Application of RGB sensor		
		FAN	YES				
		TEMP	NO				
		IR	NO				
		Webcam	NO				
		Gyro	NO				
		BLS	NO		*BLS : Backlight Sensor		
		Presence Sensor	NO				

No	Category	Item	Provide	Color	Length	Weight	Remark
12	Accessory	AccessoryBox	NO				
		Adapter	NO				
		PSU	YES				ADO-300W1-20 HONOR 20V / 15A
		Power Cord	YES	White	1.5M	203.5	US
		Power Extention	NO				
		DP Cable	YES	White	1.8M	141.5	DP 2.1 cable
		HDMI Cable	YES	White	1.5M	89	HDMI 2.1 cable
		USB-C to C Cable	YES	White	1.5M	51.9	USB3.2 Gen2 cable
		USB-A to B Cable	NO				
		Thunderbolt Cable	YES	White	1.0M	50.9	TBT5 cable
		DVI Cable	NO				
		D-Sub Cable	NO				
		Remote Control Reciever	NO				
		Remote Controller	NO				
		Webcam Assembly	NO				
		Color Calibrator	NO				
		USB-C to A Gender	NO				

No	Category	Type	Data	Remark
13	Input Voltage		AC 100-240Vac~ 50/60Hz	
14	Power Rating	PSU	20.5Vdc 15.0A	

No	Category	Item	Data	Remark
15	Reliability	MTBF	30,000 HRS with 90% confidence level	
		Using Altitude	10,000 feet(3,048m) for Reliability 40,000 feet(12,192m) for Storage / Shipment	
		Environment Condition	Operating Temperature : 0°C ~ 40°C Humidity : Less than 80%	
			Storage Temperature : -20°C ~ 60°C Humidity : Less than 85%	
16	Sound noise level	Normal(Fan Mode)	Front 20dB(Fan Mode)	Distance : 100 cm Brightness of OSD menu : 100
			Back 26dB(Fan Mode)	
		Dimming(No Signal)	Front 18dB	
			Back 20dB	

2. Signal Timing (Resolution)

2.1. HDMI

No.	Resolution	Horizontal Frequency(kHz)	Vertical Frequency (Hz)	polarity (H/V)	Remark	section	Dot Clock [MHz]	Total Period(E)	Display (A)	Front Portch(D)	Sync (C)	Back Porch(B)
1	640 x 480	31.469	59.940	-/-		H(Pixels)	25.175	800	640	16	96	48
						V(Lines)		525	480	10	2	33
2	800 x 600	37.879	60.317	+/+		H(Pixels)	40.000	1056	800	40	128	88
						V(Lines)		628	600	1	4	23
3	1024 x 768	48.363	60.004	-/-		H(Pixels)	65.000	1344	1024	24	136	160
						V(Lines)		806	768	3	6	29
4	1280 x 720	45.000	60.000	+/+		H(Pixels)	64.000	1440	1280	48	32	80
						V(Lines)		741	720	3	5	13
5	1280 x 1024	79.976	75.025	+/+		H(Pixels)	135.000	1688	1280	16	144	248
						V(Lines)		1066	1024	1	3	38
6	1920 x 1080	67.500	60.000	+/+		H(Pixels)	148.500	2200	1920	88	44	148
						V(Lines)		1125	1080	4	5	36
7	1920 x 1080	66.587	59.934	+/-	PIP Preferred timing	H(Pixels)	138.500	2080	1920	48	32	80
						V(Lines)		1111	1080	3	5	23
8	1280 x 2160	133.160	59.928	+/+	PBP 5:9 Preferred timing	H(Pixels)	191.750	1440	1280	48	32	80
						V(Lines)		2222	2160	3	10	49
9	3440 x 1440	73.681	49.987	+/-	Recommended Timing - Input Compatibility Version : 1.4	H(Pixels)	265.250	3600	3440	48	32	80
						V(Lines)		1474	1440	3	10	21
10	3840 x 2160	67.500	30.000	+/+		H(Pixels)	297.000	4400	3840	176	88	296
						V(Lines)		2250	2160	8	10	72
11	3440 x 1440	88.819	59.973	+/-		H(Pixels)	319.750	3600	3440	48	32	80
						V(Lines)		1481	1440	3	10	28
12	2560 x 2160	133.272	59.978	+/-	PBP 10.5:9 Preferred	H(Pixels)	362.500	2720	2560	48	32	80
						V(Lines)		2222	2160	3	10	49
13	3440 x 1440	150.972	99.982	+/-	Recommended Timing - Input Compatibility Version : 2.1(AV)	H(Pixels)	543.500	3600	3440	48	32	80
						V(Lines)		1510	1440	3	10	57
14	3840 x 2160	135.000	60.000	+/+	PBP 16:9 Preferred	H(Pixels)	594.000	4400	3840	176	88	296
						V(Lines)		2250	2160	8	10	72
15	5120 x 2160	133.367	60.021	+/-		H(Pixels)	734.050	5504	5120	8	32	344
						V(Lines)		2222	2160	23	8	31
16	5120 x 2160	191.145	85.029	+/-		H(Pixels)	1052.060	5504	5120	8	32	344
						V(Lines)		2248	2160	36	8	44
17	5120 x 2160	226.579	100.035	+/-		H(Pixels)	1247.090	5504	5120	8	32	344
						V(Lines)		2265	2160	45	8	52

No.	Resolution	Horizontal Frequency(kHz)	Vertical Frequency (Hz)	polarity (H/V)	Remark	section	Dot Clock [MHz]	Total Period(E)	Display (A)	Front Portch(D)	Sync (C)	Back Porch(B)
18	5120 x 2160	269.013	120.042	+/-	Recommended Timing - Input Compatibility Version : 2.1(PC)	H(Pixels)	1480.650	5504	5120	8	32	344
						V(Lines)		2241	2160	33	8	40

