

LIFECYCLE EXTENSION GUIDE



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Safety Notice

Any person attempting to service this chassis must familiarize with the chassis and be aware of the necessary safety precautions to be used when serving electronic equipment containing high voltage

Important Safety Notice

Product Announcement:

This product is certificated to meet RoHS Directive and Lead-Free produced definition. Using approved critical components only is recommended when the situation to replace defective parts. Vender assumes no liability express or implied, arising out of any unauthorized modification of design or replacing non-RoHS parts. Service providers assume all liability.

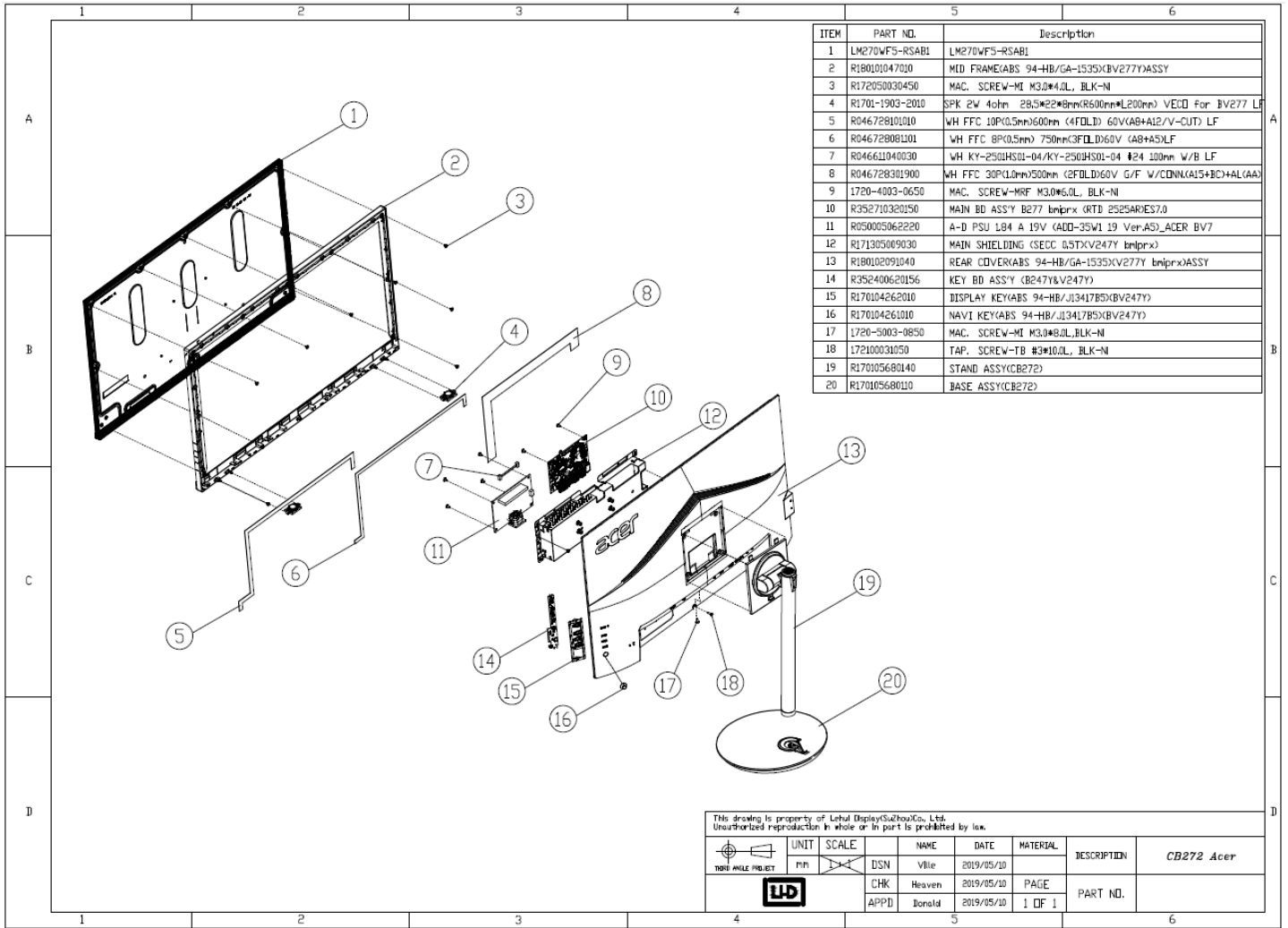
Qualified Repairability:

Proper service and repair is important to the safe, reliable operation of all series products. The service providers recommended by vender should being aware of notices listed in this service manual in order to minimize the risk of personal injury when perform service procedures. Furthermore, the possible existed improper repairing method may damage equipment or products. It is recommended that service engineers should have repairing knowledge, experience, as well as appropriate product training per new model before performing the service procedures.

NOTICE:

- ! To avoid electrical shocks, the products should be connect to an authorized power cord, and turn off the master power switch each time before removing the AC power cord.
- ! To prevent the product away from water or exposed in extremely high humidity environment.
- ! To ensure the continued reliability of this product, use only original manufacturer's specified parts.
- ! To ensure following safety repairing behavior, put the replaced part on the components side of PWBA, not solder side.
- ! To ensure using a proper screwdriver, follow the torque and force listed in assembly and disassembly procedures to screw and unscrew screws.
- ! Using Lead-Free solder to well mounted the parts.
- ! The fusion point of Lead-Free solder requested in the degree of 220°C.

