

LC370WXN-SAB1-621

[RoHS Verified]

SERVICE MANUAL



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SAFETY PRECAUTIONS

Review the following safety precautions to avoid injury and prevent damage to this product or any products connected to it. To avoid potential hazards, use this product only as specified.

Only qualified personnel should perform service procedures.

LCD Module is a display device to be divided into Board Assembly and Backlight Assembly. Board Assembly consists of electric circuitry, PCB and two sheets of glass. Polarizer films are attached on each surface. The space between two sheets of glass are filled with Liquid Crystal. And the Backlight Assembly includes Lamp Assembly, optical sheets(Diffuser, Prism), optical plate, supporter main.

When using / handing this LCD Module, pay attention to the below warning and cautions.

Warning?

Warning statements identify conditions or practices that could result in injury or loss of life if the warning is ignored and the product is handled incorrectly.

Caution?

Caution statements identify conditions or practices that could result in damage to this product or other property if the caution is ignored and the product is handled incorrectly.

I . WARNING

- (1) Do not supply a voltage higher than that specified to this product. This may damage the product and may cause a fire.
- (2) Do not use this product in locations where the humidity is extremely high, where it may be splashed with water, or where flammable materials surround it.

- (3) Do not install or use the product in a location that does not satisfy the specified environmental conditions. This may damage the product and may cause a fire.
- (4) If a foreign substance (such as water, metal, or liquid) gets inside the product, immediately turn off the power. Continuing to use the product and cause fire or electric shock.
- (5) If the product emits smoke or abnormal noise, immediately turn off the power. Continuing to use the product cause fire or electric shock.
- (6) Do not disconnect or connect the connector while the power is on.
- (7) Do not pull out or insert the power cable from/to an outlet with wet hands. It may cause electric shock.
- (8) If the power cable is damaged or the connector is loose, do not use the product : otherwise this can lead to fire or electric shock.
- (9) Backlight Inverter uses a high voltage for Lamp. Do not touch circuit substrate and caution on electric shock when handling the LCD Module Backlight Inverter unit.



II . CAUTION

- (1) Do not place this product in a location that is subject to heavy vibration, or an unstable surface such as an inclined surface. The product may fall off or fall over, causing injuries.
- (2) Before disconnecting cable from the product, be sure to turn off the power. Be sure to hold the connector when disconnecting cables. Pulling a cable with excessive force may cause the core of the cable to be exposed or break the cable, and this can lead to fire or electric shock.
- (3) This product contains glass. If shock, vibration, heat or distortion is applied to the product, the glass may be broken.
- (4) If glass surface of the display breaks or is scratched, do not touch the broken pieces or the scratched with bare hands. You may be injured.
- (5) LCD Module requires to be handled with special care. LCD Module is not to be touched with metal or hard materials. Must not be stressed by heat or mechanical impact.
- (6) There are some particular components on the rear panel of this product. Skin contact with these components may cause an electric shock. So, handle with care.
- (7) While moving the product, be sure to turn off the power, disconnect all cables and watch your step. Dropping the product may cause injuries from electric shock. So, while moving the product handle with care.
- (8) When cleaning the panel is necessary, wipe it with a soft and moistened cloth a neutral detergent. Caution on connector area. Do not use chemicals such as thinner or benzene.
- (9) LCD Module emits heat from the Lamp, Backlight lamp, component parts. Therefore, the environmental temperature must not exceed 50°C. LCD Module Backlight Inverter system is driven by high voltage, so it must avoid conductive materials.
- (10) If repairing components with a lead line, high voltage or high temperature components must be put out from a lead line and fix.
- (11) Do not place an object on the surface of the display. The glass may break or be scratched.
- (12) This product may be damaged if it is subject to excessive stresses (such as excessive voltage, current, or temperature). The absolute maximum ratings specify the limits of these stresses.
- (13) Do not cover or wrap with any covering materials while power is applied to the product.
- (14) This product is made from various material such as glass, metal, and plastic. When discarding it, be sure to contact a purchase place.
- (15) If a discrepancy occurs due to any arbitrary modification or disassembly, LG Display is not responsible for function, quality or other items.
- (16) Within the warranty period, general faults may be charged for depending on responsibility for the faults. You handle with care.



SERVICING PRECAUTIONS

Color TFT LCD Module is apt to be damaged by both electrical and mechanical stresses. Users, therefore, are requested to follow the “Servicing precautions of color TFT LCD Module” on the followings.

CAUTION “Before servicing the module, read the safety precautions in this manual.”

I . System Assembler

(1) Follow power sequence.

- Abnormal power sequence may cause critical malfunction or electrical damage.

(2) Prevent physical stress.

(3) Prevent overheat.

- High temperature on the surface of the screen may cause poor quality. Please make LCD Module used on specified temperature.
- Low temperature under 10℃ makes LCD Module respond slowly, make Backlight worse operated and shorten very much the lifetime accordingly.

(4) Keep LCD Module dust-free.

- LCD Module is sensitive against dust. Dust can cause visual or functional problem.

(5) Do not touch TCP area.

- Do not touch TCP area at any case. It causes Driver IC crack, film crack etc. TCP is the weakest point of LCD Module.

(6) Do not pull Backlight wire.

- Please do not pull the Backlight wire it can cause the wire disconnected or damaged.

(7) Check a connection of the Inverter & Backlight connectors.

- Incomplete connection with can cause burnt in Backlight connector or damage the inverter.

(8) Handle with care.

- Please do not drop, bend or hit the LCD Module. Physical stress can cause the defect such as broken.

(9) Keep mounting screw length and motor driver's torque.

- Strong weaken motor driver's torque can make a mechanical defect on LCD Module. Please keep the specification.

(10) Do not operate for a long time under the same pattern.

- Operating LCD Module for a long time under the same pattern can cause image persistence and can damage it.

(11) Defect panel also handled with care.

- To prevent making another defect, please handle the defective LCD Module as a good one.
- Defective LCD Module should be repaired.

(12) Do not stack LCD Modules.

- LCD Module consists of fragile components such as TCPs or Glasses.
- Stacking LCD Module can cause undesired defects.



(13) Do not provide strong pressure at connecting.

- Strong pressure can transfer the force to TCP which is the weakest parts of LCD Module. Eventually can make TCP crack or other unexpected defect.

(14) Let the Backlight Wire backside of LCD Module.

- If let the Backlight wire front side of LCD Module, the Backlight connector can hurt the surface of polarizer.

(15) Never connect/disconnect at power on.

- LCD Module consists of CMOS which is known as weak component against EOS. It can hurt the product.

(16) Electro-static discharge can make damage.

- Semi-assembled product should be handled with wrist strap.
- Earth human body when handle the LCD Module. Please do not touch the interface connector pin.

II . System Assembler/End User

(1) Keep clean the surface.

- Please wear rubber glove when touch the surface of LCD Module screen.
- Please use soft and anti-static material with n-Hexane as cleaner.

(2) Be careful not to make polarizer scratch.

- Surface of polarizer is soft, so it's easily scratched.
- Please do not touch, press or rub on polarizer surface with materials over HB hardness.

(3) Be careful swift Temperature & Humidity change.

- Swift temperature and or humidity change can make dew condensation or ice which cause nonconformance such as malfunction.

(4) Keep out of water.

- Water on in the LCD Module can cause electrical short or corrosion.
- Please wipe out or dry water carefully.

(5) Keep LCD Module corrosive gases free.

- Corrosive gas makes the polarizer and the circuitry parts chemical damages and eventually cause defects.

(6) Keep the suitable temp. & suitable humidity.

- High temp. & high humidity shorten the lifetime.



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* Annexing : Schematic Diagram / Printed Circuit Board

Product Overview

General Description

TFT-LCD is made up of the lower plate glass with TFT, the upper plate glass with color filter, the middle Liquid Crystal. TFT convey and control the signal and the Liquid Crystal control transmitted ray as molecular structure different by admitted volt. And as the ray pass color filter, show up the wanted color and picture.

The LC370WXN-SAB1 is 37.02 inches diagonally measured active display area with WXGA resolution(768 vertical by 1366 horizontal pixel array). Each pixel is divided into Red, Green and Blue sub-pixels or dots which are arranged in vertical stripes. Gray scale or the brightness of the sub-pixel color is determined with a 10-bit gray scale signal for each dot, thus, presenting a palette of more than 16.7M(true) of colors.

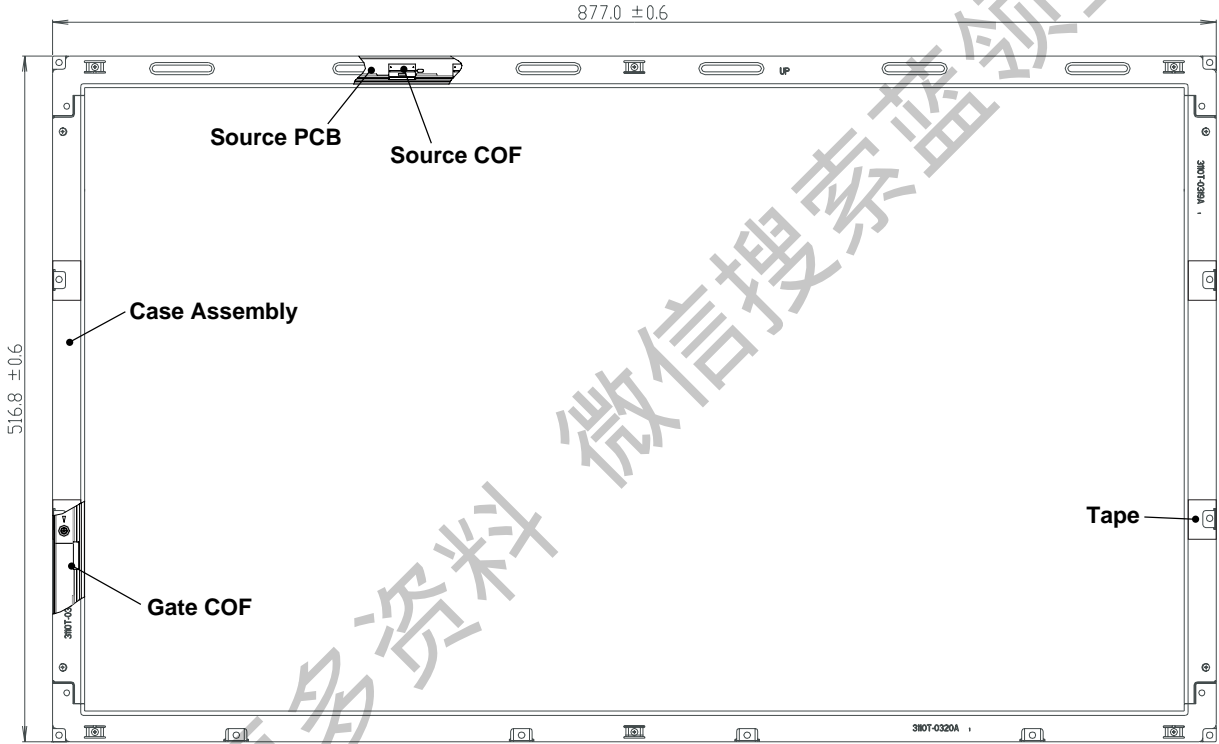
The LC370WXN-SAB1 has been designed to apply the 8-Bit 1port LVDS interface. The LC370WXN-SAB1 is intended to support LCD TV, PCTV where high brightness, super wide viewing angle, high color gamut, and high color depth and fast response time are important.

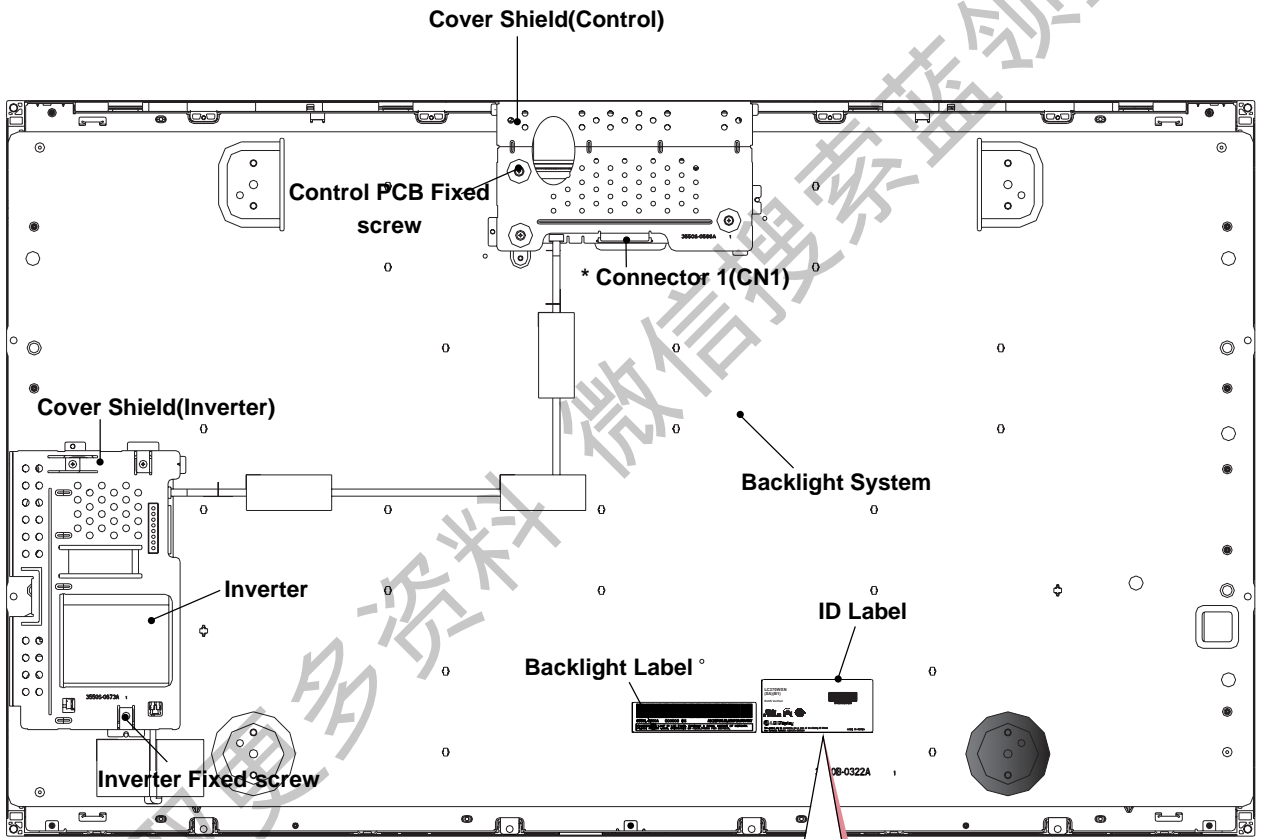
General Features

Active Screen Size	37.02 inches(940.3mm) diagonal
Outline Dimension	877.0mm(H) × 516.8mm(V) × 55.5mm(D) (Typ.)
Pixel Pitch	0.200 mm × 0.600 mm × RGB
Pixel Format	1366 horiz. By 768 vert. Pixels RGB stripe arrangement
Color Depth	8-bit, 16.7M colors
Luminance, White	500 cd/m ² , (Center 1 point Typ.)
Power Consumption	Total 123.9Watt (Typ.)
Weight	9000g (Typ.)
Display Operating Mode	Transmissive mode, normally black
Surface Treatment	Hard coating(3H), Anti-glare treatment of the front polarizer(Haze13%)

Module Formation


* Connector 1(CN1) : User Connector








LC370WXN
(SA)(B1)

RoHS Verified



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LG Display

MADE IN KOREA

This product may be covered by one or more of the following
US Patent Nos. 5,041,823 ; 5,061,920 ; 5,280,371 ; 5,835,139

MODULE CONNECTOR(CN1) PIN CONFIGURATION

NO	Symbol	Description	Note
1	VLCD	Power Supply +12.0V	
2	VLCD	Power Supply +12.0V	
3	VLCD	Power Supply +12.0V	
4	VLCD	Power Supply +12.0V	
5	GND	Ground	
6	GND	Ground	
7	GND	Ground	
8	GND	Ground	
9	Select	Select LVDS Data format	
10	DCR Enable	Dynamic CR Enable ('L' = Disable , 'H' = Enable)	
11	GND	Ground	
12	RA-	LVDS Receiver Signal(-)	
13	RA+	LVDS Receiver Signal(+)	
14	GND	Ground	
15	RB-	LVDS Receiver Signal(-)	
16	RB+	LVDS Receiver Signal(+)	
17	GND	Ground	
18	RC-	LVDS Receiver Signal(-)	
19	RC+	LVDS Receiver Signal(+)	
20	GND	Ground	
21	RCLK-	LVDS Receiver Clock Signal(-)	
22	RCLK+	LVDS Receiver Clock Signal(+)	
23	GND	Ground	
24	RD-	LVDS Receiver Signal(-)	
25	RD+	LVDS Receiver Signal(+)	
26	GND	Ground	
27	VBR_OUT	VBR output form LCD module	
28	VBR_EXT	External VBR input from System to LCD module	
29	Reserved	Low or NC : Normal Operating High : Interlace Free Mode	
30	GND	Ground	

