

# 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.

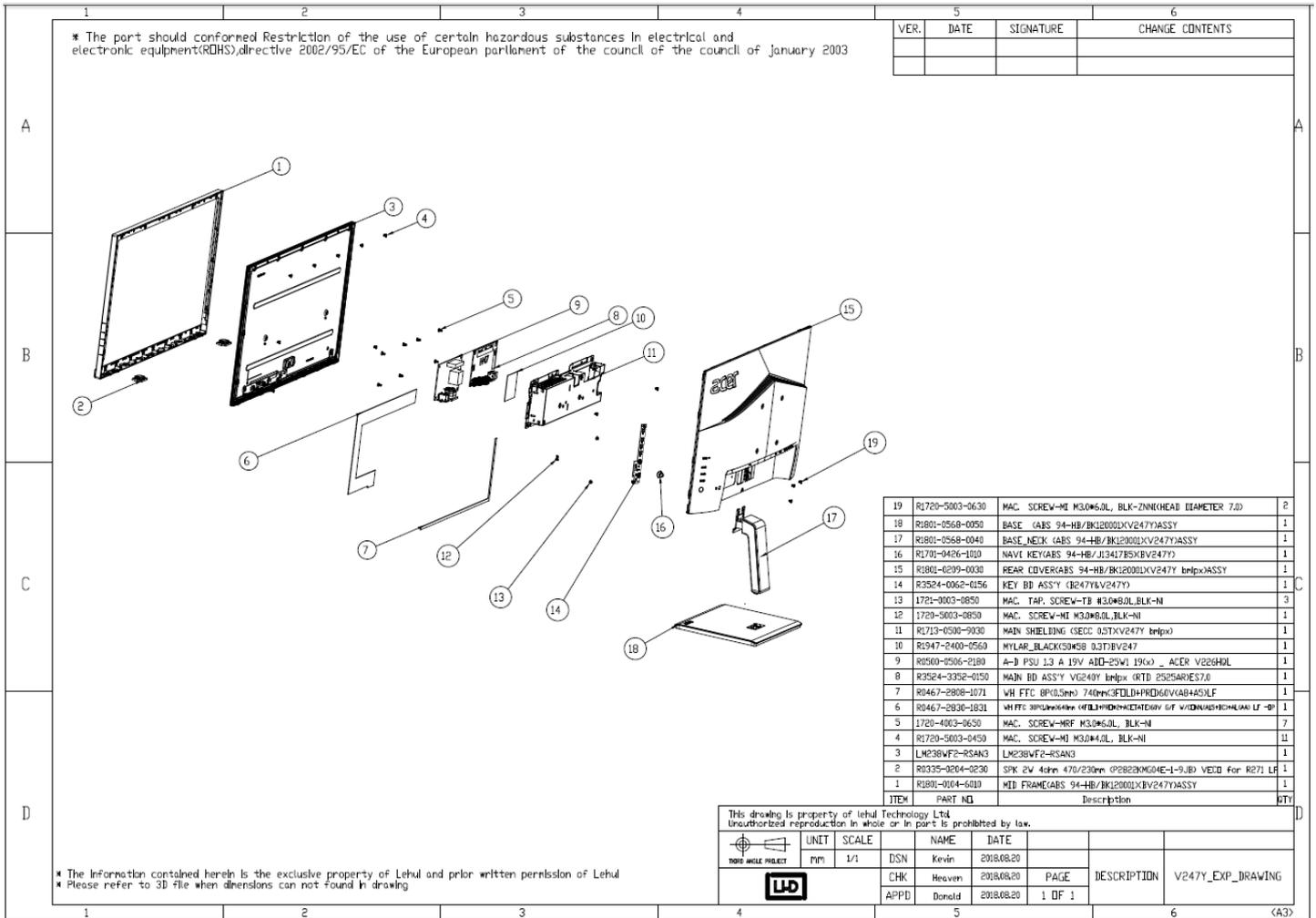
### Qualified Repairability:

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.

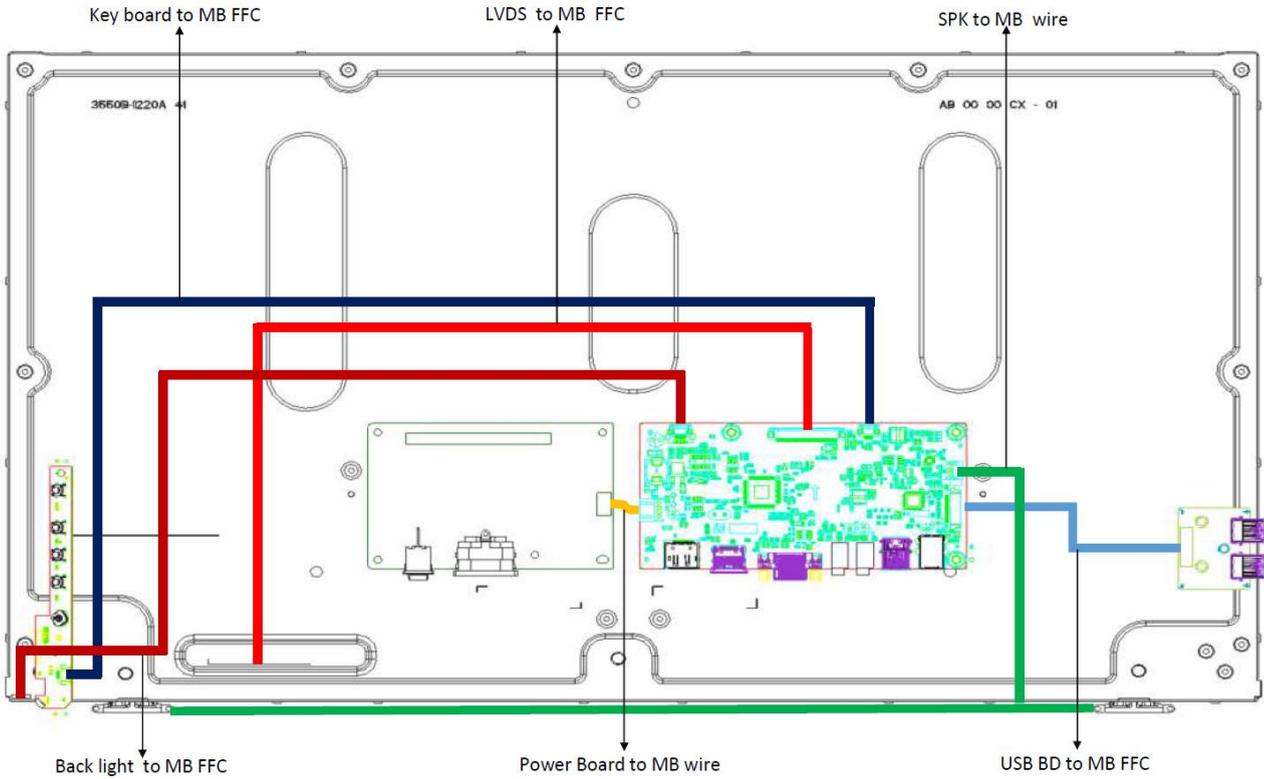
### NOTICE:

