

LIFECYCLE EXTENSION GUIDE



acer

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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.

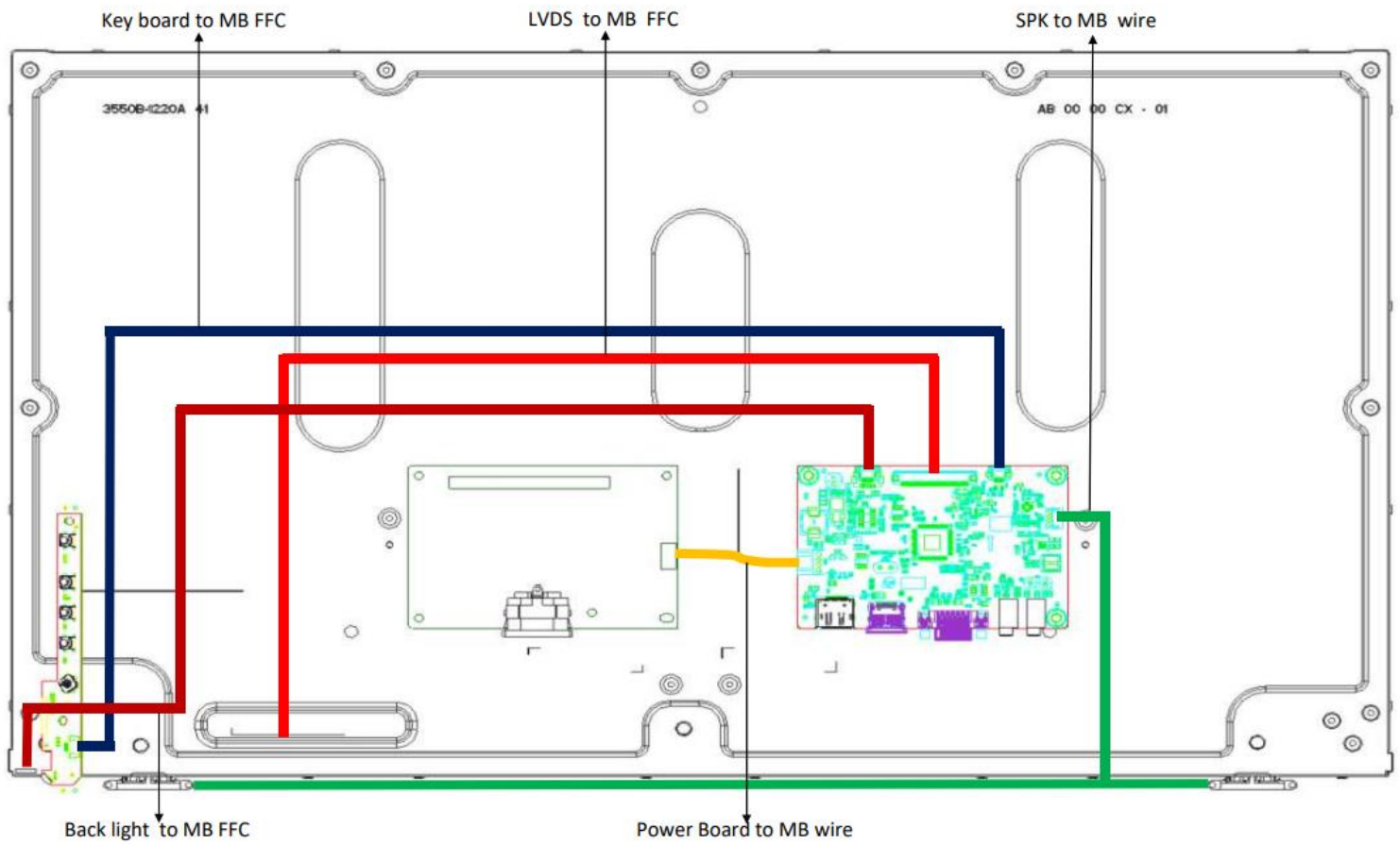
NOTICE:

