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Installation Guide

5206E M/B upgrade to 5272 M/B Upgrade Kit

**Model : C180II 30W
C180II 40W**

Revision History :

Version	Date	Page	Contents
1.0	Aug., 2015		First release



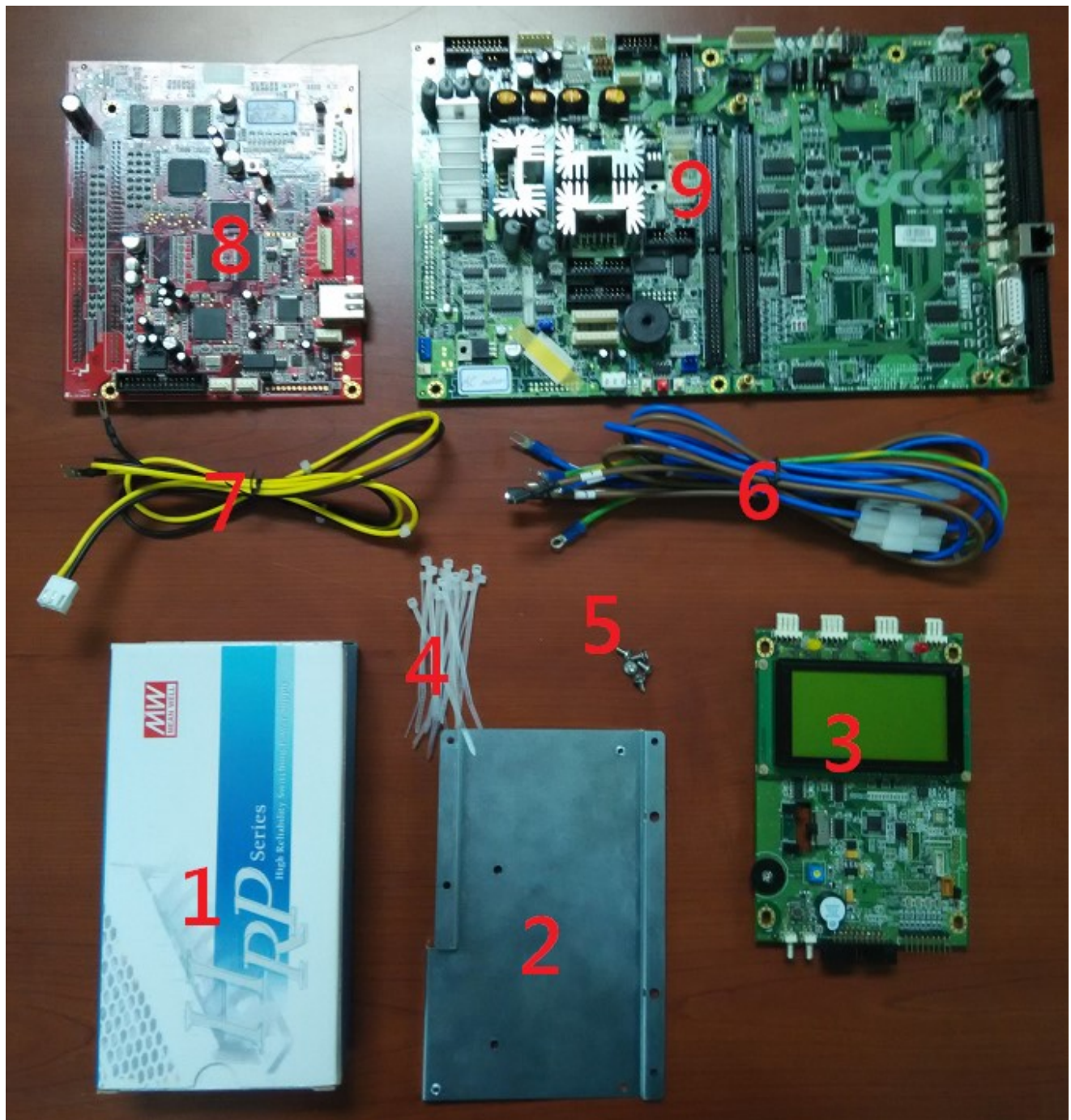
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I. Part List

Please check if all the parts of the upgrade kit are included

Part no. 290084330G Upgrade kit _5206e M/B upgrade to 5272 M/B

NO.	Part No.	Description	Quantity
1	245000990G	Power supply	1
2	244049450G	Power adapter plate	1
3	290082830G	Control Panel set	1
4	22000013G	Cable tie	15
5	25200010G	Truss head screw M3x6L	4
6	209025180G	ON/OFF Switch to two P/S AC cable	1
7	209025210G	Power Supply to M/B DC Cable	1
8	290083920G	5272 M/B with C180II firmware	1
9	290079570G	Driver board set	1



II. Tool Needed

For the upgrading, we need a cross head screwdriver and a diagonal cutting plier.