- ! 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



## 2. Wiring Connectivity diagram



If without USB hub sku, just ignore USB board and USB board to main board FFC.

### 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



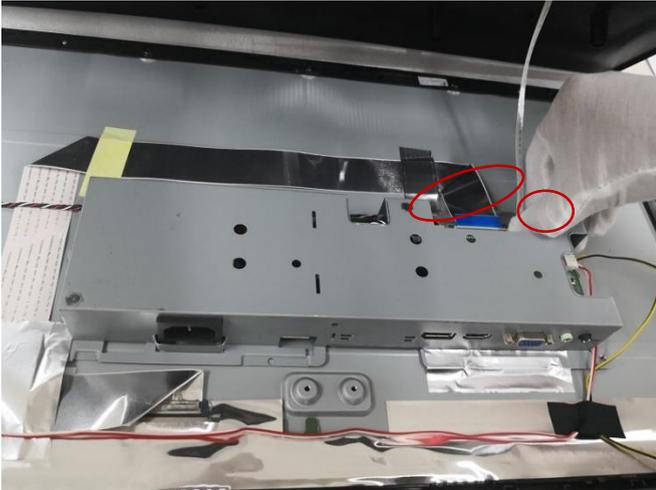
Step.2 Unscrew four screws



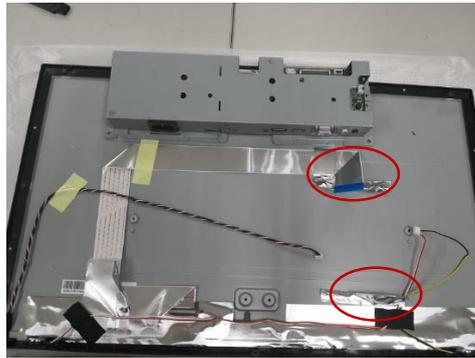
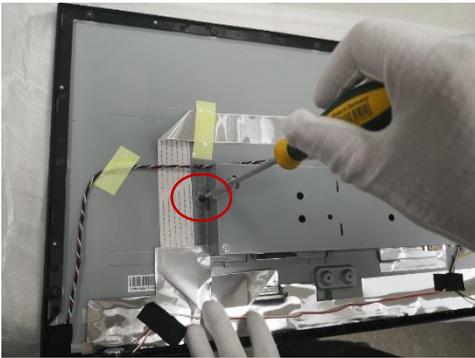
Step.3 Separate hooks between MID\_FRAME and R/C



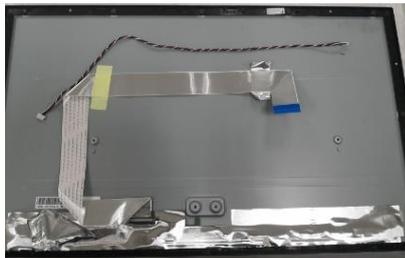
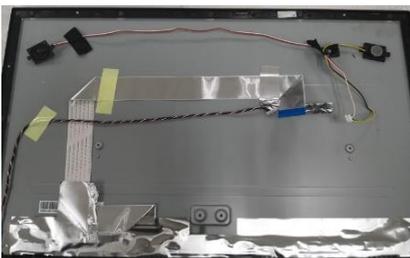
Step 4. Pull up the Rear Cover and pull out all connectors



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



Step.6 separate speaker from MID\_FRAME and LVDS & Backlight FFC from LCM



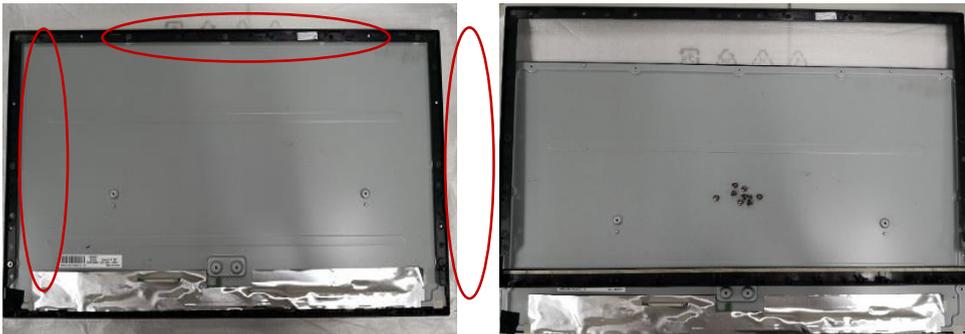
Step.7 Unscrew two hex nuts and seven screws and remove main board PCBA from main shielding.