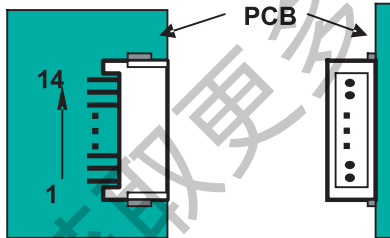
- LCD Connector(CN1) : FI-X30SSL-HF (Manufactured by JAE) or Equivalent

- Mating Connector : FI-X30C2L (Manufactured by JAE) or Equivalent

INVERTER Connector Pin configuration

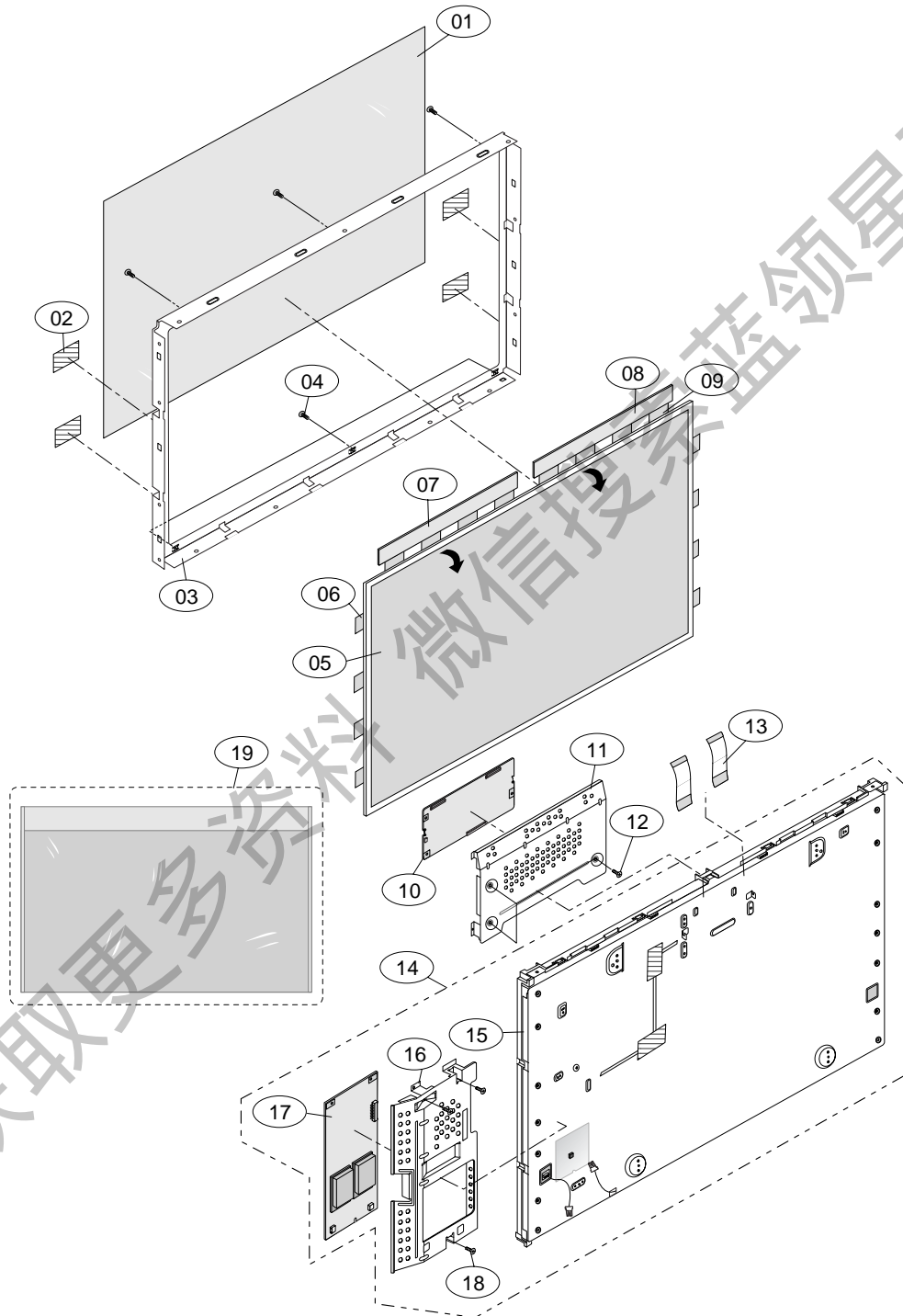
NO	Symbol	Description	Inv.	Note
1	VBL	Power Supply +24.0V	VBL	
2	VBL	Power Supply +24.0V	VBL	
3	VBL	Power Supply +24.0V	VBL	
4	VBL	Power Supply +24.0V	VBL	
5	VBL	Power Supply +24.0V	VBL	
6	GND	Backlight Ground	GND	
7	GND	Backlight Ground	GND	
8	GND	Backlight Ground	GND	
9	GND	Backlight Ground	GND	
10	GND	Backlight Ground	GND	
11	VBR-A	Analog dimming voltage DC 0.0V ~ 3.3V (Typ : 1.65V)	VBR-A	
12	VON/OFF	0.0V ~ 5.0V	On/Off	
13	VBR-B	Burst dimming Voltage DC 0.0V ~ 3.3V	VBR-B	
14	Status	Normal : Upper 3.0V Abnormal : Under 0.7V	Status	

Inverter Connector : S14B-PH-SMC
(manufactured by YeonHo) or Equivalent
- Mating Connector : PHR-14 or Equivalent



1. Connector
 - 1) Connector(Receptacle)
: S14B-PH-SMC-TB (JST or Yeon Ho)
 - 2) Mating Connector(Plug)
: PHR14 (JST)
- * JST : Japan solderless Terminal Co.,Ltd.

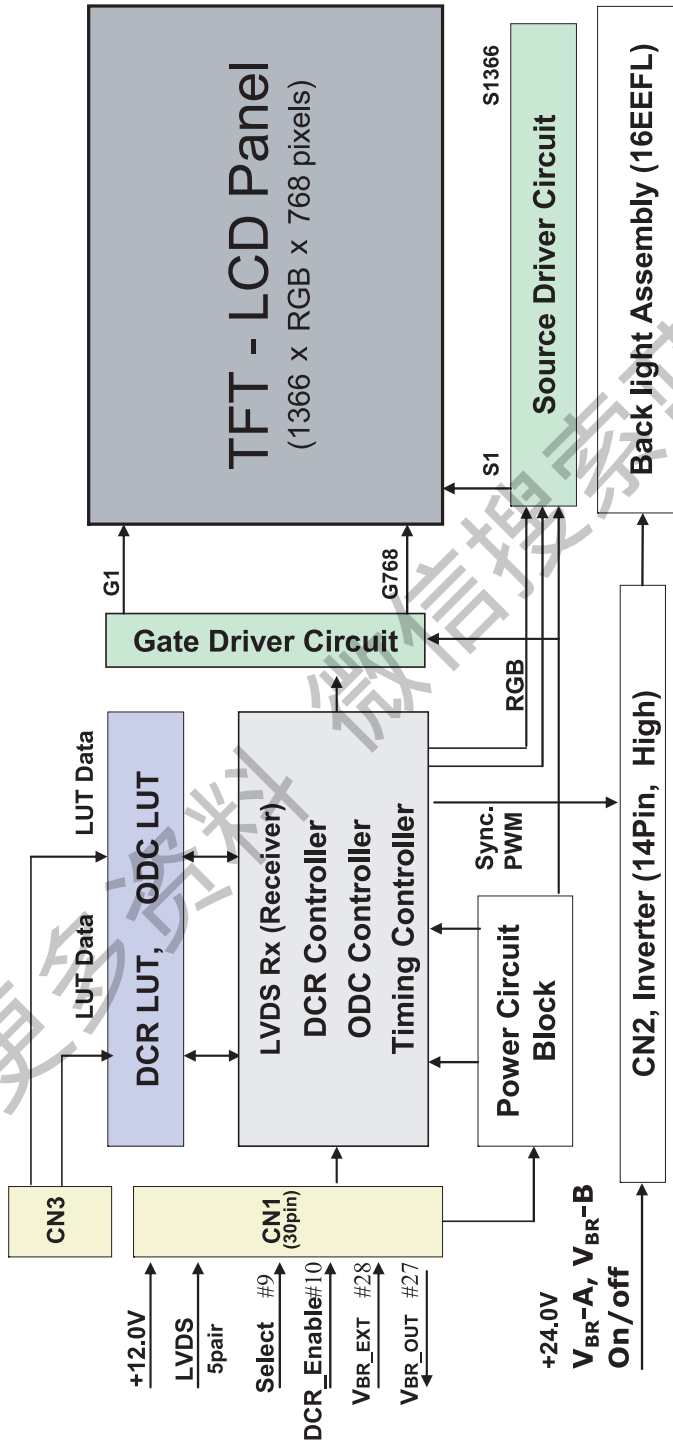
Exploded View



Exploded View Parts List

No.	PART NO.	DESCRIPTION
01	5135L-0022F/0053J/0013K	PROTECT FILM
02	7250L-0082C	OPP Film Tape
03	3111L-0236A	Case Top Assembly
04	4000L-0006A	SCREW
05	6308L-1084A/1618A/1231A	POLARIZER(TOP)
	6308L-1085A/1619A/1232A	POLARIZER(BOTTOM)
06	0I0KL-0114A	COF(D-IC, Gate)
07	6871L-1353A	PWB(PCB) Assembly, Source _ Left
08	6871L-1354A	PWB(PCB) Assembly, Source _ Right
09	0ILUL-0049A	COF(D-IC, Source)
10	6871L-1385A	PWB(PCB) Assembly, Control
11	3550S-0566A	Metal Cover Shield,Control
12	4000L-0006B	SCREW
13	6851L-0090A	FFC
14	6900L-0229G	Backlight System
15	6091L-0716F	Backlight Assembly
16	3550S-0587A	Metal Cover Shield,INV.
17	6632L-0504A	INVERTER
18	4000L-0038A	SCREW
19	3880L-0016K	BAG

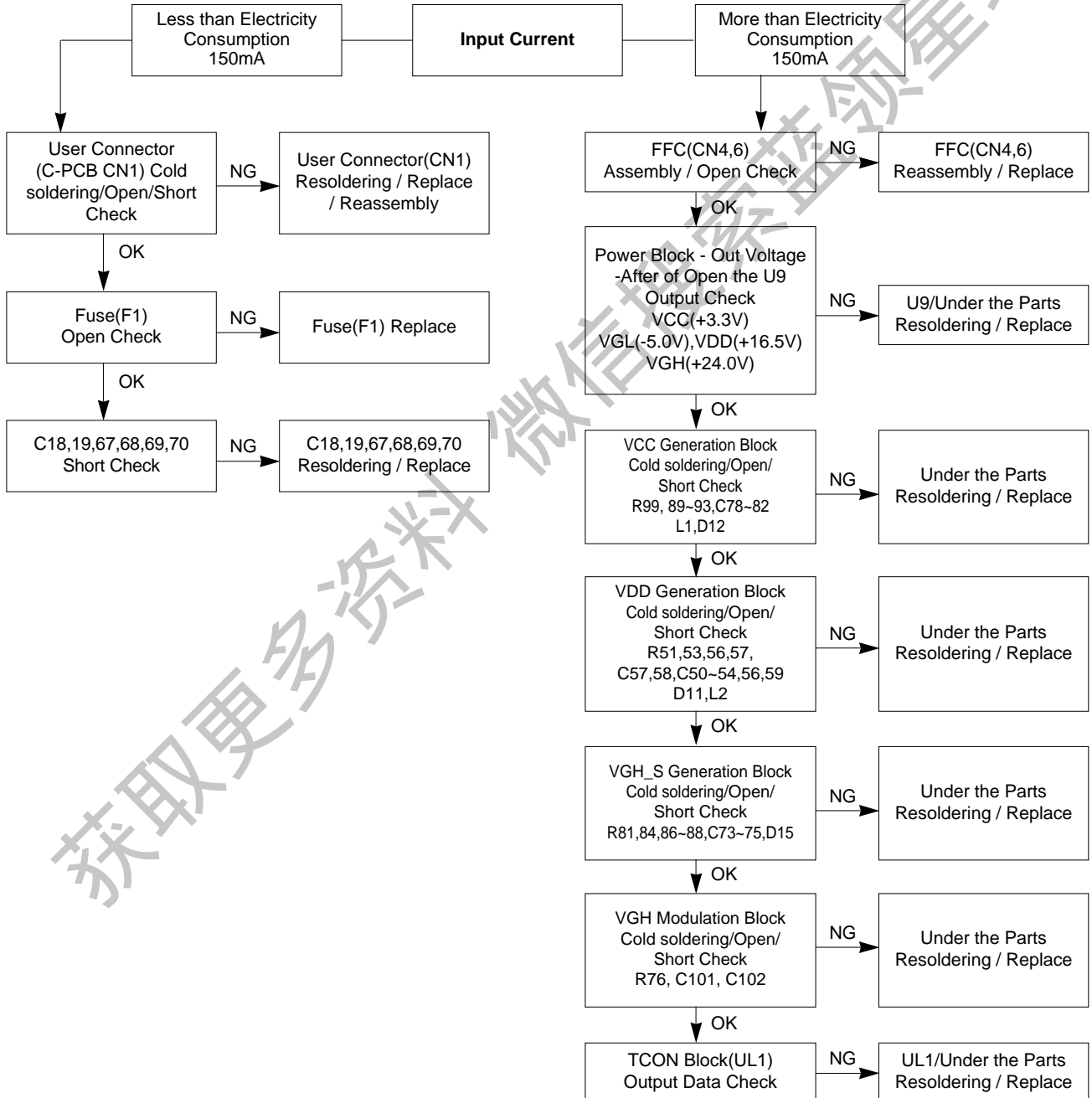
Block Diagram



Trouble shooting

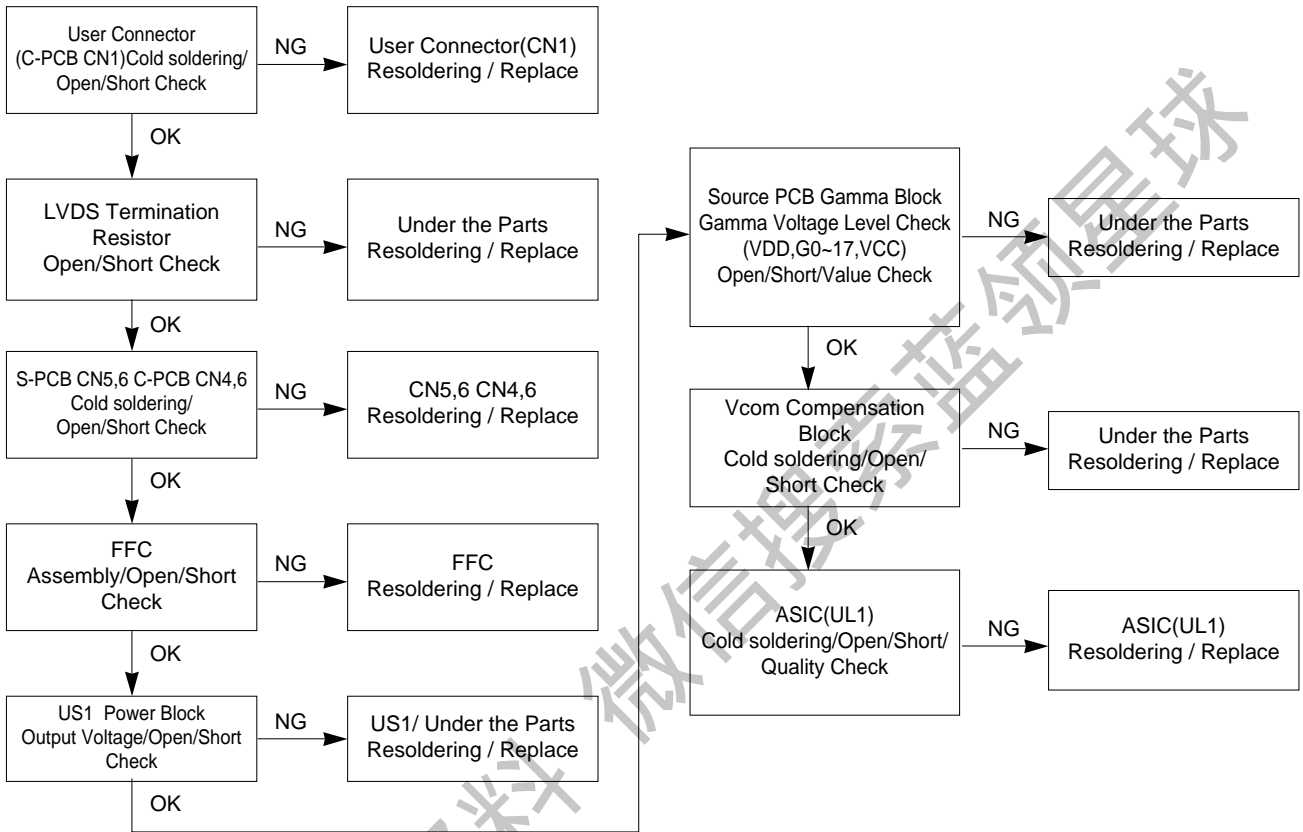
1 No Display

Means that the screen is not affected by the signal data when you connect the product to Backlight or user connector and then 12V input power ON/OFF.