- ! 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

| <p>* The part should conformed Restriction of the use of certain hazardous substances in electrical and electronic equipment(ROHS),directive 2002/95/EC of the European parliament of the council of the council of January 2003</p> | | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">VER.</th> <th style="width: 10%;">DATE</th> <th style="width: 20%;">SIGNATURE</th> <th style="width: 60%;">CHANGE CONTENTS</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> | | VER. | DATE | SIGNATURE | CHANGE CONTENTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| VER. | DATE | SIGNATURE | CHANGE CONTENTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| B | | | | | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | | | | | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | | | | | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>* The Information contained herein is the exclusive property of Lehu and prior written permission of Lehu * Please refer to 3D file when dimensions can not found in drawing</p> | | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">19</td> <td style="width: 15%;">R1720-0003-0630</td> <td style="width: 50%;">MAC. SCREW-M6 M3.0*6.0L, BLK-ZINNOHEAD (DIAMETER 7.0)</td> <td style="width: 10%;">2</td> </tr> <tr> <td>18</td> <td>R2801-0568-0090</td> <td>BASE (ABS 94-HB/VG240Y)</td> <td>1</td> </tr> <tr> <td>17</td> <td>R2801-0568-0080</td> <td>BASE_NECK (ABS 94-HB/BK120001XVG240Y)</td> <td>1</td> </tr> <tr> <td>16</td> <td>R1701-0426-1010</td> <td>NAVI KEY(ABS 94-HB/J341785XVG247Y)</td> <td>1</td> </tr> <tr> <td>15</td> <td>R1801-0209-0090</td> <td>REAR COVER(ABS 94-HB/BK120001XVG240Y Impx)ASSY</td> <td>1</td> </tr> <tr> <td>14</td> <td>R3524-0062-0156</td> <td>KEY BD ASS'Y (B247Y/V247Y)</td> <td>1</td> </tr> <tr> <td>13</td> <td>1721-0003-0850</td> <td>MAC. TAP. SCREW-TB B3.0*6.0L, BLK-N</td> <td>3</td> </tr> <tr> <td>12</td> <td>1720-0003-0850</td> <td>MAC. SCREW-M6 M3.0*6.0L, BLK-N</td> <td>1</td> </tr> <tr> <td>11</td> <td>R1713-0500-9030</td> <td>MAIN SHELLING (SECC 0.5TXV247Y Impx)</td> <td>1</td> </tr> <tr> <td>10</td> <td>R1947-2400-0560</td> <td>MYLAR_BLACK(SD*SB 0.3TBV247</td> <td>1</td> </tr> <tr> <td>9</td> <td>R0500-0506-2180</td> <td>A-D PSU 1.3 A 19V ADD-25W1 19(x) _ ACER V228HDL</td> <td>1</td> </tr> <tr> <td>8</td> <td>R3524-3352-0150</td> <td>MAIN BR ASS'Y VG240Y Impx CRT 2525A/E/S7.0</td> <td>1</td> </tr> <tr> <td>7</td> <td>R0467-2808-1071</td> <td>WH FFC 8P(0.5mm) 740mm(3FDLHPRD)60V(GAB+ADLF</td> <td>1</td> </tr> <tr> <td>6</td> <td>R0467-2830-1031</td> <td>WH FFC 8P(0.5mm) 740mm(3FDLHPRD)60V(GAB+ADLF</td> <td>1</td> </tr> <tr> <td>5</td> <td>1720-0003-0450</td> <td>MAC. SCREW-M6 M3.0*4.0L, BLK-N</td> <td>7</td> </tr> <tr> <td>4</td> <td>R1720-0003-0450</td> <td>MAC. SCREW-M6 M3.0*4.0L, BLK-N</td> <td>7</td> </tr> <tr> <td>3</td> <td>LMC28WF2-R3AN3</td> <td>LMC28WF2-R3AN3</td> <td>11</td> </tr> <tr> <td>2</td> <td>R0335-0004-1030</td> <td>SPK 2W 4ohm 470/230mm (P2822M0604E-1-5J)D VECO For R271 LF</td> <td>1</td> </tr> <tr> <td>1</td> <td>R1801-0004-6010</td> <td>MID FRAME(ABS 94-HB/BK120001XVG247Y)ASSY</td> <td>1</td> </tr> <tr> <td>ITEM</td> <td>PART NO</td> <td>Description</td> <td>1</td> </tr> </table> | | 19 | R1720-0003-0630 | MAC. SCREW-M6 M3.0*6.0L, BLK-ZINNOHEAD (DIAMETER 7.0) | 2 | 18 | R2801-0568-0090 | BASE (ABS 94-HB/VG240Y) | 1 | 17 | R2801-0568-0080 | BASE_NECK (ABS 94-HB/BK120001XVG240Y) | 1 | 16 | R1701-0426-1010 | NAVI KEY(ABS 94-HB/J341785XVG247Y) | 1 | 15 | R1801-0209-0090 | REAR COVER(ABS 94-HB/BK120001XVG240Y Impx)ASSY | 1 | 14 | R3524-0062-0156 | KEY BD ASS'Y (B247Y/V247Y) | 1 | 13 | 1721-0003-0850 | MAC. TAP. SCREW-TB B3.0*6.0L, BLK-N | 3 | 12 | 1720-0003-0850 | MAC. SCREW-M6 M3.0*6.0L, BLK-N | 1 | 11 | R1713-0500-9030 | MAIN SHELLING (SECC 0.5TXV247Y Impx) | 1 | 10 | R1947-2400-0560 | MYLAR_BLACK(SD*SB 0.3TBV247 | 1 | 9 | R0500-0506-2180 | A-D PSU 1.3 A 19V ADD-25W1 19(x) _ ACER V228HDL | 1 | 8 | R3524-3352-0150 | MAIN BR ASS'Y VG240Y Impx CRT 2525A/E/S7.0 | 1 | 7 | R0467-2808-1071 | WH FFC 8P(0.5mm) 740mm(3FDLHPRD)60V(GAB+ADLF | 1 | 6 | R0467-2830-1031 | WH FFC 8P(0.5mm) 740mm(3FDLHPRD)60V(GAB+ADLF | 1 | 5 | 1720-0003-0450 | MAC. SCREW-M6 M3.0*4.0L, BLK-N | 7 | 4 | R1720-0003-0450 | MAC. SCREW-M6 M3.0*4.0L, BLK-N | 7 | 3 | LMC28WF2-R3AN3 | LMC28WF2-R3AN3 | 11 | 2 | R0335-0004-1030 | SPK 2W 4ohm 470/230mm (P2822M0604E-1-5J)D VECO For R271 LF | 1 | 1 | R1801-0004-6010 | MID FRAME(ABS 94-HB/BK120001XVG247Y)ASSY | 1 | ITEM | PART NO | Description | 1 |
| 19 | R1720-0003-0630 | MAC. SCREW-M6 M3.0*6.0L, BLK-ZINNOHEAD (DIAMETER 7.0) | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | R2801-0568-0090 | BASE (ABS 94-HB/VG240Y) | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | R2801-0568-0080 | BASE_NECK (ABS 94-HB/BK120001XVG240Y) | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | R1701-0426-1010 | NAVI KEY(ABS 94-HB/J341785XVG247Y) | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | R1801-0209-0090 | REAR COVER(ABS 94-HB/BK120001XVG240Y Impx)ASSY | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | R3524-0062-0156 | KEY BD ASS'Y (B247Y/V247Y) | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 1721-0003-0850 | MAC. TAP. SCREW-TB B3.0*6.0L, BLK-N | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 1720-0003-0850 | MAC. SCREW-M6 M3.0*6.0L, BLK-N | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | R1713-0500-9030 | MAIN SHELLING (SECC 0.5TXV247Y Impx) | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | R1947-2400-0560 | MYLAR_BLACK(SD*SB 0.3TBV247 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | R0500-0506-2180 | A-D PSU 1.3 A 19V ADD-25W1 19(x) _ ACER V228HDL | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | R3524-3352-0150 | MAIN BR ASS'Y VG240Y Impx CRT 2525A/E/S7.0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | R0467-2808-1071 | WH FFC 8P(0.5mm) 740mm(3FDLHPRD)60V(GAB+ADLF | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | R0467-2830-1031 | WH FFC 8P(0.5mm) 740mm(3FDLHPRD)60V(GAB+ADLF | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 1720-0003-0450 | MAC. SCREW-M6 M3.0*4.0L, BLK-N | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | R1720-0003-0450 | MAC. SCREW-M6 M3.0*4.0L, BLK-N | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | LMC28WF2-R3AN3 | LMC28WF2-R3AN3 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | R0335-0004-1030 | SPK 2W 4ohm 470/230mm (P2822M0604E-1-5J)D VECO For R271 LF | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | R1801-0004-6010 | MID FRAME(ABS 94-HB/BK120001XVG247Y)ASSY | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM | PART NO | Description | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>This drawing is property of Lehu Technology Ltd Unauthorized reproduction in whole or in part is prohibited by law.</p> | | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">UNIT</th> <th style="width: 10%;">SCALE</th> <th style="width: 10%;">NAME</th> <th style="width: 10%;">DATE</th> <th style="width: 10%;">PAGE</th> <th style="width: 10%;">DESCRIPTION</th> </tr> <tr> <td>MM</td> <td>1/1</td> <td>Kevin</td> <td>2018.08.20</td> <td>1 OF 1</td> <td>VG240Y_EXP_DRAWING</td> </tr> <tr> <td>CHK</td> <td></td> <td>Heaven</td> <td>2018.08.20</td> <td></td> <td></td> </tr> <tr> <td>APPD</td> <td></td> <td>Donald</td> <td>2018.08.20</td> <td></td> <td></td> </tr> </table> | | UNIT | SCALE | NAME | DATE | PAGE | DESCRIPTION | MM | 1/1 | Kevin | 2018.08.20 | 1 OF 1 | VG240Y_EXP_DRAWING | CHK | | Heaven | 2018.08.20 | | | APPD | | Donald | 2018.08.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNIT | SCALE | NAME | DATE | PAGE | DESCRIPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MM | 1/1 | Kevin | 2018.08.20 | 1 OF 1 | VG240Y_EXP_DRAWING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHK | | Heaven | 2018.08.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APPD | | Donald | 2018.08.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 & neck assembly out