Step.8 Remove connector cable and separate main board and power board, separate Mylar and shielding



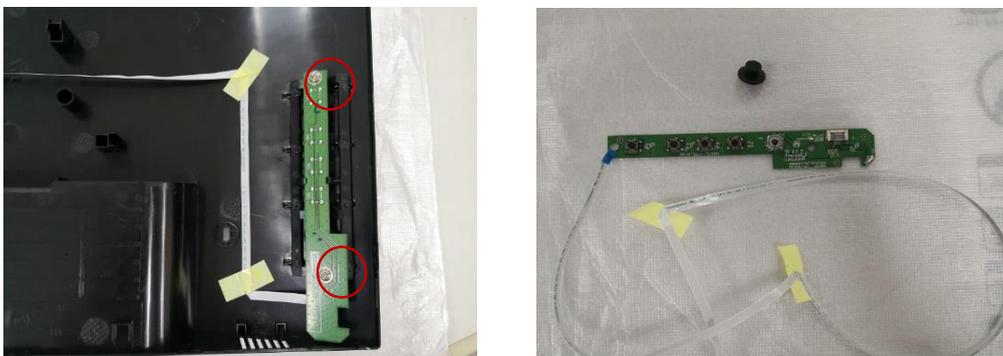
Step.9 Unscrew eleven screws and separate MID FRAME and LCM



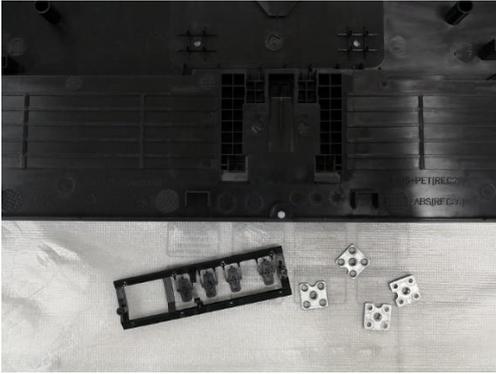
Step.10 Separate gasket and lens from MID frame



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



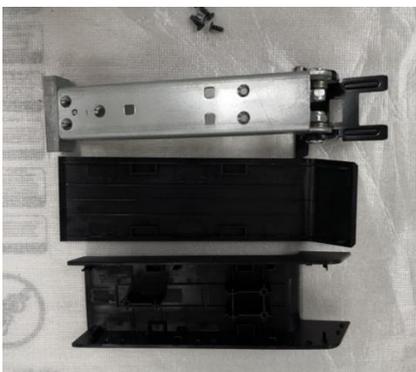
Step.13 Unscrew two screws and separate base & stand assembly



Step.14 Remove six silicon rubbers and unscrew seven screws to separate metal and plastic cover



Step 15. Separate back cover from neck, unscrew five screws and separate front cover from hinge assy.

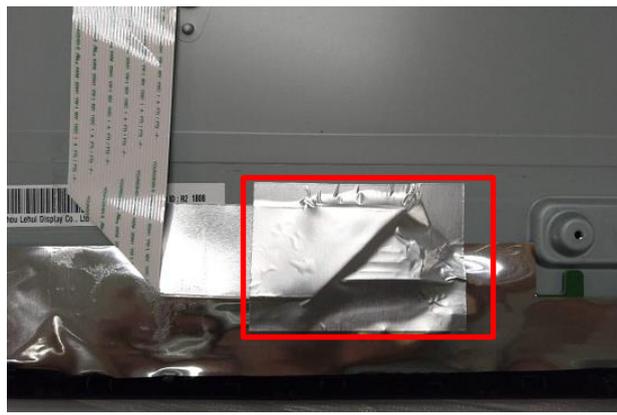
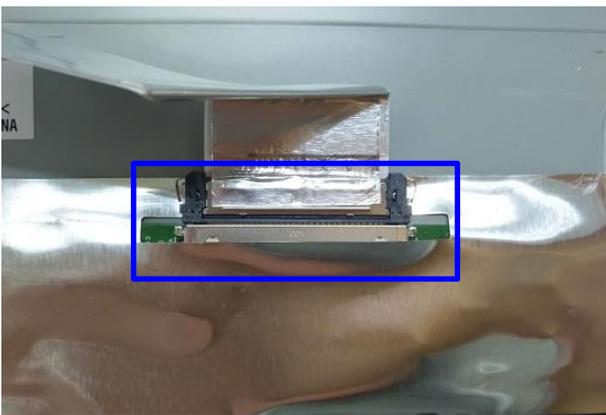


## ➤ Assembly Procedure

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



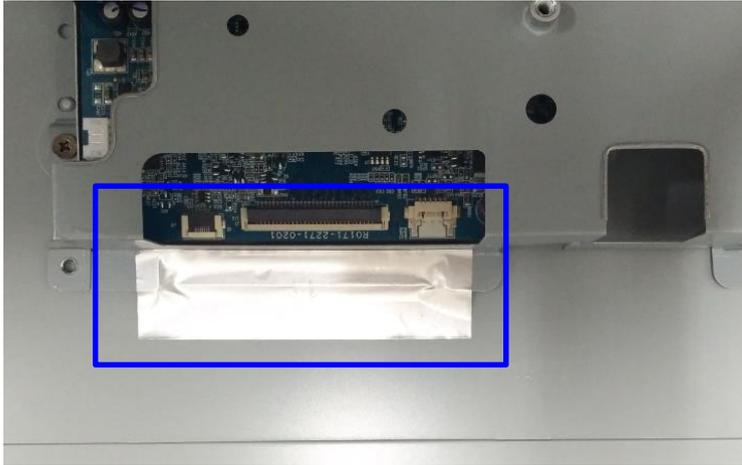
Step2. Insert 30 pin LVDS FFC to LCM, then use acetate cloth tape to tape FFC.



