ACER Monitor_R271

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 humility environment.

! To ensure the continued reliability of this product, use only original manufacturer's specified parts.

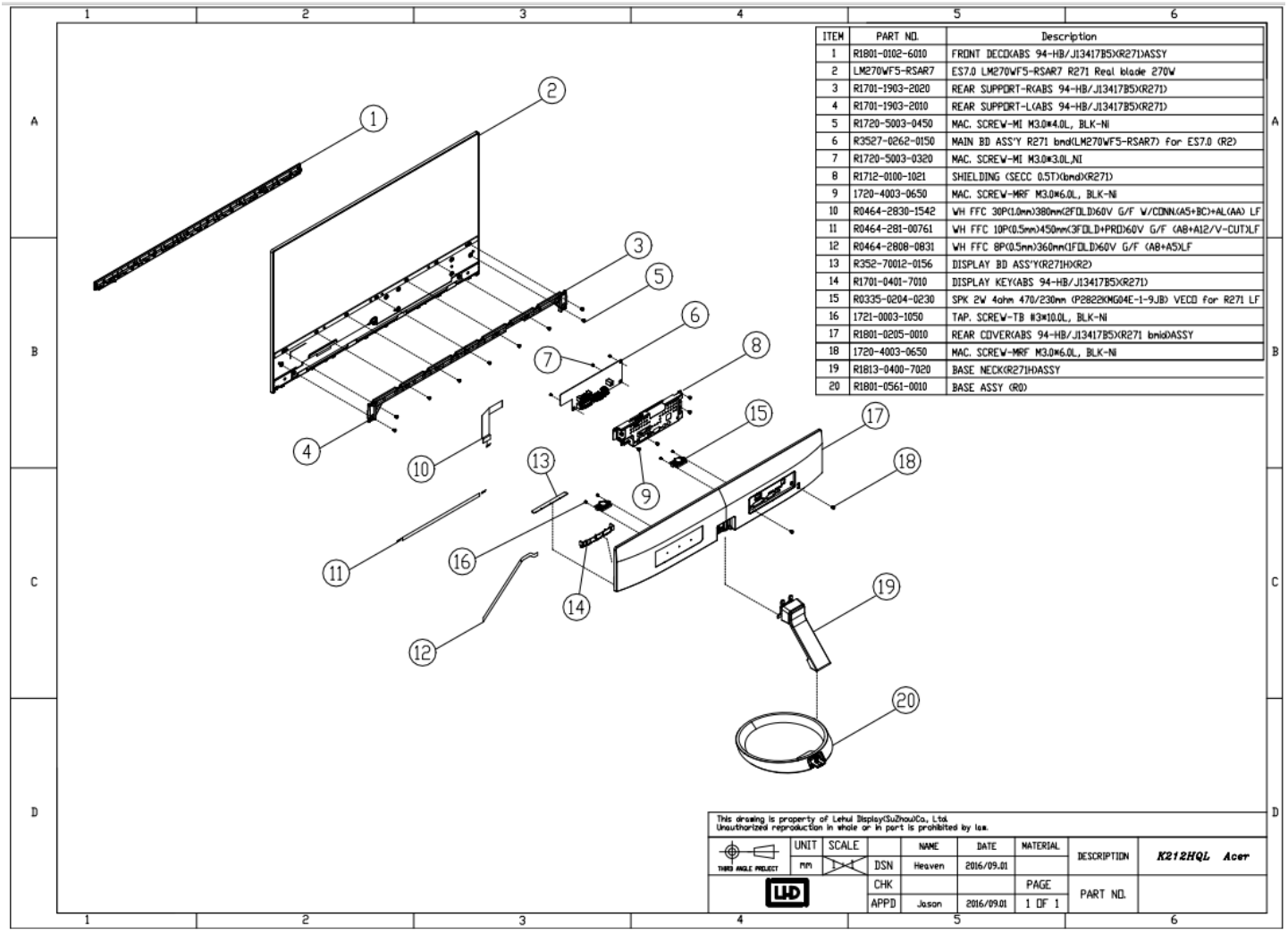
! To ensure following safety repairing behavior, put the replaced part on the components side of PWBA, not solder side.

! 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.