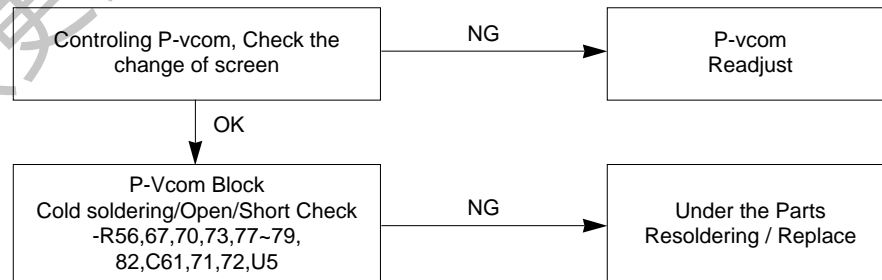


2 Abnormal Display

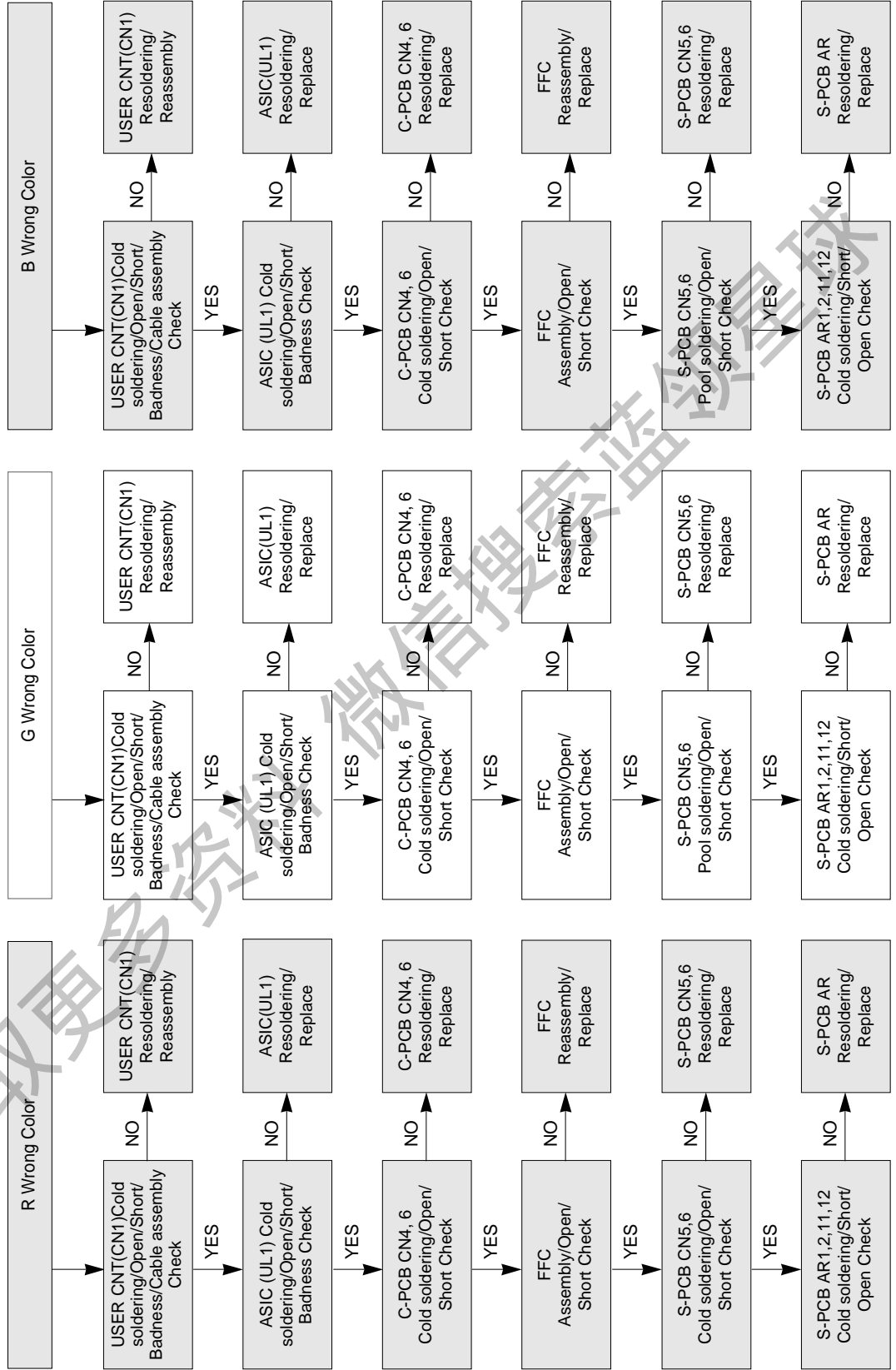
Means that the screen is affected by the signal data when you connect the product to Backlight or user connector and then turn 12V input power ON/OFF.



3 Flicker



4 Abnormal Color Means that the abnormal screen displays at specified color when you connect the product to Backlight or user connector and then turn 12V input power ON/OFF.



Signal Timing Specifications

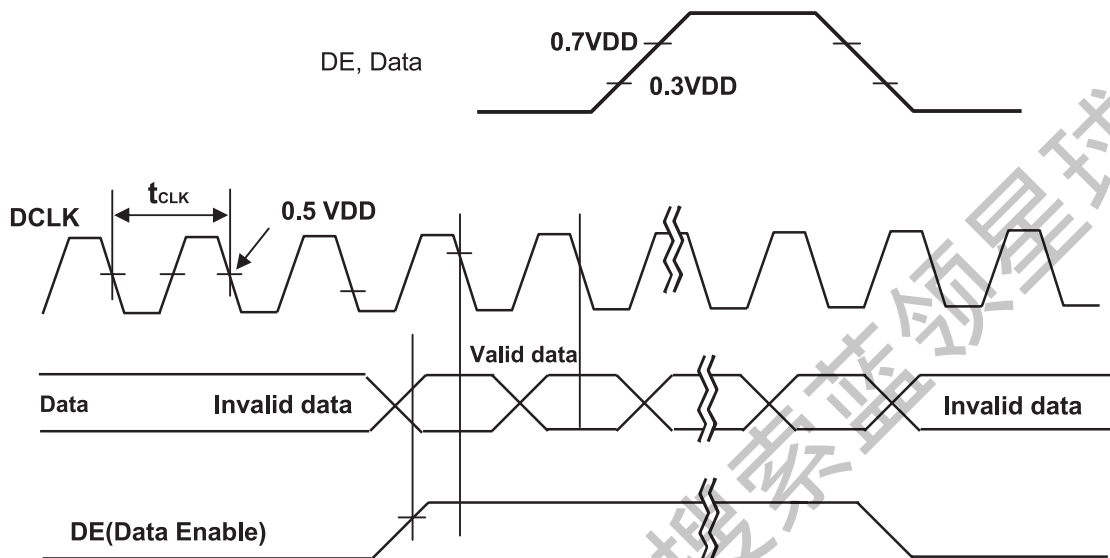
TIMING TABLE for NTSC

Item		Symbol	Min.	Typ.	Max.	Unit	Notes
DCLK Period		t_{CLK}	12.5	13.8	15.8	nsec	
DCLK Frequency		f_{CLK}	63.0	72.4	80.0	MHz	
Vertical	Frequency	f_V	57	60	63	Hz	
	Valid	t_{VV}	-	768	-	Line	
	Blank	$t_{VT} - t_{VV}$	8	22	295	Line	
	Total	t_{VT}	776	790	1063	Line	
Horizontal	Frequency	f_H	45	47.4	50	KHz	
	Valid	t_{HV}	-	1366	-	t_{CLK}	
	Blank	$t_{HT} - t_{HV}$	90	162	410	t_{CLK}	
	Total	t_{HT}	1456	1528	1776	t_{CLK}	

TIMING TABLE for PAL

Item		Symbol	Min.	Typ.	Max.	Unit	Notes
DCLK Period		t_{CLK}	12.5	13.8	15.8	nsec	
DCLK Frequency		f_{CLK}	63.0	72.4	80.0	MHz	
Vertical	Frequency	f_V	47	50	53	Hz	
	Valid	t_{VV}	-	768	-	Line	
	Blank	$t_{VT} - t_{VV}$	8	180	295	Line	
	Total	t_{VT}	776	948	1063	Line	
Horizontal	Frequency	f_H	45	47.4	50	KHz	
	Valid	t_{HV}	-	1366	-	t_{CLK}	
	Blank	$t_{HT} - t_{HV}$	90	162	410	t_{CLK}	
	Total	t_{HT}	1456	1528	1776	t_{CLK}	

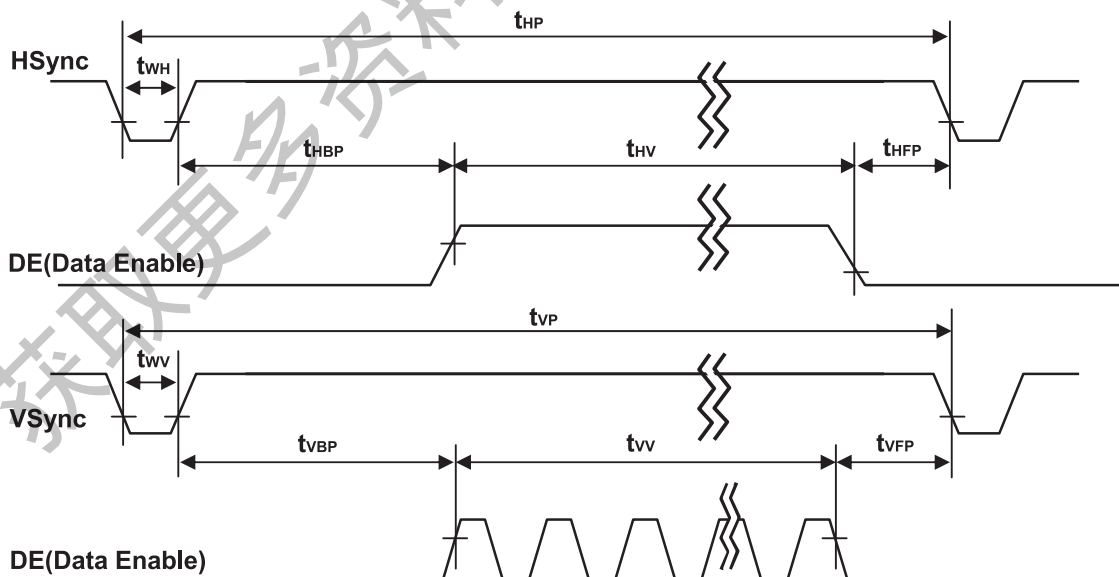
Signal Timing Waveforms



* Reference : Sync. Relation

$$* t_{HB} = t_{HFP} + t_{WH} + t_{HBP}$$

$$* t_{VB} = t_{VFP} + t_{VW} + t_{VBP}$$

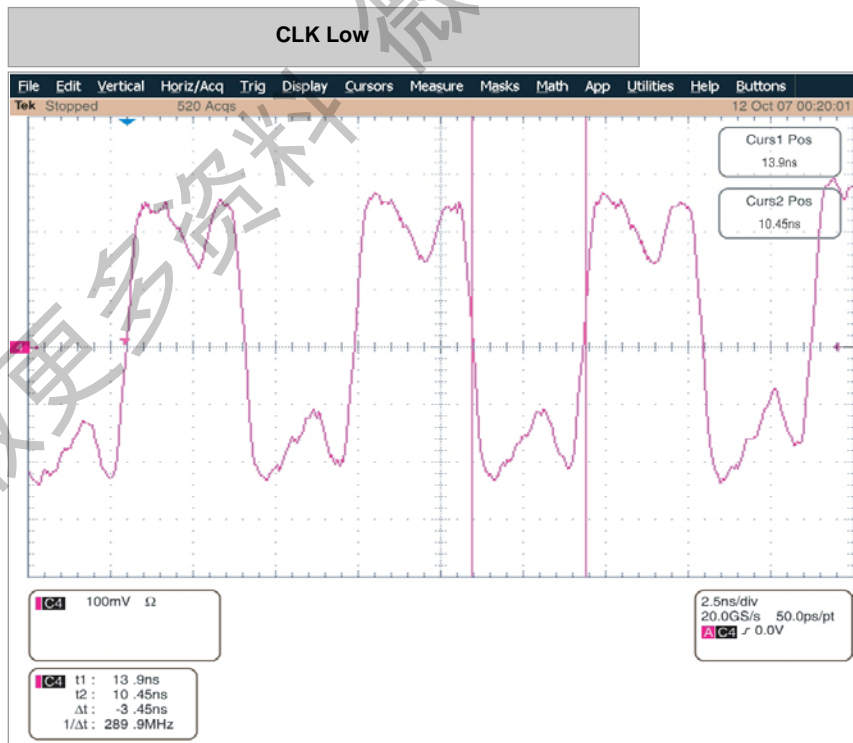
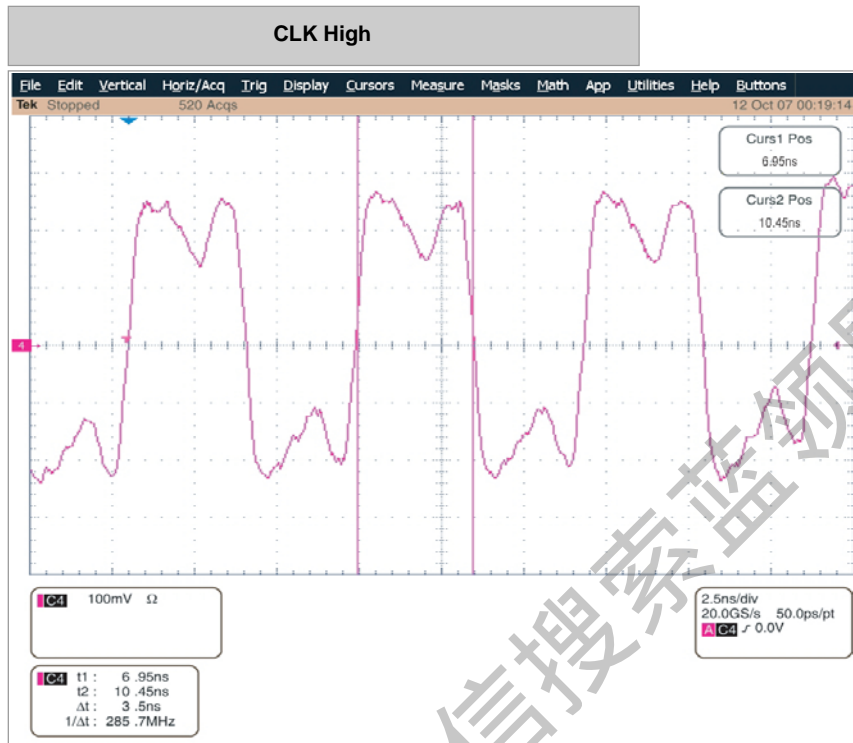


Timing Check Sheet

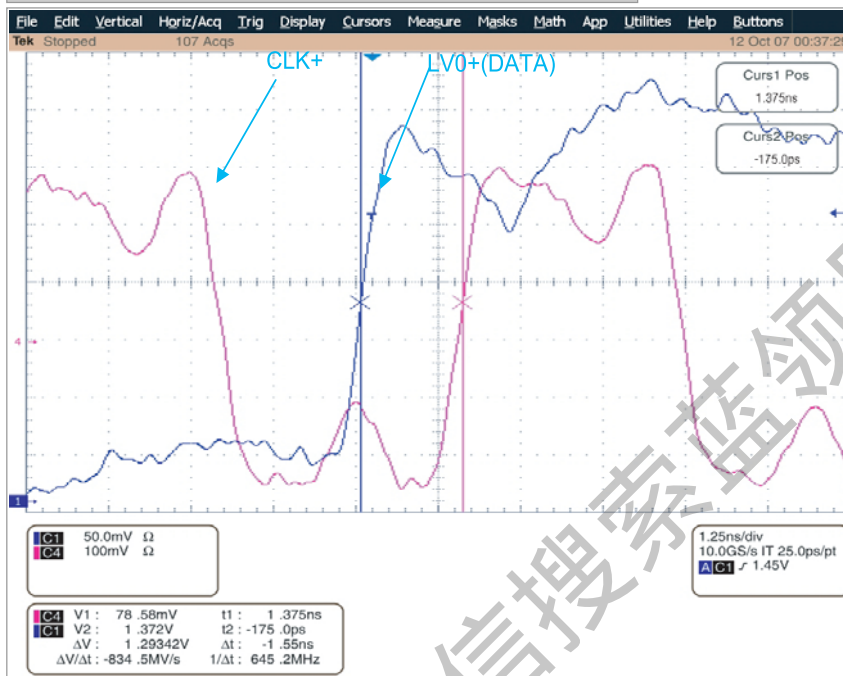
Timing Margin Test Results

- Test Condition : VCC=3.3V, DCLK=72.3MHz, Nomal temperature(25°C)
- Test Pattern : White Patten(255)
- Test Signal : CLK, DATA, SOE, POL
- Criteria : Source D-IC spec. Logic high voltage level(0.7VDD)/ low voltage level(0.3VDD)

