Recycle Disassemble Instruction

(Dismantled Information)

Requirements according to ANNEX VII of DIRECTIVE 2012/19/EU on waste electrical and electronic equipment (WEEE)

Materials and components with hazardous content

LCDs may contain hazardous substances like Pb and BFRs which are covered by exemptions under the RoHS directive. However, the majority is present in the printed circuit boards assembly. In order to reduce emissions as much as possible, a complete disposal of the old appliance is required. This treatment may only be performed in authorized handling plants.

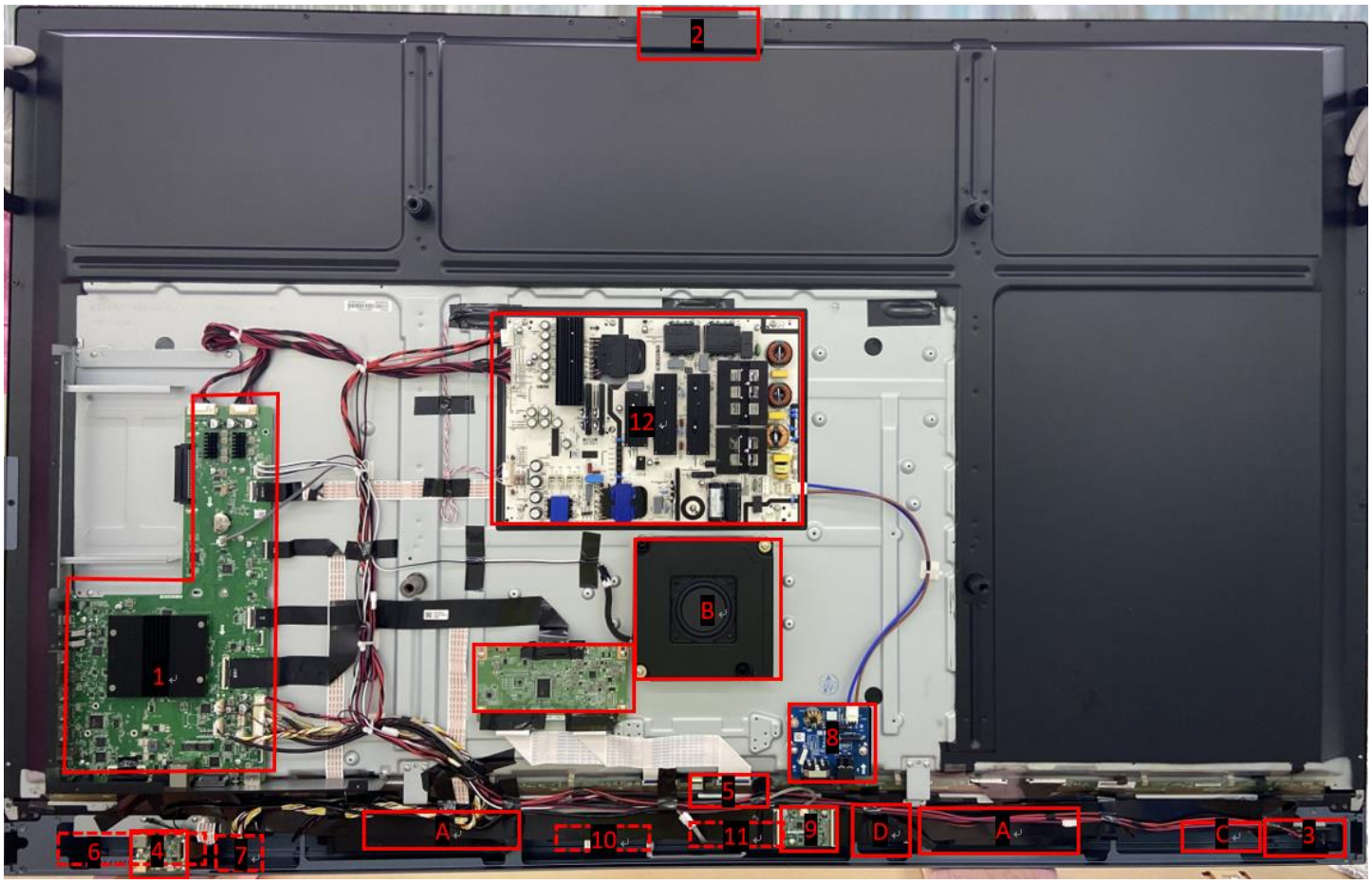
Product Name: Interactive flat panel

Model No.: RP6504

Disassembly Tools

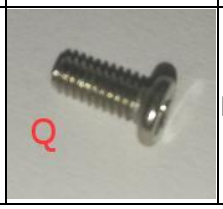
Tool	picture
Philips Screwdriver for M3 screw	
nosed pliers	
Diagonal Cutting Pliers	
Slotted screwdriver	
Six Point Sockets	
Philips Screwdriver for M2.5 screw	
knife	