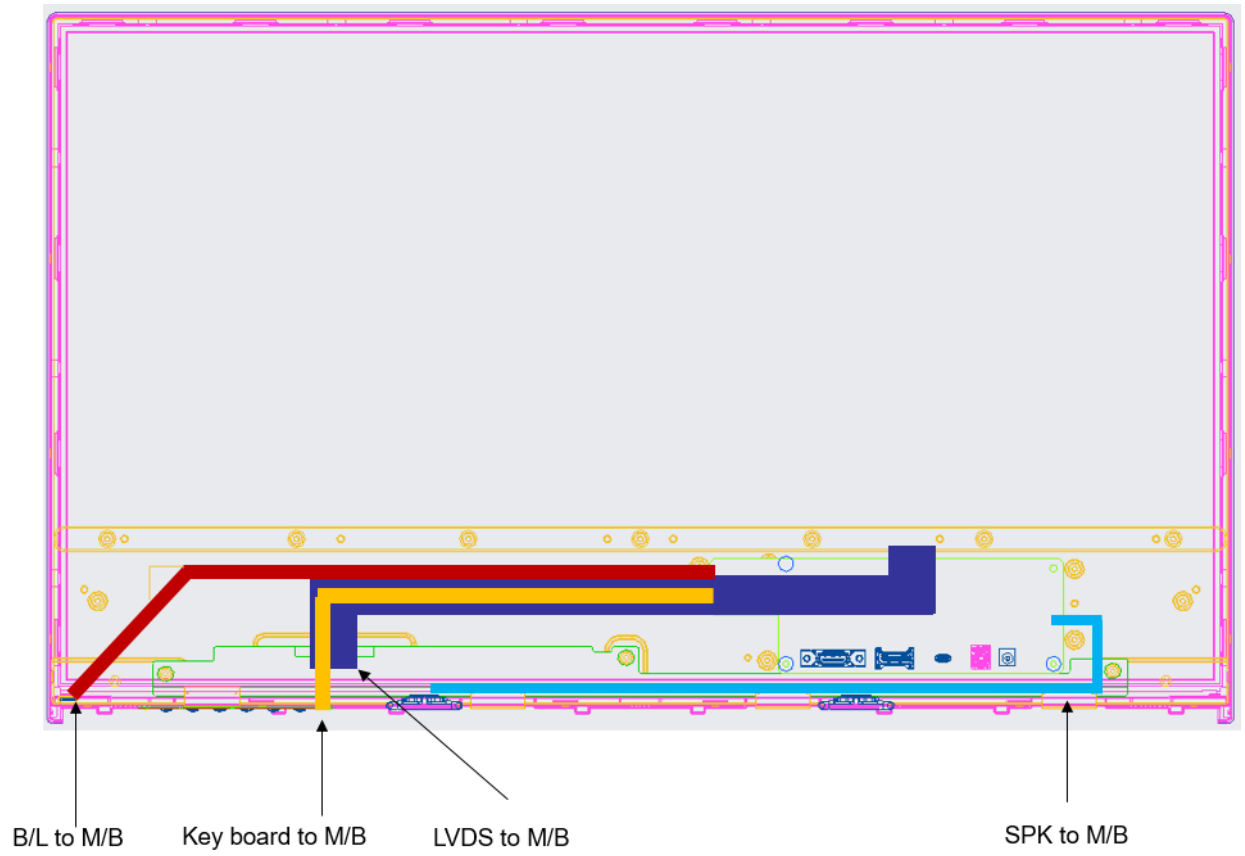
1. Exploded Diagram



ITEM	PART NO.	Description
1	R1801-0102-6010	FRONT DECD(ABS 94-HB/J13417B5)(R271)ASSY
2	LM270WF5-RSAR7	ES7.0 LM270WF5-RSAR7 R271 Real blade 270W
3	R1701-1903-2020	REAR SUPPORT-R(ABS 94-HB/J13417B5)(R271)
4	R1701-1903-2010	REAR SUPPORT-L(ABS 94-HB/J13417B5)(R271)
5	R1720-5003-0450	MAC. SCREW-MI M3.0*4.0L, BLK-Ni
6	R3527-0262-0150	MAIN BD ASS'Y R271 bnd(LM270WF5-RSAR7) for ES7.0 (R2)
7	R1720-5003-0320	MAC. SCREW-MI M3.0*3.0L,NI
8	R1712-0100-1021	SHIELDING (SECC 0.5T)(bnd)(R271)
9	1720-4003-0650	MAC. SCREW-MRF M3.0*6.0L, BLK-Ni
10	R0464-2830-1542	WH FFC 30P(1.0mm)380mm(2FDLD)60V G/F W/CONN.(A5+BC)+AL(AA) LF
11	R0464-281-00761	WH FFC 10P(0.5mm)450mm(3FDLD+PRD)60V G/F (AB+A12/V-CUT)LF
12	R0464-2808-0831	WH FFC 8P(0.5mm)360mm(1FDLD)60V G/F (AB+A5)LF
13	R352-70012-0156	DISPLAY BD ASS'Y(R271H)(R2)
14	R1701-0401-7010	DISPLAY KEY(ABS 94-HB/J13417B5)(R271)
15	R0335-0204-0230	SPK 2W 4ohm 470/230mm (P2822KMG04E-1-9JB) VECD for R271 LF
16	1721-0003-1050	TAP. SCREW-TB #3*10.0L, BLK-Ni
17	R1801-0205-0010	REAR COVER(ABS 94-HB/J13417B5)(R271 bnd)ASSY
18	1720-4003-0650	MAC. SCREW-MRF M3.0*6.0L, BLK-Ni
19	R1813-0400-7020	BASE NECK(R271H)ASSY
20	R1801-0561-0010	BASE ASSY (R0)