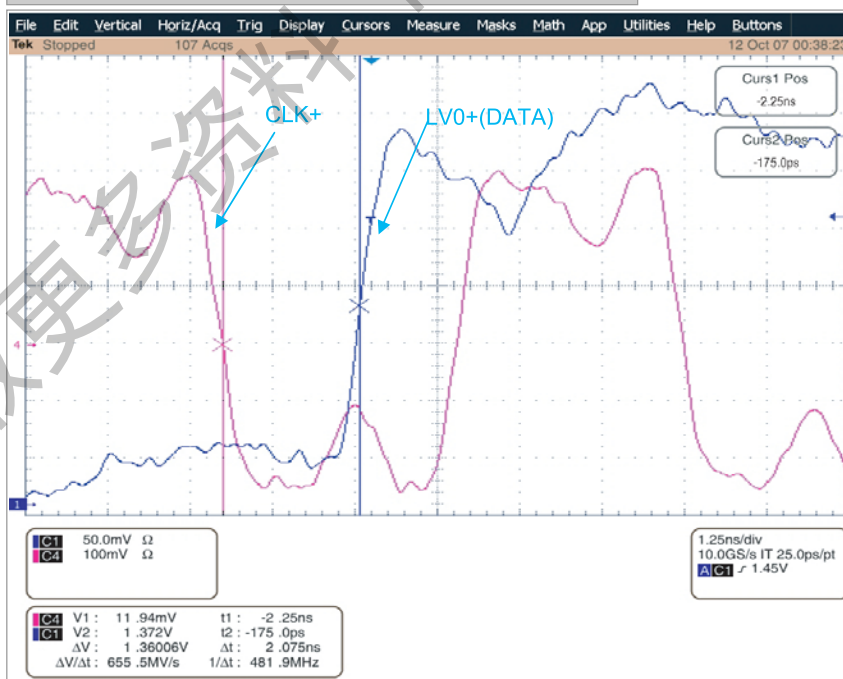
Item	TI D-IC Spec. (min.)	Test Results	Unit	Note	Judgements
CLK pulse cycle	2.8	6.95	ns		OK
CLK HIGH	1.2	3.5	ns		OK
CLK LOW	1.2	3.45	ns		OK
DATA Setup time	0.9	1.55	ns		OK
DATA Hold time	0.9	2.07	ns		OK
POL Setup time	-5.0	861	ms	-	OK
POL Hold time	6.0	18.66	us	-	OK

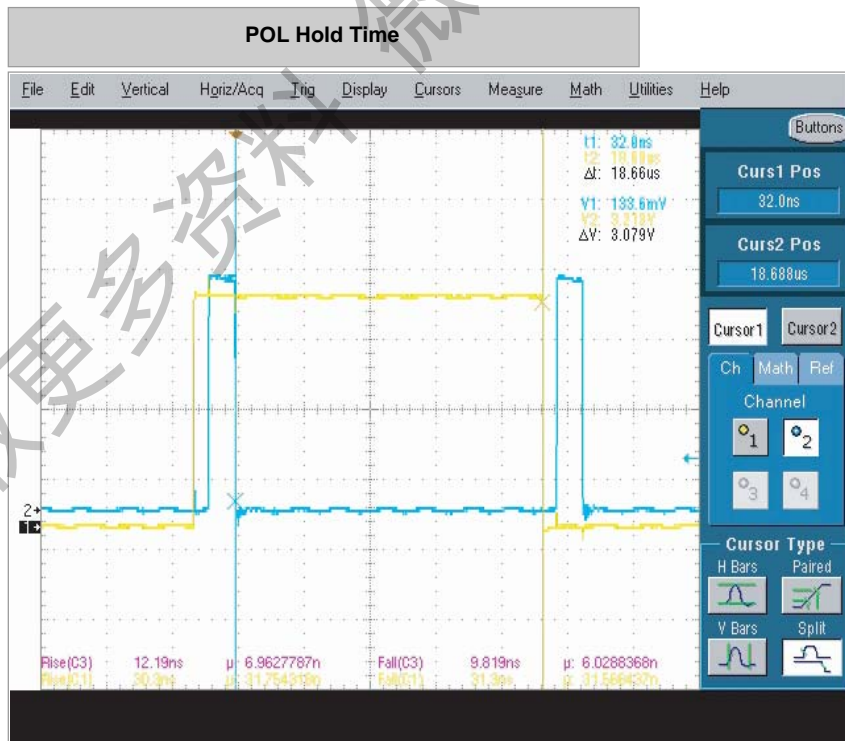
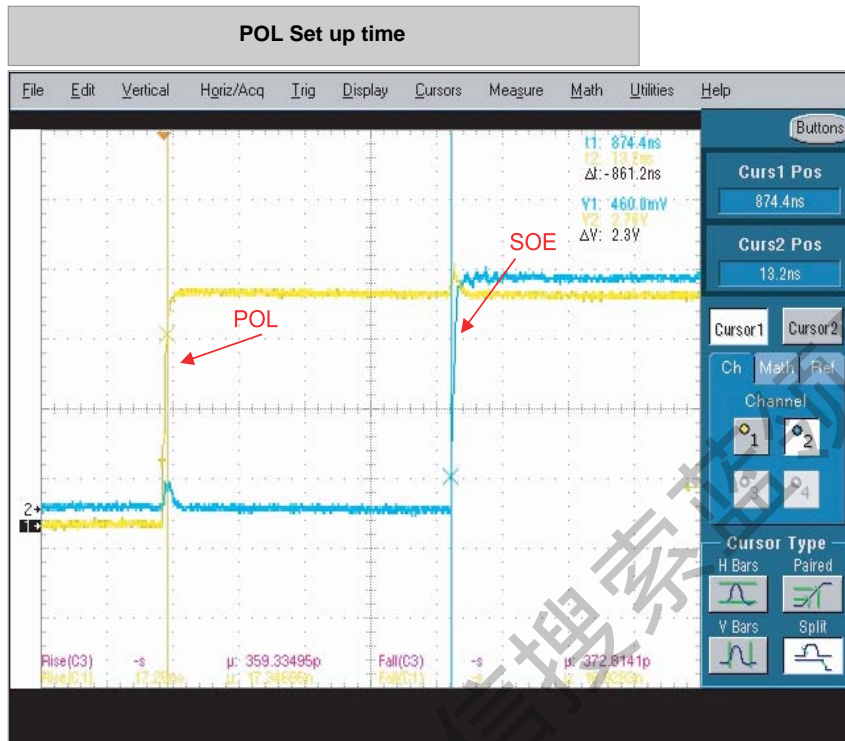


DATA Set up time

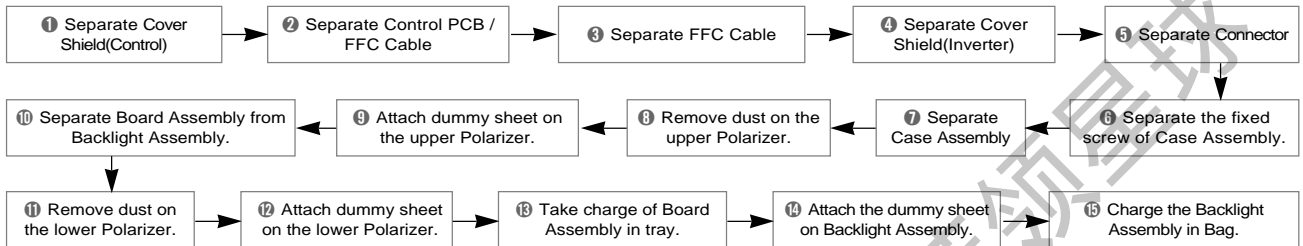


DATA Hold time





Disassembly



1 Separate the Cover Shield(Control).

- ※ Should be put on (electro static) wrist strap.
- ※ Should be cleared the bottom.
- ※ Light the Ion Blower.

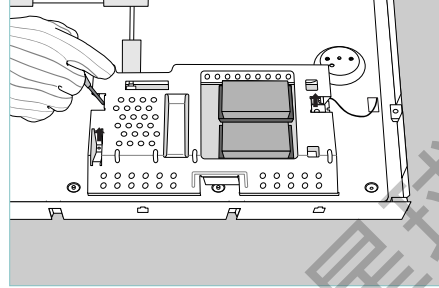
2 Separate the Control PCB.
At this time, Separate the FFC from the Source PCB.

3 Separate the FFC from the Control PCB & Inverter.

- ※ If you need to replace the Inverter, separate the Inverter.
- It's unnecessary to repair the normal TCP / Polarizer.

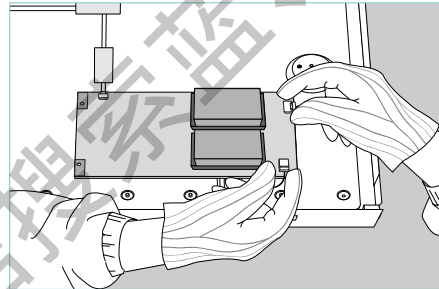
4 Separate the Cover Shield (Inverter).

- ※ If you need to replace the Inverter, separate the Inverter.
- It's unnecessary to repair the normal TCP / Polarizer.

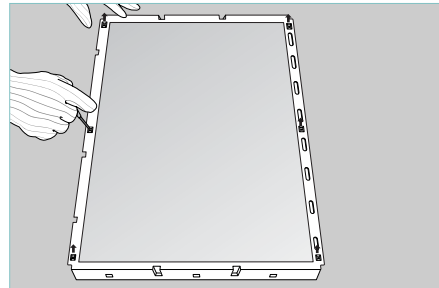


5 Separate the Connector.

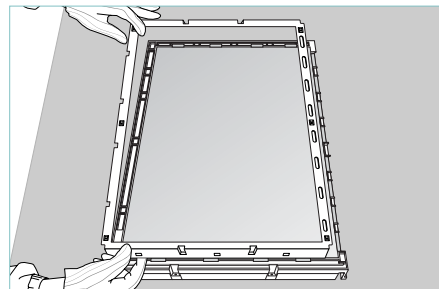
- ※ If you need to replace the Inverter, separate the Inverter.
- It's unnecessary to repair the normal TCP / Polarizer.



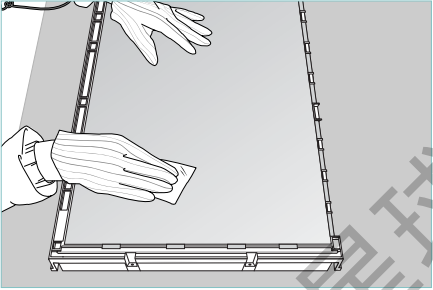
6 Separate the fixed screw of Case Assembly.



7 Separate the Case Assembly.



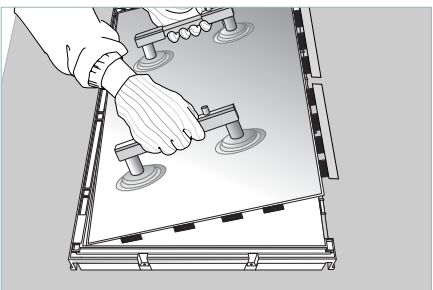
8 Remove dust on the upper Polarizer.



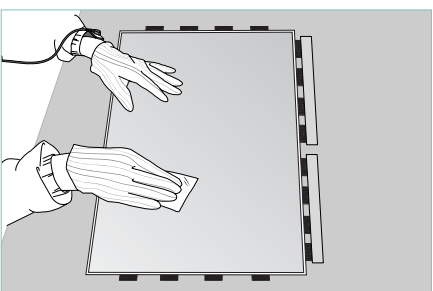
9 Attach the dummy sheet on the upper Polarizer.



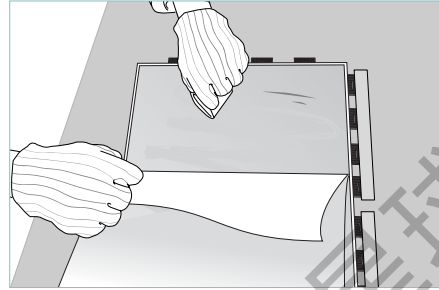
10 Separate the Board Assembly from Backlight Assembly.



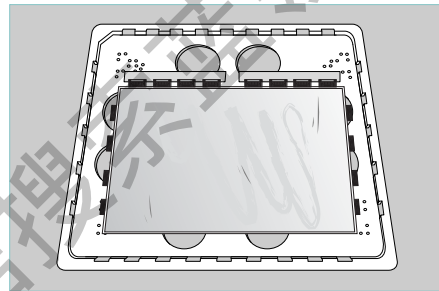
11 Remove dust on the lower Polarizer.



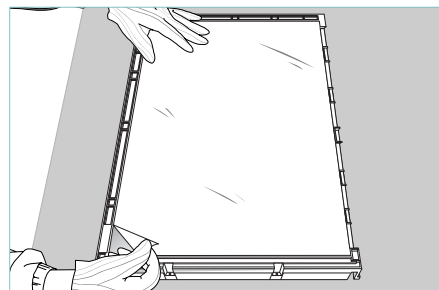
12 Attach the dummy sheet on the lower Polarizer.



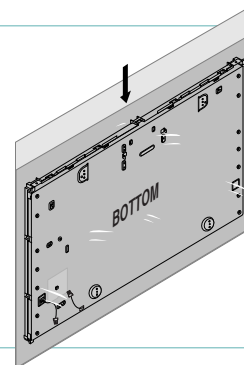
13 Take charge of the Board Assembly in tray.



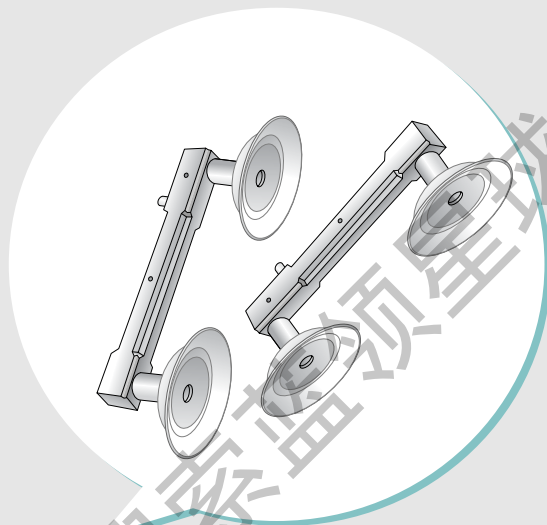
14 Attach the dummy sheet on Backlight Assembly.



15 Take charge of the Backlight Assembly in Bag.



Vacuum PAD



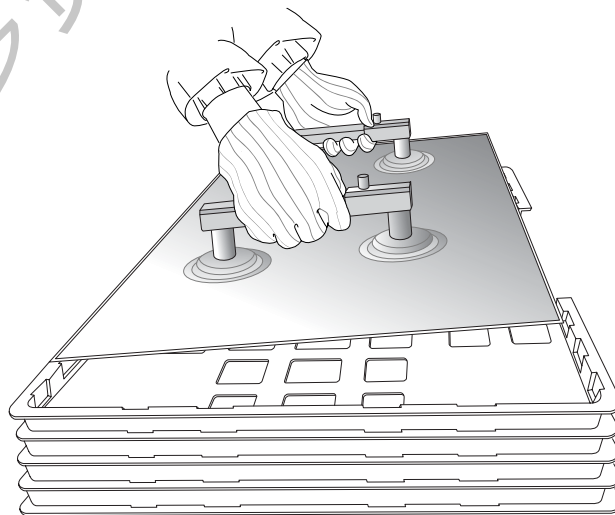
VACUUM PAD

Atmospheric pressure : 760 torr(1 pressure)

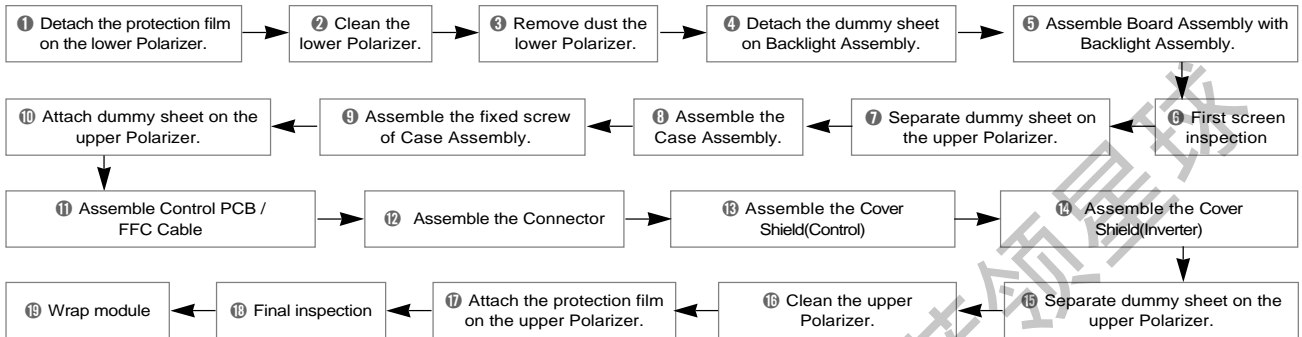
It is used to move or assemble, disassemble the materials by making vacuum condition between Panel and Pad.

also used on the condition of one or two level.

when it is needed on the small inche' s LCM, use the 1 level vacuum pad.