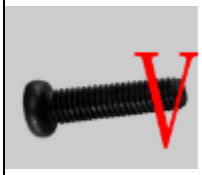
Disassembly process



NO	NAME	QTY	NO	NAME	QTY	NO	NAME	QTY
1	TV main board	1	6	Power key board	1	11	MIC borad B	1
2	MIC conncet borad	1	7	NFC board	1	12	Power board	1
3	I/O port board	1	8	AC board	1			
4	USB board	1	9	HDMI board	1			
5	PIR board	1	10	MIC borad A	1			
NO.	NAME	QTY	NO.	NAME	QTY	NO.	NAME	QTY
A	Speaker	2	C	Anion	1			
B	Woofer	1	D	Air condition	1			

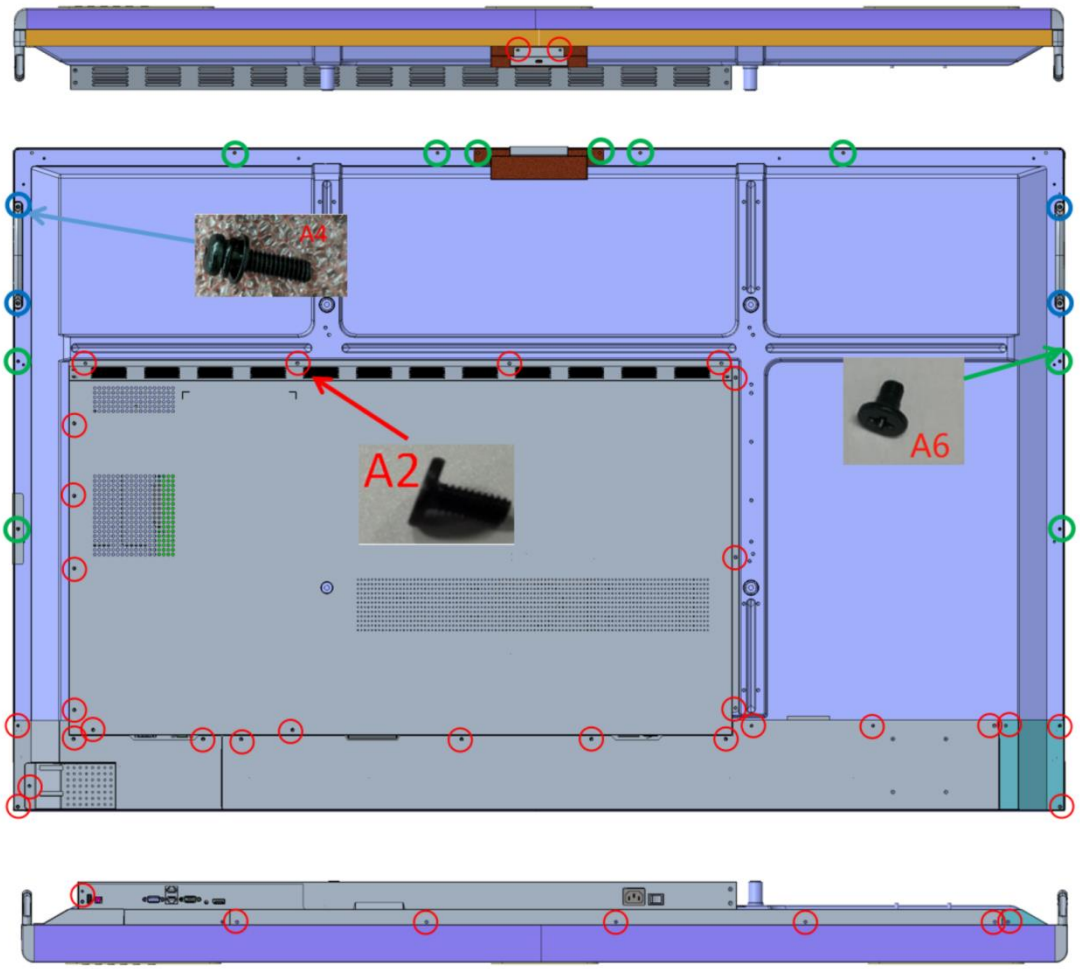
ITEM	Screw Image	NAME	Specification
A		Phillips Countersunk Head Screw	KM3×8mm-Black Nickel plated
B		Phillips Countersunk Head Screw	CM4×6mm-Black Nickel plated
C		Phillips Countersunk Head Screw	KM3×5mm-Black Nickel plated
D		Phillips Truss Head Screw	TM3×6mm-Nickel plated
E		Phillips Truss Head Screw	TM3×6mm-Black Nickel plated
F		Phillips Truss Head Screw	TM3×4mm-Silver Nickel plated
G		Phillips Truss Head Screw	TM3×4mm-Black Nickel plated
H		Phillips Truss Head Screw	TM4×8mm-Black Nickel plated

I		Phillips Pan Head Screw	PM4x8mm-with external tooth washer - Nickel plated
J		Phillips Pan Head Screw	PM4×14mm-with external tooth washer -Black Nickel Plated
K		Phillips Pan Head Screw	PM5×6mm-Black oxidized
L		Phillips Pan Head Screw with Washer	PWM4.0×6mm-Nickel Plated
M		Phillips Flat Head Screw	CM3×6mm-Nickel Plated
N		Phillips Flat Head Screw	CM4×20mm-Black Nickel Plated
O		Phillips Countersunk Head Tapping Screw	KA3×10mm-Black Nickel Plated
P		Phillips Truss Head Tapping Screw	TB4×10mm-Black Nickel plated
Q		Phillips C Head Screw	CM2×5mm-Nickel plated