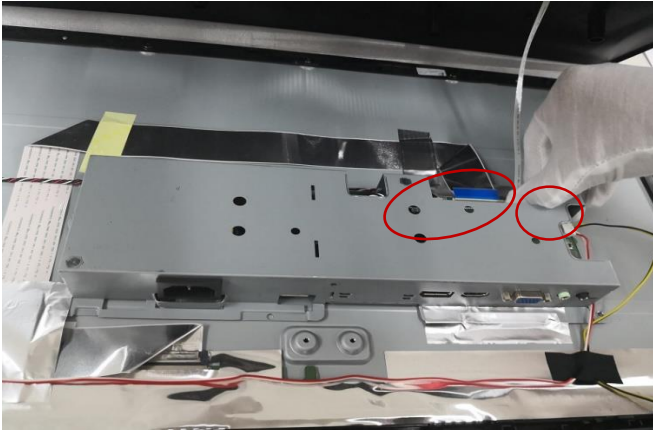
Step.2 Unscrew four screws



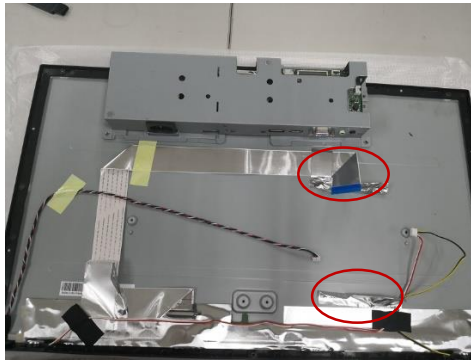
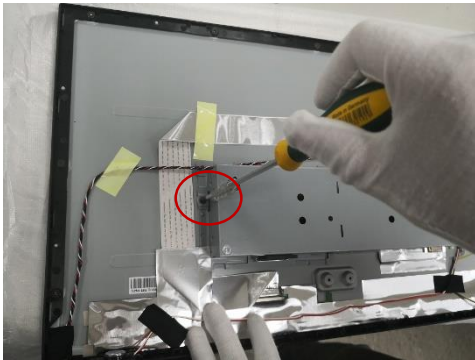
Step.3 Separate hooks between MID_FRAME and R/C



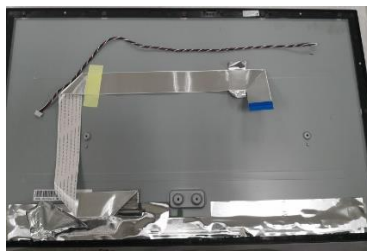
Step 4. Pull up the Rear Cover and pull out all connectors



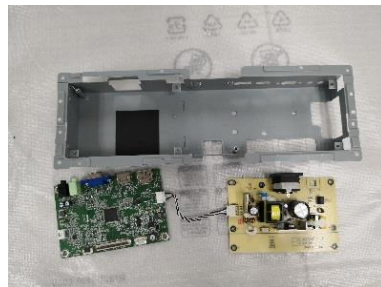
Step.5 Unscrew screws on main shielding and disassemble AL tape



Step.6 separate SPK 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.