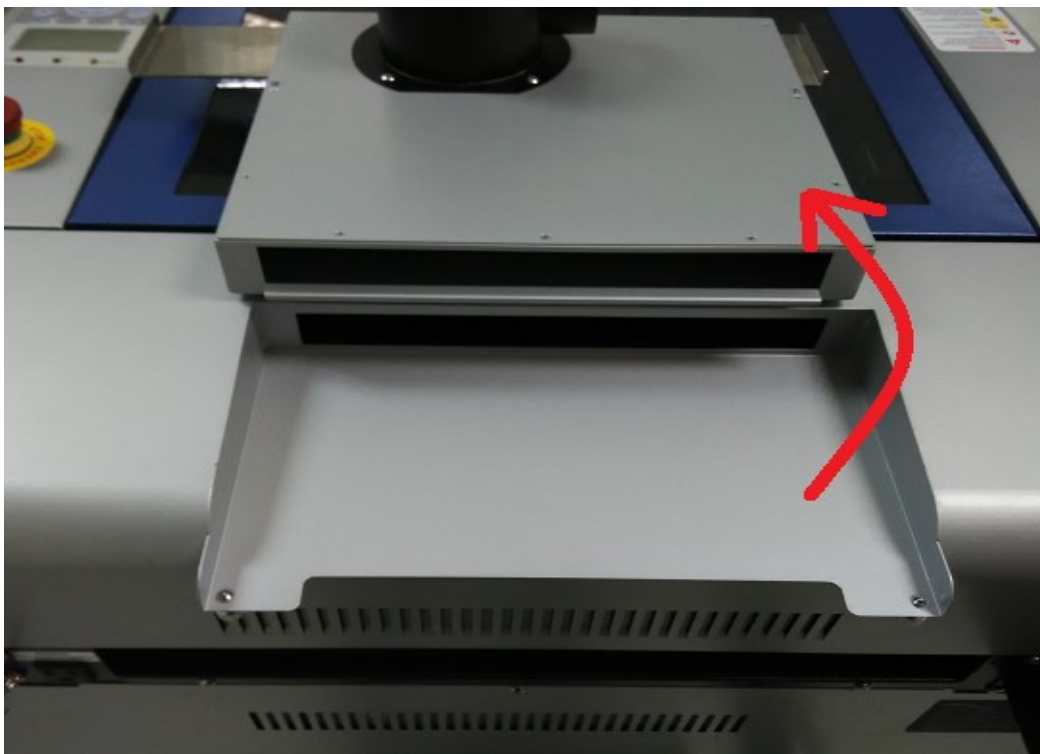
III. Upgraded Instruction

A. Replace the power supply

1. Loosen two screws next to the 4" air pipe hole on the back of machine. (refer to below pictures), so that the wind box can be lifted up.



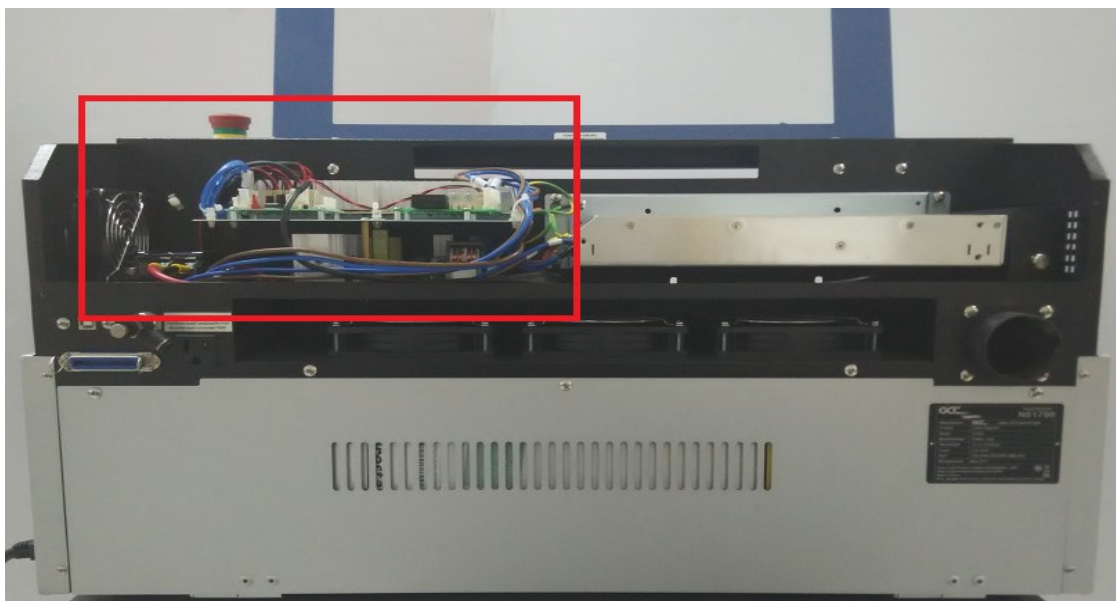
2. Lift the wind box.



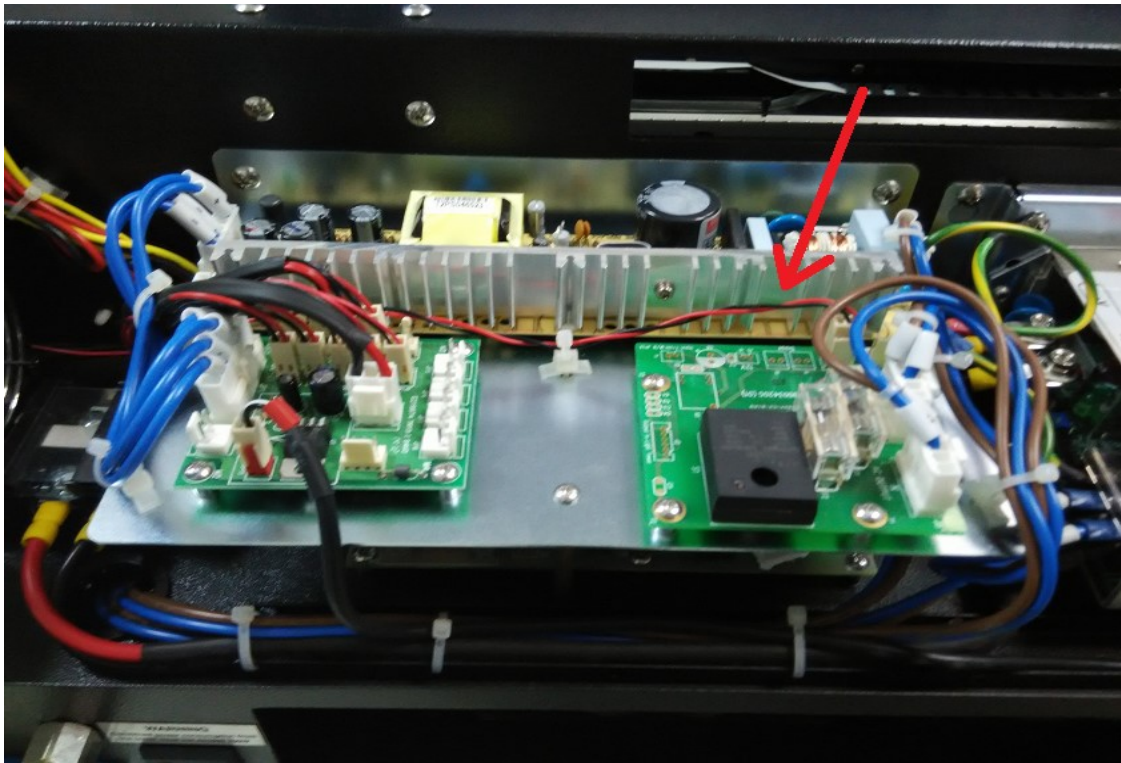
3. Refer to below picture to loosen the four screws on the back of machine, then the back cover can be removed.