THIRD ANGLE PROJECT	UNIT	SCALE		NAME	DATE	MATERIAL	DESCRIPTION: K212HQL Acer
	mm		DSN	Heaven	2016/09.01		
			CHK			PAGE	PART NO.
			APPD	Jason	2016/09.01	1 OF 1	

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 two screws at the I/O area

Step.3 Disassemble rear cover by a thin plastic tool from a slot at the bottom of rear cover

Step 4. Pull up the rear cover and pull out all connectors

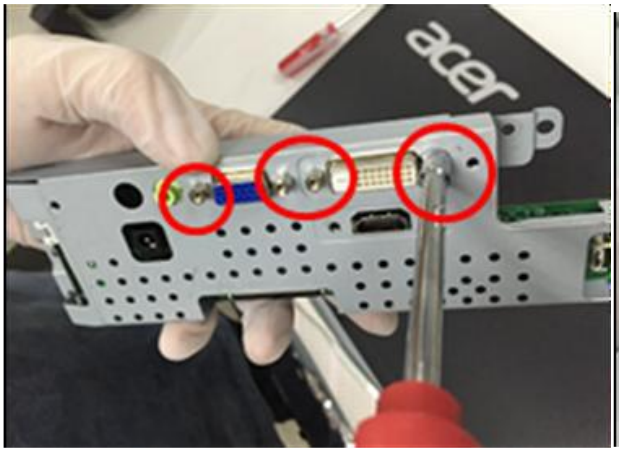
Step.5 Disassemble deco cover.

Step.6 Unscrew screws on main shielding case and disassemble Frame L&R.

Step.7 Remove F/B and take out the LCM, then separate Key board from F/B and LVDS cable from LCM

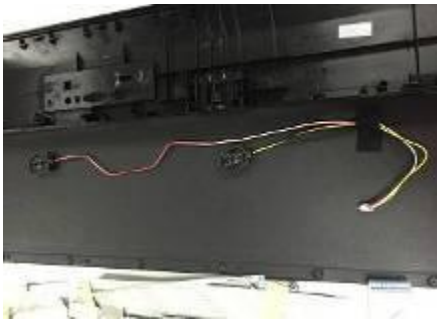
Step.8 Remove FFC from display board

Step.9 Unscrew four hex nuts and six screws and remove main board PCBA from main shielding.



Step.10 Disassemble rear cover assembly





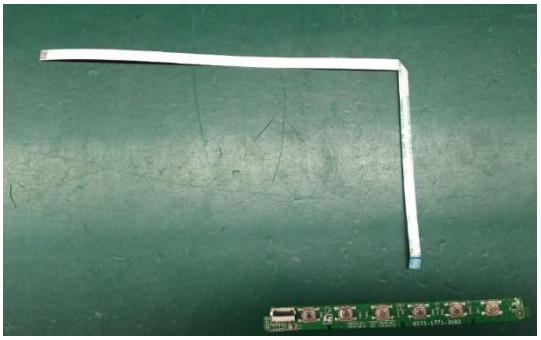
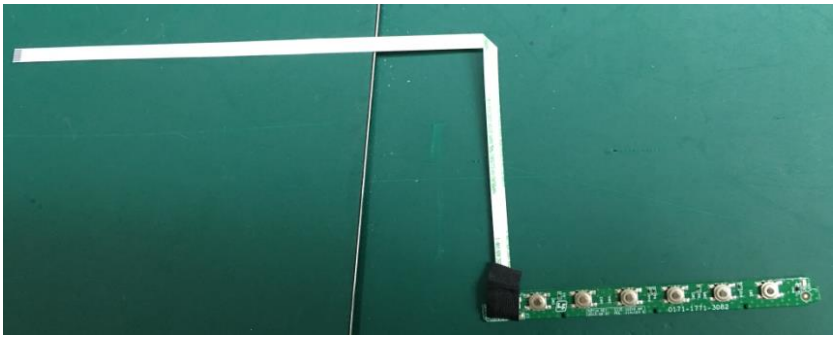
Step11. Unscrew the screw and separate base & neck assembly