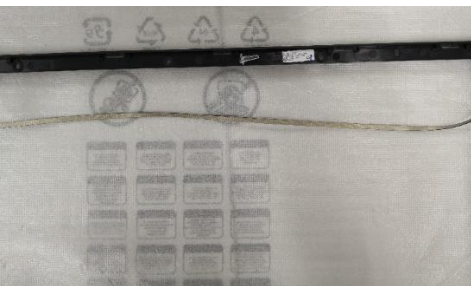
Step.8 Remove connector cable and separate main board and power board, separate mylar and shielding



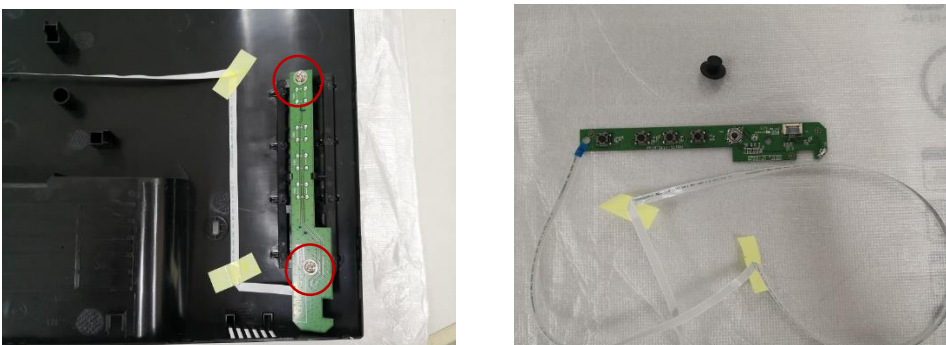
Step.9 Unscrew eleven screws and separate MID FRAME and LCM



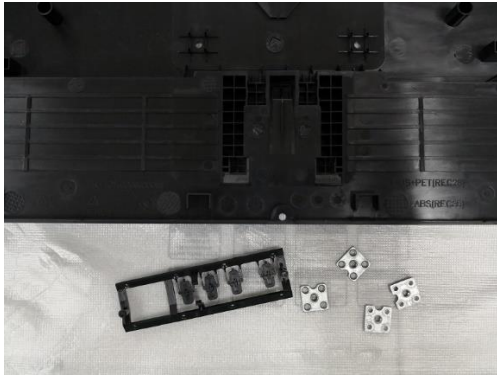
Step.10 Separate lens from MID frame



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



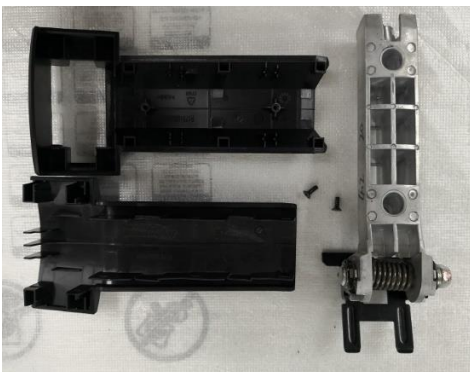
Step.13 Unscrew the screw and separate base & neck assembly



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

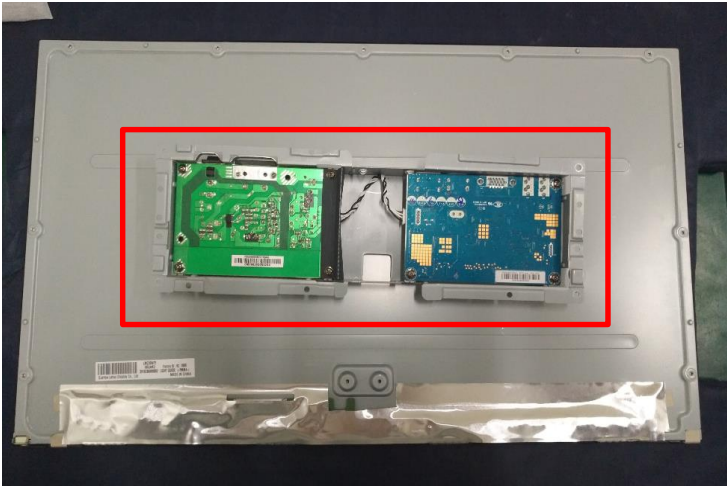


Step 15. Separate back cover from neck , unscrew two screws and separate front cover from hinge assy.

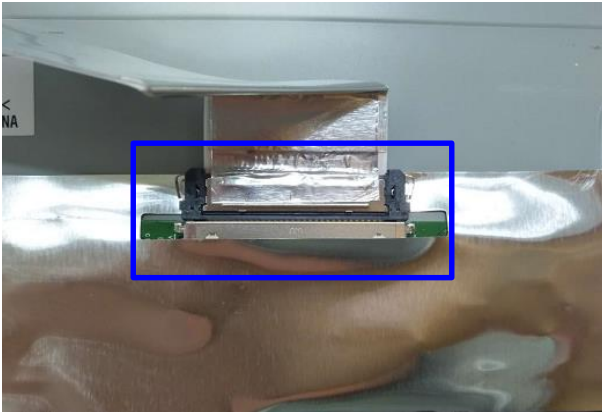


➤ Assembly Procedure

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



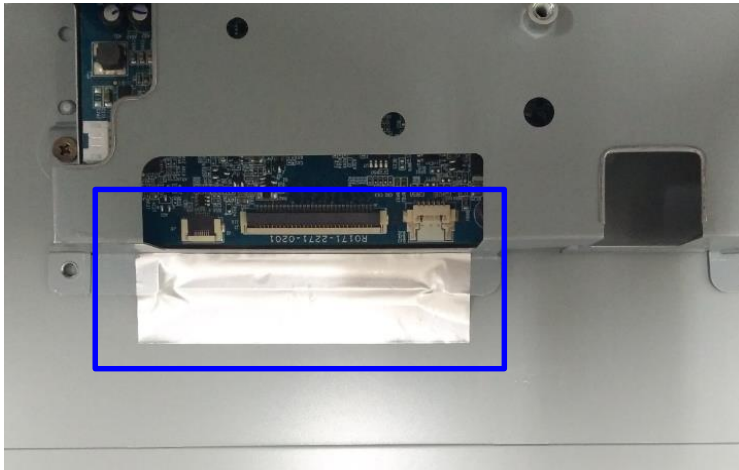
Step2. Insert 30 pin LVDS FFC to LCM, then use acetate cloth tape to tape FFC.