2.2. DP

No.	Resolution	Horizontal Frequency(kHz)	Vertical Frequency (Hz)	polarity (H/V)	Remark	section	Dot Clock [MHz]	Total Period(E)	Display (A)	Front Portch(D)	Sync (C)	Back Porch(B)
1	640 x 480	31.469	59.940	-/-		H(Pixels)	25.175	800	640	16	96	48
						V(Lines)		525	480	10	2	33
2	800 x 600	37.879	60.317	+/-		H(Pixels)	40.000	1056	800	40	128	88
						V(Lines)		628	600	1	4	23
3	1024 x 768	48.363	60.004	-/-		H(Pixels)	65.000	1344	1024	24	136	160
						V(Lines)		806	768	3	6	29
4	1280 x 720	45.000	60.000	+/-		H(Pixels)	64.000	1440	1280	48	32	80
						V(Lines)		741	720	3	5	13
5	1280 x 1024	79.976	75.025	+/-		H(Pixels)	135.000	1688	1280	16	144	248
						V(Lines)		1066	1024	1	3	38
6	1920 x 1080	67.500	60.000	+/-		H(Pixels)	148.500	2200	1920	88	44	148
						V(Lines)		1125	1080	4	5	36
7	1920 x 1080	66.587	59.934	+/-	PIP Preferred timing	H(Pixels)	138.500	2080	1920	48	32	80
						V(Lines)		1111	1080	3	5	23
8	1280 x 2160	133.160	59.928	+/-	PBP_5:9 Preferred timing	H(Pixels)	191.750	1440	1280	48	32	80
						V(Lines)		2222	2160	3	10	49
9	3440 x 1440	88.819	59.973	+/-		H(Pixels)	319.750	3600	3440	48	32	80
						V(Lines)		1481	1440	3	10	28
10	2560 x 2160	133.272	59.978	+/-	PBP_10.5:9 Preferred	H(Pixels)	362.500	2720	2560	48	32	80
						V(Lines)		2222	2160	3	10	49
11	3840 x 2160	133.313	59.997	+/-	PBP_16:9 Preferred timing	H(Pixels)	533.250	4000	3840	48	32	80
						V(Lines)		2222	2160	3	5	54
12	5120 x 2160	133.367	60.021	+/-	Recommended Timing - Input Compatibility Version : 1.2	H(Pixels)	704.180	5280	5120	8	32	120
						V(Lines)		2222	2160	23	8	31
13	5120 x 2160	191.148	85.030	+/-		H(Pixels)	1009.260	5280	5120	8	32	120
						V(Lines)		2248	2160	36	8	44
14	5120 x 2160	226.580	100.035	+/-		H(Pixels)	1196.340	5280	5120	8	32	120
						V(Lines)		2265	2160	45	8	52

No.	Resolution	Horizontal Frequency(kHz)	Vertical Frequency (Hz)	polarity (H/V)	Remark	section	Dot Clock [MHz]	Total Period(E)	Display (A)	Front Portch(D)	Sync (C)	Back Porch(B)
15	5120 x 2160	269.015	120.042	+/-	Recommend- ed Timing - Input Compatibility Version : 1.4 - Input Compatibility Version : 2.1	H(Pixels)	1420.400	5280	5120	8	32	120
						V(Lines)		2241	2160	33	8	40

2.3. Thunderbolt

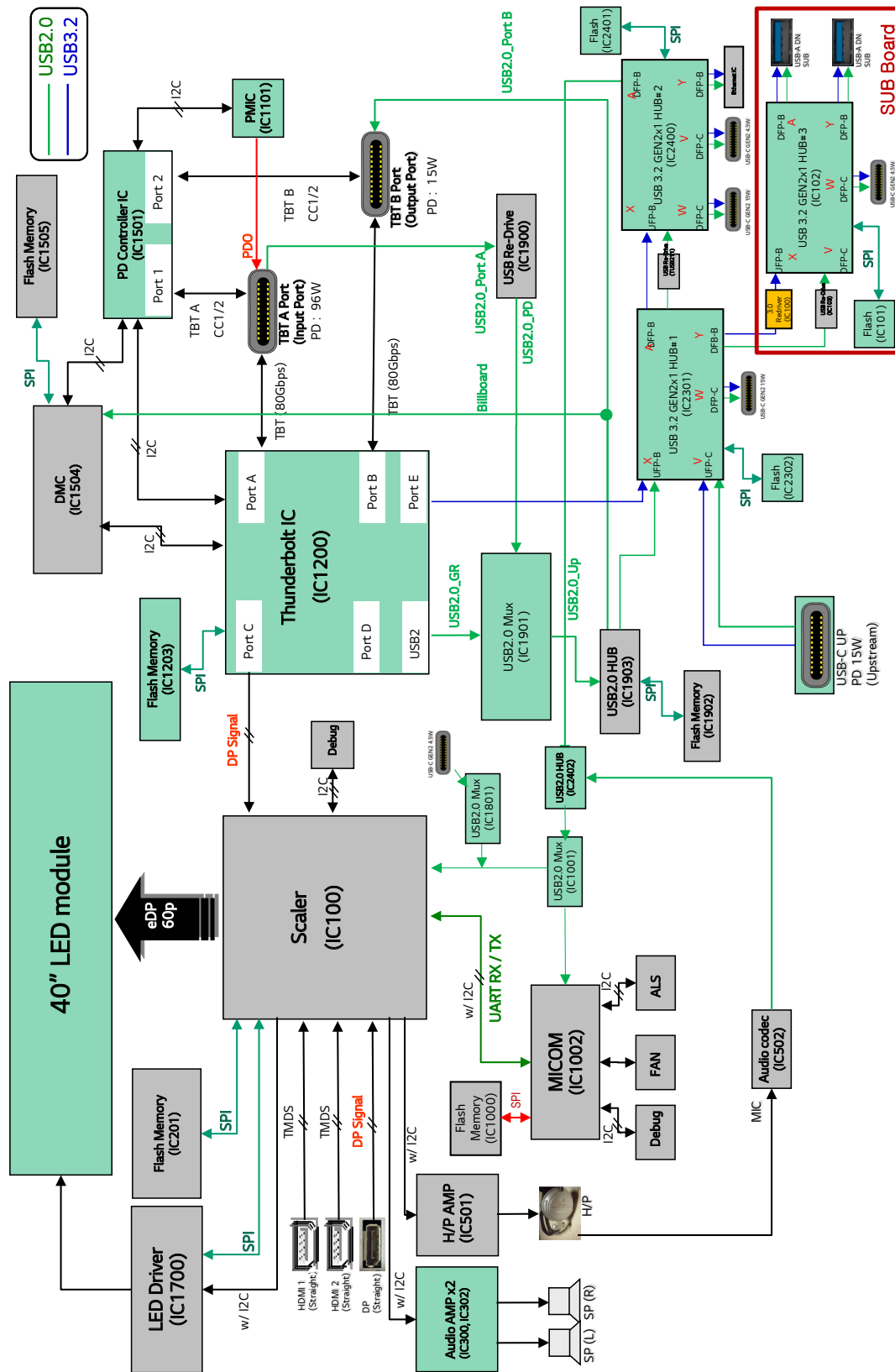
No.	Resolution	Horizontal Frequency(kHz)	Vertical Frequency (Hz)	polarity (H/V)	Remark	section	Dot Clock [MHz]	Total Period(E)	Display (A)	Front Portch(D)	Sync (C)	Back Porch(B)
1	640 x 480	31.469	59.940	-/-		H(Pixels)	25.175	800	640	16	96	48
						V(Lines)		525	480	10	2	33
2	800 x 600	37.879	60.317	+/-		H(Pixels)	40.000	1056	800	40	128	88
						V(Lines)		628	600	1	4	23
3	1024 x 768	48.363	60.004	-/-		H(Pixels)	65.000	1344	1024	24	136	160
						V(Lines)		806	768	3	6	29
4	1280 x 720	45.000	60.000	+/-		H(Pixels)	64.000	1440	1280	48	32	80
						V(Lines)		741	720	3	5	13
5	1280 x 1024	79.976	75.025	+/-		H(Pixels)	135.000	1688	1280	16	144	248
						V(Lines)		1066	1024	1	3	38
6	1920 x 1080	67.500	60.000	+/-		H(Pixels)	148.500	2200	1920	88	44	148
						V(Lines)		1125	1080	4	5	36
7	1920 x 1080	66.587	59.934	+/-	PIP Preferred timing	H(Pixels)	138.500	2080	1920	48	32	80
						V(Lines)		1111	1080	3	5	23
8	1280 x 2160	133.160	59.928	+/-	PBP_5:9 Preferred timing	H(Pixels)	191.750	1440	1280	48	32	80
						V(Lines)		2222	2160	3	10	49
9	3440 x 1440	88.819	59.973	+/-		H(Pixels)	319.750	3600	3440	48	32	80
						V(Lines)		1481	1440	3	10	28
10	2560 x 2160	133.272	59.978	+/-	PBP 10.5:9 Preferred	H(Pixels)	362.500	2720	2560	48	32	80
						V(Lines)		2222	2160	3	10	49
11	3840 x 2160	133.313	59.997	+/-	PBP_16:9 Preferred timing	H(Pixels)	533.250	4000	3840	48	32	80
						V(Lines)		2222	2160	3	5	54
12	5120 x 2160	110.589	50.018	+/-		H(Pixels)	583.910	5280	5120	8	32	120
						V(Lines)		2211	2160	18	8	25
13	5120 x 2160	133.367	60.021	+/-	"Recommend- ed Timing - Input Compatibility Version : 1.2"	H(Pixels)	704.180	5280	5120	8	32	120
						V(Lines)		2222	2160	23	8	31
14	5120 x 2160	191.148	85.030	+/-		H(Pixels)	1009.260	5280	5120	8	32	120
						V(Lines)		2248	2160	36	8	44
15	5120 x 2160	226.580	100.035	+/-		H(Pixels)	1196.340	5280	5120	8	32	120
						V(Lines)		2265	2160	45	8	52