R		Phillips Flat Head Screw（Non-standard）	CM3×4mm-Nickel Plated（Non-standard）
S		Hand screw（Non-standard）	M3×11mm(L=28)-Black Nickel Plated
T		Hand screw（Non-standard）	M3×7.5mm(L=21.5)-Black Nickel Plated
U		Nut	M3×5.3mm-Nickel Plated
V		Phillips Pan Head Screw	PM5×20mm-Black Nickel plated
W		Phillips Truss Head Screw	TM3×8mm-Black Nickel plated
Y		Phillips Flat Head Screw	CM3×10mm-Silver Nickel plated
Z		Phillips Flat Head Screw	CM3×6mm-Black Nickel plated

Shell Disassemble

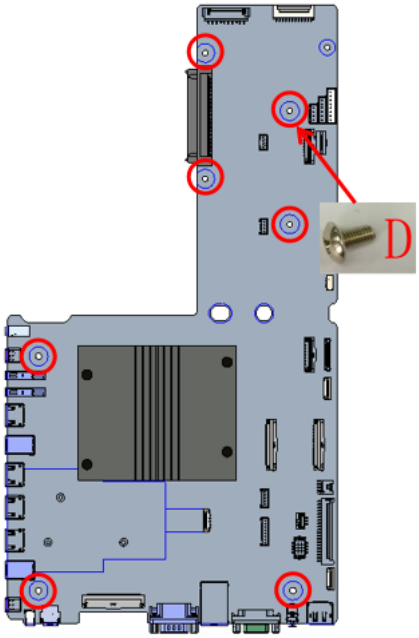
1. Screw Location



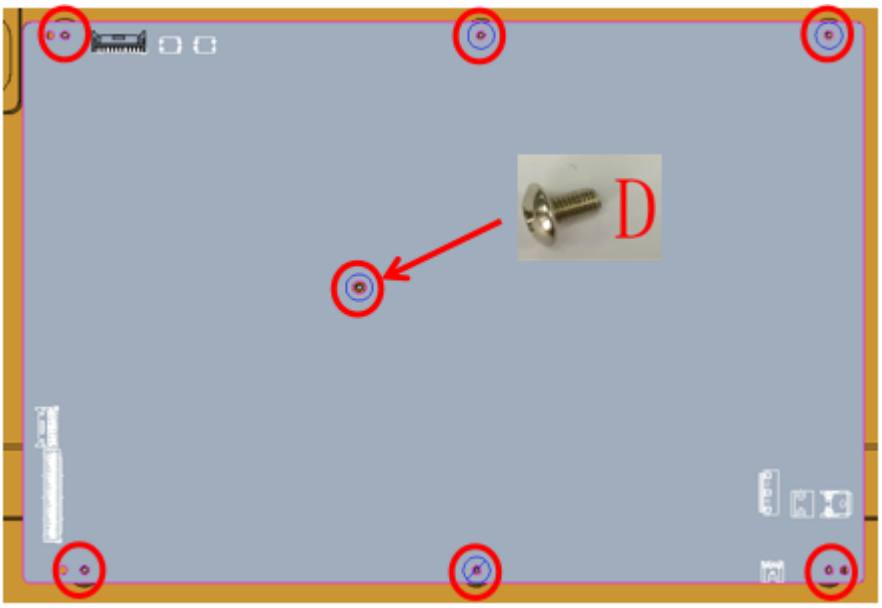
Circuit Boards Disassemble

1. Screw Location

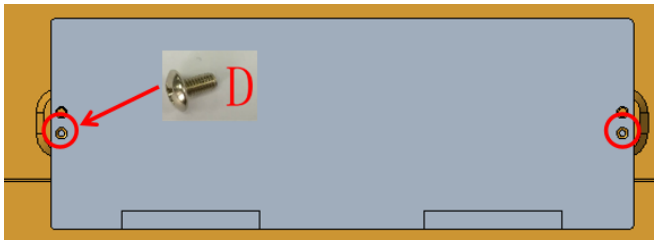
main board