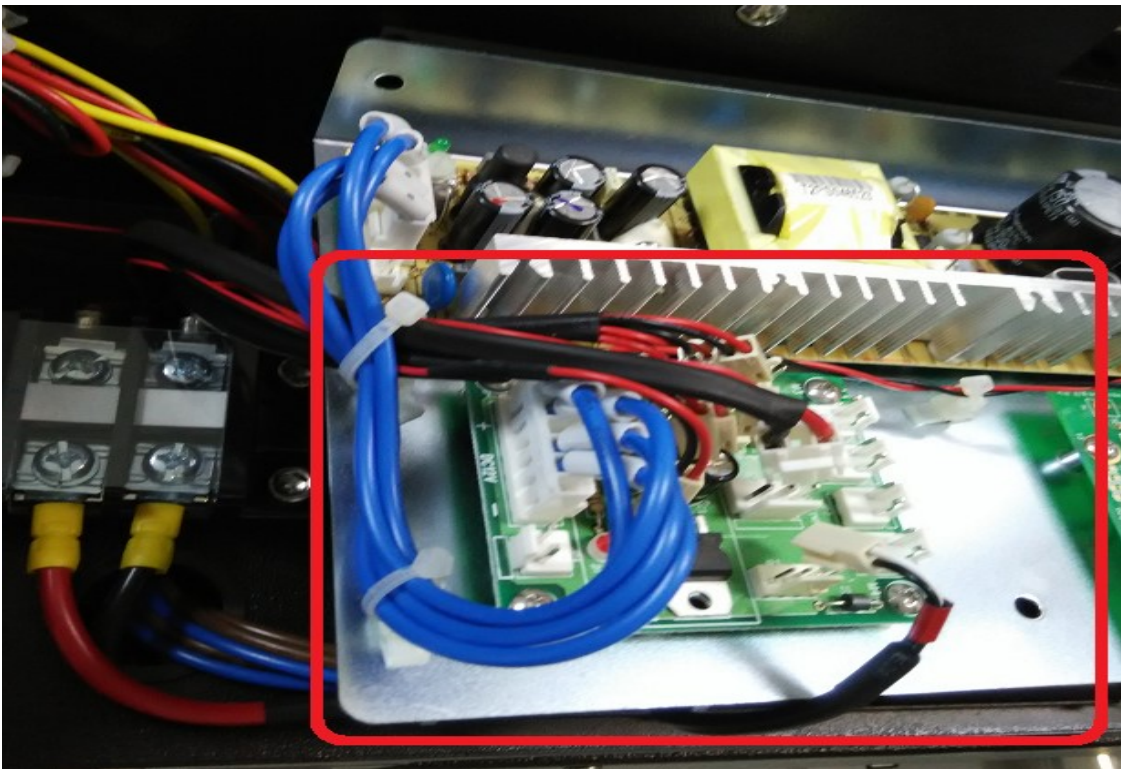
4. After the back cover is removed, you can reach the power board assembly (red squared) on the left.



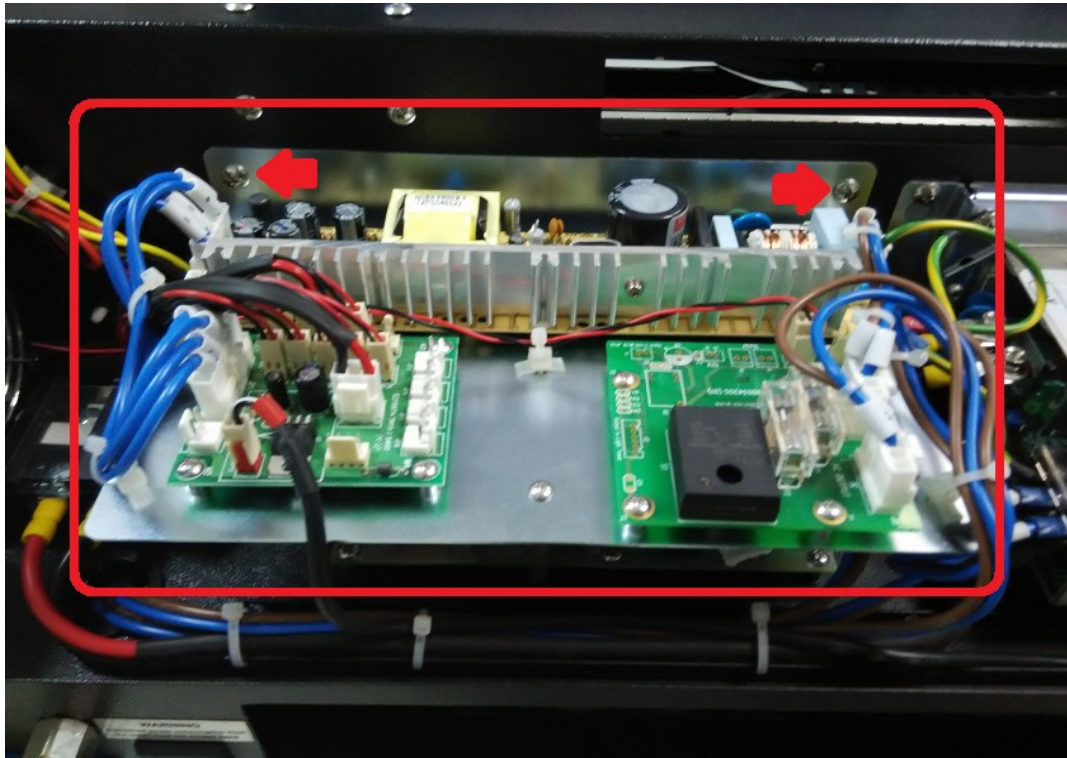
5. Unplug the 2-pin black-red twisted cable from the PCB