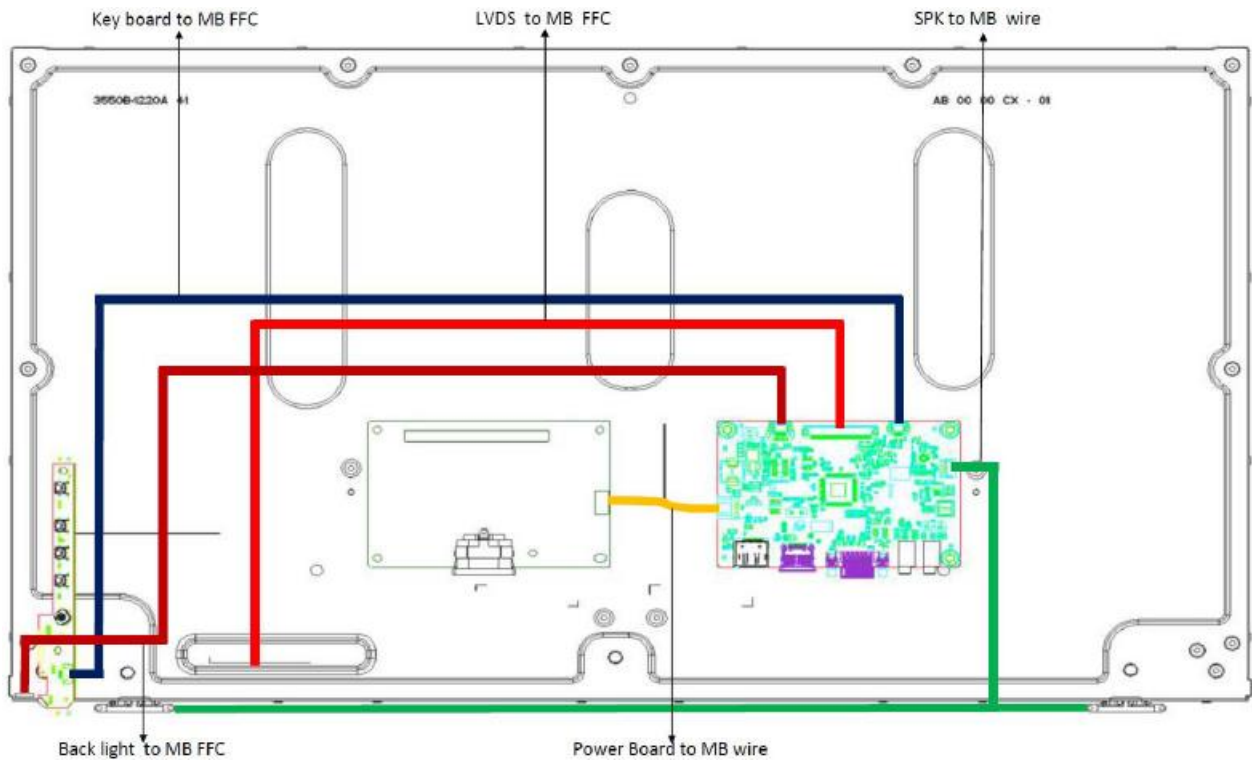
1. Exploded Diagram



This drawing is property of Lohal Display(Suzhou)Co., Ltd.
Unauthorized reproduction in whole or in part is prohibited by law.

UNIT	SCALE	NAME	DATE	MATERIAL	DESCRIPTION	CB272 Acer
mm	1:1	DSN	Vllie	2019/05/10		
		CHK	Heaven	2019/05/10	PAGE	
		APPD	Donald	2019/05/10	1 OF 1	PART NO.

2. Wiring Connectivity diagram



3. Mechanical Instruction

Tools Required

List the type and size of the tools that would typically can be used to disassemble the product to a point where components and materials requiring selective treatment can be removed.

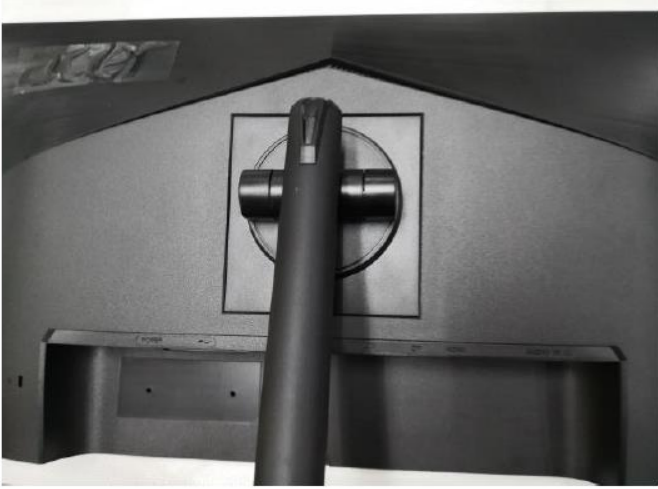
Tool Description:

- working table
- Screw-driver
- Knife
- glove
- cleaning cloth
- ESD protection

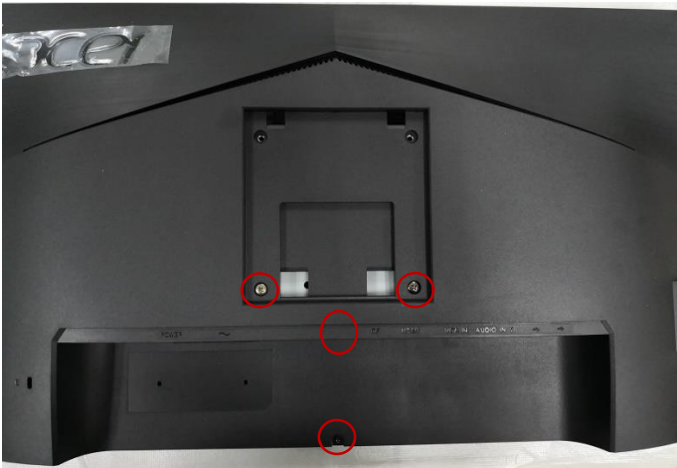
4. Assembly and Disassembly Procedures

➤ Disassembly Procedure

Step. 1 Pull the base & stand assembly out



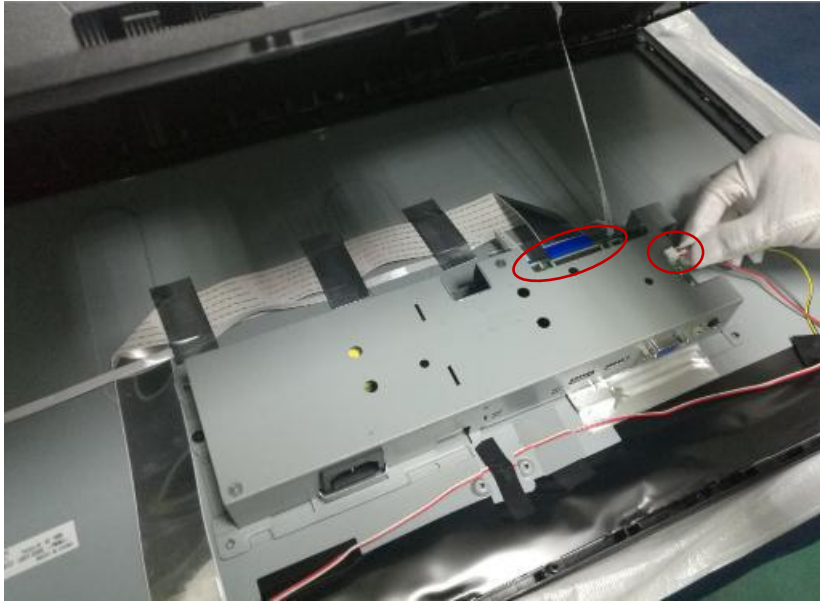
Step.2 Unscrew four screws



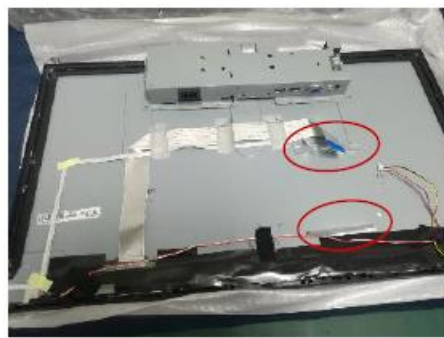
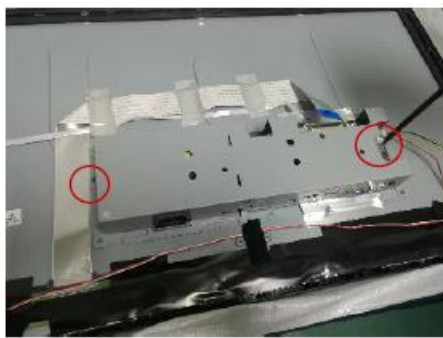
Step.3 Separate hooks between MID_FRAME and R/C



Step 4. Pull up the Rear Cover and pull out all connectors



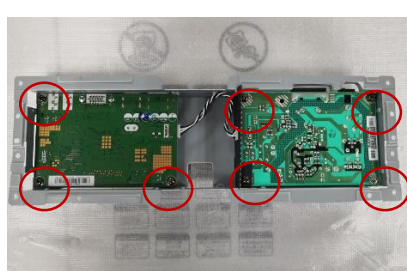
Step.5 Unscrew screws on main shielding and disassemble AL tape



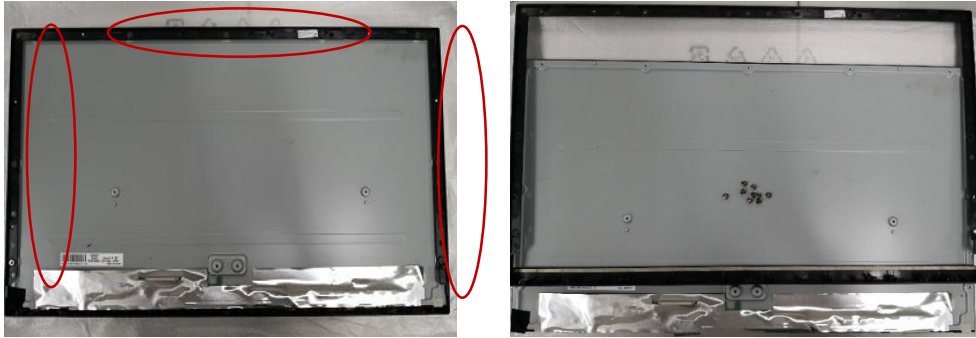
Step.6 Separate speaker from MID_FRAME and LVDS & Backlight FFC from LCM



Step.7 Unscrew two hex nuts and seven screws and remove main board PCBA from main shielding.



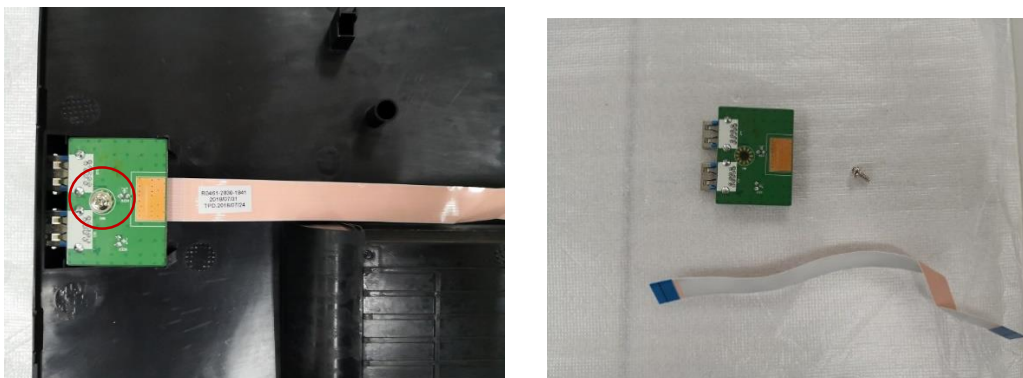
Step.8 Unscrew eleven screws and separate MID FRAME and LCM



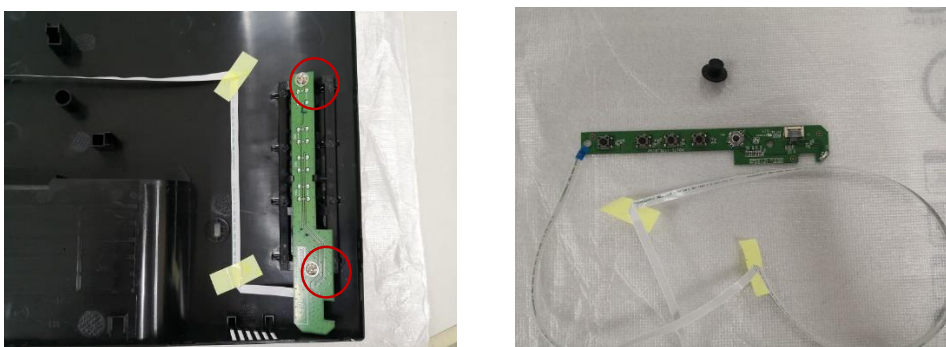
Step.9 Separate gasket and lens from MID frame