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



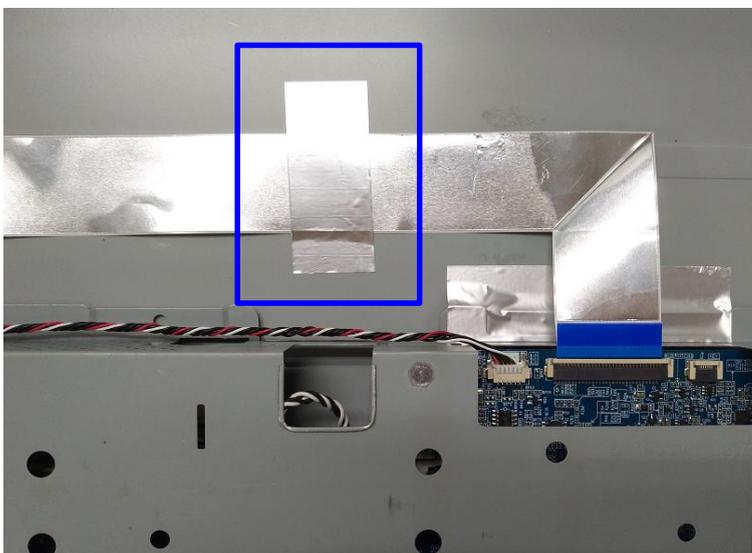
Step4. Use AI tape to fix shielding (tape in blue circle).



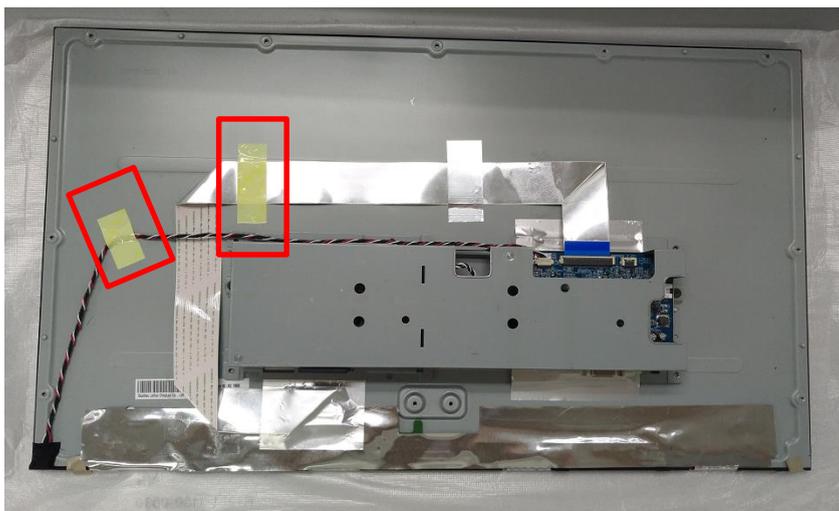
Step5. Insert 6 pin back light WH to panel and main board, use acetate tape to fix. (Tape in red circle).



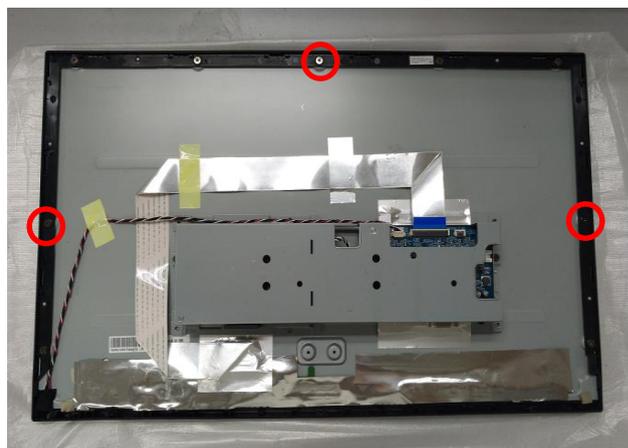
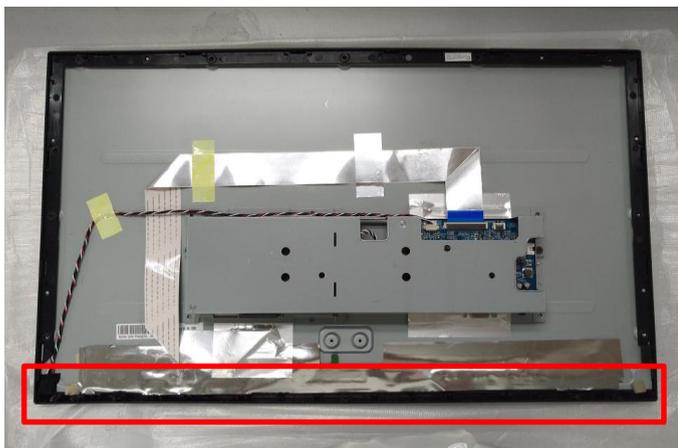
Step6. Insert 30 pin LVDS FFC to main board. Use AL tape to fix. (Tape in blue circle).