6. Refer to below picture and unplug all cables on the 12V transfer board.



7. Refer to below picture to loosen the two screws which fix the power board plate, then you can remove the entire power board and its plate so that you can reach bottom board, see next picture



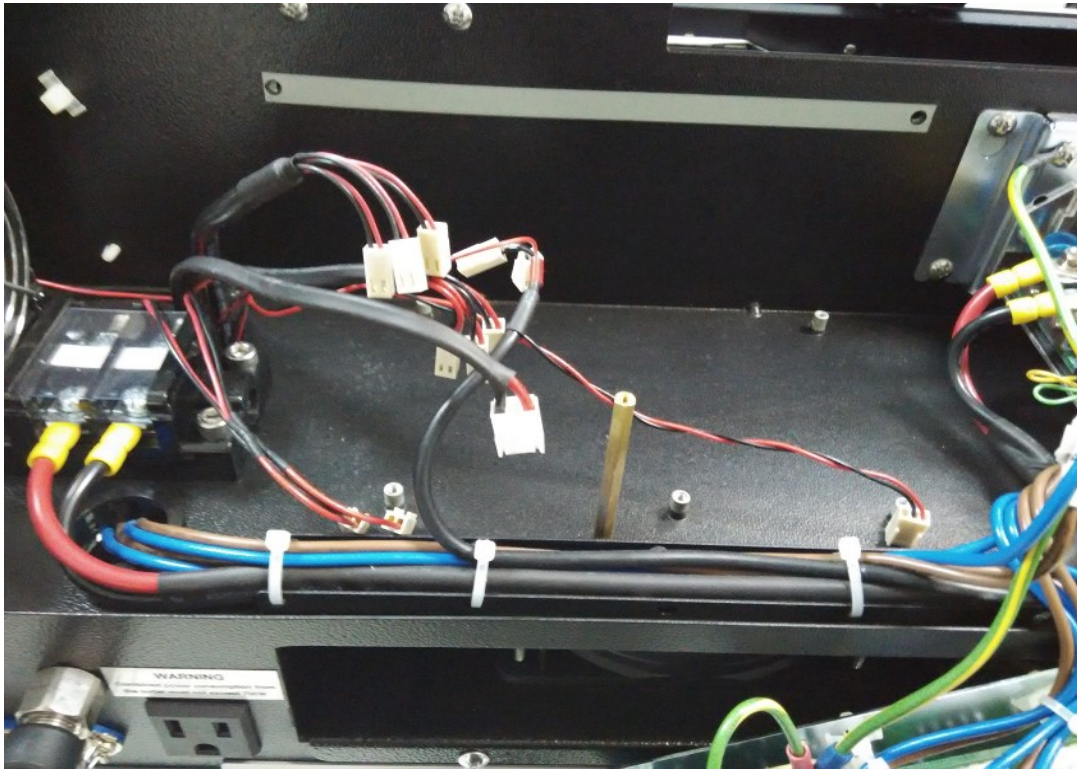
8. Refer to below picture to unplug the 4-pin cable connected to the down-right corner of the board.



9. Then, loosen the four screws which fix this power board, then we can remove the board, we will replace this board with new power supply.