Assembly



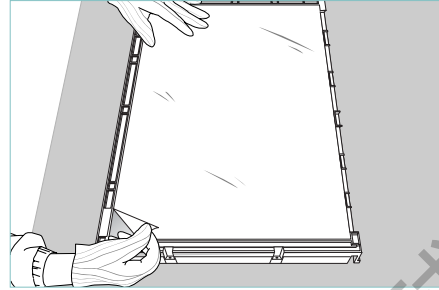
1 Detach the protection film on the lower Polarizer.

- ※ Detach it to opposite direction for preventing static electricity.
- ※ Should be put on (electro static) wrist strap.
- ※ Should be cleared the bottom.
- ※ Light the Ion Blower.

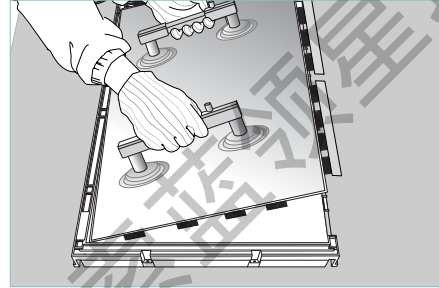
2 Polish the lower Polarizer with soft wiper.

3 Remove dust of lower Polarizer with a Air Gun.

4 Detach the dummy sheet on Backlight Assembly.

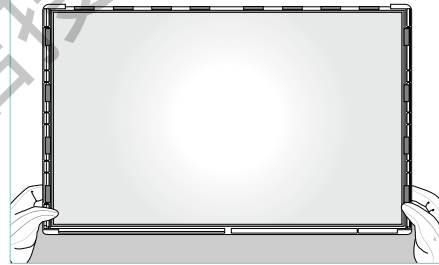


5 Assemble the Board Assembly with Backlight Assembly.

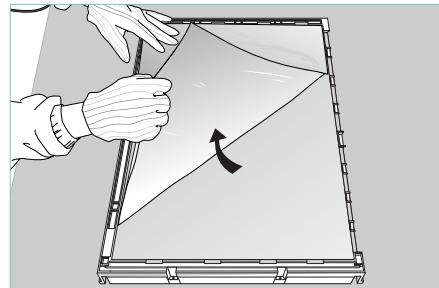


6 Take a first screen inspection the Backlight.

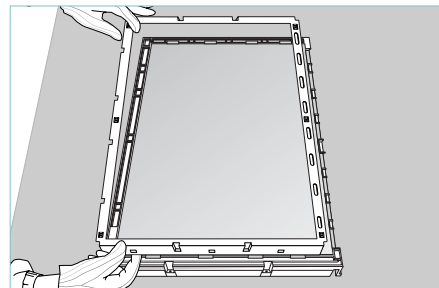
※ Check the Backlight dust.



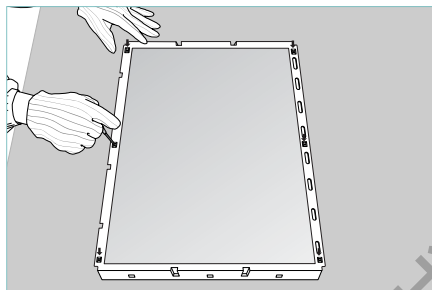
7 Separate the dummy sheet on the upper Polarizer.



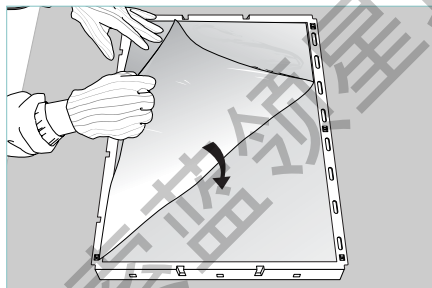
8 Assemble the Case Assembly.



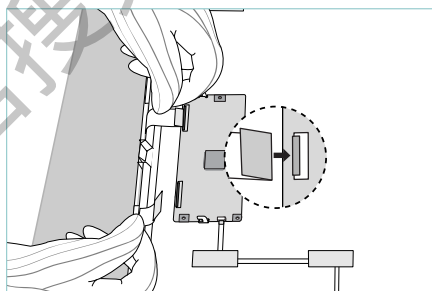
9 Assemble the fixed screw of Case Assembly.



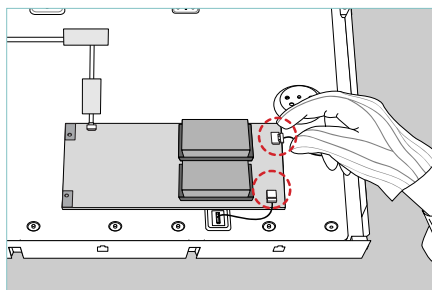
10 Attach the dummy sheet on the upper Polarizer.



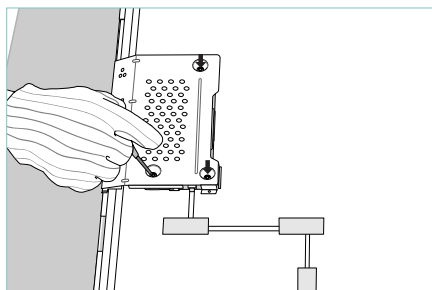
11 Assemble the Control PCB.
At this time, Connect the FFC from the Source PCB.



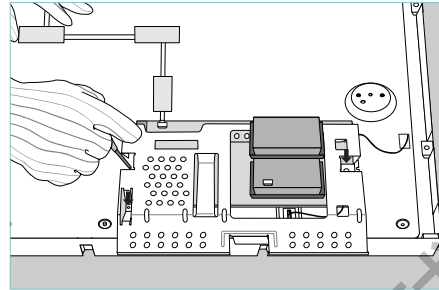
12 Assemble the Connector.



13 Assemble the Cover Shield(Control)

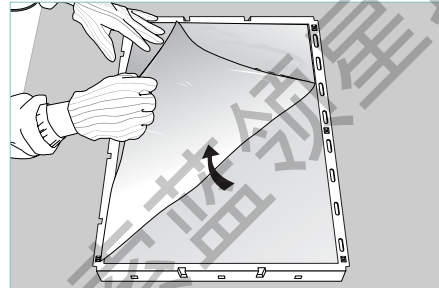


14 Assemble the Cover Shield (Inverter).

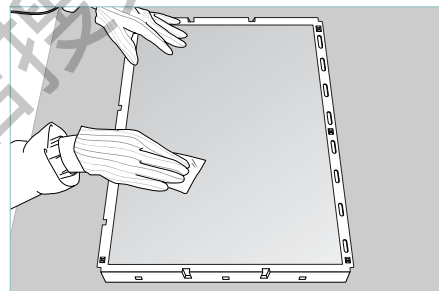


15 Separate the dummy sheet on the upper Polarizer.

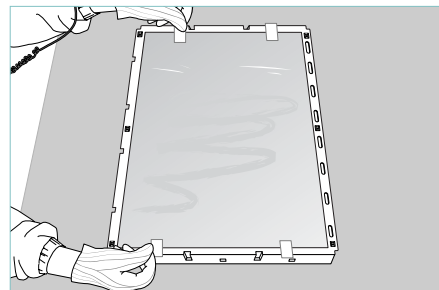
※ Detach it to opposite direction for preventing static electricity.



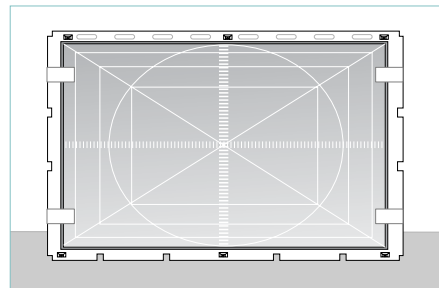
16 Polish the upper Polarizer with soft wiper.



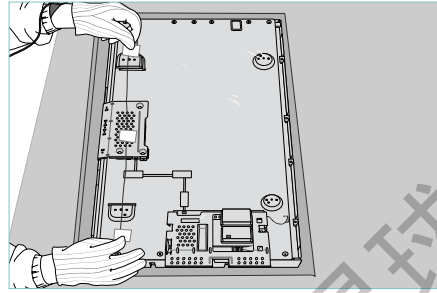
17 Attach the protection film on the upper Polarizer.



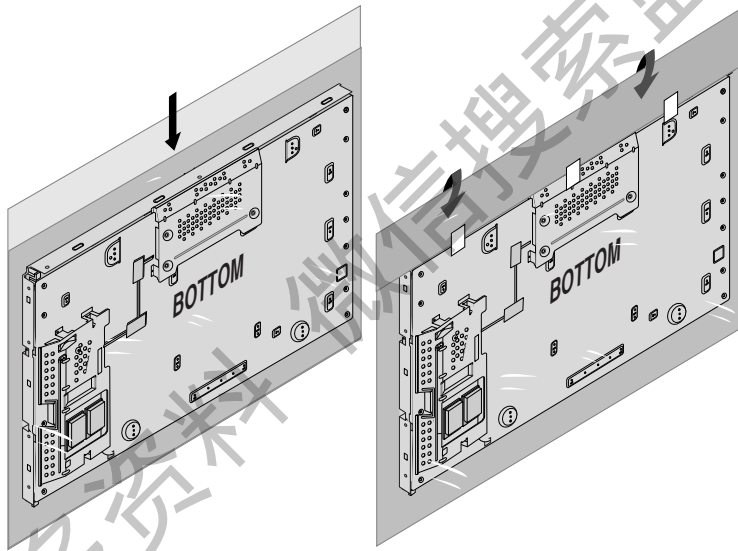
18 Take a final inspection.



19 Wrap the module up in Shielding Bag.



Caution

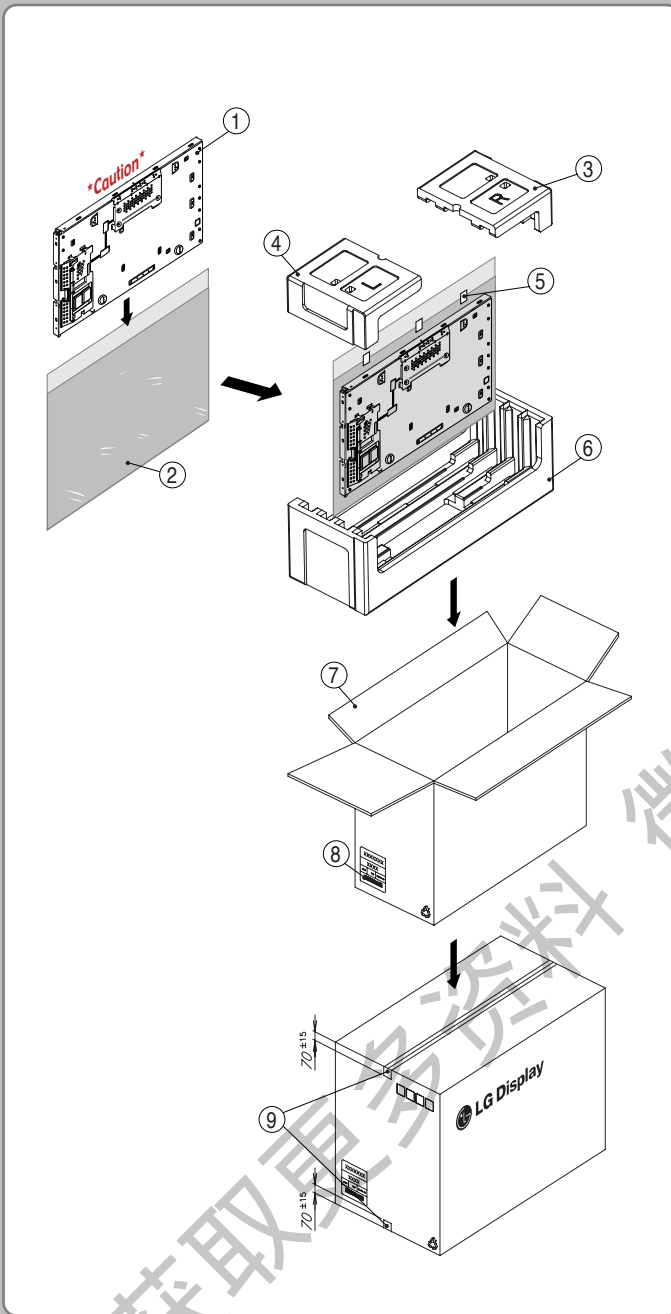


Packing Form

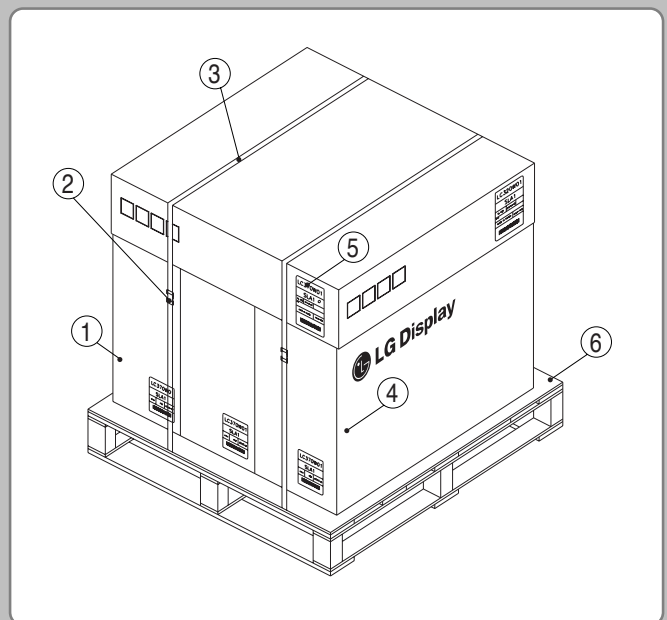
◀ LC370WXN-SAB1 Packing Assembly

NO.	Description	Material	P/N
1	LCM MODULE		
2	BAG	AL	3880L-0016K
3	PACKING, TOP(R)	EPS	3920L-0890A
4	PACKING, TOP(L)	EPS	3920L-0889A
5	TAPE	MASKING 20MMX50M	
6	PACKING, BOTTOM	EPS	3920L-0891B
7	BOX	PAPER_DW	3890L-0028Q
8	LABEL	ART, 100X70	
9	TAPE	OPP 70MMX300M	

NO.	Description	Material
1	PACKING Assembly	
2	BAND, CLIP	CLIP 18MM
3	BAND	PP
4	ANGLE, PACKING	PAPER, DW
5	LABEL	ART, 100X100
6	PALLET	Plywood_1140X990X117.5



LC370WXN-SAB1 Pallet Assembly ▶



Parts List

(Specified parts list is subject to change.)

PART No.	DESCRIPTION	SPECIFICATION	LOCA. No.
6060L-1001A	BOARD assembly	LC370WXN-SAB1-F11	
6871L-1353A	PCB Assembly	Source, Left, LC370WXN-SAA1-F11(LEFT)	
6871L-1354A	PCB Assembly	Source, Right, LC370WXN-SAA1-F11(RIGHT)	
6871L-1385A	PCB Assembly	Control, Single, LC370WXN-SAB1-F11	
CIRCUIT_CAPACITOR			
0CHZL-0015A	Array	10uF, Z, 10V, Y5V, 1.0mm, 3216, R/TP	C92,C93
0CHZL-0004A	Array	10uF, Z, 35V, Y5V, 1.5mm, 3225, R/TP	C75
0CH2102K562	CAPACITOR,CHIP[CERAMIC	1NF 50V K X 1608 R/TP	C18
0CH2103K562	CAPACITOR,CHIP[CERAMIC	10NF 50V K X 1608 R/TP	C65,C86
0CH2472K562	CAPACITOR,CHIP[CERAMIC	4.7NF 50V K X 1608 R/TP	C102
0CH2223H562	CAPACITOR,CHIP[CERAMIC	22NF 25V K X 1608 R/TP	C62
0CH2104H942	MLCC	0.1uF, Z, 25V, Y5V, 0.85mm, 1608, R/TP	C2,C5,C8
0CH2105D942	MLCC	1uF, Z, 10V, Y5V, 0.85mm, 1608, R/TP	C1,C12,C4,C7
0CH2A-0008A	MLCC	4.7uF, K, 25V, X5R, 0.95mm, 3216, R/TP	C11,C45
0CH2A-0015A	MLCC	1uF, K, 25V, X5R, 0.9mm, 1608, R/TP	C10,C3,C43,C44,C6,C9
0CH2104H942	MLCC	0.1uF, Z, 25V, Y5V, 0.85mm, 1608, R/TP	C51,C54,C57
0CH2105D942	MLCC	1uF, Z, 10V, Y5V, 0.85mm, 1608, R/TP	C50,C53,C56,C59
0CH2A-0008A	MLCC	4.7uF, K, 25V, X5R, 0.95mm, 3216, R/TP	C49,C62,C98
0CH2A-0015A	MLCC	1uF, K, 25V, X5R, 0.9mm, 1608, R/TP	C48,C52,C55,C58,C61
0CH2A-0004A	MLCC	10uF, K, 10V, X5R, 1.8mm, 3216, R/TP	C103,C79,C80,C81,C88
0CH2A-0003A	MLCC	10uF, K, 25V, X5R, 2.2mm, 3225, R/TP	C104,C105,C107,C52,C53,C54,C58,C59,C67,C68, C69,C70
0CH2104H942	MLCC	0.1uF, Z, 25V, Y5V, 0.85mm, 1608, R/TP	C1,C10,C11,C12,C13,C19,C2,C20,C21,C22,C23, C3,C4,C5,C6,C61,C7,C78,C8,C9
0CH2222K562	MLCC	2.2nF, K, 50V, X7R, 0.85mm, 1608, R/TP	C101
0CH2104K562	MLCC	0.1uF, K, 50V, X7R, 0.85mm, 1608, R/TP	C56,C63,C82
0CH2105H946	MLCC	1uF, Z, 25V, Y5V, 0.95mm, 2012, R/TP	C72
0CH2A-0008A	MLCC	4.7uF, K, 25V, X5R, 0.95mm, 3216, R/TP	C71
0CH2A-0015A	MLCC	1uF, K, 25V, X5R, 0.9mm, 1608, R/TP	C50,C57,C66,C73,C74,C77,C84,C85
0CH2A-0016A	MLCC	0.22uF, K, 10V, X7R, 0.9mm, 1608, R/TP	C91
0CH5331K412	Temp-compensation	330pF, J, 50V, C0G, 0.85mm, 1608, R/TP	C51
0CH5680K412	Temp-compensation	68pF, J, 50V, C0G, 0.85mm, 1608, R/TP	C64
0CH5391K412	Temp-compensation	390pF, J, 50V, C0G, 0.85mm, 1608, R/TP	C83
CIRCUIT_IC			
OIETL-0011A	Analog	ISL43210HZ-T, Intersil, 2.7 to 12, 28nsec, 20nsec, 5uW	U6
OIROL-0005A	EEPROM	BR24L04FV-WE2, Rohm, 4K, 5msec, SSOP-B8, R/TP, 8	U8
OIRTL-0002D	LDO	RT9164A-18PG, RICHTEK, Fix_1.8V, 1A, SOT-223, R/TP, 4	US2
OITIL-0063A	Power	TPS65162RGZR, TEXAS INSTRUMENT, TV_IPS	US1
OIMXL-0007A	P-VCom	DS3501, MAXIM, 4.5 to 15.5, Resistor mode(10k), MSOP	U5
OITLL-0026A	Timing	TL2411MC, TLI, LVDS, 8, 1, Mini, 8, 1, DCR,ODC,SIP,KOMET	UL1
CIRCUIT_CONNECTOR			
6630L-0187A	CONNECTOR	GF05A-60S-AF, LS CABLE, 60 Pin, 0.5 mm, Angle, Au, NEW FPC	CN5