Step12. Unscrew two screws and remove neck BKT

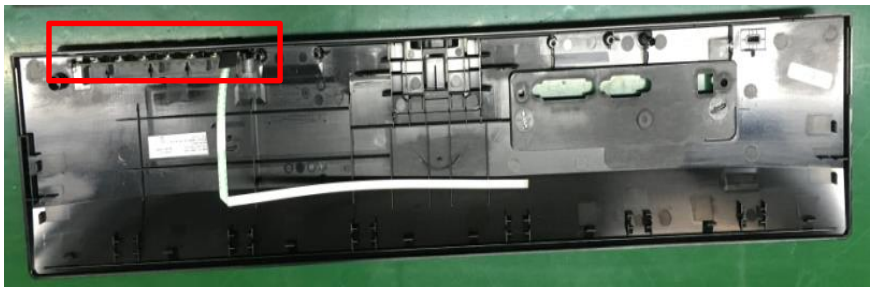
Step.13 Unscrew three screws and separation neck assembly

➢ Assembly Procedure

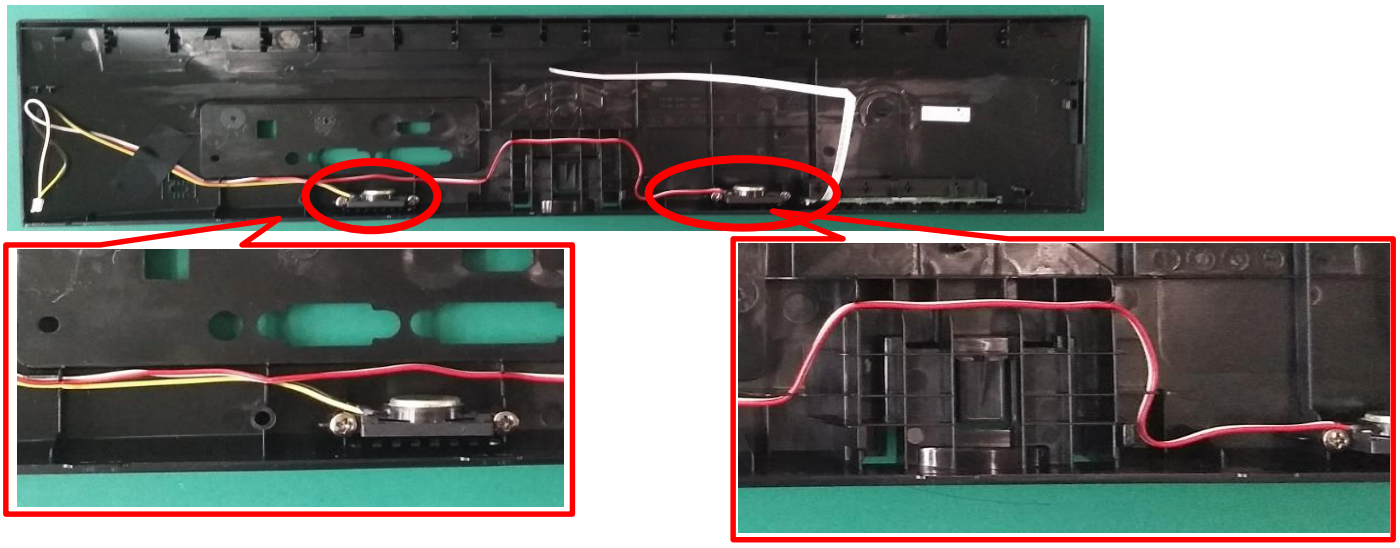
Step1. Assembly 8pin FFC to key board

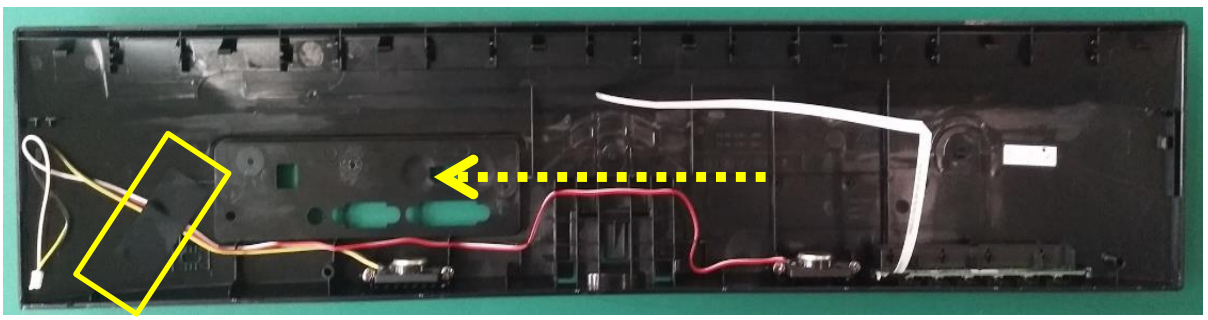
Step2. Assembly key board to rear cover



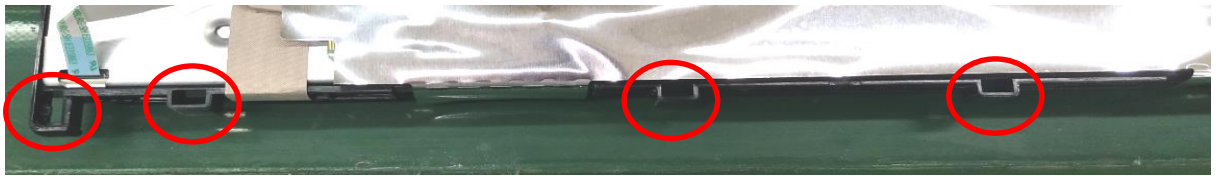