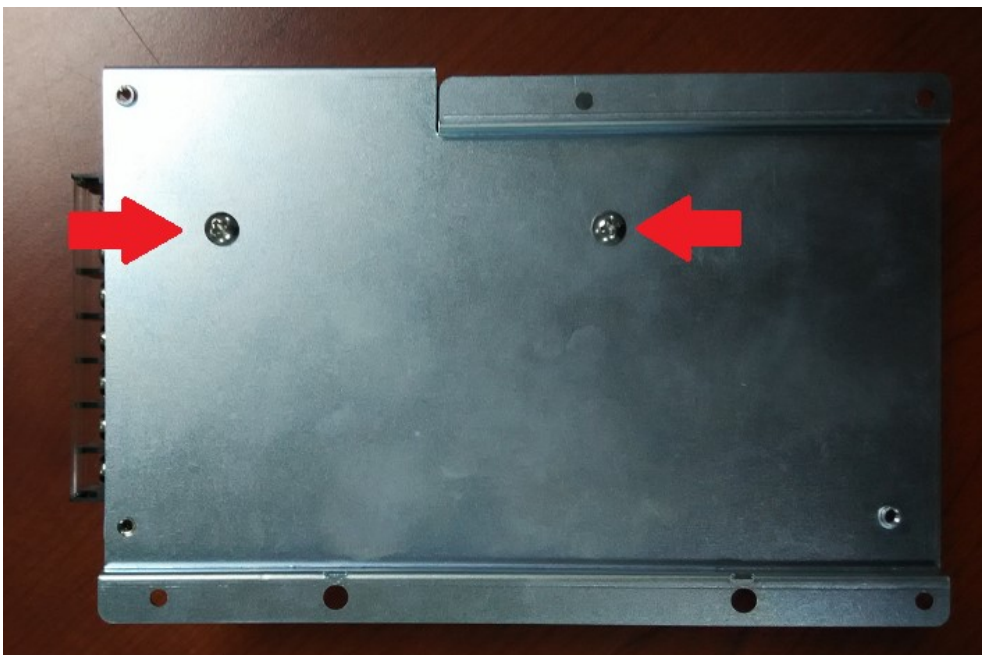
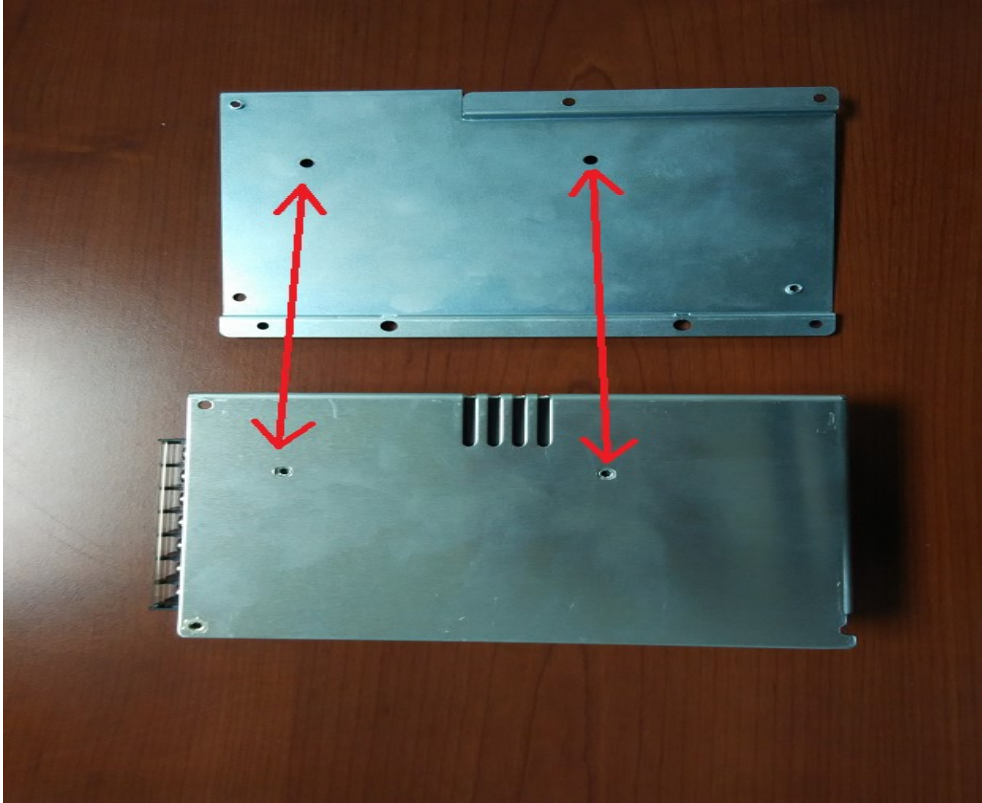
10. The board is removed.



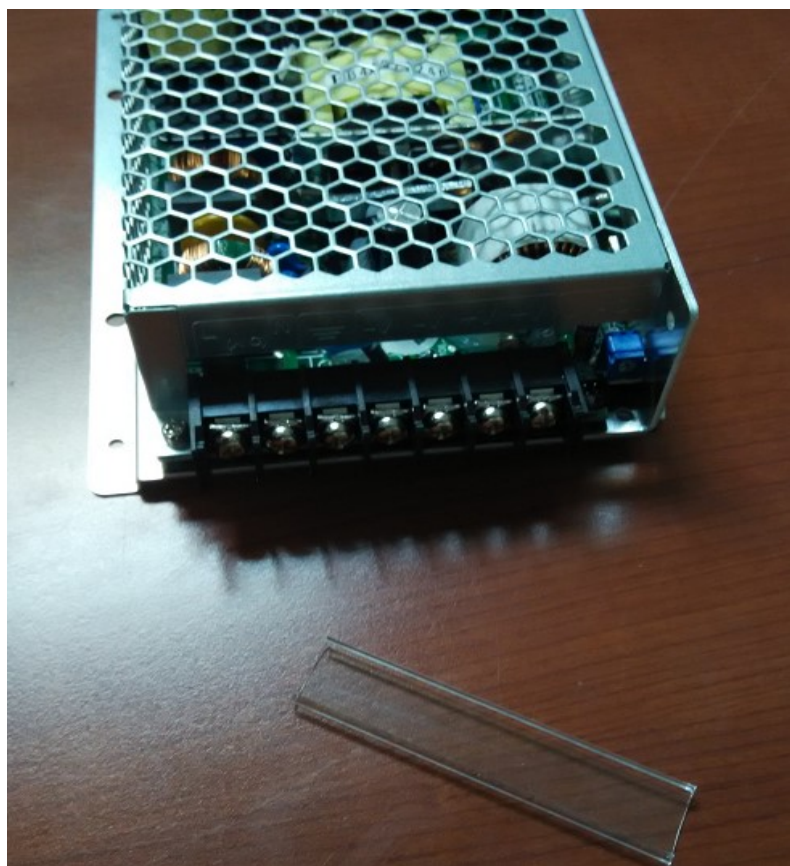
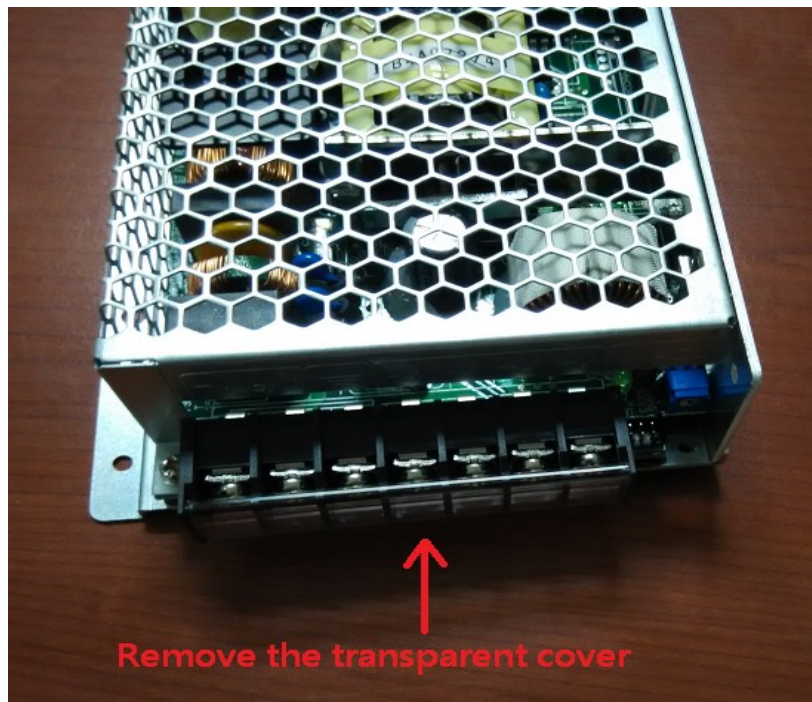
11. Unpack the power supply, we first have to assemble the power supply and it's mounting plate.