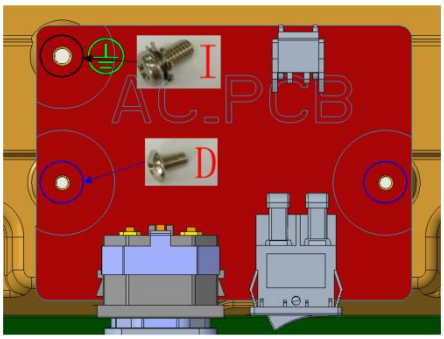
◆ **Power board**



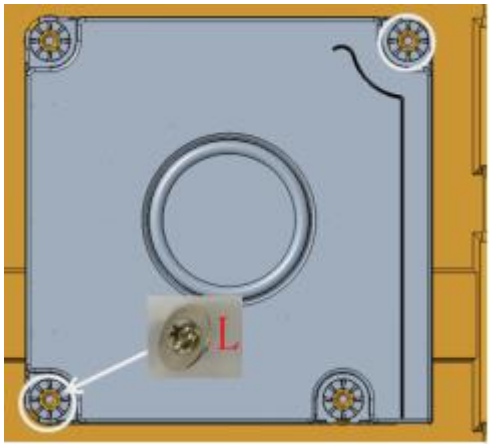
◆ **TCON board**



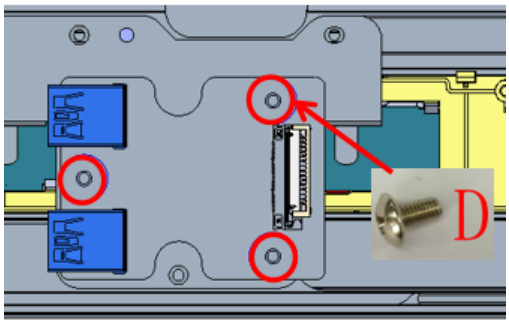
◆ **AC board**



◆ **Woofer**

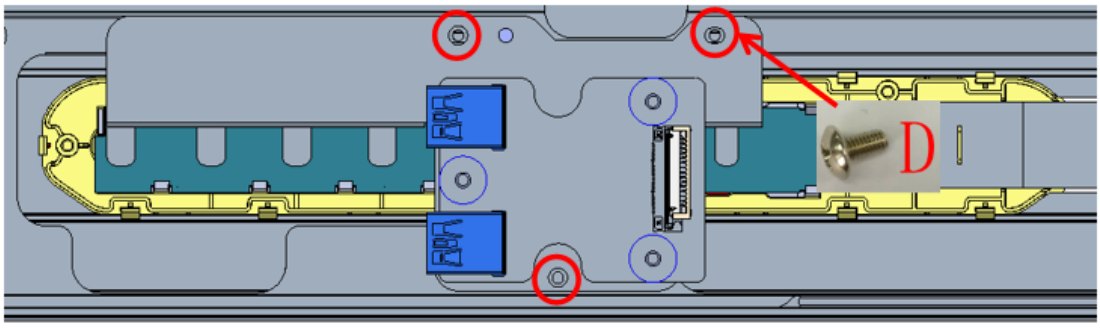


◆ **USB board**



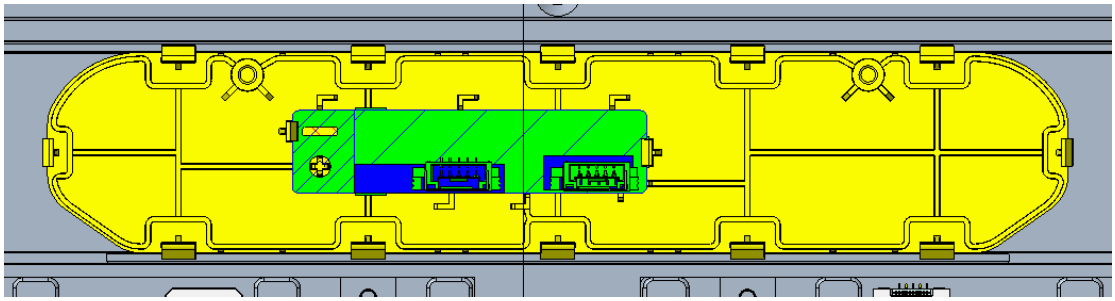
◆ **Power key board**

The USB board should be removed before removing the Power key board.



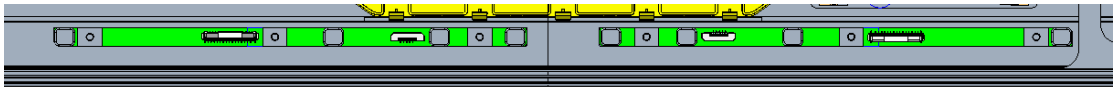
◆ **PIR board**

The locker surrounding should be removed and the PIR board needs to be taken out.

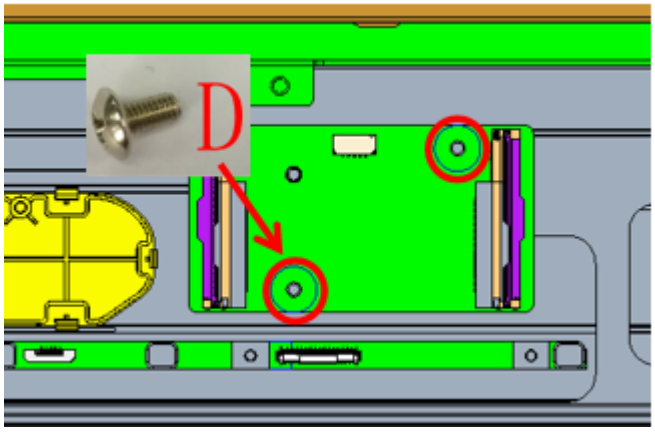


◆ **MIC borad A & B**

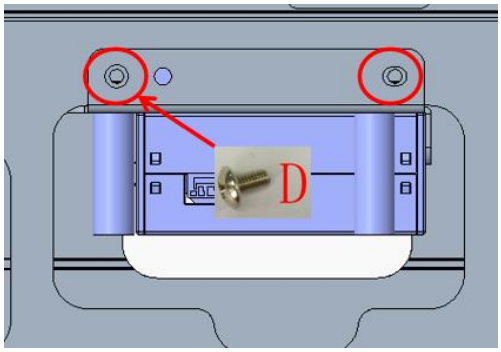
The MIC plate can be removed by pulling it off the double-sided tape.