PART No.	DESCRIPTION	SPECIFICATION	LOCA. No.
6630L-0187A	CONNECTOR	GF05A-60S-AF, LS CABLE, 60 Pin, 0.5 mm, Angle, Au, NEW FPC	CN6
6630L-0187A	CONNECTOR	GF05A-60S-AF, LS CABLE, 60 Pin, 0.5 mm, Angle, Au, NEW FPC	CN4,CN6
6630L-0193A	CONNECTOR	GF10A-4S-LSS-AU, LS CABLE, 4 Pin, 1.0 mm, Angle, Sn, FPC	CN2
6630L-0204A	Wire-Board	IS100-L30B-C23, UJU, 30PIN, 1.0MM, Angle, Female, R/TP, 2.3MM, Y	CN1
CIRCUIT_DIODE			
0DHZL-0008A	Schottky	BAV99-7-F, DIODES, SOT-23, R/TP	D15,D18
0DHZL-0029A	Schottky	B340A, DIODES, SMA, R/TP	D11,D12
DRIVE_IC			
OIOKL-0114A	Gate Drive IC	MT3804VC01L, OKI, 256, N/A, N/A, C_B, R/TP, 35, 2, SPERFLEX	
OILUL-0049A	Source Drive IC	LS08S2M4-C2LS, Lusem, 690, 8, MINI, C_B, R/TP, 48, 5, SPERFLEX	
CIRCUIT_FILTER			
6200C-0014A	Bead	BLM18EG601SN1D, MURATA, 0.35 Ohm, 1.6X0.8, R/TP	R33,R51
6200C-0014A	Bead	BLM18EG601SN1D, MURATA, 0.35 Ohm, 1.6X0.8, R/TP	R107,R114
6200L-J015A	Bead	BLM18PG300SN1D, MURATA, 30 ohm, 1.6X0.8X0.8 MM, R/TP	FL4,FL6
6200C-0014A	Bead	BLM18EG601SN1D, MURATA, 0.35 Ohm, 1.6X0.8, R/TP	FL2,R30,R32
CIRCUIT_RESISTOR			
ORH1201C422	chip	1.2K ohm, 1/16W, 1608, 1%, R/TP	R14
ORH4701C422	chip	4.7K ohm, 1/16W, 1608, 1%, R/TP	R22
ORH1002C422	chip	10K ohm, 1/16W, 1608, 1%, R/TP	R23
ORH3302C422	chip	33K ohm, 1/16W, 1608, 1%, R/TP	R12
ORH9101C422	chip	9.1K ohm, 1/16W, 1608, 1%, R/TP	R25
ORH1000C422	chip	100 ohm, 1/16W, 1608, 1%, R/TP	R10,R46,R47
ORH3900C422	chip	390 ohm, 1/16W, 1608, 1%, R/TP	R24
ORH0000C622	chip	0 ohm, 1/16W, 1608, 5%, R/TP	R53,R30,R54,R55,R56
ORH2401C422	chip	2.4K ohm, 1/16W, 1608, 1%, R/TP	R20,R21
ORH2202C422	chip	22K ohm, 1/16W, 1608, 1%, R/TP	R11
ORH1801C422	chip	1.8K ohm, 1/16W, 1608, 1%, R/TP	R18
ORH7501C422	chip	7.5K ohm, 1/16W, 1608, 1%, R/TP	R13
ORH3301C422	chip	3.3K ohm, 1/16W, 1608, 1%, R/TP	R16,R17
ORHZL10005A	chip	100 ohm, 1/16W, 3216, 5%, R/TP	AR1,AR2
ORH1201C422	chip	1.2K ohm, 1/16W, 1608, 1%, R/TP	R116
ORH2402C422	chip	24K ohm, 1/16W, 1608, 1%, R/TP	R71
ORH8201C422	chip	8.2K ohm, 1/16W, 1608, 1%, R/TP	R67
ORH6201C422	chip	6.2K ohm, 1/16W, 1608, 1%, R/TP	R72
ORH1301C422	chip	1.3K ohm, 1/16W, 1608, 1%, R/TP	R64
ORH5100C422	chip	510 ohm, 1/16W, 1608, 1%, R/TP	R75
ORH1000C422	chip	100 ohm, 1/16W, 1608, 1%, R/TP	R84,R85,R60
ORH2201C422	chip	2.2K ohm, 1/16W, 1608, 1%, R/TP	R66
ORH2002C422	chip	20K ohm, 1/16W, 1608, 1%, R/TP	R73
ORH0000C622	chip	0 ohm, 1/16W, 1608, 5%, R/TP	R117,R118,R119,R120,R62,R98
ORH5101C422	chip	5.1K ohm, 1/16W, 1608, 1%, R/TP	R70
ORH3602C422	chip	36K ohm, 1/16W, 1608, 1%, R/TP	R74
ORH3301C422	chip	3.3K ohm, 1/16W, 1608, 1%, R/TP	R68,R69
ORH6801C422	chip	6.8K ohm, 1/16W, 1608, 1%, R/TP	R63
ORHZL10005A	chip	100 ohm, 1/16W, 3216, 5%, R/TP	AR11,AR12
ORH1201C422	chip	1.2K ohm, 1/16W, 1608, 1%, R/TP	R29,R67,R73
ORH4701C422	chip	4.7K ohm, 1/16W, 1608, 1%, R/TP	R23,R25,R27,R28
ORH9100C422	chip	910 ohm, 1/16W, 1608, 1%, R/TP	R77

PART No.	DESCRIPTION	SPECIFICATION	LOCA. No.
ORH3902C422	chip	39K ohm, 1/16W, 1608, 1%, R/TP	R51
ORH0472C422	chip	47 ohm, 1/16W, 1608, 1%, R/TP	R35,R37
ORH8201C422	chip	8.2K ohm, 1/16W, 1608, 1%, R/TP	R53
ORH7502C422	chip	75K ohm, 1/16W, 1608, 1%, R/TP	R86
ORH5601C422	chip	5.6K ohm, 1/16W, 1608, 1%, R/TP	R65,R66,R71
ORH1500C422	chip	150 ohm, 1/16W, 1608, 1%, R/TP	R15
ORH9101C422	chip	9.1K ohm, 1/16W, 1608, 1%, R/TP	R82,R87
ORH8202C422	chip	82K ohm, 1/16W, 1608, 1%, R/TP	R72
ORH6202C422	chip	62K ohm, 1/16W, 1608, 1%, R/TP	R97
ORH1000C422	chip	100 ohm, 1/16W, 1608, 1%, R/TP	R10,R114,R115,R116,R117,R98
ORH4301C422	chip	4.3K ohm, 1/16W, 1608, 1%, R/TP	R78
ORH2002C422	chip	20K ohm, 1/16W, 1608, 1%, R/TP	R20
ORH1004C422	chip	1M ohm, 1/16W, 1608, 1%, R/TP	R8
ORH2703C422	chip	270K ohm, 1/16W, 1608, 1%, R/TP	R95
ORH0000C622	chip	0 ohm, 1/16W, 1608, 5%, R/TP	R19,R21,R38,R54,R58,R61,R69,R74,R76,R83,R9, R99
ORH5101C422	chip	5.1K ohm, 1/16W, 1608, 1%, R/TP	R89
ORH3001C422	chip	3K ohm, 1/16W, 1608, 1%, R/TP	R26,R55,R59
ORH4700C422	chip	470 ohm, 1/16W, 1608, 1%, R/TP	R93
ORH1001C422	chip	1K ohm, 1/16W, 1608, 1%, R/TP	R11,R12,R14,R50,R60,R79,R92,R94
ORH5603C422	chip	560K ohm, 1/16W, 1608, 1%, R/TP	R64
ORH2401C422	chip	2.4K ohm, 1/16W, 1608, 1%, R/TP	R75,R90
ORH2202C422	chip	22K ohm, 1/16W, 1608, 1%, R/TP	R56
ORH3901C422	chip	3.9K ohm, 1/16W, 1608, 1%, R/TP	R57
ORH1801C422	chip	1.8K ohm, 1/16W, 1608, 1%, R/TP	R112,R33
ORH7501C422	chip	7.5K ohm, 1/16W, 1608, 1%, R/TP	R88,R16
ORH2000C422	chip	200 ohm, 1/16W, 1608, 1%, R/TP	R81
ORH3301C422	chip	3.3K ohm, 1/16W, 1608, 1%, R/TP	R36
ORH6801C422	chip	6.8K ohm, 1/16W, 1608, 1%, R/TP	R24,R70
ORH0682C422	chip	68 ohm, 1/16W, 1608, 1%, R/TP	R121,R18,R113,R118,R119,R120
ORHAA-0002A	chip	9.1K ohm, 1/4W, 3216, 5%, R/TP	R84
ORH1002C422	chip	10K ohm, 1/16W, 1608, 1%, R/TP	R13
ORH2201C422	chip	2.2K ohm, 1/16W, 1608, 1%, R/TP	R49
ORH0202C422	chip	20 ohm, 1/16W, 1608, 1%, R/TP	R17
CIRCUIT_POLARIZER			
6308L-1084A	Polarizer	NITTO, S, A, X, T, P, B, T, X, X, 8, 37, TOP	
*6308L-1618A	Polarizer	DONGWOO SMITOMO, S, A, X, T, P, S, T, X, X, L, 03700, TOP	
*6308L-1231A	Polarizer	LGC, S, A, X, S, P, B, S, X, X, 1, 37, TOP	
6308L-1085A	Polarizer	NITTO, S, X, X, T, P, B, Z, X, I, 8, 37, BOTTOM	
*6308L-1619A	Polarizer	DONGWOO SMITOMO, S, X, X, T, P, S, Z, X, I, L, 03700, BOTTOM	
*6308L-1232A	Polarizer	LGC, S, X, X, S, P, B, A, X, I, 1, 37, BOTTOM	
INVERTER			
6632L-0504A	Inverter	KLS-EE37TKH16(A), KTY, LC370WXN-SAB1, ONE BOARD	
CIRCUIT_MISCELLANEOUS			
6884L-0035A	ANISOTROPIC CONDUCTIVE FILM	CP5420ISL, SONY, L=2.0MMX300M, T=20	
*6884L-0052A	ANISOTROPIC CONDUCTIVE FILM	CP2420ISL, SONY, L=2.0MMX300M, T=18	
6884L-0044B	ANISOTROPIC CONDUCTIVE FILM	DP2252KSL(2.0MMX300M), SONY	
*6884L-0044C	ANISOTROPIC CONDUCTIVE FILM	AC-9825R-45(2.0MMX300M), HITACHI	
*6884L-0061A	ANISOTROPIC CONDUCTIVE FILM	CP20631-35YA, 2.0MMX300M, SONY	

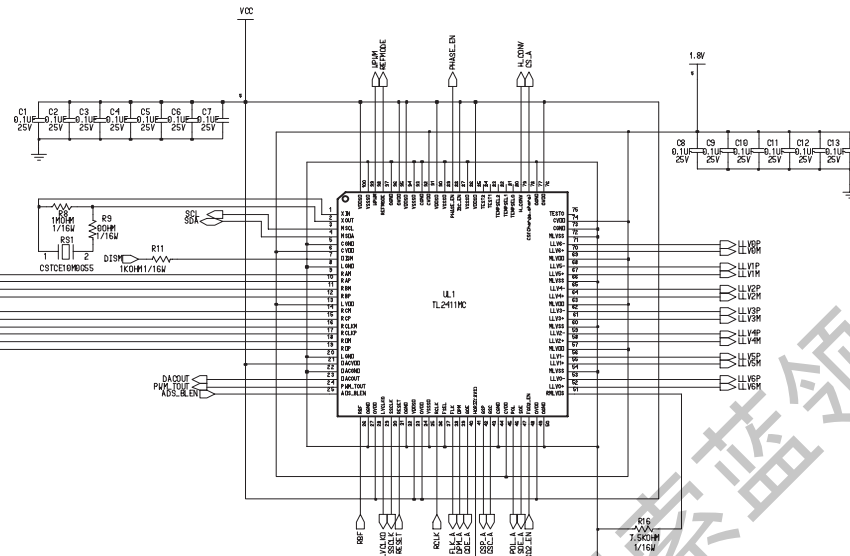
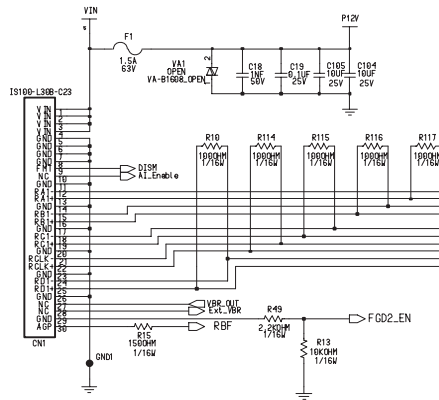
PART No.	DESCRIPTION	SPECIFICATION	LOCA. No.
0TR900009BA	Bipolar	IMX9, ROHM, NP DUAL, TP, SMT6, N/A	U2
0LCAA-0002A	Coil	CVOB8022-1R5220, COREVISION, 22UH, M=20%, 1.5A	L1,L2
6851L-0129D	FFC	6851L-0129D, EUNSUNG, 4pin, 466 mm, LC370WXN-SAA1, INVERTER	
*6851L-0129E	FFC	6851L-0129E, STANDARD, 4pin, 466 mm, LC370WXN-SAA1, INVERTER	
6851L-0090A	FFC	6851L-0090A, STANDARD, 60pin, 54X30.5 mm, LC320WX3-SLC1, S-C	
6640L-0002A	FINGER	SM-RUBBER, JSM-5-4-8,GASKET SMT TYPE, JOINSET	SF2,SF4
6640L-0002A	FINGER	SM-RUBBER, JSM-5-4-8,GASKET SMT TYPE, JOINSET	SF11,SF13
6212L-0002A	Resonator	10MHz, +-30 PPM, 33pF, 3.2X1.3X0.7 mm, R/TP, -20~85°C	RS1
0FS1501F032	Slow	43001.5 NRL, LITTELFUSE, Nickel, 63V, 1.5A, UL/CSA	F1