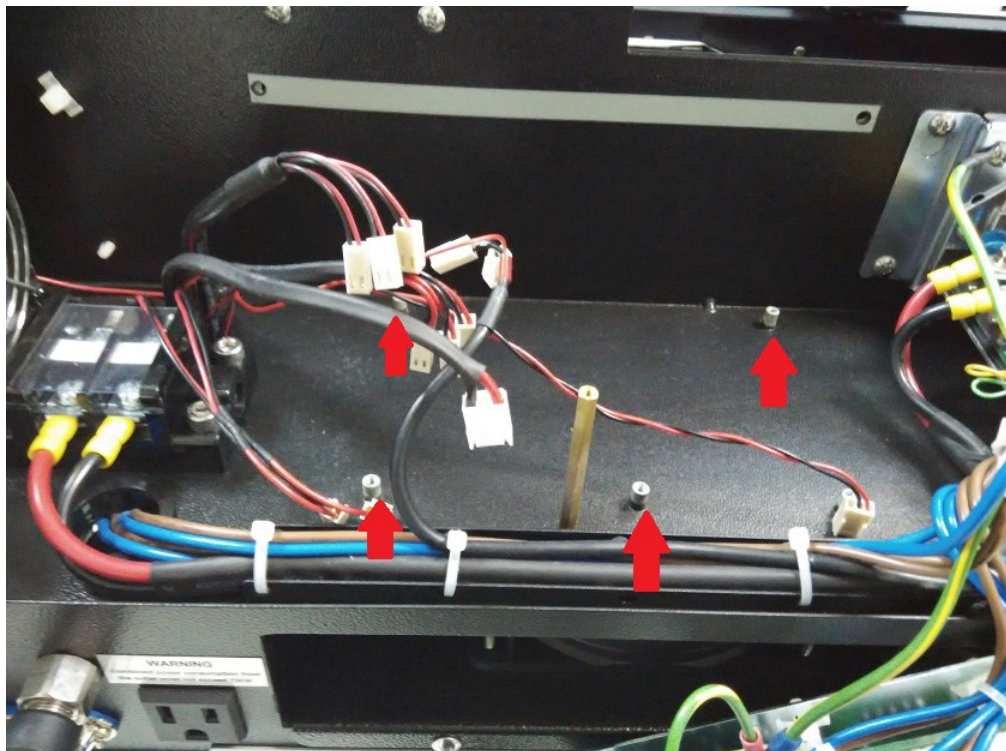
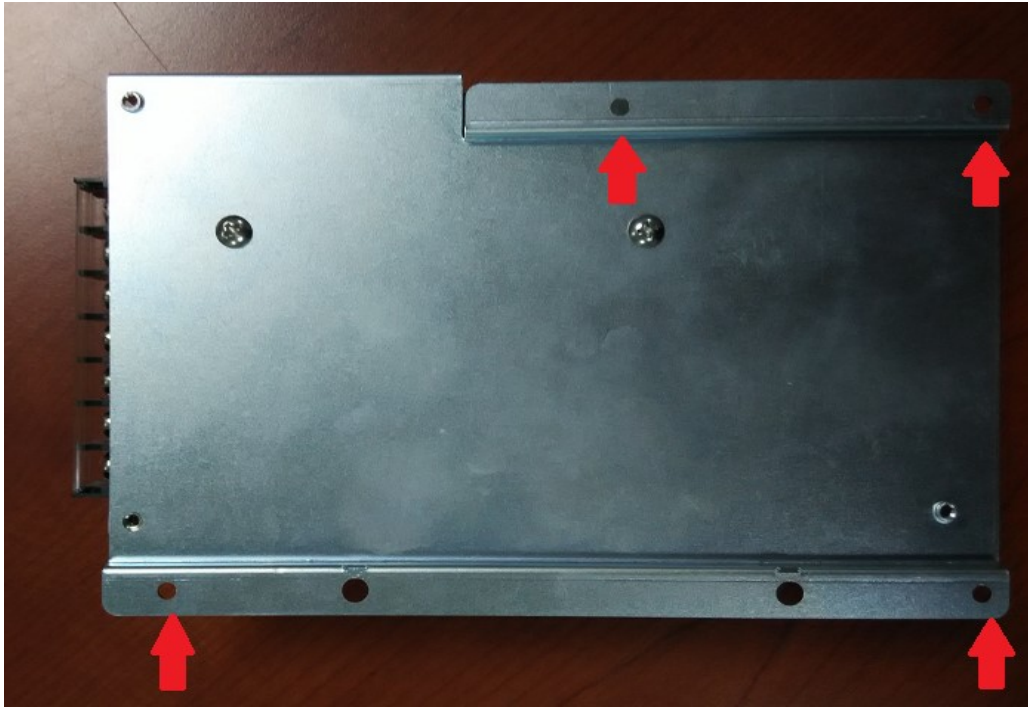
12. The power supply and the mounting plate are fixed by two truss head screws, refer to below picture to realize the corresponding screw holes. (Just put the plate on the power supply according to the direction below picture shows then fasten the screws)