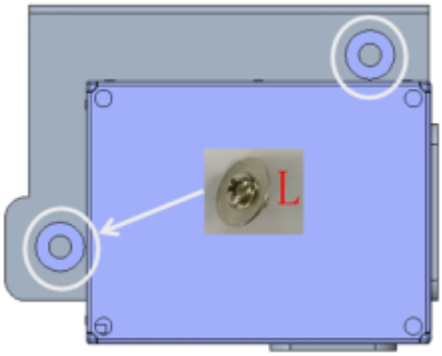


◆ **HDMI board**

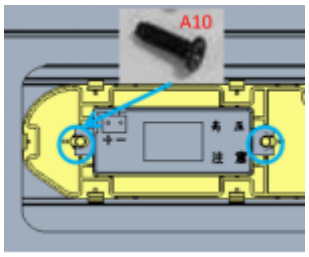


◆ **Air condition Sensor**



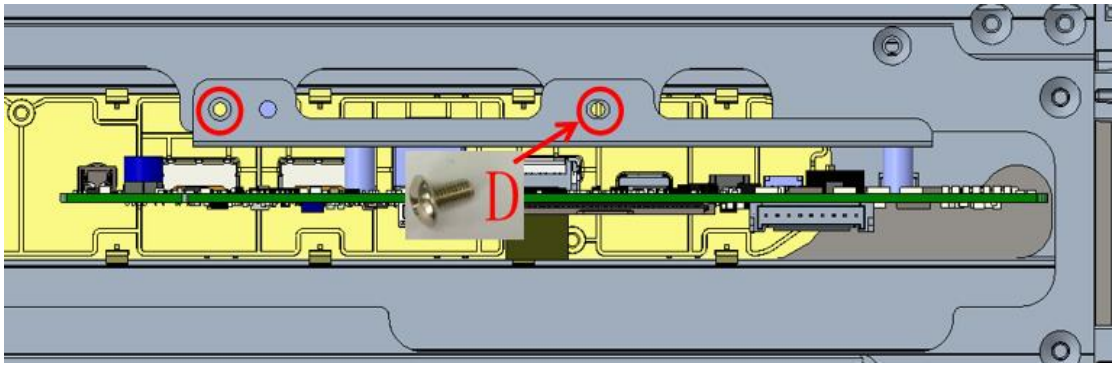


◆ **Anion Sensor**

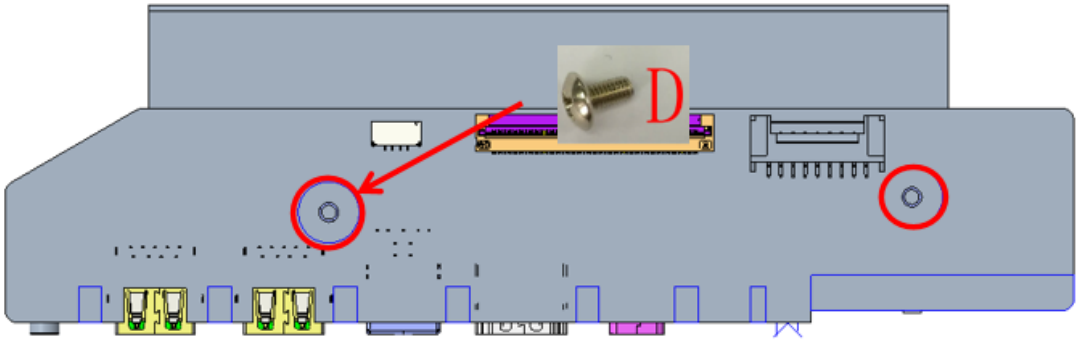


◆ **I/O port board**

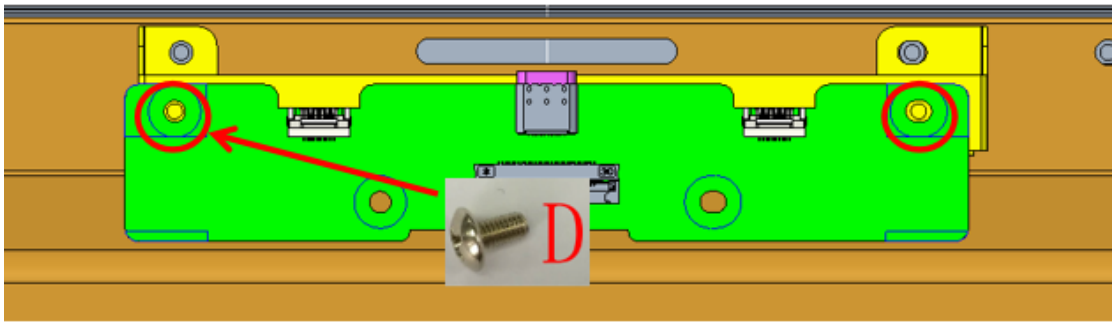
STEP 1: Remove 2 screws from the I/O port board fixing bracket and remove the I/O port board;



STEP 2: Remove the 2PCS screws that secure the I/O port board.