No.	Resolution	Horizontal Frequency(kHz)	Vertical Frequency (Hz)	polarity (H/V)	Remark	section	Dot Clock [MHz]	Total Period(E)	Display (A)	Front Portch(D)	Sync (C)	Back Porch(B)
16	5120 x 2160	269.015	120.042	+/-	Recommend- ed Timing - Input Compatibility Version : 1.4 - Input Compatibility Version : 2.1	H(Pixels)	1420.400	5280	5120	8	32	120
						V(Lines)		2241	2160	33	8	40

2.4. HDMI Video input (for Manual)

No.	Factory support mode (Preset Mode)	Horizontal Frequency(kHz)	Vertical Frequency(Hz)	VIC	Remark
1	480P	31.5	60	0x01	
2	720P	45.0	60	0x04	
3	1080P	67.5	60	0x10	
4	1080P	135.0	120	0x3F	
5	2160P	135.0	60	0x61	
6	2160P	255.0	120	0x76	
7	2160P	135.0	60	0x7E	

BLOCK DIAGRAM



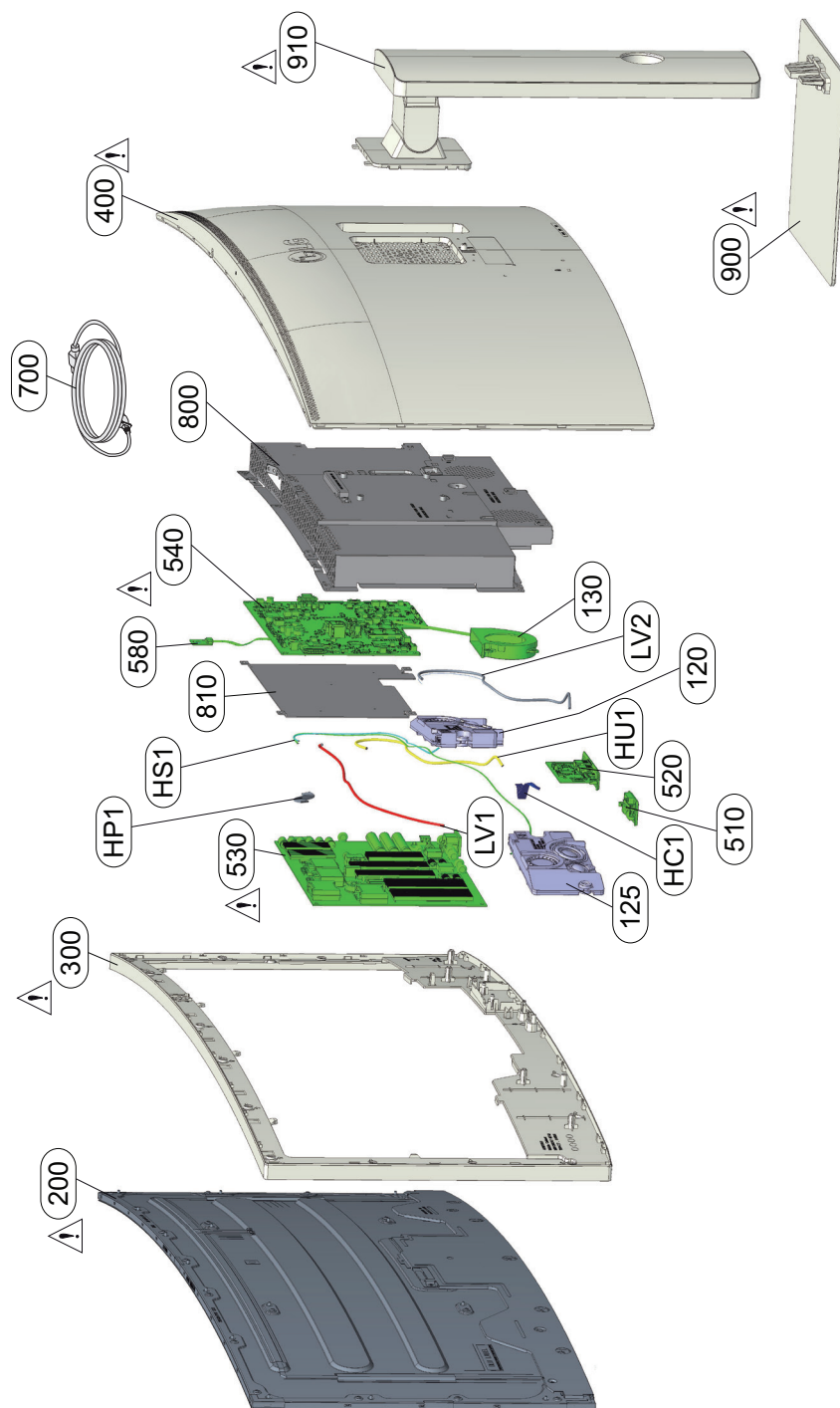
EXPLODED VIEW

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the EXPLODED VIEW.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent Shock, Fire, or other Hazards.