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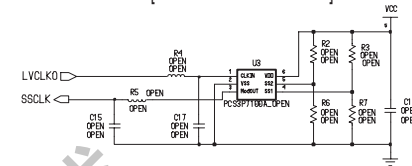
PART No.	ITEM	DESCRIPTION
PACKING & BOX		
3000L-0018V	Angle Packing	PAPER, DW, 1105X980X160
3890L-0028Q	Box	PAPER, DW, 952X350X570
3920L-0889A	Packing	TOP_L, EPS, LC370WUN
3920L-0890A	Packing	TOP_R, EPS, LC370WUN
3920L-0891B	Packing	BOTTOM, EPS, LC370WUN
3930L-0017A	Pallet	PLYWOOD, 1140X990X117.5
7250L-0041A	TAPE(RAW)	OPP 70MMX300M(LG,PHILIPS LCD)
LABEL		
3850L-0112A	Label	PALLET, ART, 100X100
3850L-0111A	Label	BOX, ART, 100X70
3850L-0088A	Label	ID, YUPO, 78X37
BACKLIGHT		
6900L-0229G	Backlight System	LC370WXN-SAB1-F21
6091L-0716F	Backlight Assembly	LC370WXN-SAB1-F21
3550S-0587A	Metal Cover Shield	INV, EGI, T0.5, LC370WXN-SAA1
6912L-0466A	Lamp EEFL	HEESUNG ELECTRONICS, 0.254/0.221, N/A, D3.4, L860, 1 Type
MECHANICAL PART		
3880L-0016K	Bag	AL, 970X715(37)
3111L-0236A	Case Top Assembly	NORMAL, LC370WUN-SAA1-F11
3550S-0566A	Metal Cover Shield	CONTROL, EGI,T0.5, LC370WXN-SAA1
5135L-0022F	Protect Film	KOISE, KPF-100, N/A, N/A
*5135L-0053J	Protect Film	KOISE, KOP-070A, 854X489, LC370W
*5135L-0013K	Protect Film	SKC, HH10, 854X489X0.1, LC370WX1
4000L-0006A	Screw	SWCH18A, MACHINE, BIND HEAD, M2.6, L=12.0, NI
4000L-0006B	Screw	SWCH18A, MACHINE, BIND HEAD, M2.6, L=4.0, NI
4000L-0038A	Screw	SWCH18A, MACHINE, PAN HEAD, M3=0, L=5.0, NI
7250L-0319A	Single Side Tape	SOOKWANG, SINGLE, OPP, YELLOW, 20MMX50M
7250L-0082C	TAPE(RAW)	OPP FILM TAPE

[T_CON BLOCK]

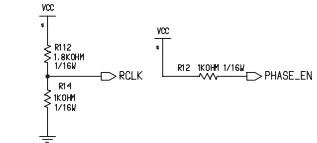
[USER CONNECTOR]



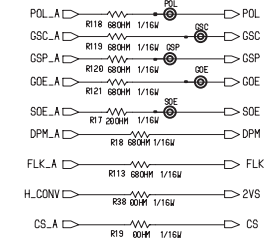
[SPREAD SPECTRUM]



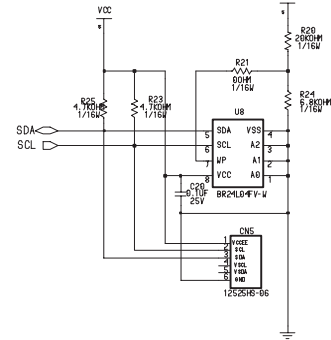
[ASI C OPTI ON BLOCK]



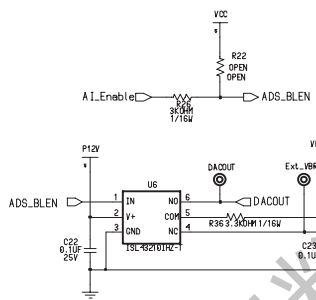
[ASI C CONTROL SI GNAL BLOCK]



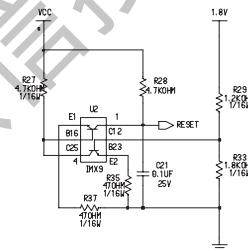
[EEPROM BLOCK]



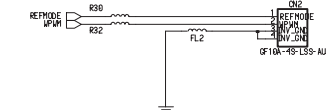
[AI I / F BLOCK]



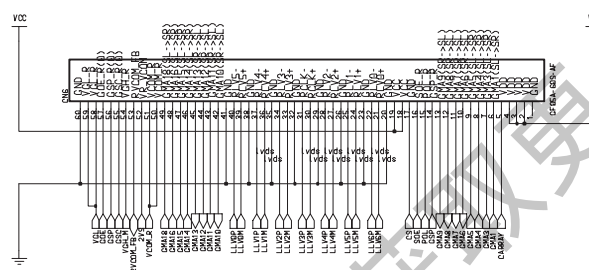
[RESET BLOCK]



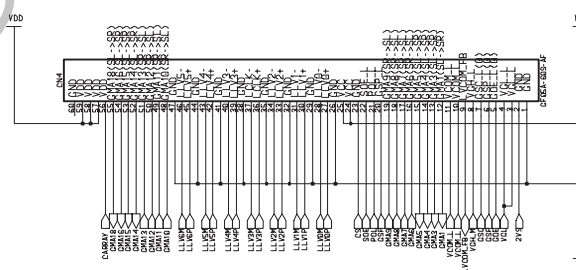
[WAVY I / F BLOCK- 4PI N]



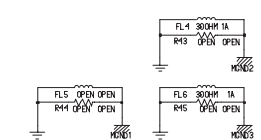
[CONTROL- SOURCE RI GHT CONNECTOR]

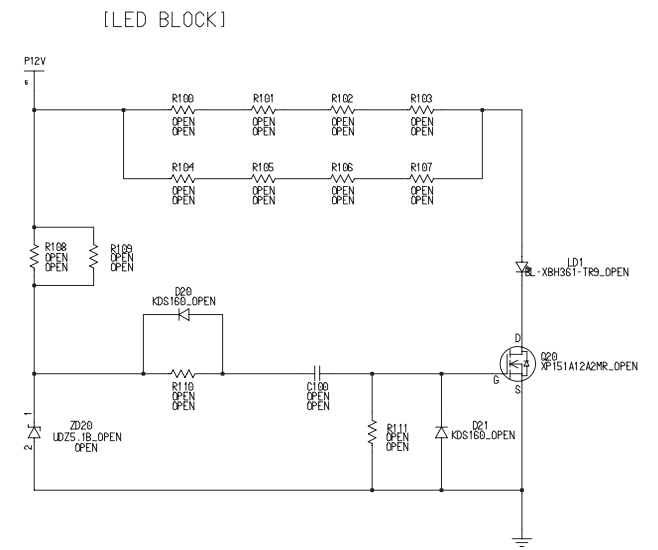
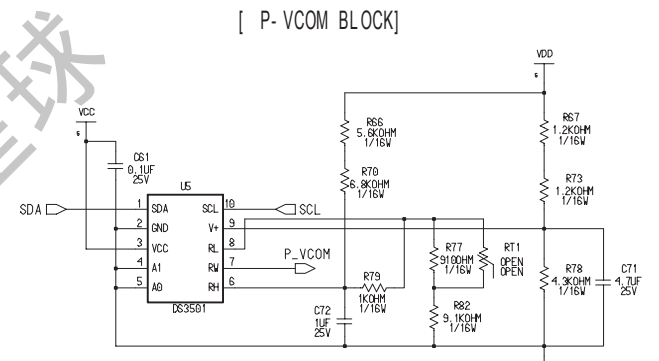
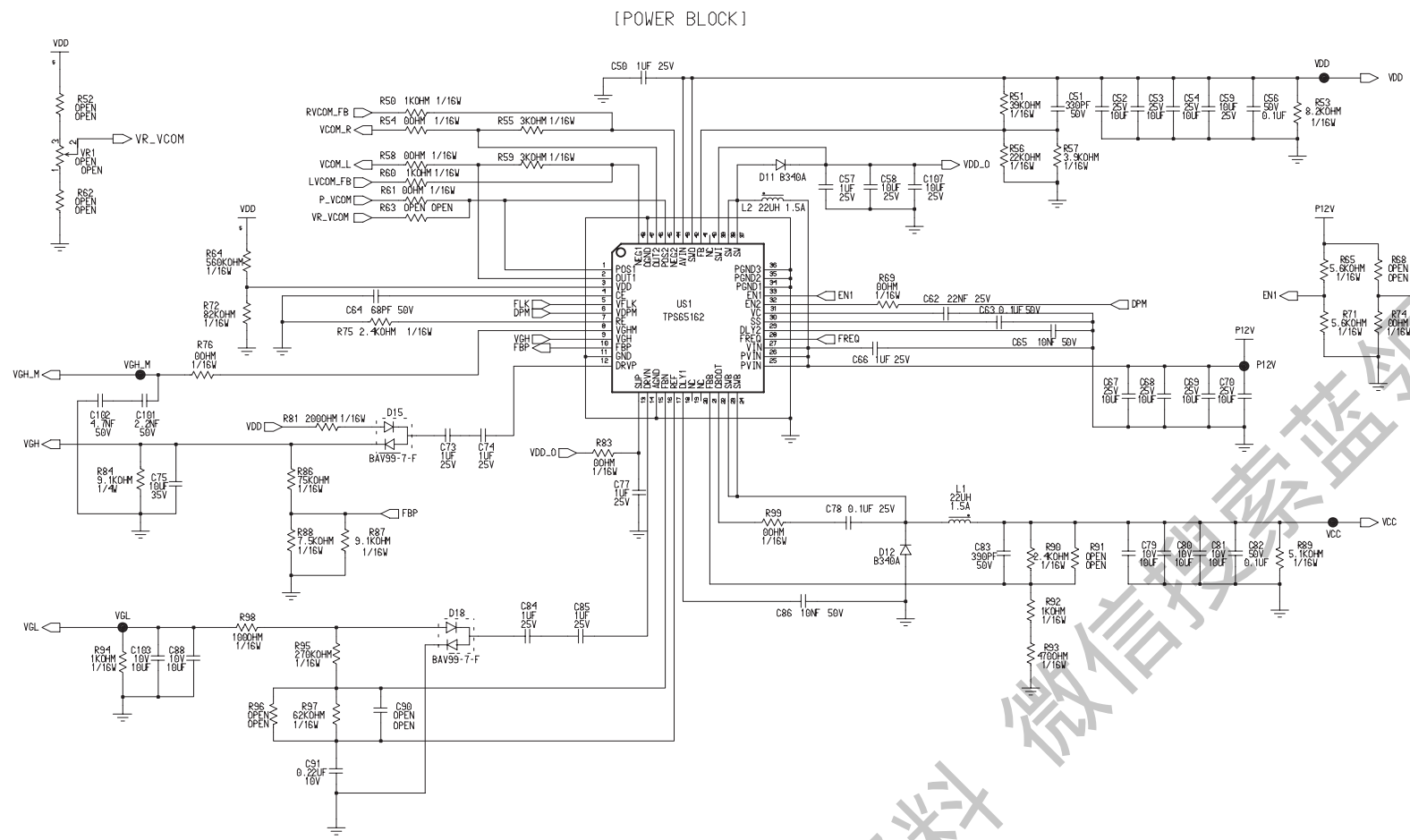


[CONTROL- SOURCE LEFT CONNECTOR]

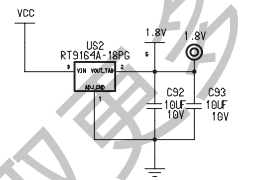


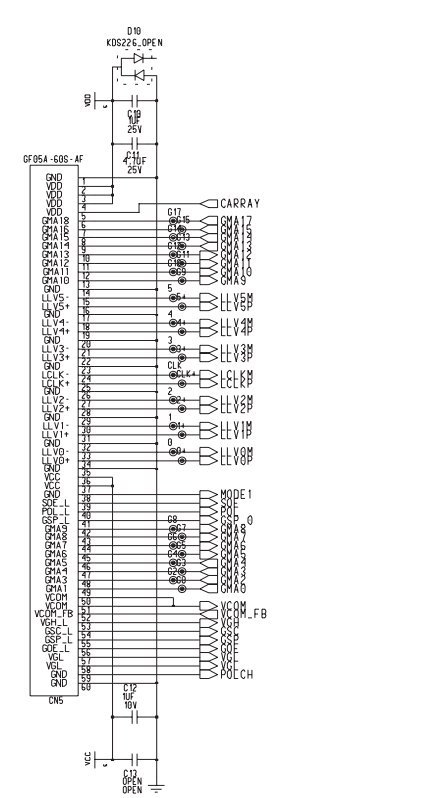
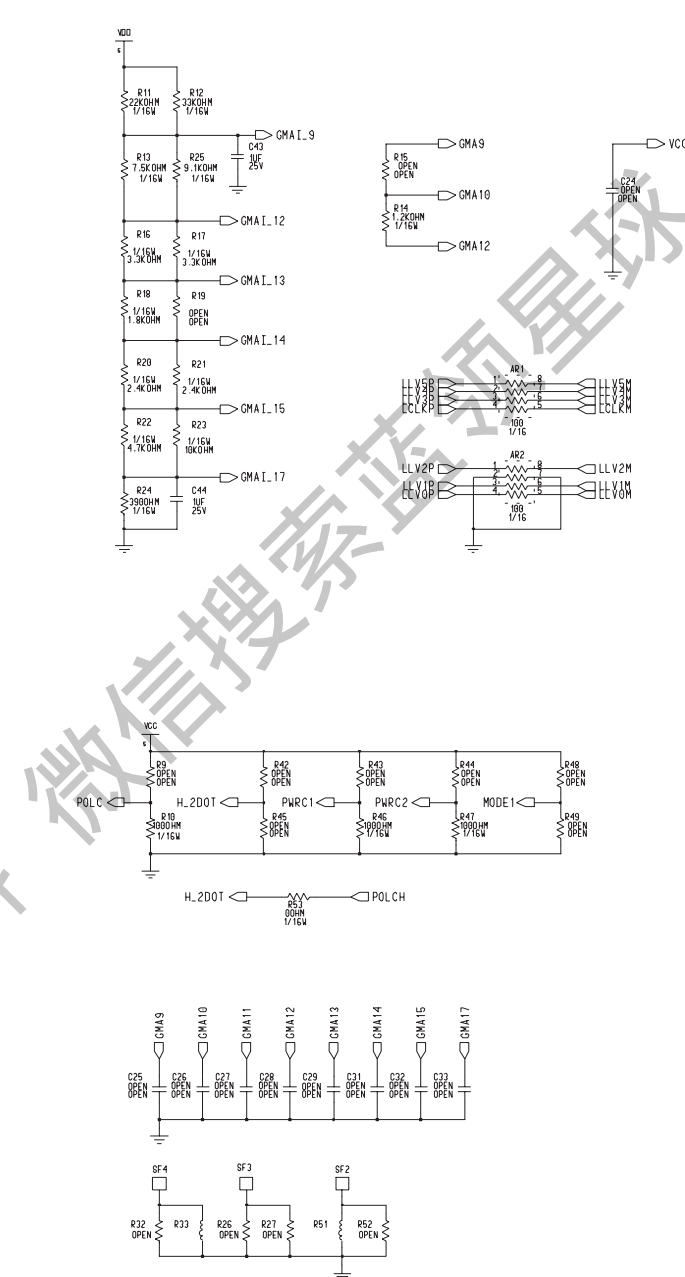
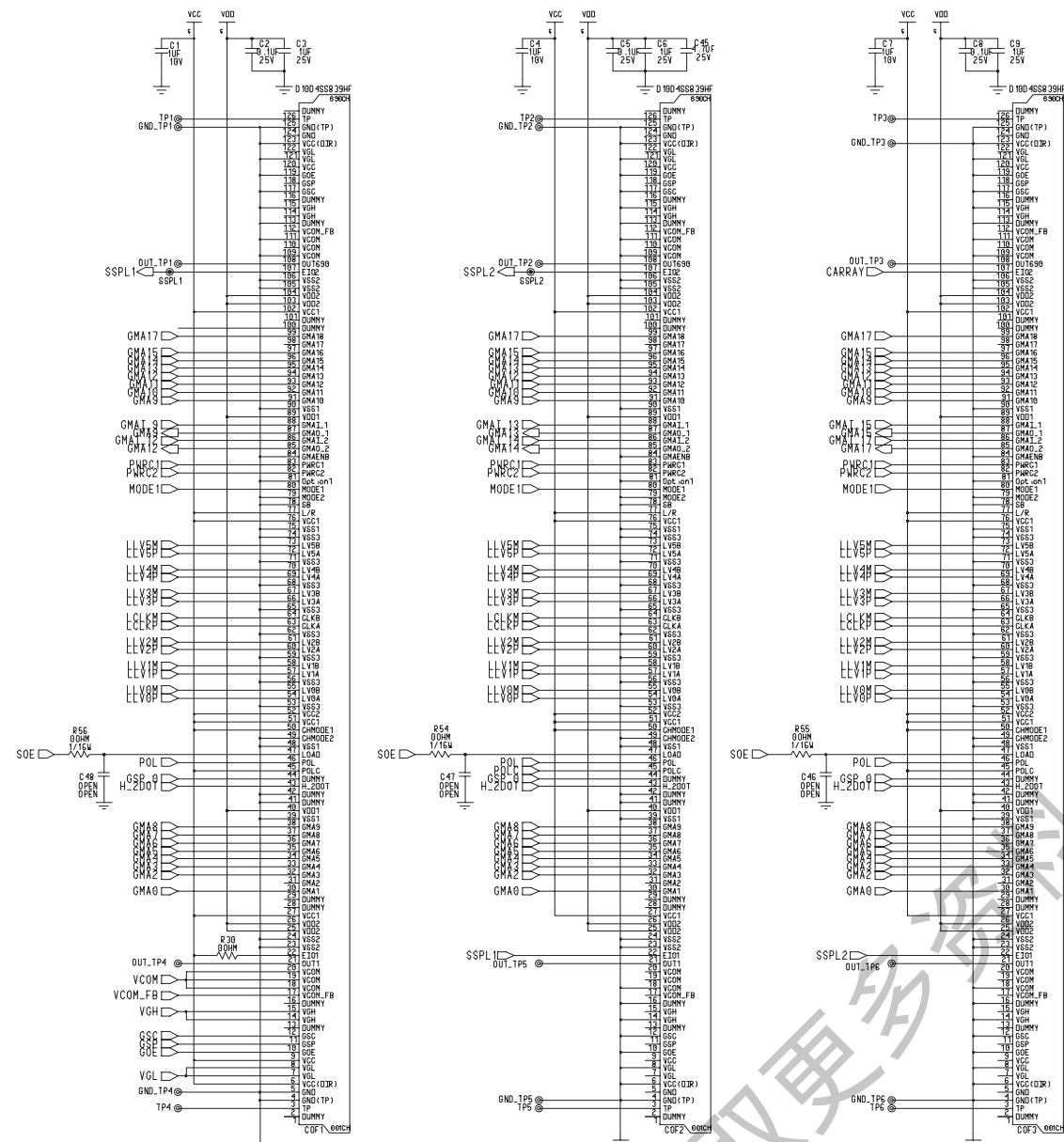
[MECH_CI RCUI T GND BLOCK]