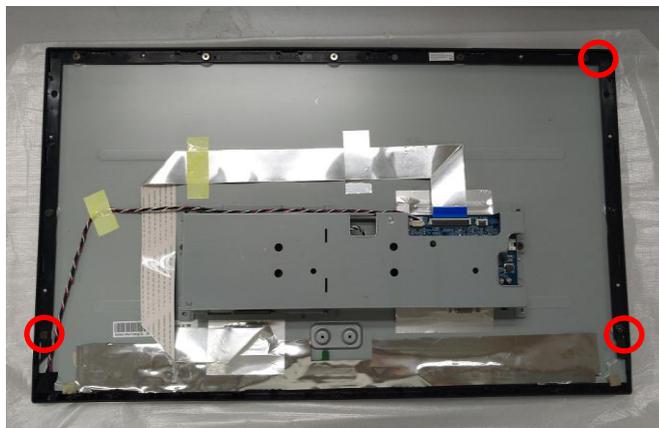
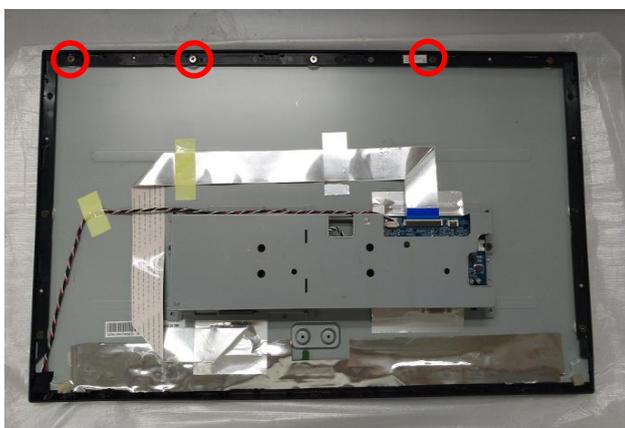
Step7. Tape yellow tape to fix FFC. (Tape in red circle).



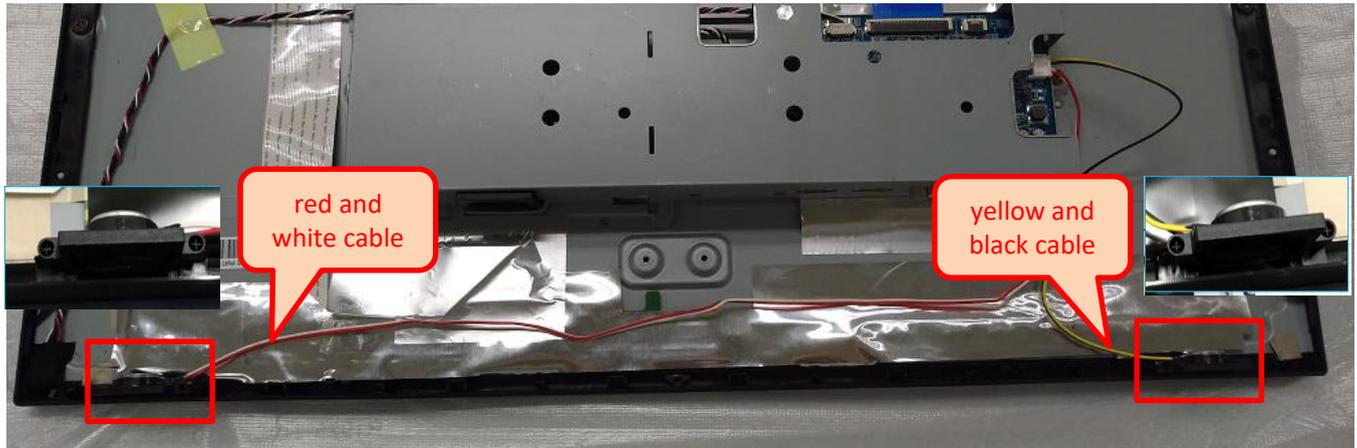
Step8. Assembly middle frame with LCM and fix screw (in red circle)



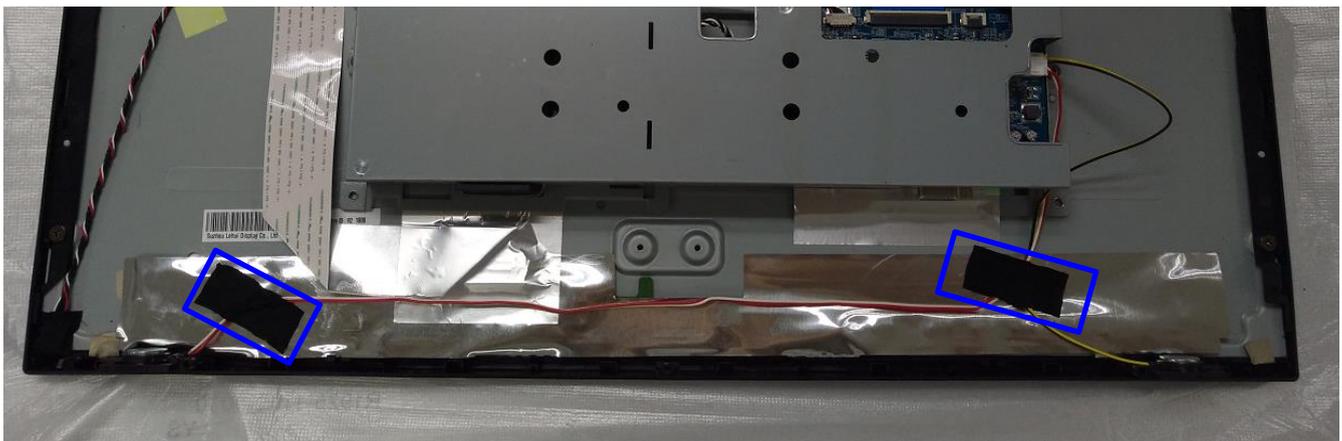
Step9. Lock middle frame screw (in red circle)