Step3. If with speaker model, assembly speaker in rear cover and lock screw to fix.



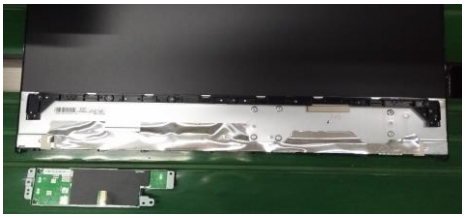
Step4. Tape speaker cable with acetate cloth tape (in yellow circle).



Step5. Assemble deco cover to panel.



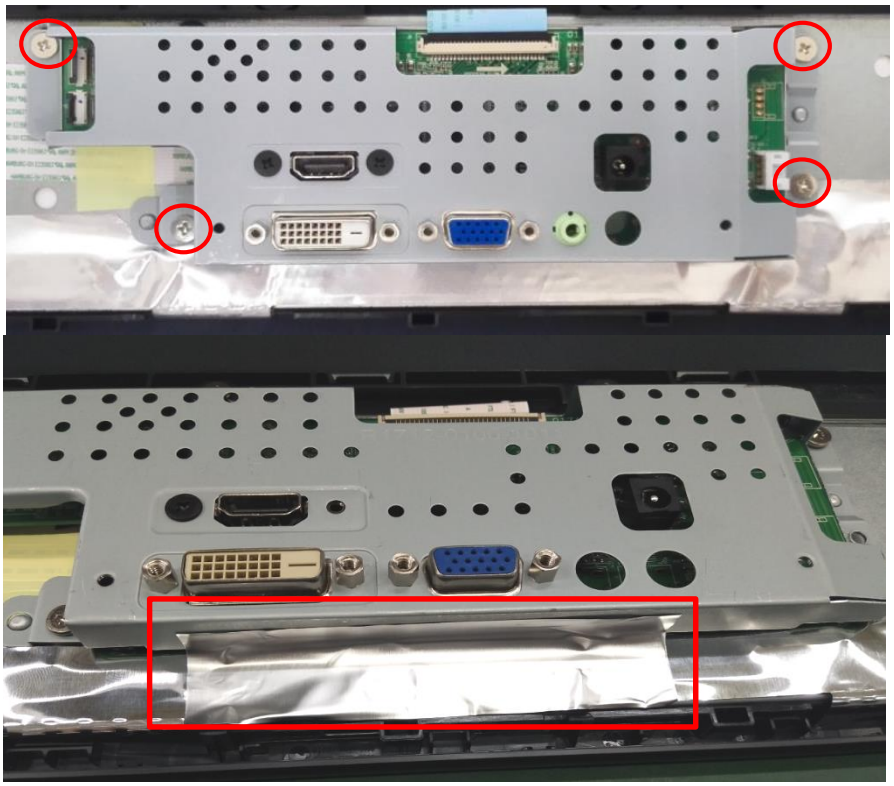
Step6. Assemble main board into shielding and put MB on panel side