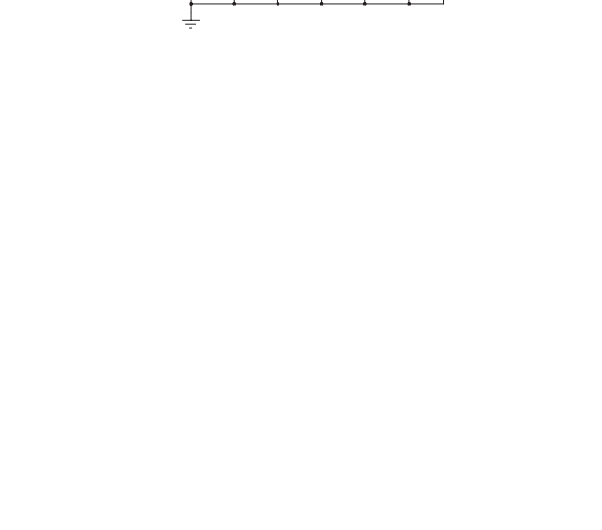
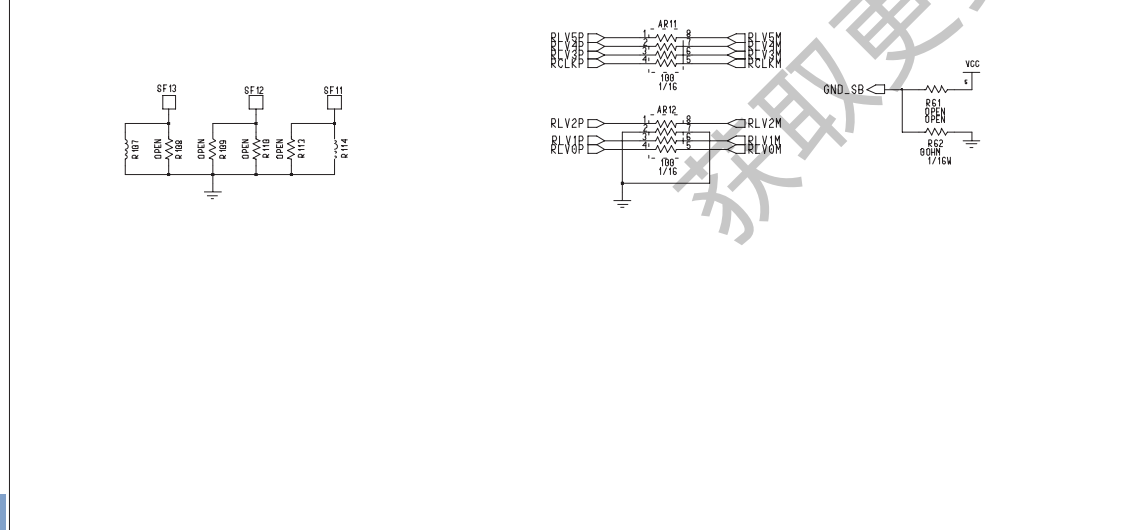
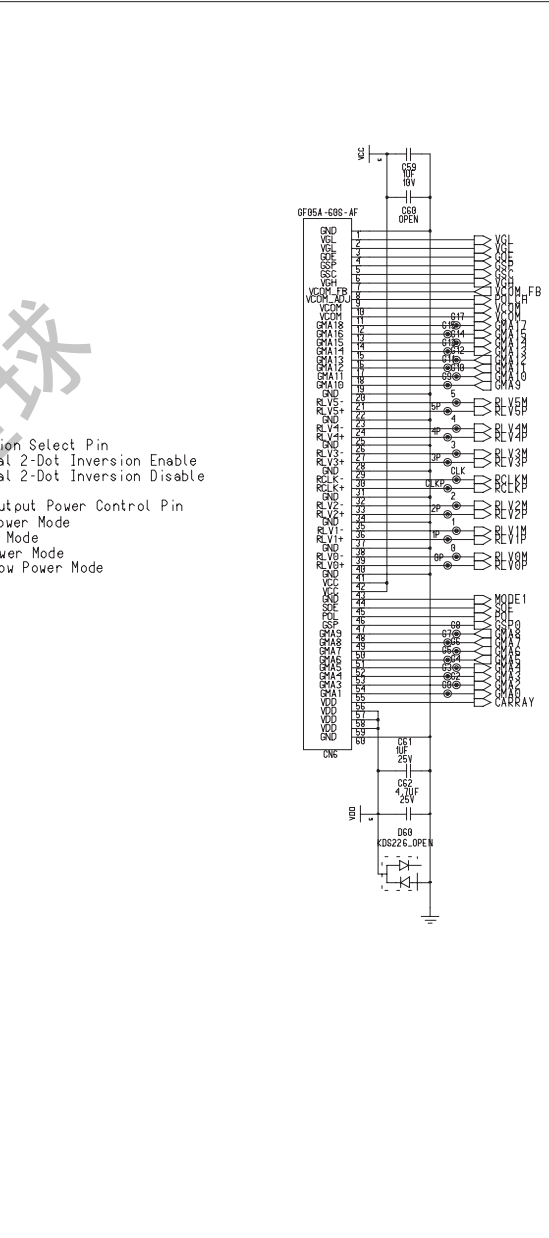
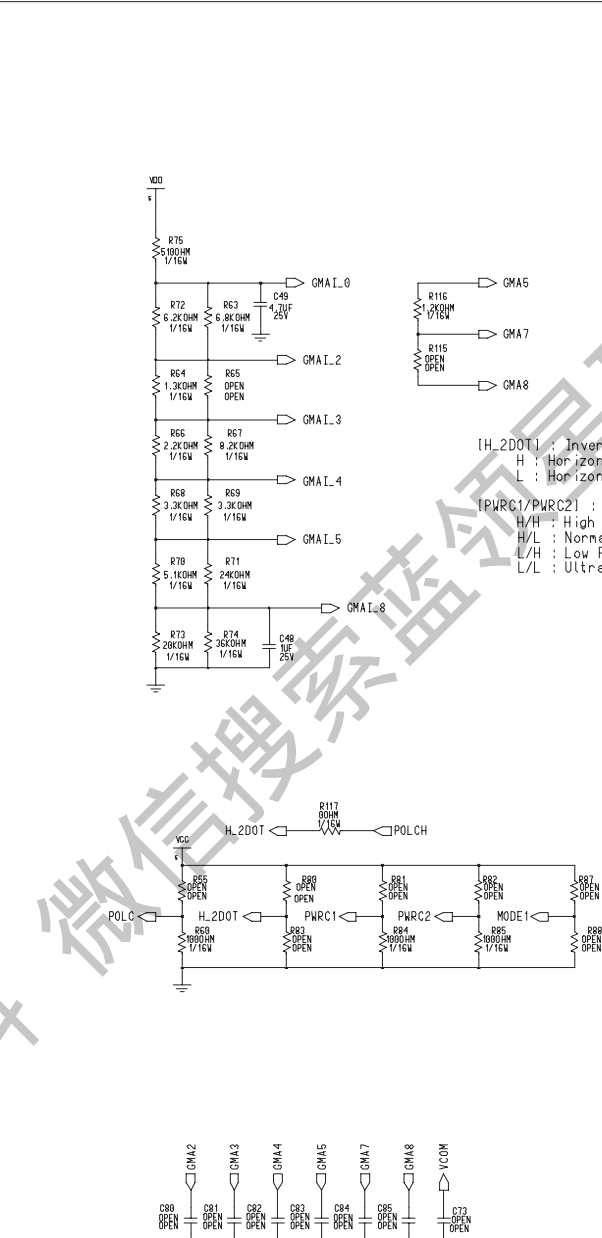
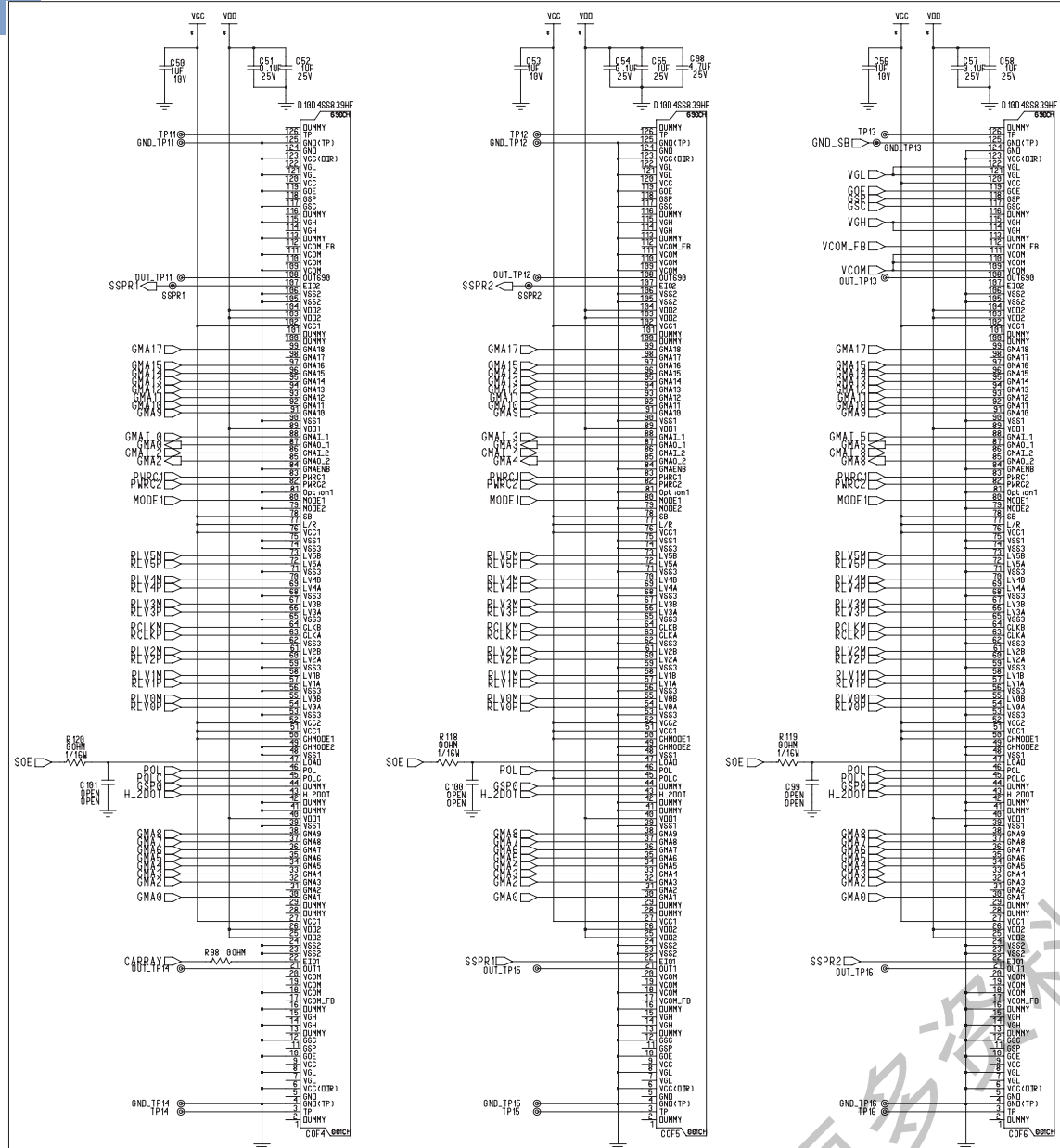
[3.3V --> 1.8V BLOCK]



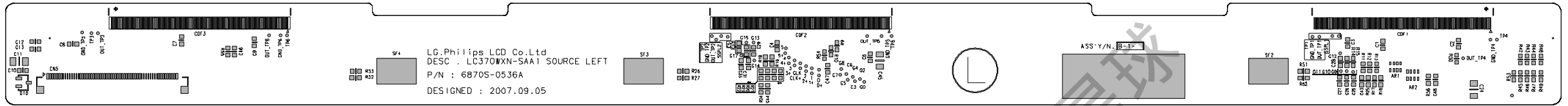


(H.2D0T) : Inversion Select Pin
 H : Horizontal 2-Dot Inversion Enable
 L : Horizontal 2-Dot Inversion Disable

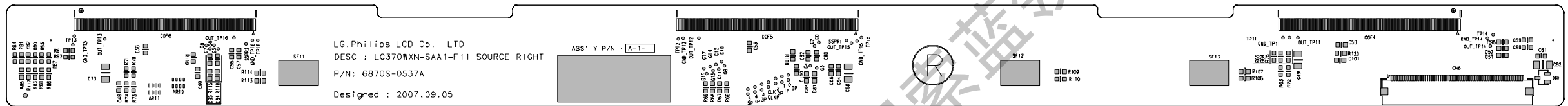
(PWRC1/PWRC2) : Output Power Control Pin
 H/H : High Power Mode
 H/L : Normal Mode
 L/H : Low Power Mode
 L/L : UltraLow Power Mode



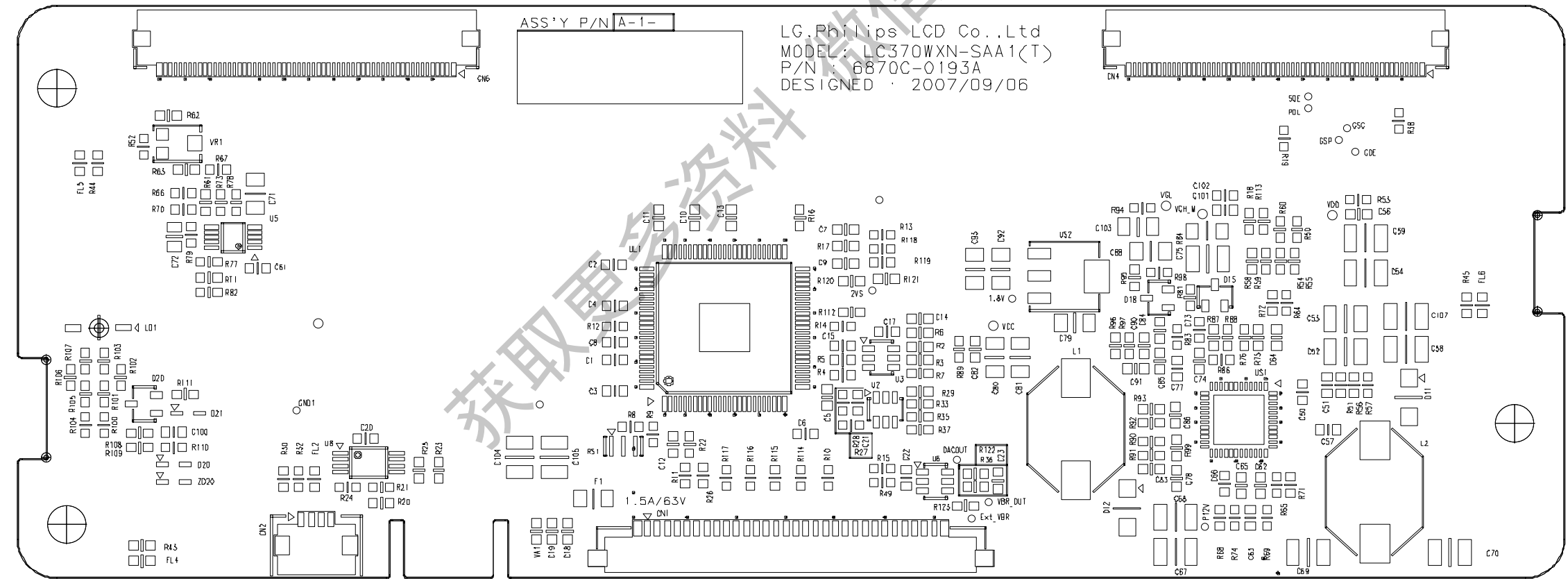
SOURCE(Left_Top)



SOURCE(Right_Top)



Control(Top)





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