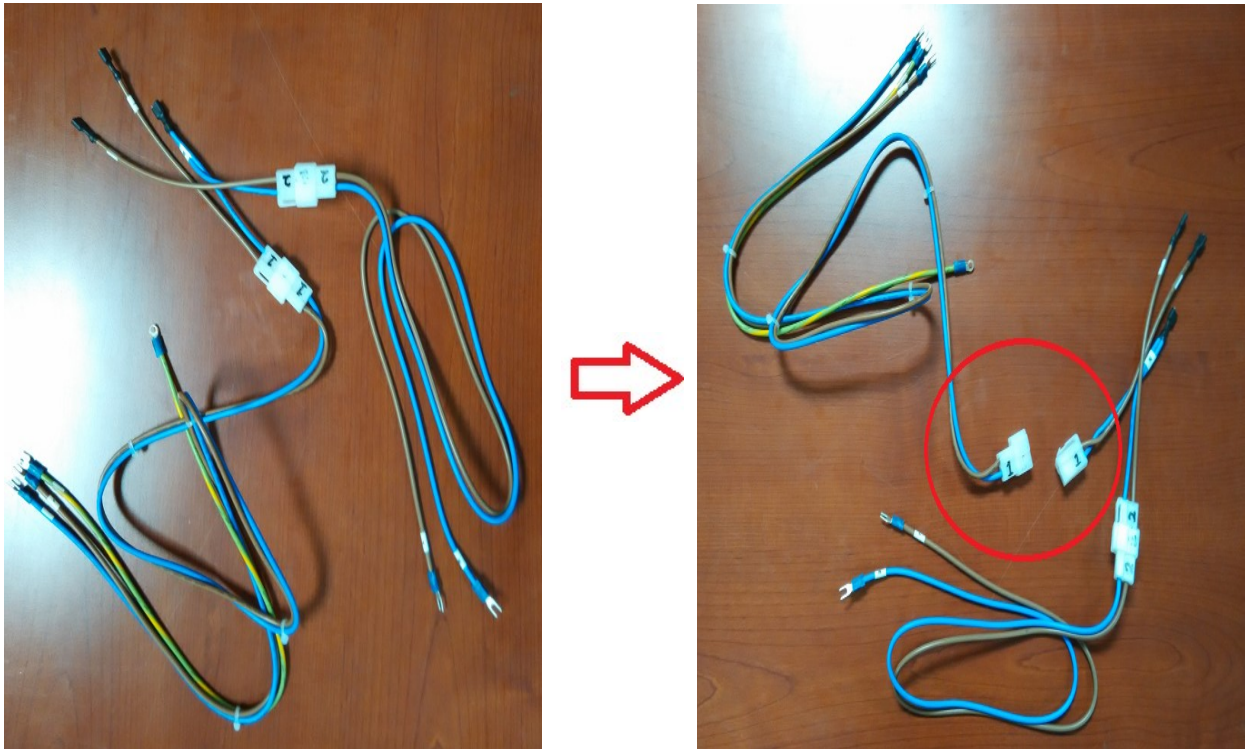
13. Remove the transparent plastic cover which protects the distribution panel.



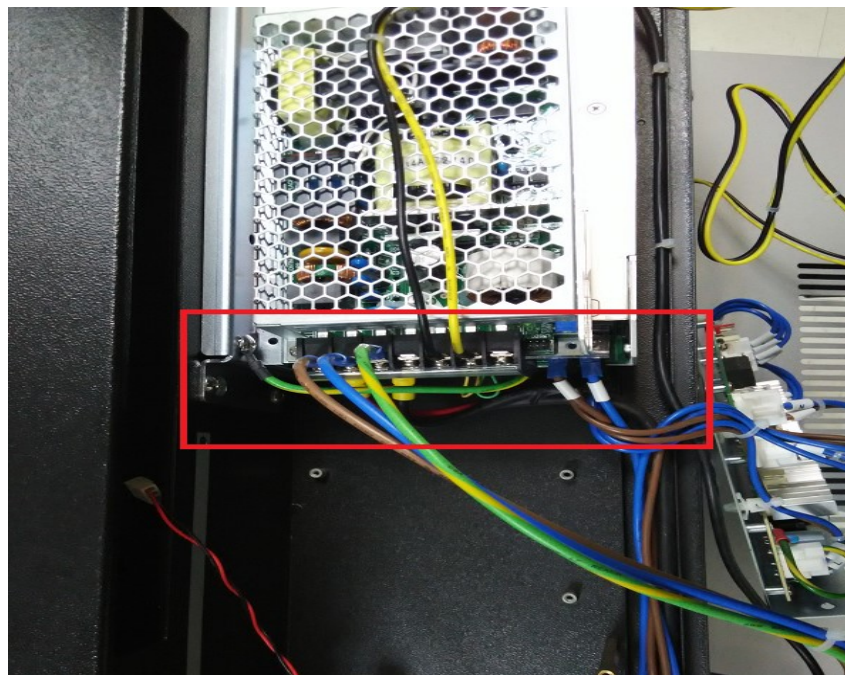
14. Install the new power supply to the position where original power board is installed by four truss head screws. (refer to below pictures, fix the screws to where the arrows indicate)