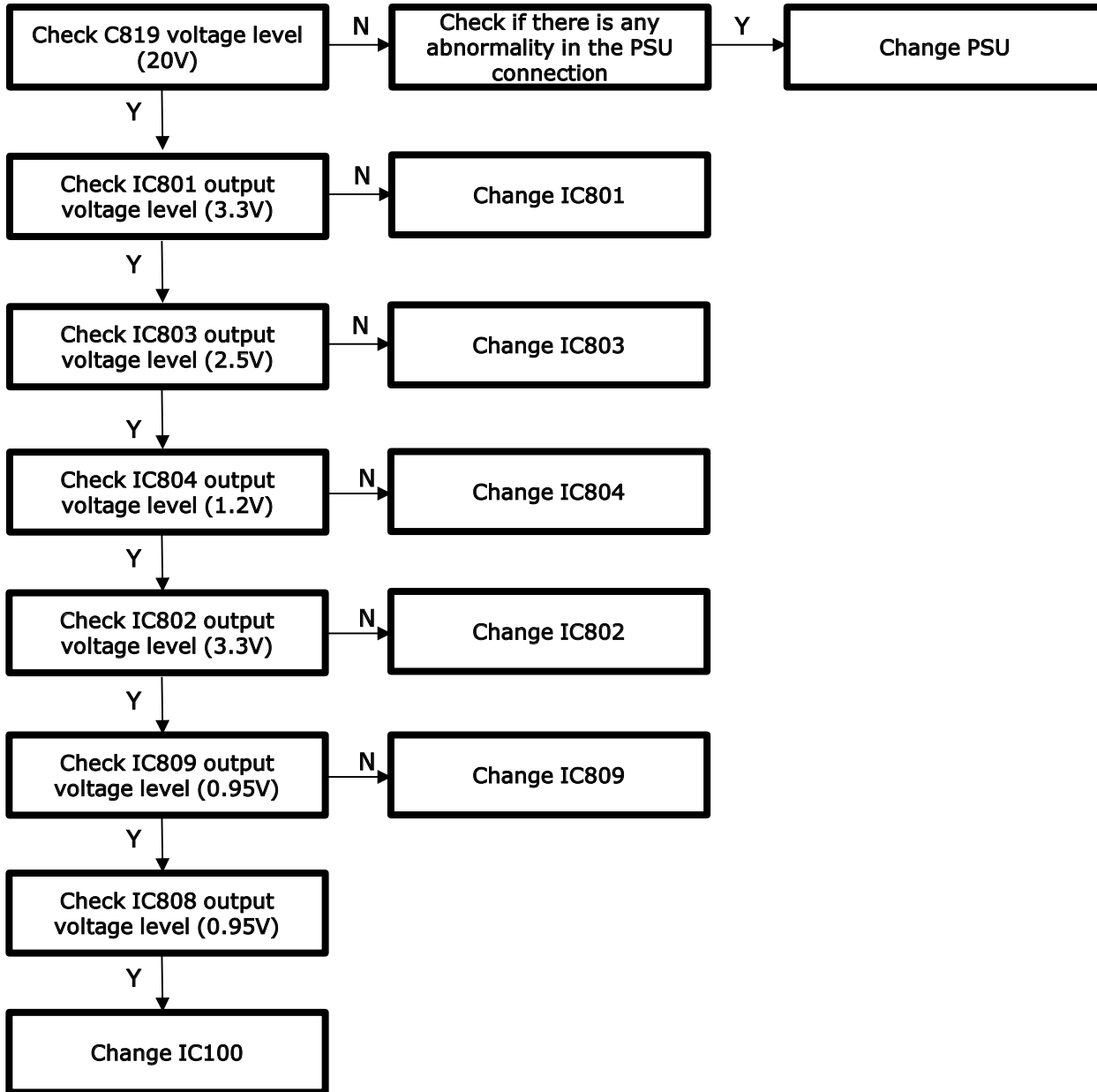
Do not modify the original design without permission of manufacturer.



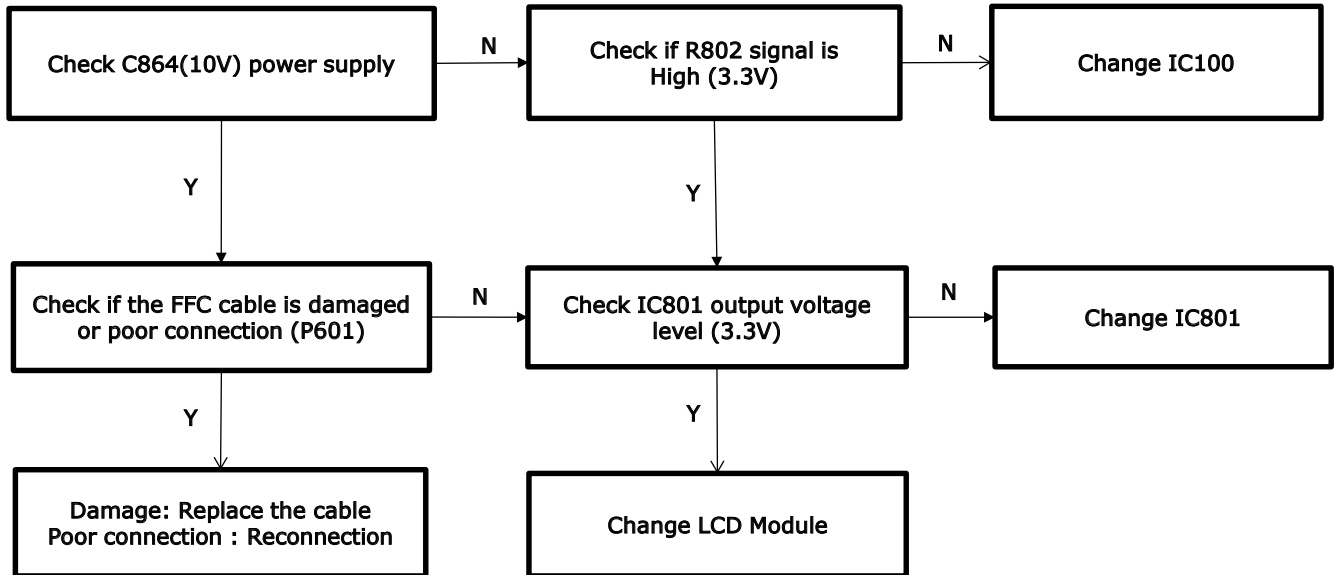
TROUBLE SHOOTING GUIDE

First of all, Check whether there is SVC Bulletin in GSCS System for these model.