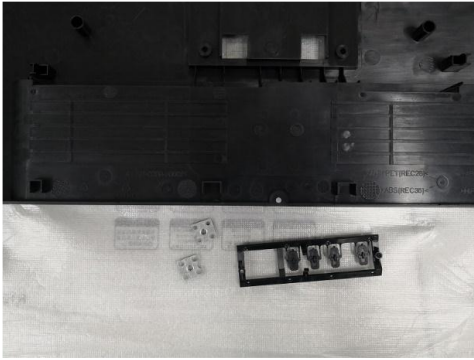
Step.10 Unscrew one screw and disassemble USB board from rear cover and separate USB & cable



Step.11 Unscrew two screws and disassemble key board from rear cover and separate navi key& cable



Step.12 Separate wall-mount BKT and display key from rear cover

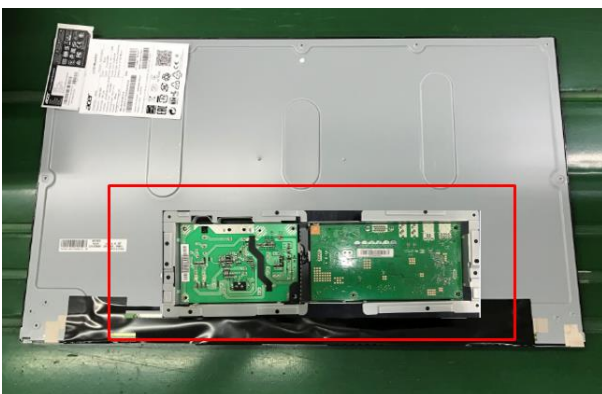


Step.13 Unscrew two screws and separate base & stand assembly



➤ Assembly Procedure

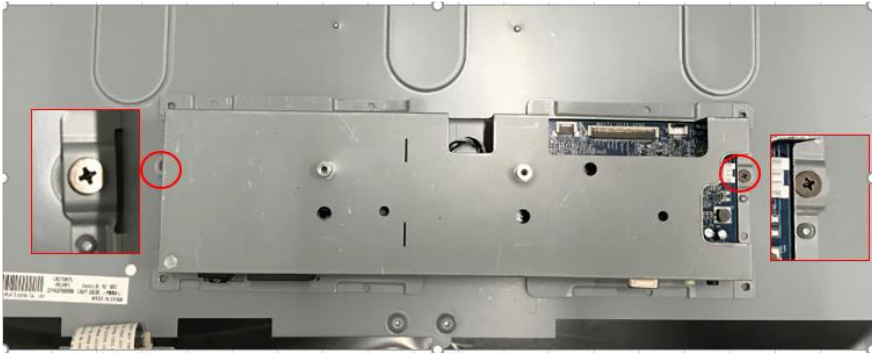
Step1. Assembly main board into shielding, use screw to fix. Assembly main board on LCM.



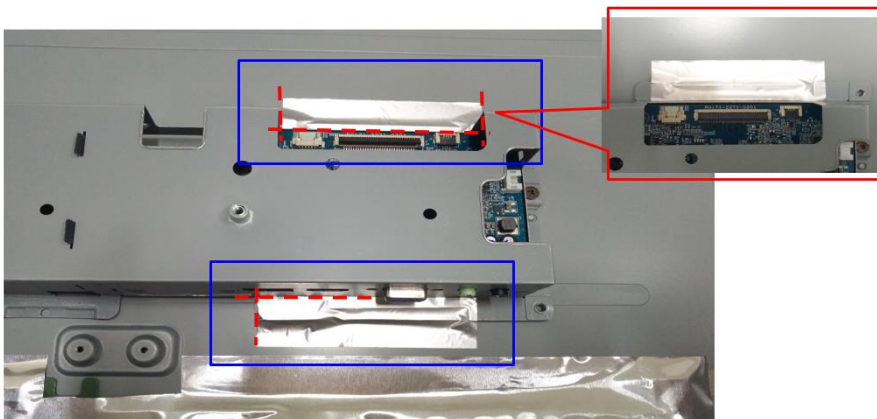
Step2. Insert 30 pin LVDS FFC to LCM, then use acetate cloth tape to tape FFC.



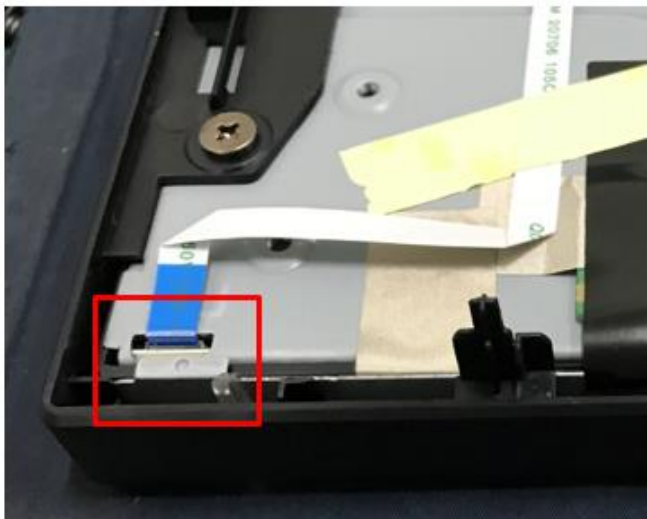
Step3. Lock the shielding on panel with screw. (in red circle)