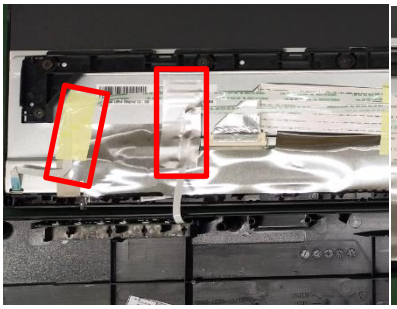
Step7. Assemble frame L&R and lock crews to fix

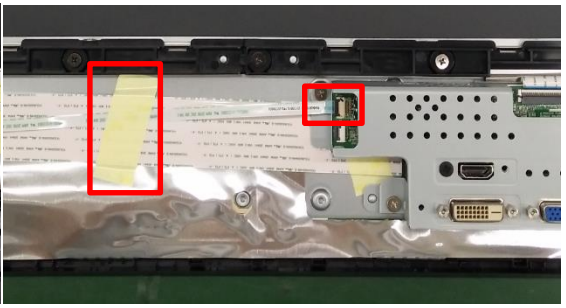
Step8. Insert 30pin LVDS to panel and MB

Step9. Lock crews to fix MB and use tape to tape cables

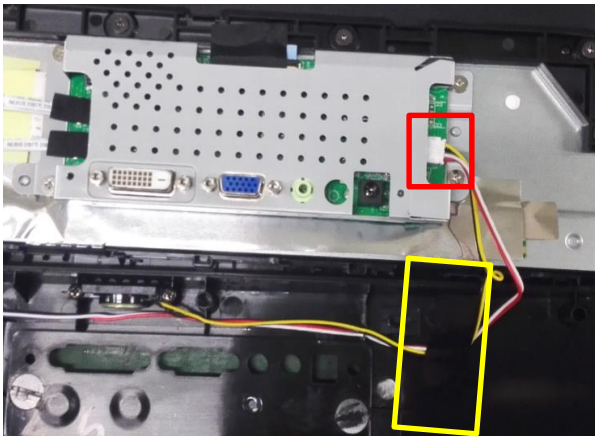


Step10. Insert 10pin FFC to panel and MB, use yellow and AL tape to fix.

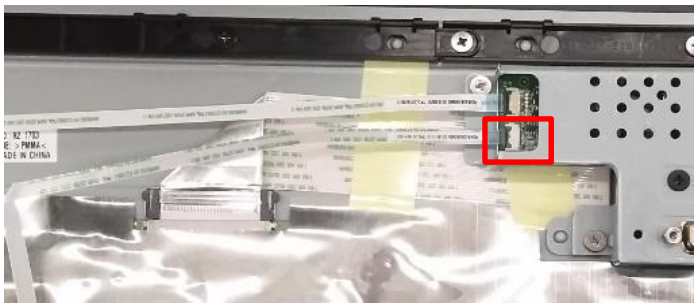




Step11. Insert speaker cable to main board , use acetate cloth tape to fix.



Step12. Insert 8pin FFC to MB .