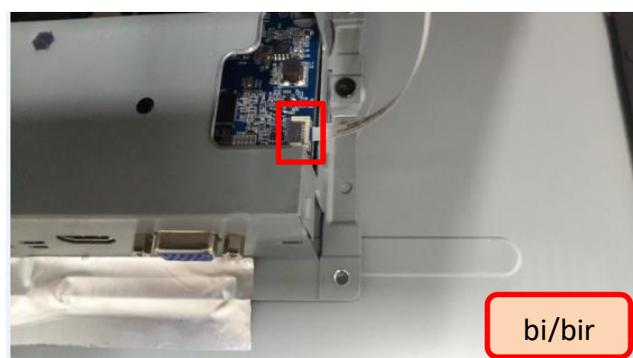
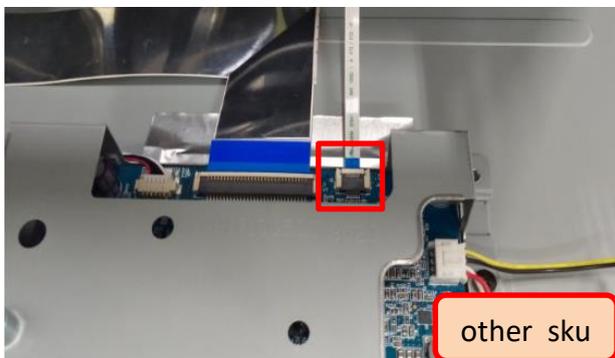
Step10. If with speaker model, assembly speaker on middle frame, and assembly speaker cable on main board. (red and white cable is on left side, yellow and black is on right side.)



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



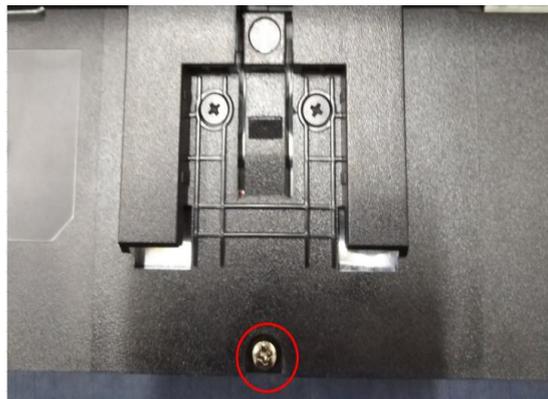
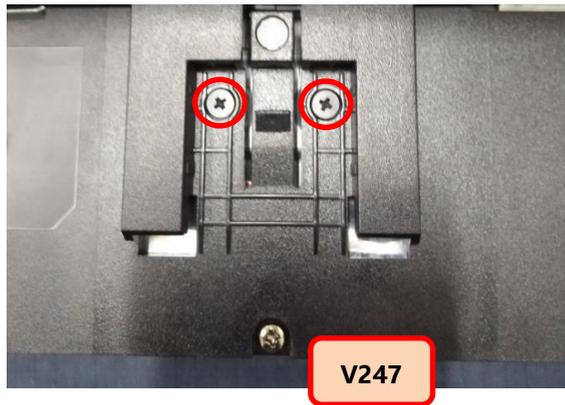
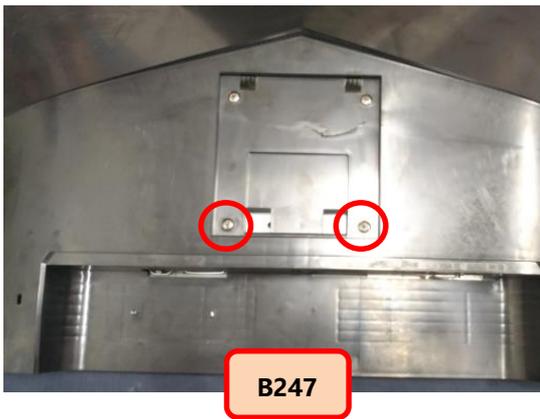
Step12. Insert key board FFC on main board.