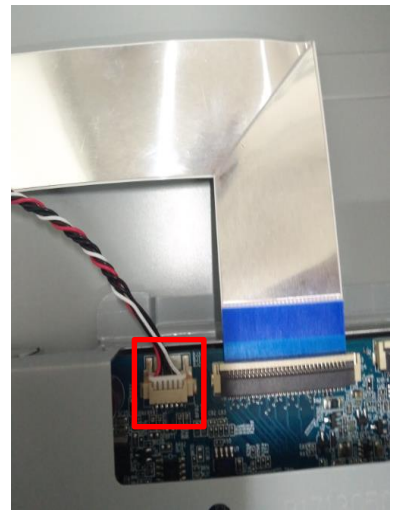
Step3. Lock the shielding on panel with screw. (in red circle)



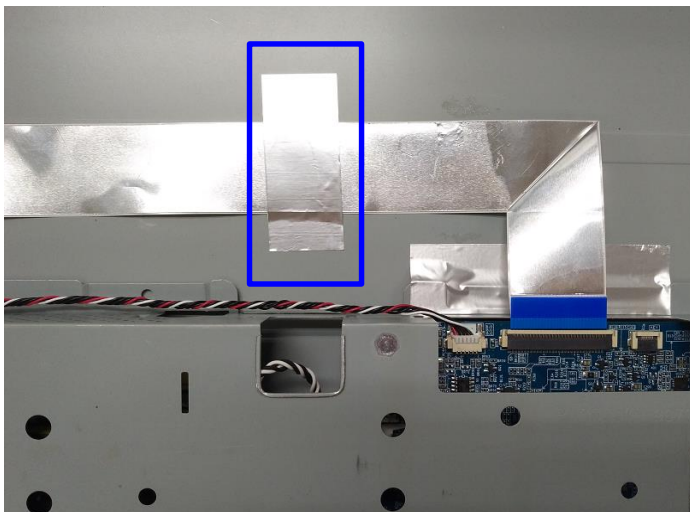
Step4. Use AI tape to fix shielding (tape in blue circle).



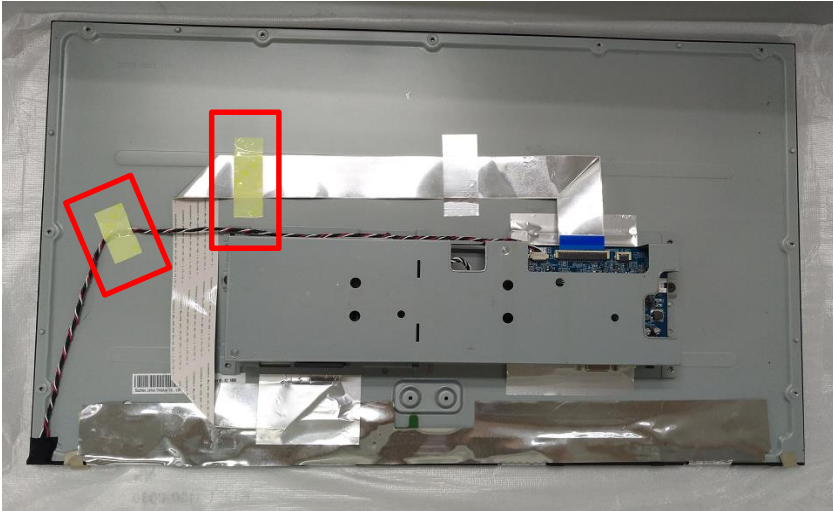
Step5. Insert 6 pin back light FFC to panel and main board, use yellow tape to fix. (Tape in red circle).



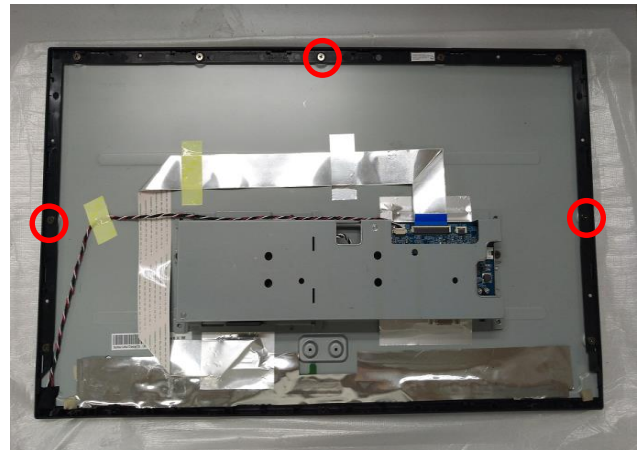
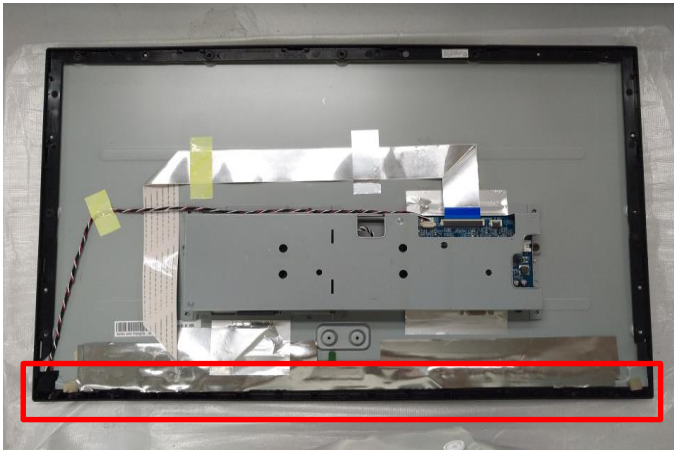
Step6. Insert 10 pin back light FFC and 30 pin LVDS FFC to main board. Use yellow tape to fix.