◆ **MIC conncet borad**



2. Maintenance Description

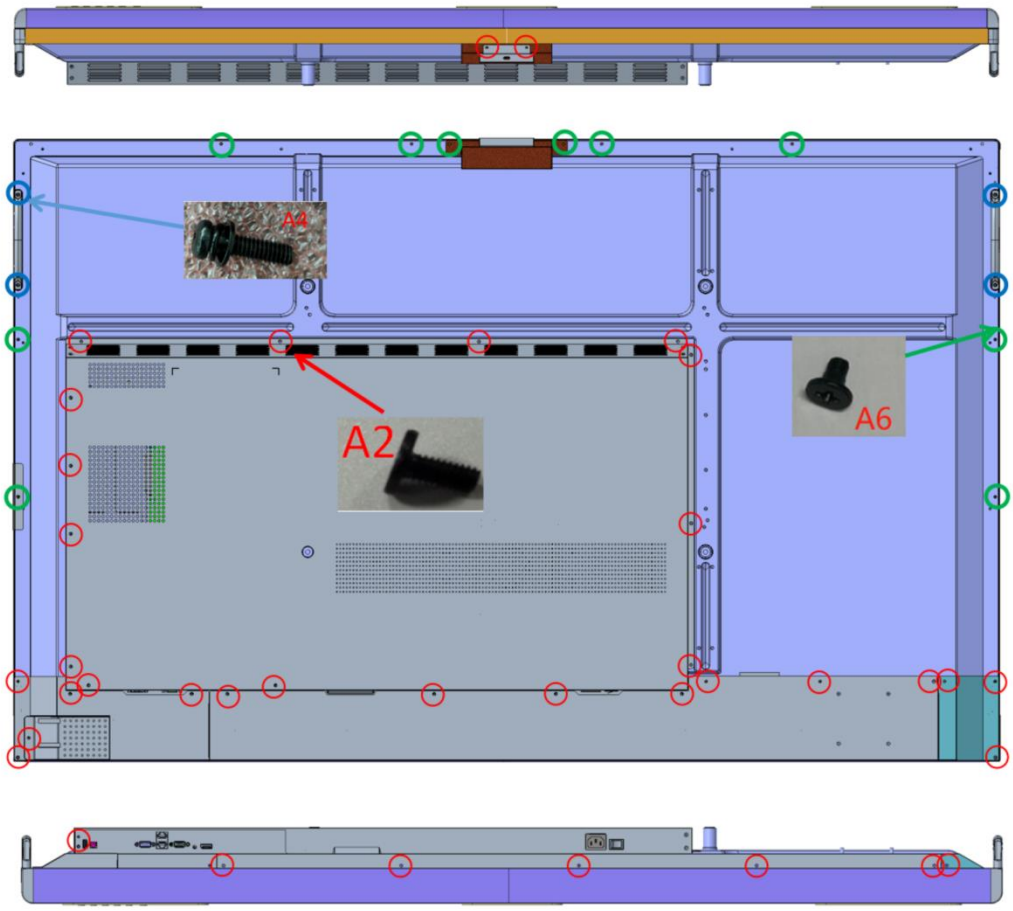
■ To replace the circuit boards you need to remove first the rear covers and wires.

■ To replace the TV main board, you need to remove the lower terminal block, the side terminal block.

■ Cut off the power before performing replacement, so as to prevent any short circuit resulting from contact of wires.

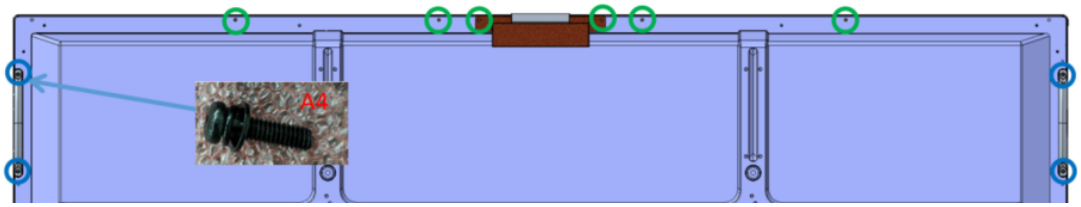
Touch Frame Disassembly

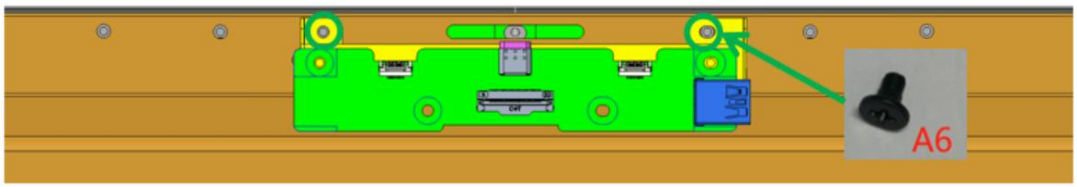
STEP 0: Get machine from the movable bracket and lie it down on the table(Be careful on protection)