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

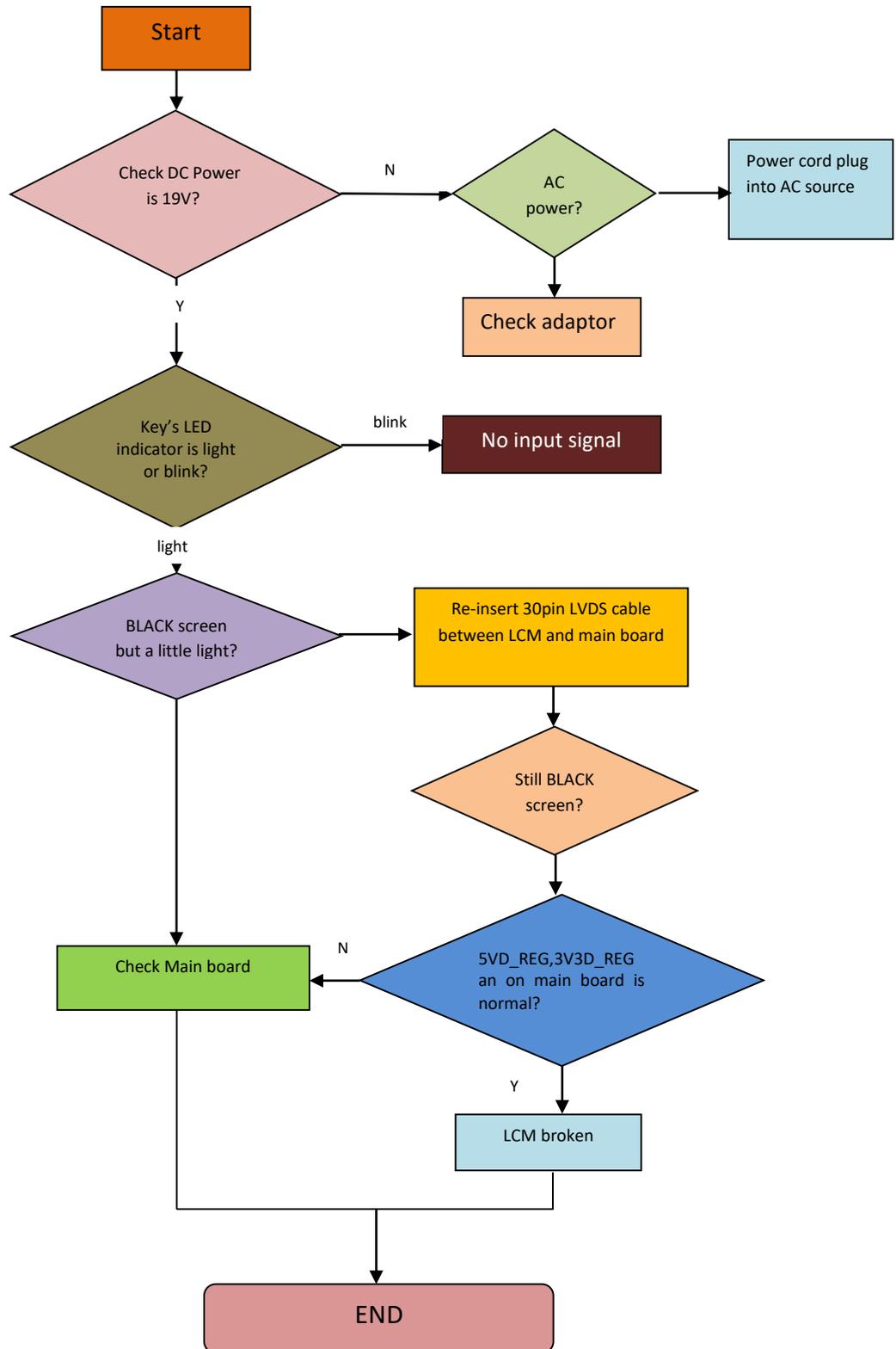


Step14. Lock the screw on rear cover (in red circle).

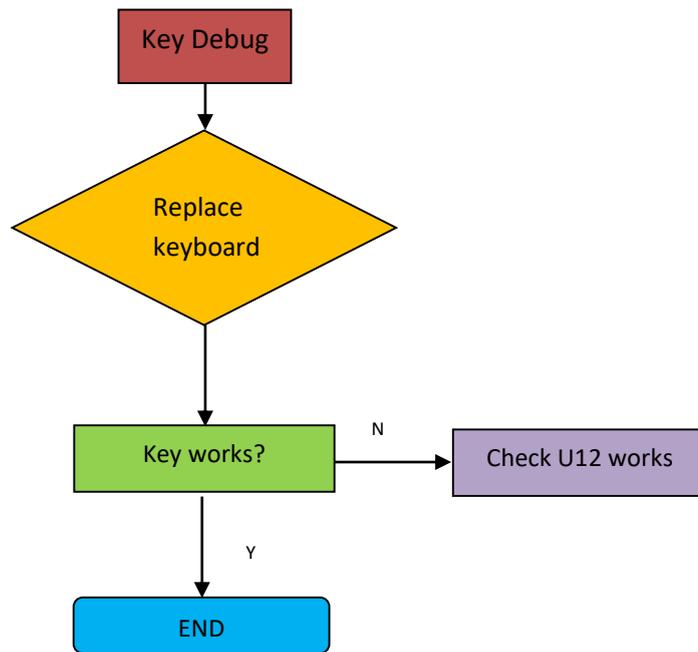


## 5. Troubleshooting

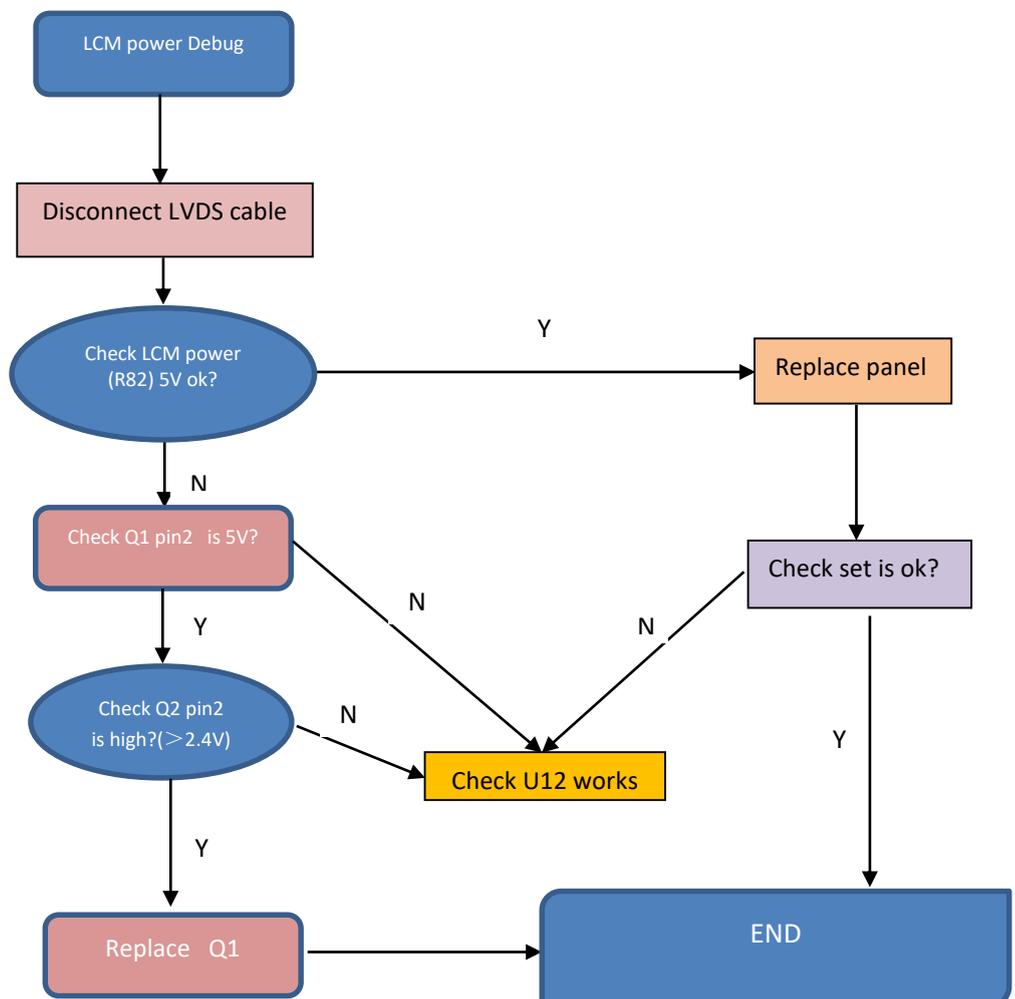
### 5.1 Test flow for abnormal machine:



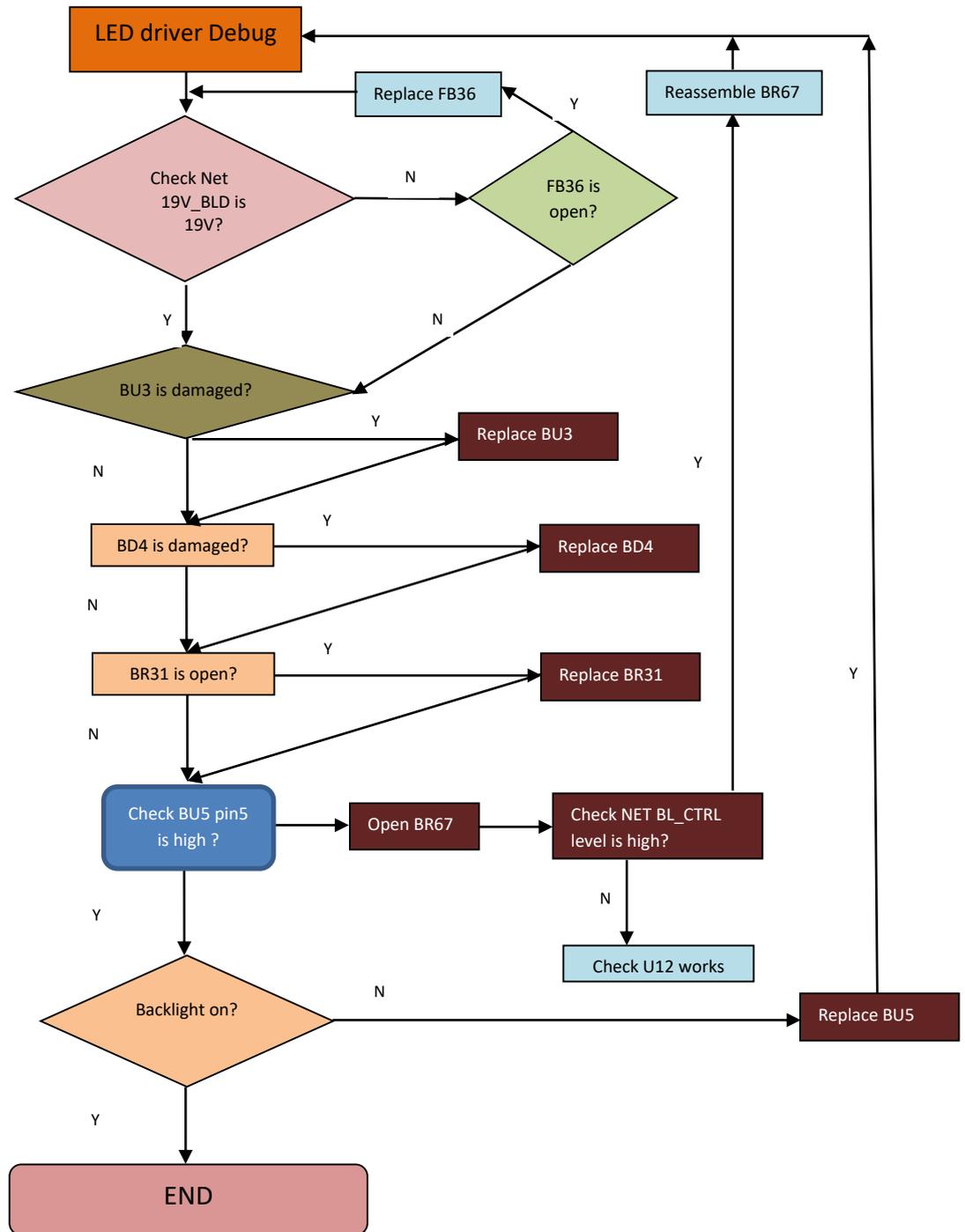
5.2 key debug flow:



5.3 Panel debug flow(bmipx&bmix&bip):



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.TJ2M5.003	R050005062181	A-D PSU 1.32 A 19V ADO-25W1-B 19(w/o SW)(120x80mmx1.6t_DC4P)_IEC62368
	INVERTER / Power BD	55.T0WM5.046	R050005062180	A-D PSU 1.3 A 19V ADO-25W1 19(x) _ ACER V226HQL
	BOARD	55.TFKM5.007	R352438520150	MAIN BD ASS'Y V247Y bmipx (RTD2525AR)ES8.0
	BOARD	55.TFKM5.006	R352438420150	MAIN BD ASS'Y V247Y bip (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.TFKM5.002	R046630060330	WH KY-1251HS01-06/KY-1025HL-06 #28 450mm W/B LF
	CABLE	50.TFKM5.003	R046728081072	WH FFC 8P(0.5mm) 670mm(3FOLD)60V(A8+A5)LF
	CABLE	50.TFKM5.006	R046728301831	WH FFC 30P(1.0mm)640mm (4FOLD+PRO*2+ACETATE)60V G/F W/CONN (A15+BC)+AL(AA) LF -OP
	FAN SINK/SPEAK/EARPHON E/RTC	23.T6LM5.001	R033502040230	SPK 2W 4ohm 470/230mm (P2822KMG04E-1-9JB) VECO for R271 LF
	LCD	KL.23802.012	R352401020395	LCM ASS'Y ACER V247Y (ES8.0 LM238WF2-CSAN1)