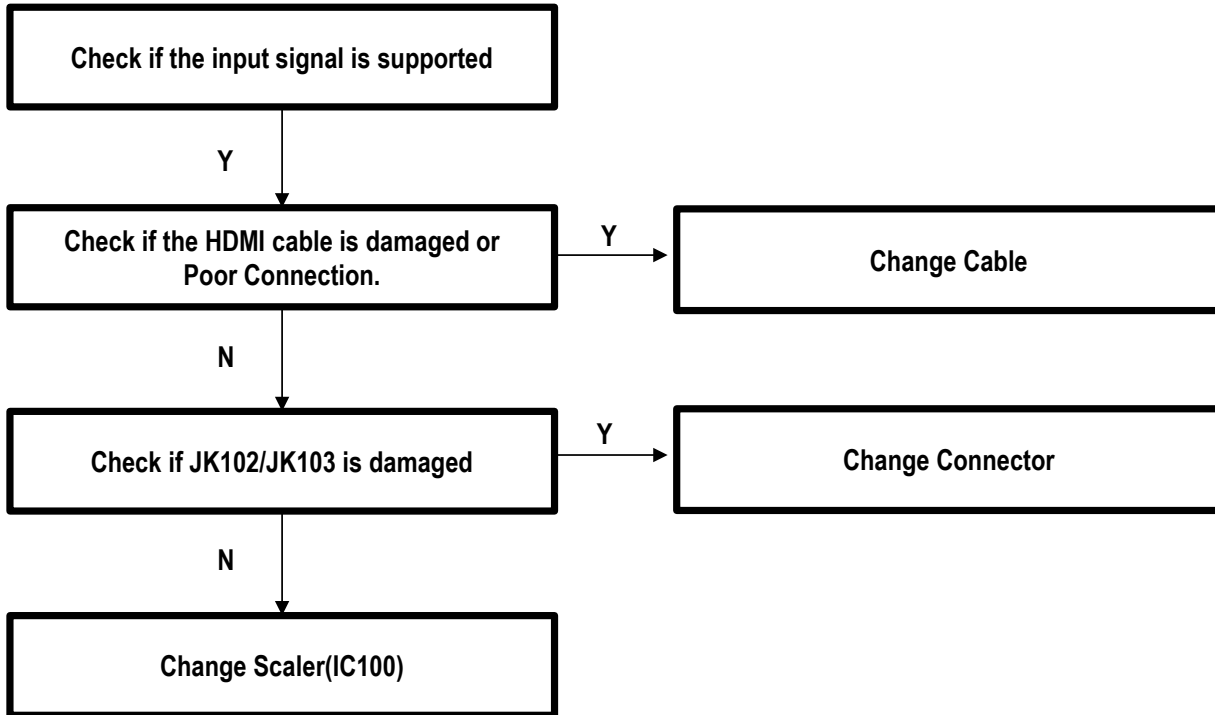
1. No Power



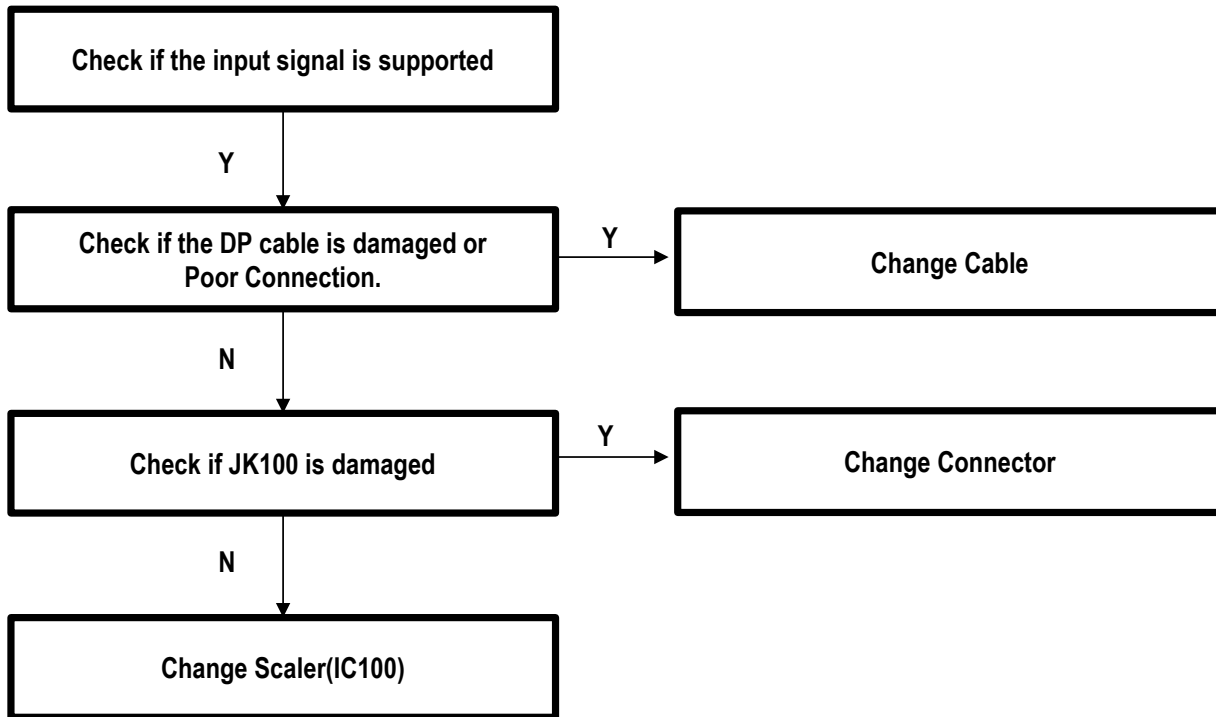
2. No Screen



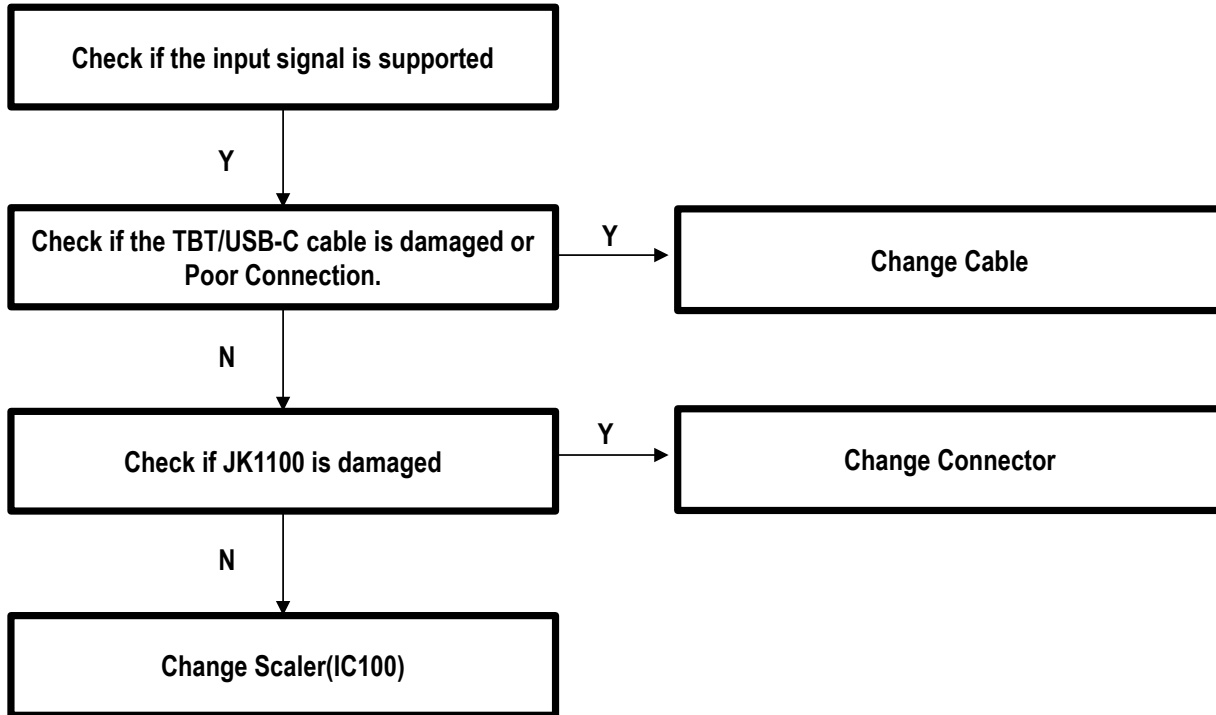
3. No Video – HDMI



4. No Video – DP



5. No Video – TBT/USB-C



DISASSEMBLE GUIDE

Disassembly process

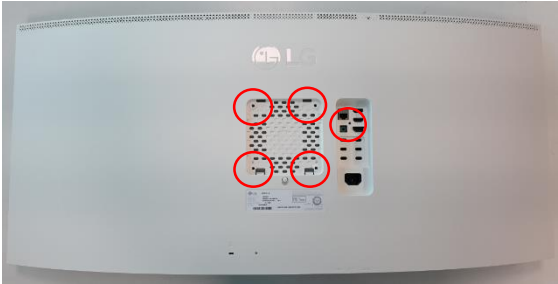
* Tools

Tool Description	Tool Size (if applicable)