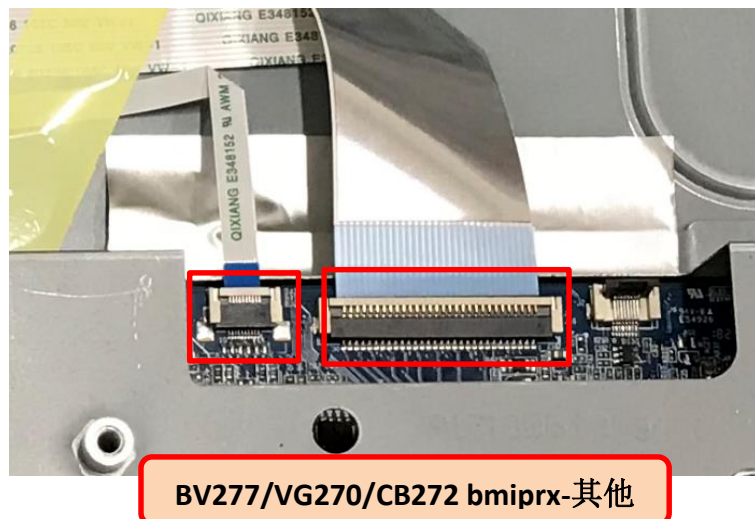
Step4. Use AI tape to fix shielding (tape in blue circle).



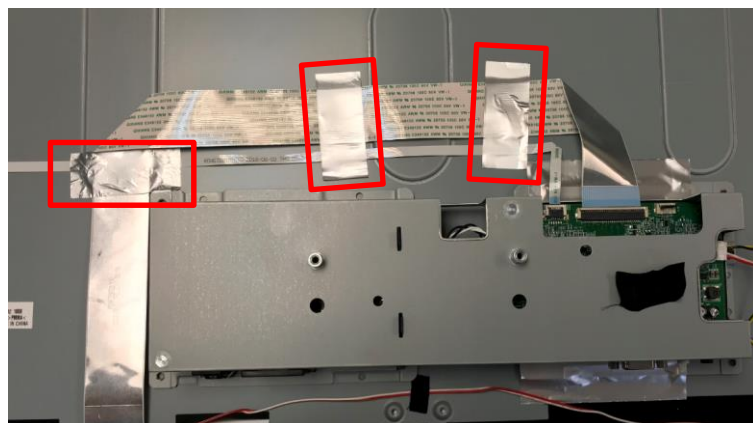
Step5. Insert 10 pin back light WH to panel and main board, use acetate tape to fix. (Tape in red circle).



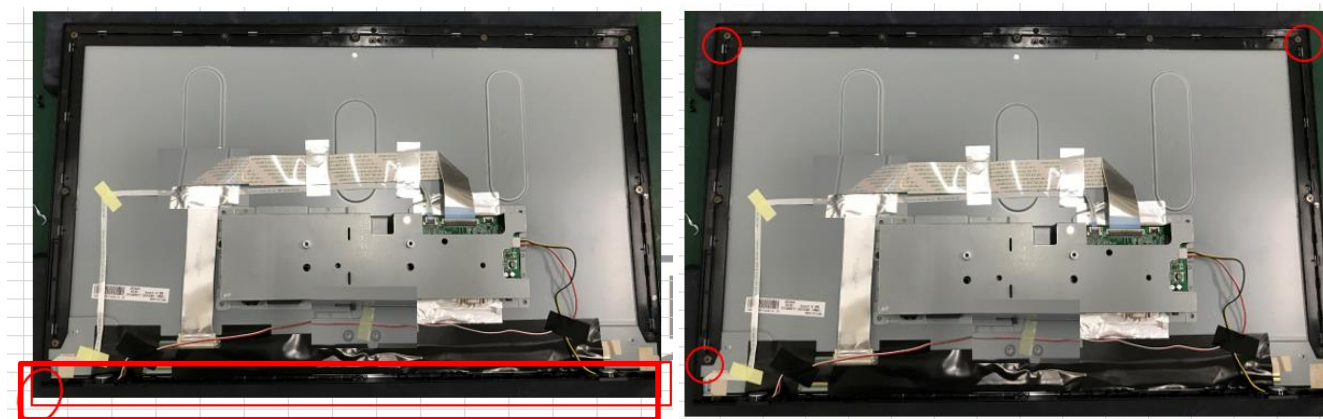
Step6. Insert 10 pin back light FFC and 30 pin LVDS FFC to main board. Use yellow tape to fix.



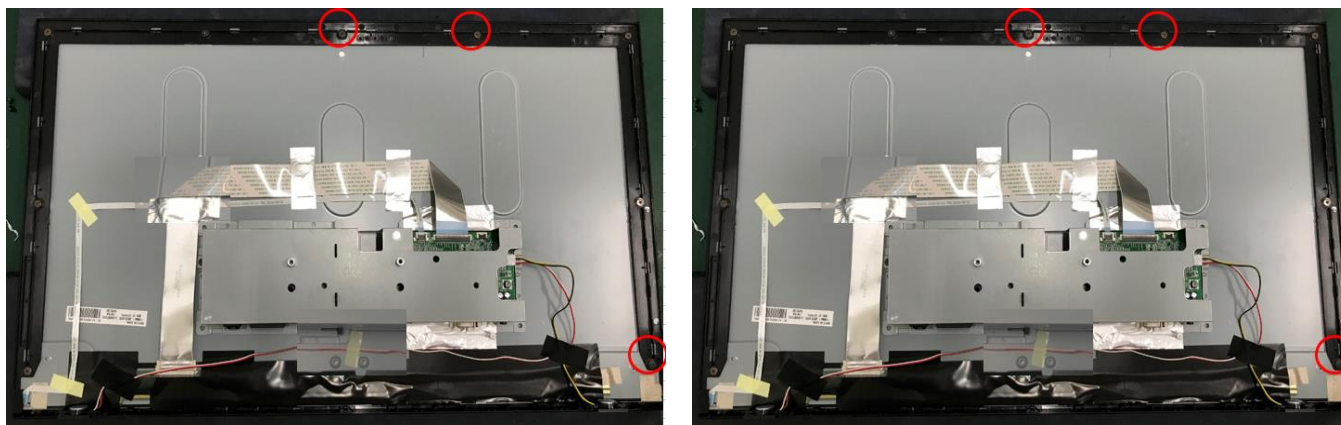
Step7. Tape AL tape to fix FFC. (Tape in red circle).