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

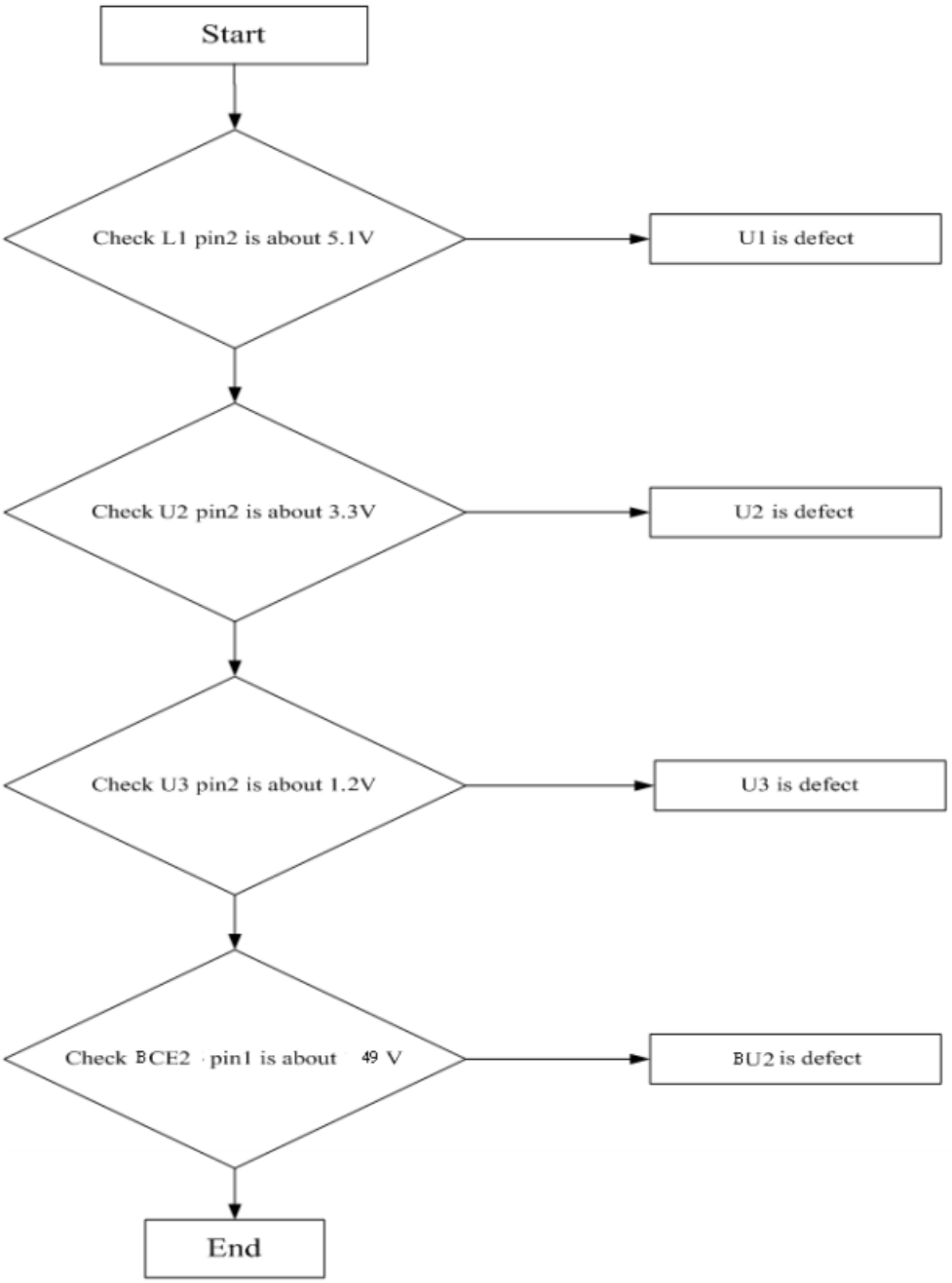
Step14. Lock rear cover screw (in red circle)