Screw driver	
Plastic Jig	

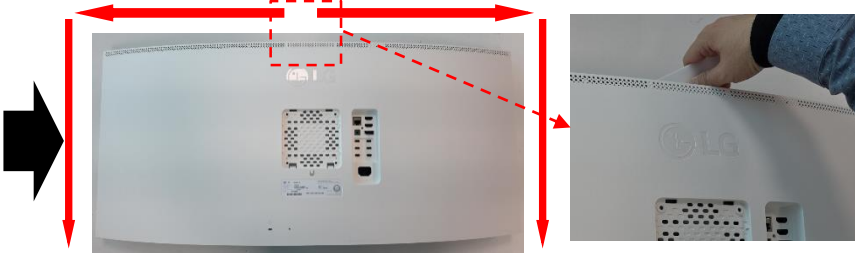
* Disassemble Process



① Put the Set on the Jig



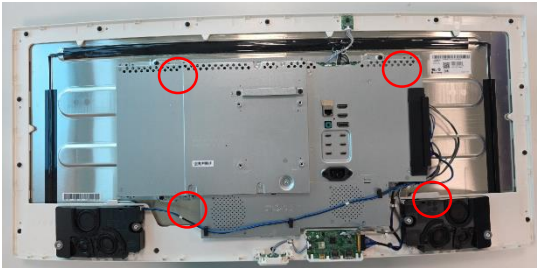
② loosen the screw



③ Insert Hera Jig at Upper Center point and disassemble Back Cover Assy (from the start point to the left and right direction)