Step8. Assembly middle frame with LCM and fix screw (in red circle)



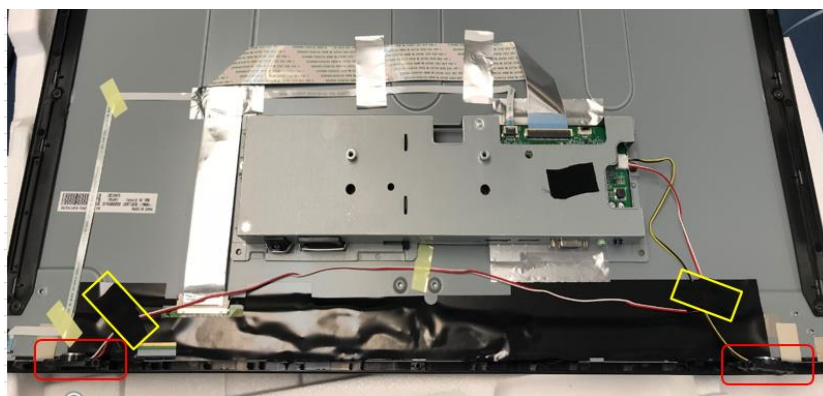
Step9. Lock middle frame screw (in red circle)



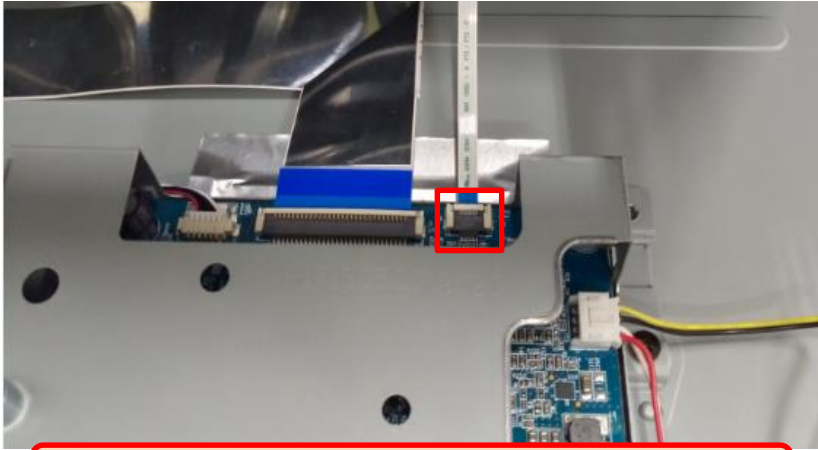
Step10. If with speaker model, assembly speaker on middle frame, and assembly speaker cable on main board. (red and white cable is on left side, yellow and black is on right side.)



Step11. Tape speaker cable with acetate cloth tape (in yellow circle) and yellow tape (in blue circle).



Step12. Insert key board FFC on main board.

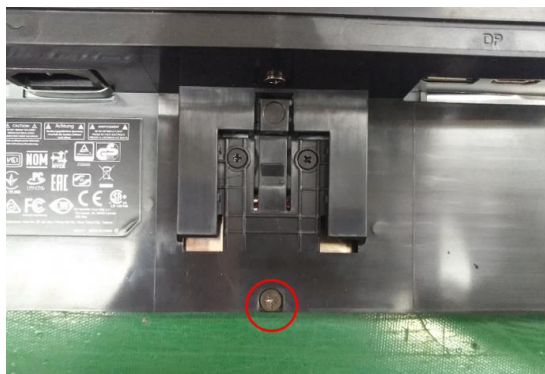


B277/V277/VG270/CB272/KA272 bmiprx-其他接口

Step13. Assembly rear cover, and push around the surrounding to assembly well.