5. Troubleshooting

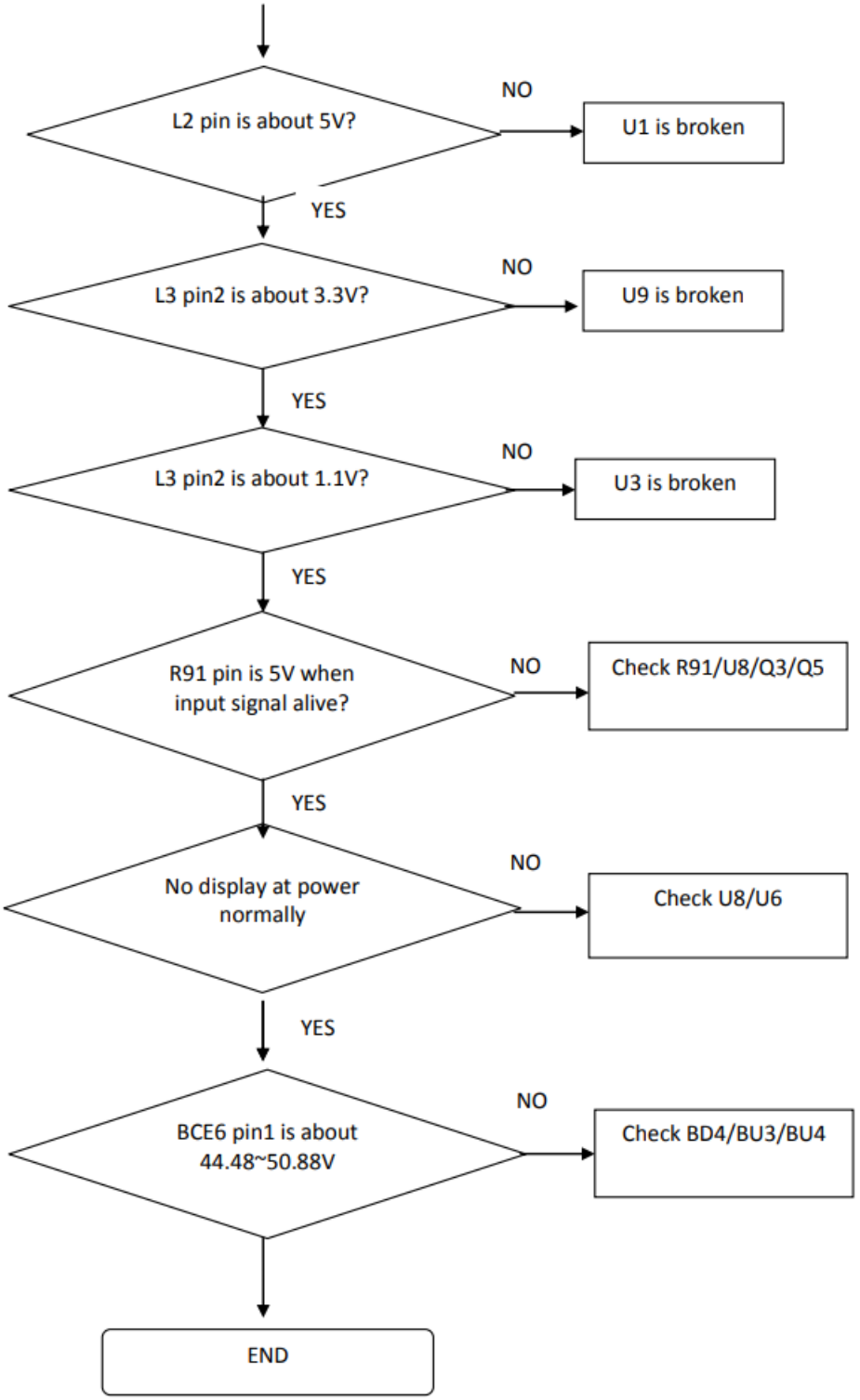
5.1 Test flow for abnormal machine:

5.2 LED backlight debug flow(bid/bmid):

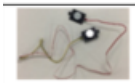
5.3 Power debug flow(bid/bmid):



5.4 Main board debug flow(bd/bmd)



6. FRU (Field Replaceable Unit) List

Parts Photo	SPL_Category	Acer PN	Raken PN	ODM Description
	ADAPTER	25.T60M5.002	R030070132885	A-D adapter 2.1 A 19V ADS-40SI-19-3 19040E(VI) _ ACER G257HU
	BOARD	55.T60M5.011	R352720720150	MAIN BD ASS'Y R271 bmix freesync+VRB ES8.0BA+ES7.0BLU no ES logo
	BOARD	55.TERM5.002	R352701020156	DISPLAY BD ASS'Y(Aopen ML2)
	CABLE	50.T60M5.001	R046428080820	WH FFC 8P(0.5mm)320mm(1FOLD)60V G/F (A8+A5)LF DISPLAY BD ->MB
	CABLE	50.T60M5.008	R046228100751	WH FFC 10P(0.5mm)415mm(3FOLD PRO)60V G/F (A8 A12/V-CUT)LF
	CABLE	50.T60M5.012	R046728302010	WH FFC 30P(1.0mm)300mm(2FOLD)60V G/F W/CONN (A5+BC)+AL(AA)LF IP
	FAN SINK/SPEAK/EARPHONE/ RTC	23.T6LM5.001	R033502040230	SPK 2W 4ohm 470/230mm (P2822KMG04E-1-9JB) VECO for R271 LF
	LCD(white)	KL.27002.021	R352702720395	LCM ASS'Y ACER HA270 (LM270WF5-RSAWB, ACER White ES8.0)