④ Remove Back Cover Assy by hand

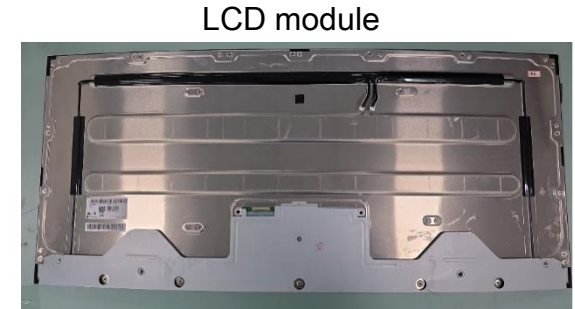
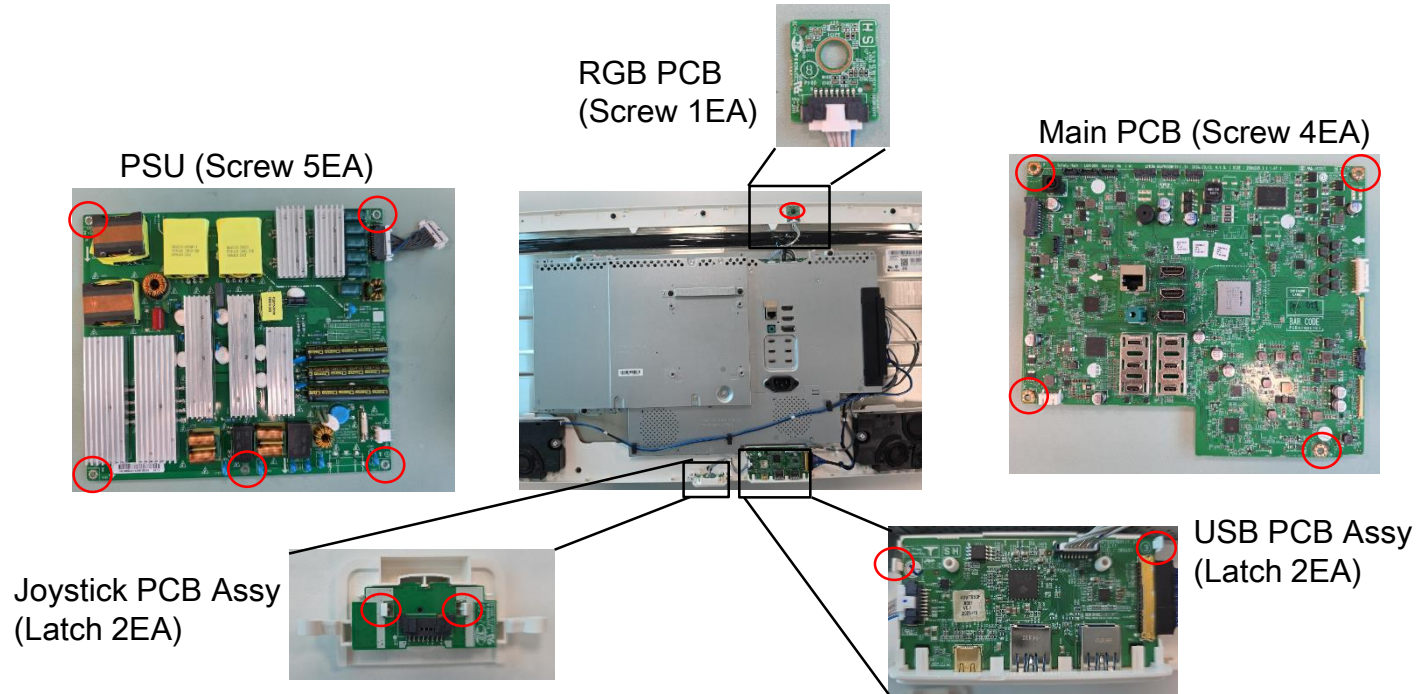


⑤ Remove M3 screw 4EA by screw driver

Disassembly process

⑥ Remove M3 screw 4EA by screw driver to get Main PCB

⑦ Remove M3 screw 5EA by screw driver to get PSU

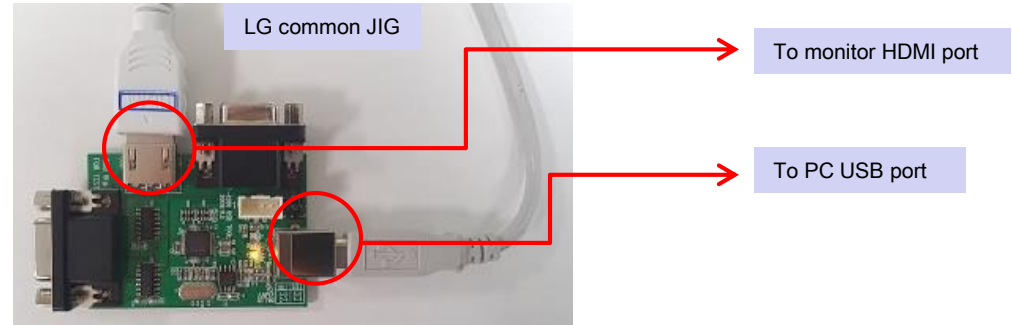
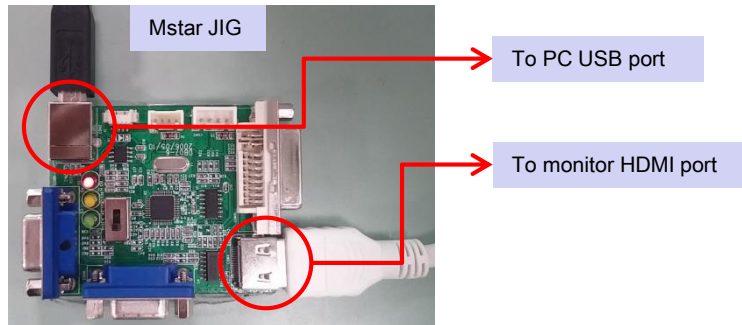