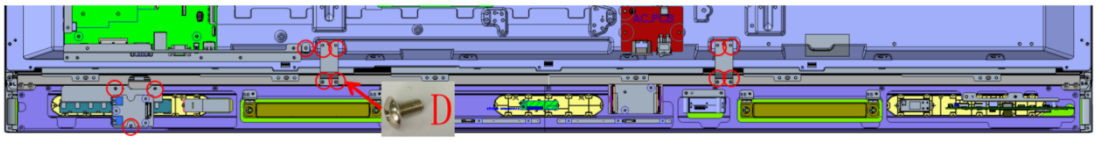
STEP 1: Remove the handle, back panel, left/right small rear shell, left/middle/right big rear shell, top left/right small rear shell, microphone bracket left and right, lower terminal bracket, AC bracket front fixing screws, and remove the left/right small rear shell, left/middle/right large rear shell, lower terminal bracket, and AC bracket bottom fixing screws;

STEP 2: Remove screws securing the MIC conncet borad bracket to the back panel.Disconnect wiring between the MIC conncet borad and the main device.

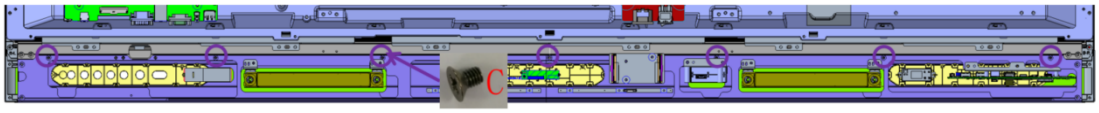




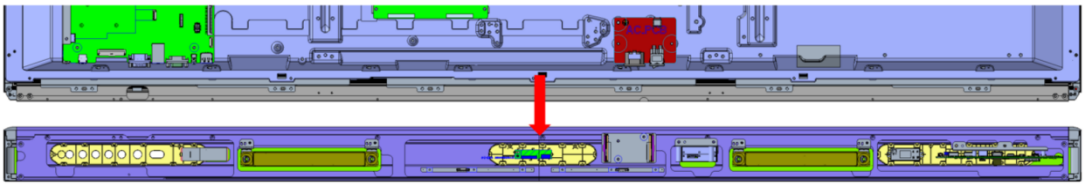
Step 3: Remove the screen pressure blocks securing the module to the frame, unscrew the screws holding the lower terminal bracket and WIFI component, and detach any wires, tapes, and adhesive materials between the frame and the module, including source microphone, etc.



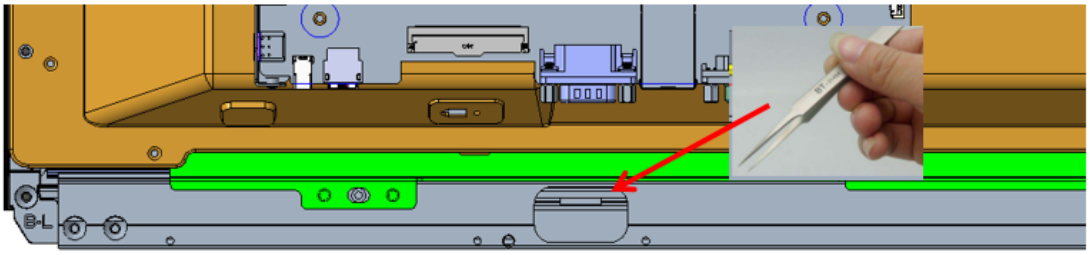
Step 4: Disconnect the lower frame from the infrared frame by removing the securing screws.



Step 5: Pull down the lower frame to separate it from the infrared frame.



Step 6: Disconnect the touch from the main board by using tweezers to press down on the latch of the touch panel connector and simultaneously pull the wire out with your hand.