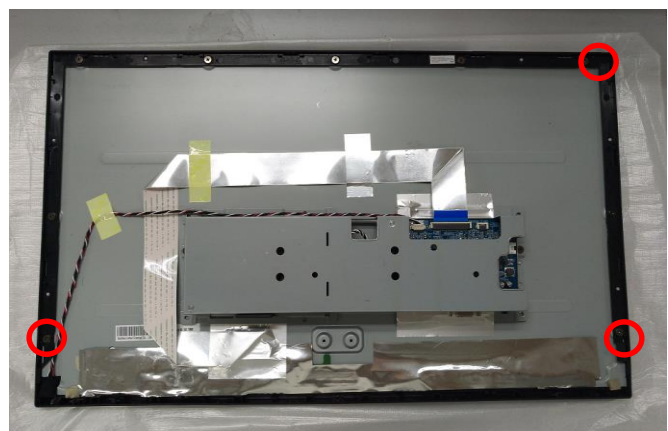
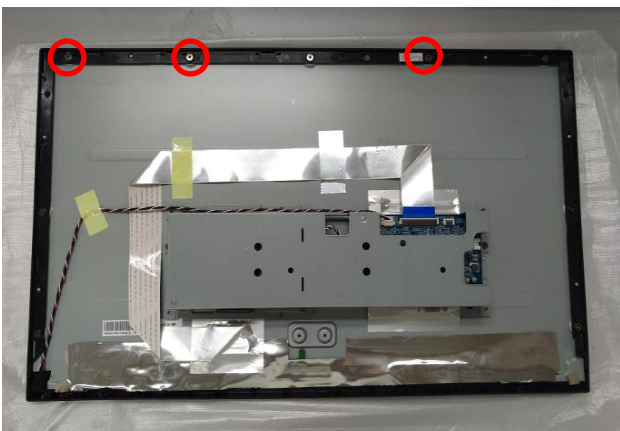
Step7. Tape AL tape to fix FFC. (Tape in red circle).



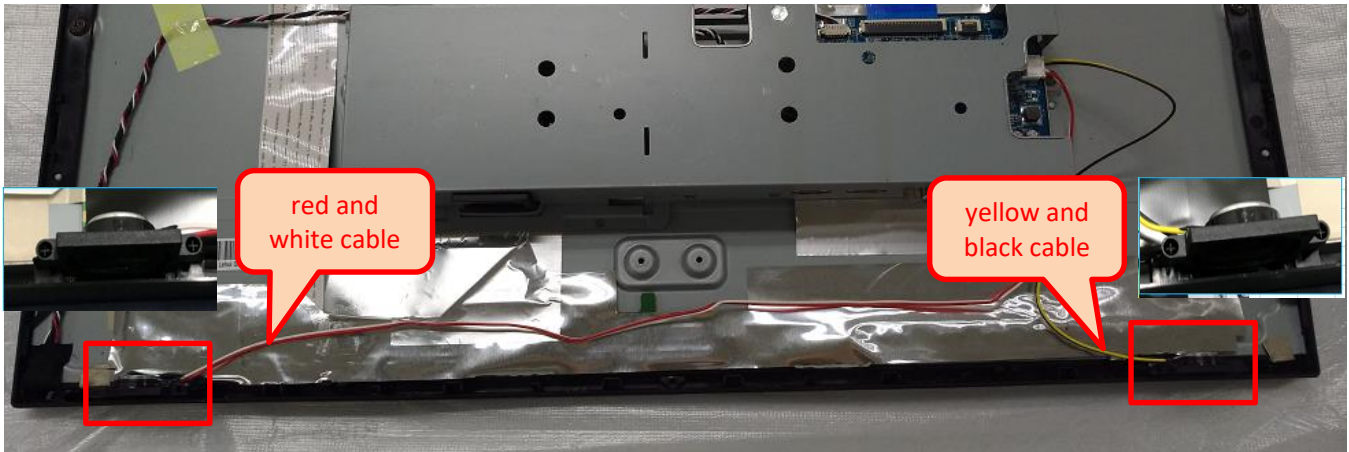
Step8. Assembly middle frame with LCM and fix screw (in red circle)



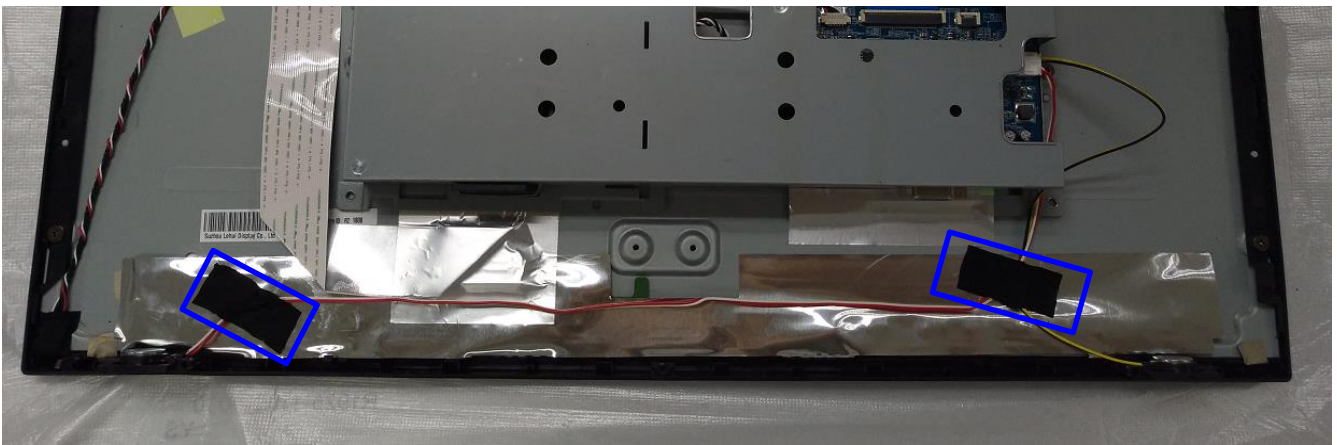
Step9. Lock middle frame screw (in red circle)