SOFTWARE UPDATE GUIDE

How to Update Scaler FW

► Download Jig Connection

1. Connect the jig to the monitor and PC



2. Unzip and install the driver files below



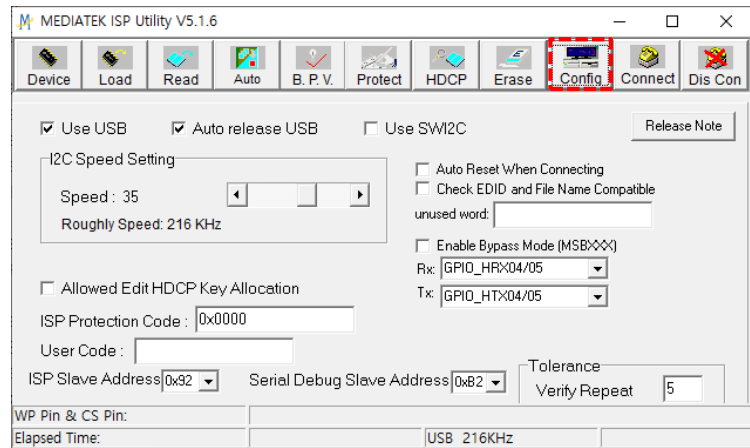
IPS_Tool_Driver_
Win7

3. Reboot PC after driver installation is complete

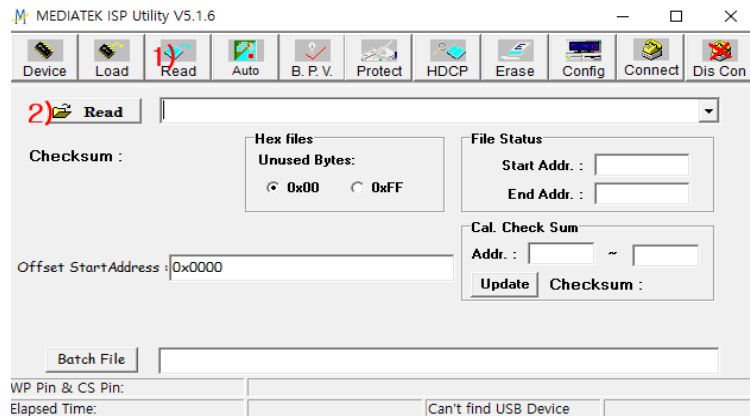
How to Update Scaler FW

► Scaler F/W Update Guide

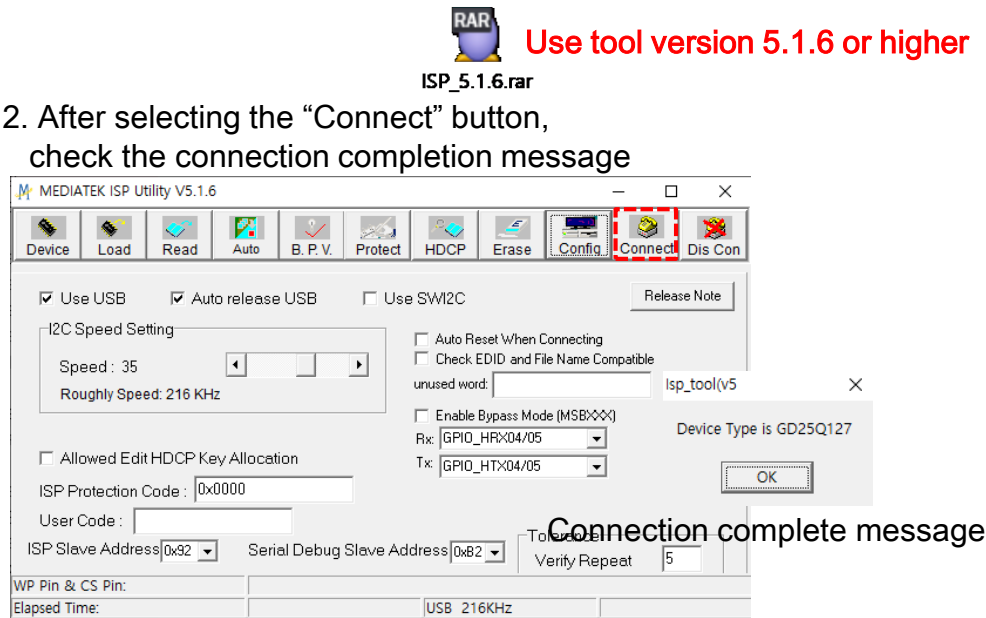
1. After selecting the “Config” button, check the settings below.



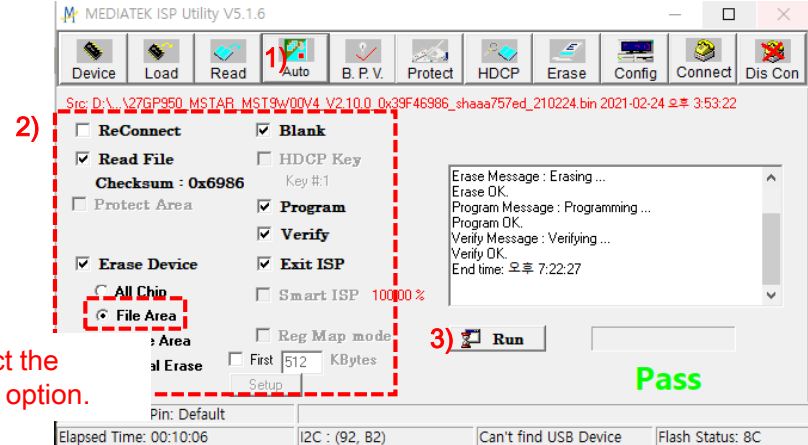
3. After selecting the “Read” button (1), select the button (2) to select the FW file to be updated.



2. After selecting the “Connect” button, check the connection completion message



4. After selecting the “Auto” button (1) and checking the checkbox setting (2), Select “Run” button(3) to proceed with the update.

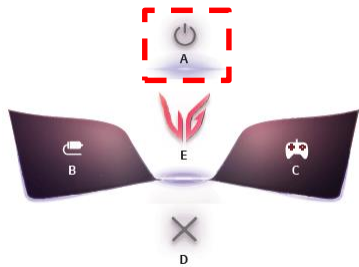


* must select the “File Area” option.

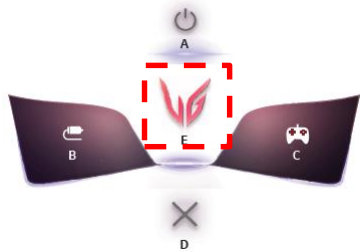
Service menu

► How to enter service menu

Step1. Turn monitor off and wait 5sec.

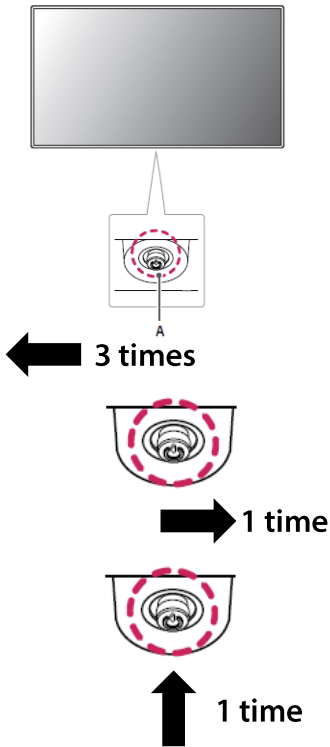


Step3. Select Settings from below menu.



Step2. Move jog key as below.

- Left->Left->Left->Right->OK



Step4. Set service menu items.



item	Description
CLEAR ETI	Reset elapsed time. -CLEAR ETI. Item is hidden. Move focus as left side. -Keep pushing Left(or right) key over 5sec to run CELAR ETI.
NVRAM INIT	Reset below data. -Factory calibration, S/N, production date, etc -Keep pushing Left(or right) key over 5sec to run NVRAM INIT.
Power History	Show power on/off history up to 50.
DEBUG Module OLED	Show how long monitor is used from previous Image cleaning. (000 min) And, it shows how many times Image cleaning is done. (00 times) This data is not initialized with 'General > Reset to Initial Settings'.

Step5.

Push OK button to exit SVC OSD.

To see normal Settings menu, DC off/on is required.

Power History

Message	Description
Power on/off by AC	Power on/off by connecting/disconnecting AC power
Power on/off by KEY	Power on/off using joystick key
Power on/off by Reset	Power on/off by General > Reset to Initial Settings
Power on by Signal	Power on by getting signal
Power on by Cable Detect	Power on by detecting cable connection while monitor is in DPM
Power on by IR Power	(Remote controller models only) Power on using remote controller power button
Power on by IR Input	(Remote controller models only) Power on using remote controller input button
Power off by DPM	Power off by entering power saving mode
Power off by APD	Power off by Automatic standby
Power off by FAN Error	Power off by Fan is not working. (Power is turned off within 1min when Fan doesn't work.) ※ Need to check fan if monitor keeps turning off by fan error.
Power off by SW Update	Power off while updating SW with OSC
Power off by PANEL	Power off by panel fault ※ Need to check panel if monitor keeps turning off by panel error.