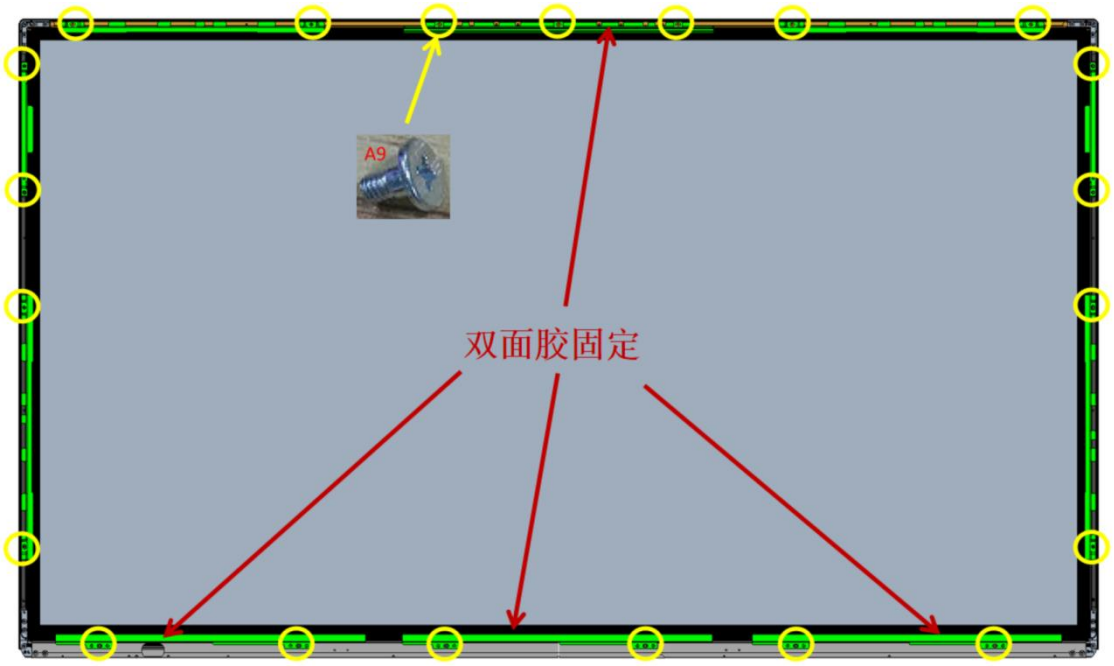


Step 7: Remove the conductive cloth connecting the source board to the backplate. Unclip the source board from the source latch and flip it over onto the infrared frame. Secure it in place using adhesive tape.

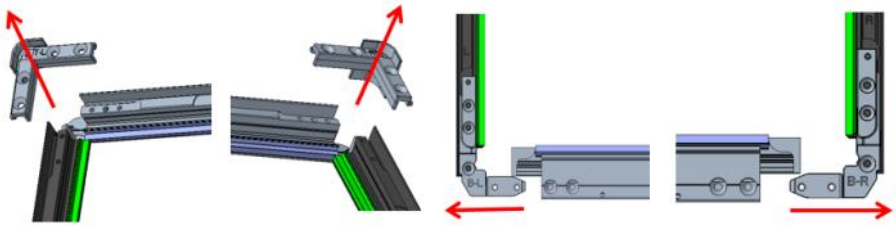
STEP 8: Turn over the machine 180°and put it on table, make sure the OC side face up.

STEP 9: Lift up the front frame, then put it flat on table

STEP 10: Remove glass pressing block, then separate bezel and toughened glass



STEP 11: Remove corners



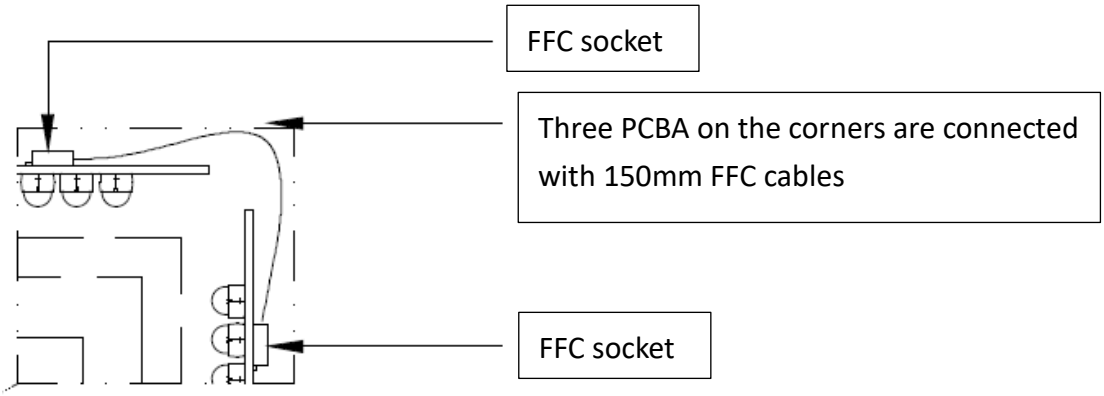
STEP 12: Disconnect the touch FFC cable at the **upper left**, **lower left**, and **lower right** splices of the touch frame:

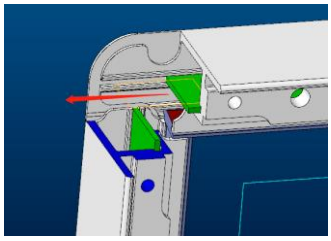
(1) Disconnect the **upper left** touch FFC and pull out the upper touch frame;

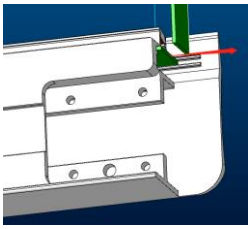
(2) Then disconnect the **lower left** touch FFC cable and pull out the left touch frame; (3) Disconnect the **lower right** touch FFC cable and pull out the right touch frame;

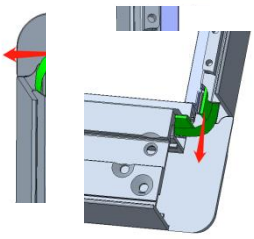
(3) Finally, the **bottom** touch frame appears.

Note: Use tweezers to push out the touch frame from one side of the frame to the other, and use your hand to pull out the touch frame from the other side. **Disassembly sequence: top -left (right) -bottom**









STEP13 Completed

Disassembly Time

Total time: about 60 minutes