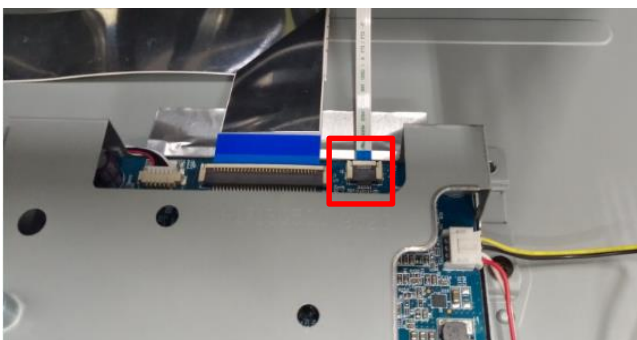
Step10. If with speaker model, assembly speaker on middle frame, and assembly speaker cable on main board. (red and white cable is on left side, yellow and black is on right side.)



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



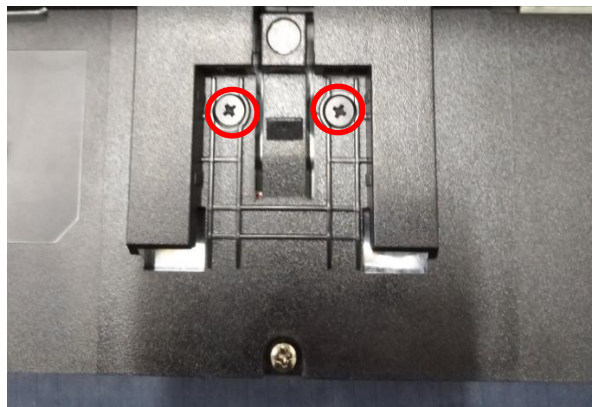
Step12. Insert key board FFC on main board



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

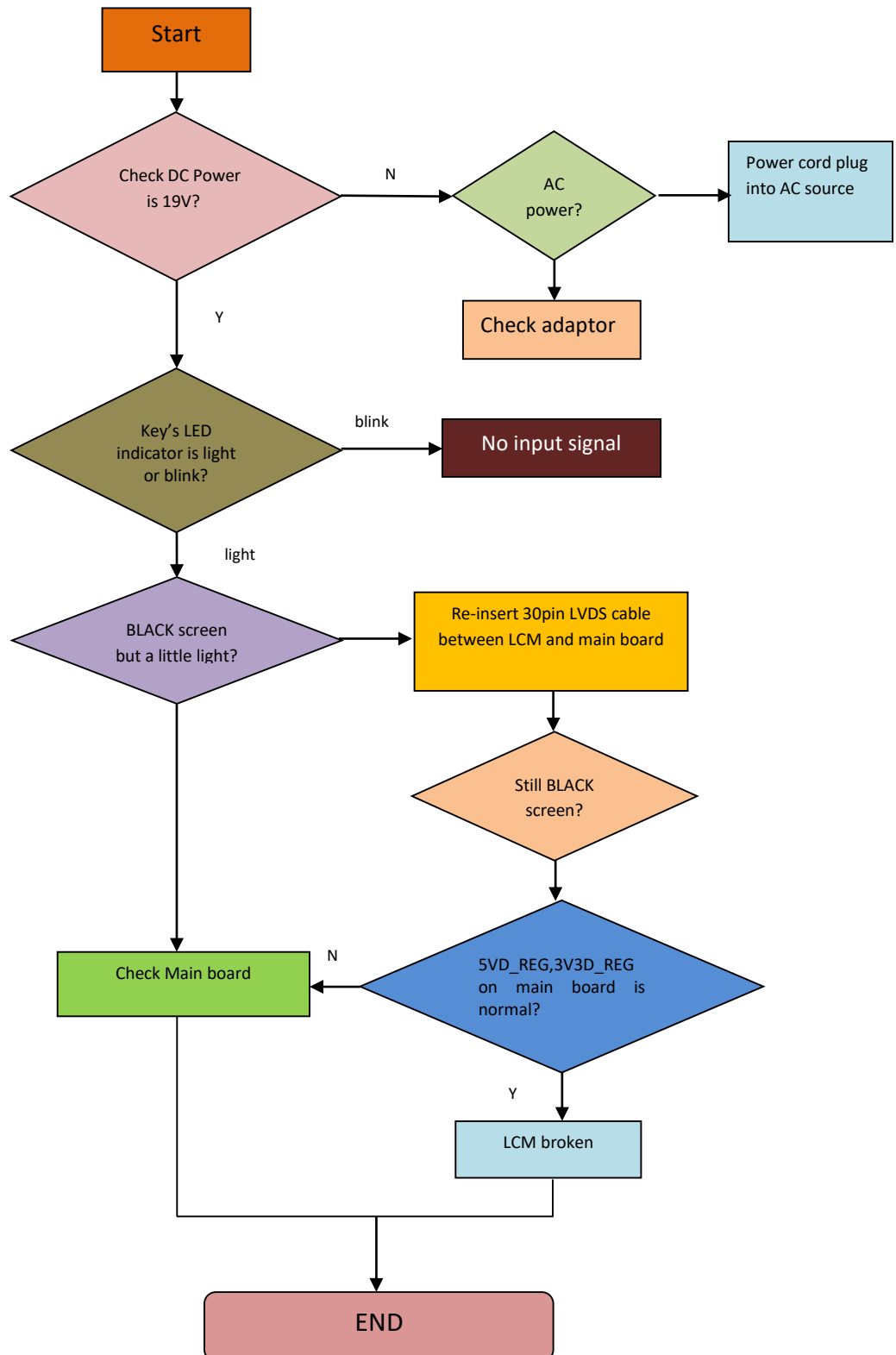


Step14. Lock the screw on rear cover (in red circle).