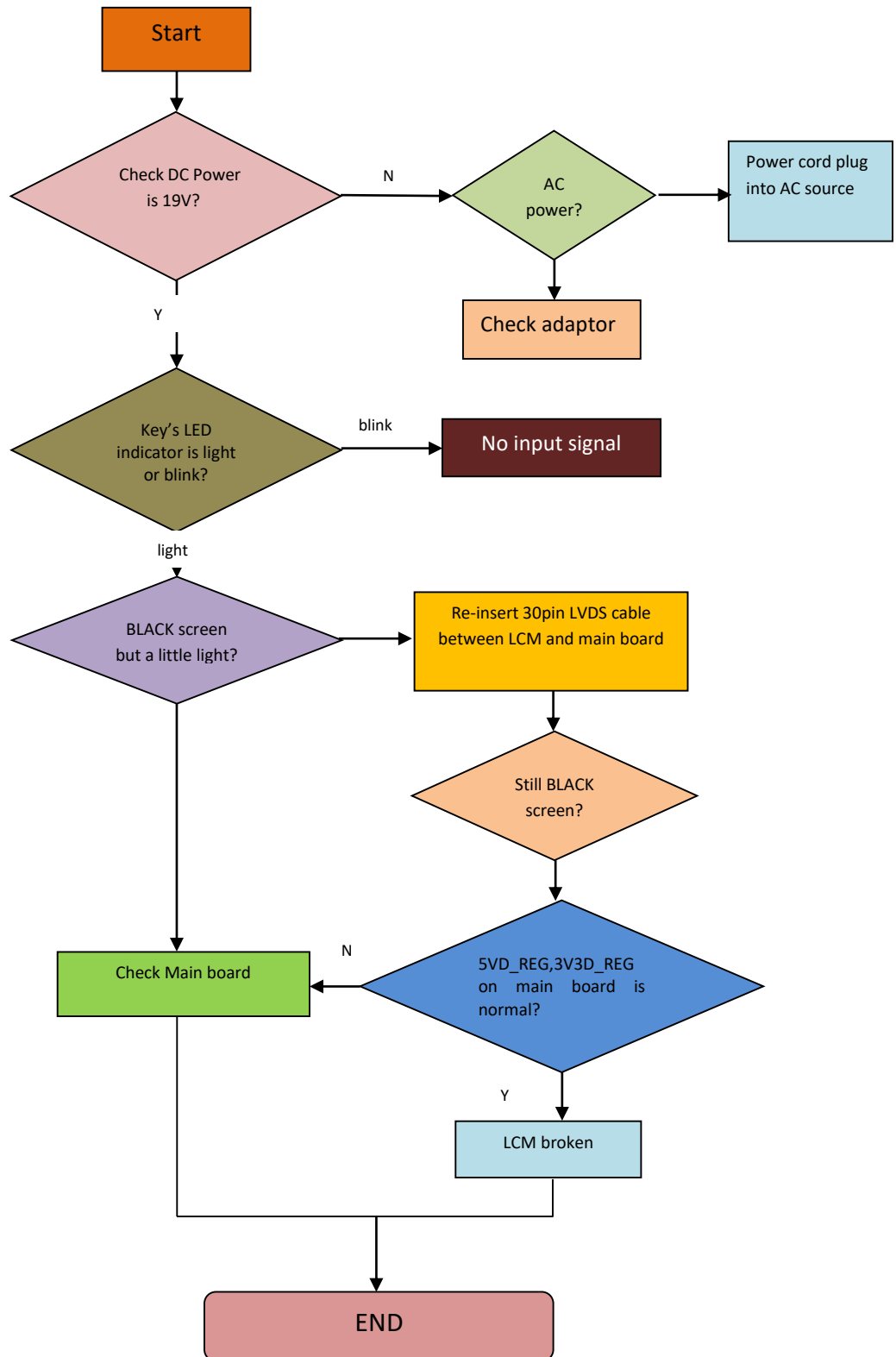


Step14. Lock the screw on rear cover (in red circle).

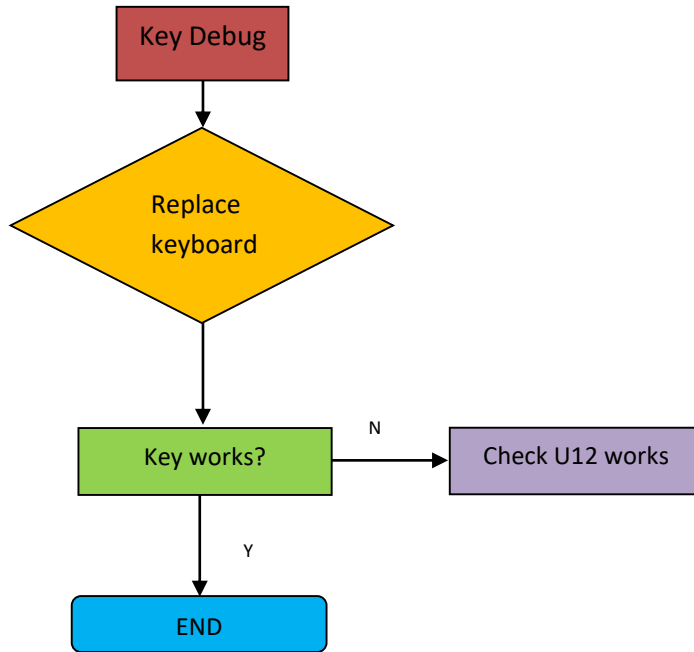


5. Troubleshooting

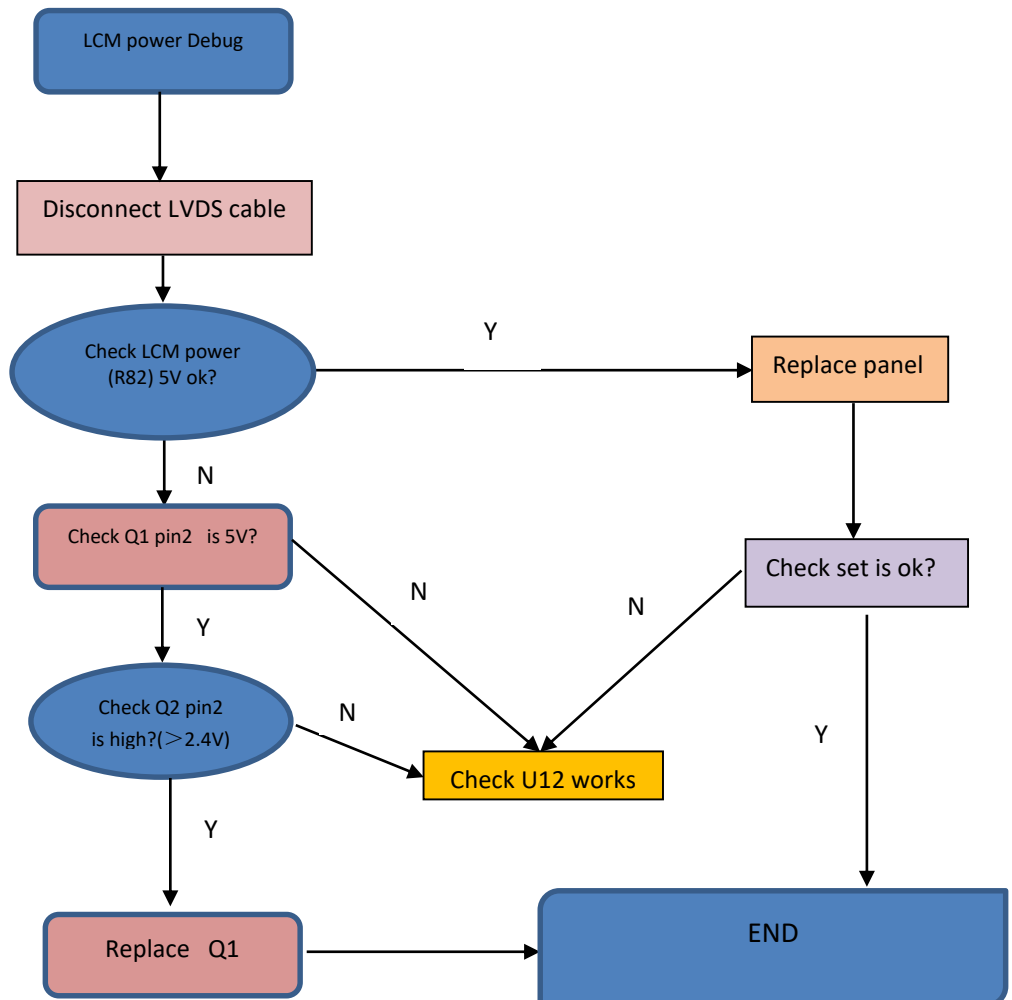
5.1 Test flow for abnormal machine:



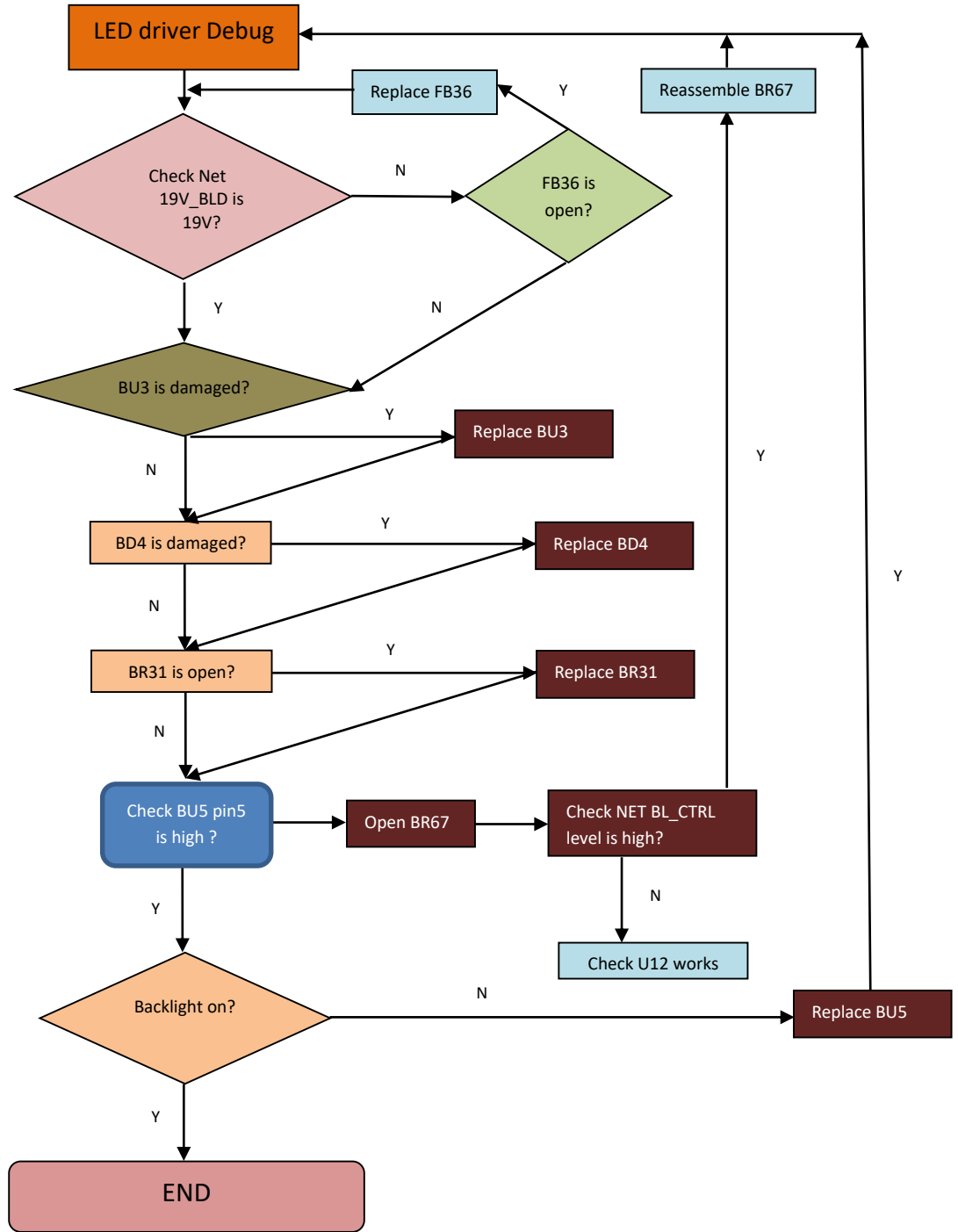
5.2 key debug flow:








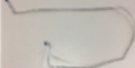



5.3 Panel debug flow:



5.4 LED backlight debug flow:



6. FRU (Field Replaceable Unit) List

Parts Photo	SPL_Category	Acer PN	Raken PN	ODM Description
	INVERTER / Power BD	55.T1ZM5.011	R050005062221	A-D PSU 1.84A 19V ADO-35W1-B 19(SW)(120x80mmx1.6t_DC4P)_IEC62368
	BOARD	55.TH9M5.003	R352716720150	MAIN BD ASSY CB272 bmiprx (RTD2525AR)ES8.0
	BOARD	55.TFKM5.004	R352400620156	KEY BD ASS'Y (B247Y&V247Y)
	CABLE	50.TFKM5.001	R046611040030	WH KY-2501HS01-04/KY-2501HS01-04 #24 100mm W/B LF
	CABLE	50.TFQM5.003	R046728081091	WH FFC 8P(0.5mm)670mm(3FOLD)60V (A8+A5)LF
	CABLE	50.TFQM5.004	R046728101010	WH FFC 10P(0.5mm)600mm (4FOLD) 60V(A8+A12/V-CUT) LF
	CABLE	50.TFQM5.008	R046128301990	WH FFC 30P(1.0mm)640mm (4FOLD PRO*2 ACETATE)90V G/F W/CONN.(A15 BC) AL(AA) LF -OP
	FAN SINK/SPEAK/EARPH ONE/RTC	23.TFQM5.001	R033502041130	SPK 2W 4ohm 28.5*22*8mm(R600mm*L200mm) VECO for BV277 LF
	LCD	KL.27002.018	R352701820395	LCM ASSY ACER B277 (ES8.0 LM270WF5-CSAB1)