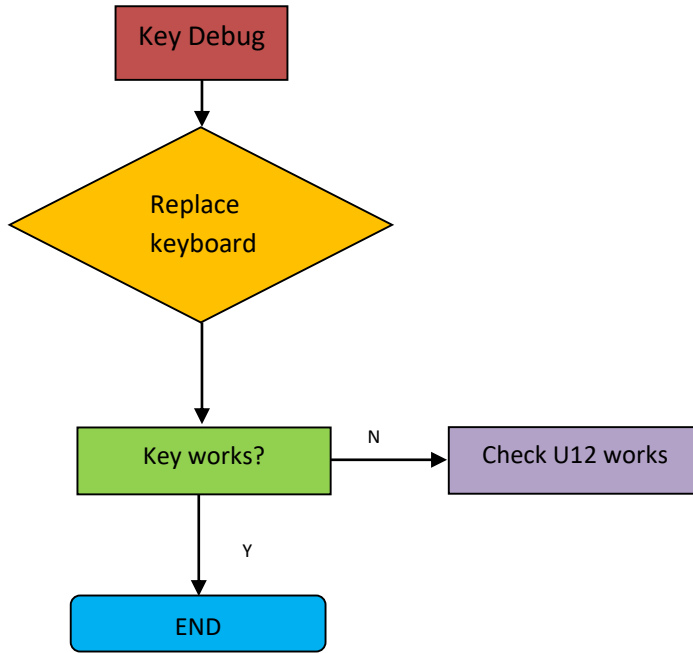


5. Troubleshooting

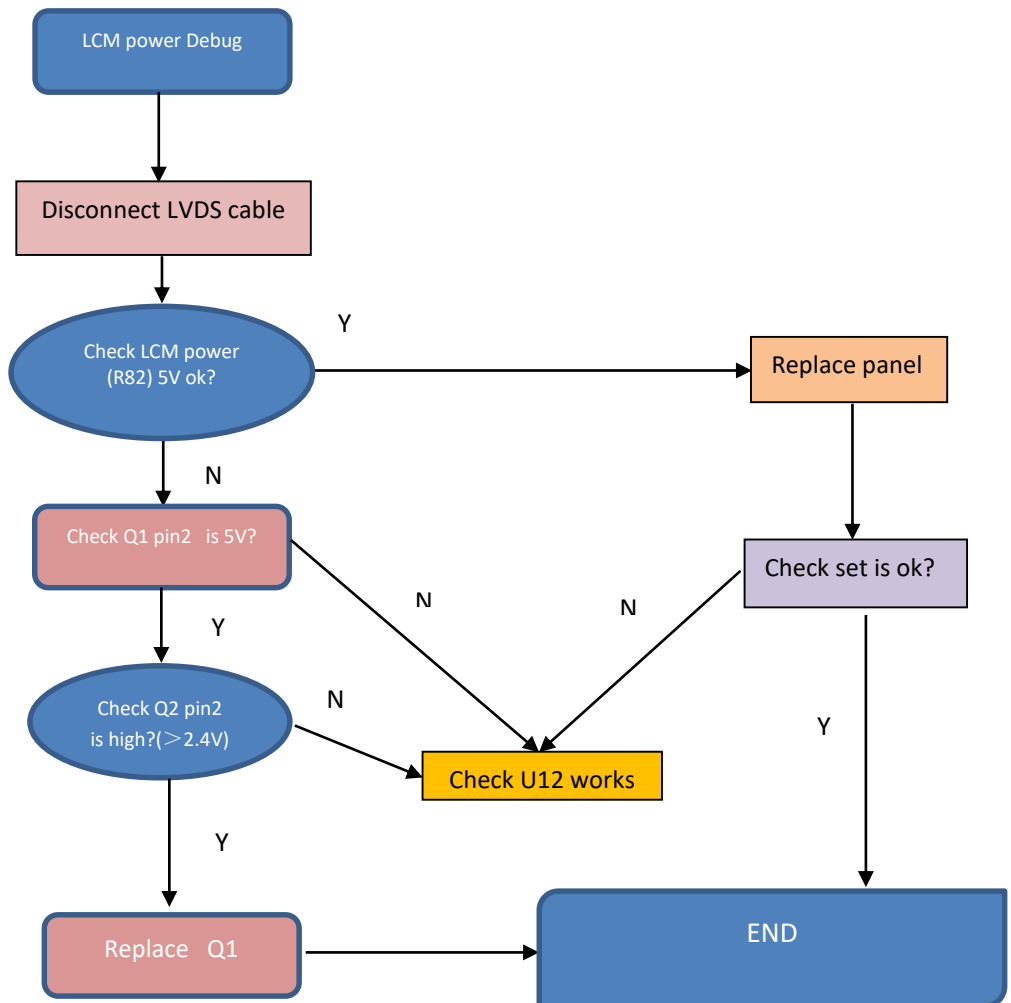
5.1 Test flow for abnormal machine:



5.2 key debug flow:







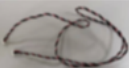




5.3 Panel debug flow (bmiix&bii):



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 |
|  | BOARD | 55.TFSM5.002 | R352432620150 | MAIN BD ASS'Y VG240Y bmiix (RTD 2522AR)ES7.0 |
|  | 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/EARPHONE/RTC | 23.T6LM5.001 | R033502040230 | SPK 2W 4ohm 470/230mm (P2822KMG04E-1-9JB) VECO for R271 LF |
|  | LCD | KL.23802.010 | R352400520395 | LM238WF2-RSAN3 Acer |