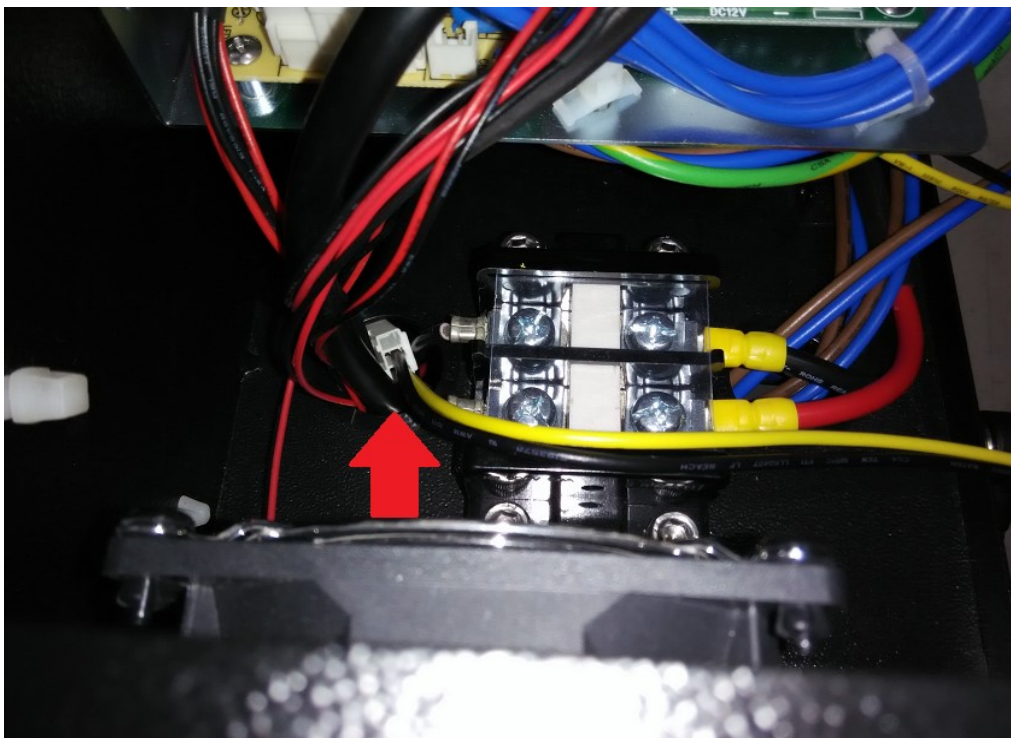
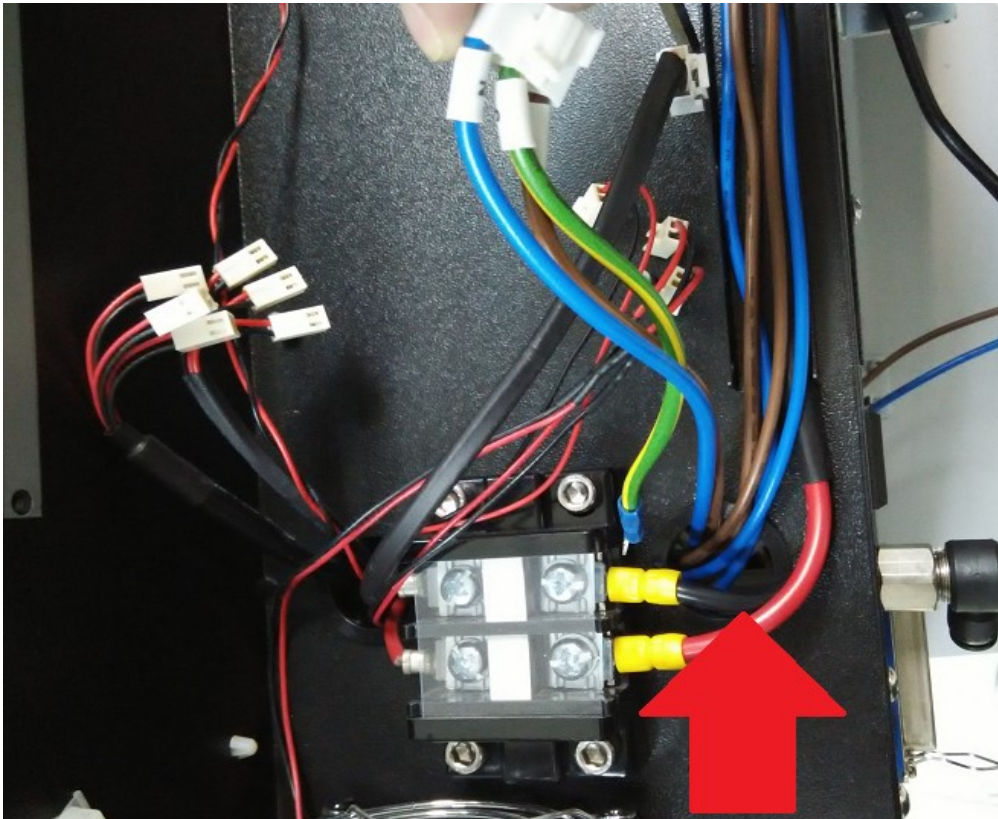
15. Separate the 3-way cable which have number marked from node number 1, we just need the left part cable in the picture.



16. Connect the 3 way cable in step 15 and the 2-pin yellow/black cable included in the upgrade kit to the distribution panel of the new power supply according to below picture.



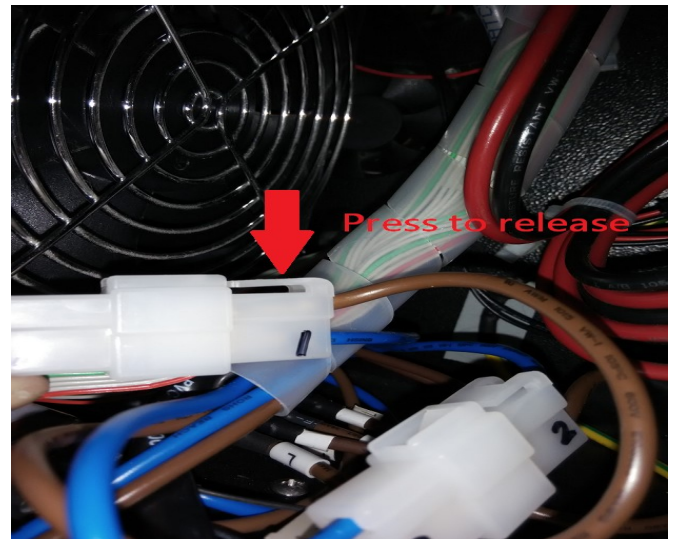
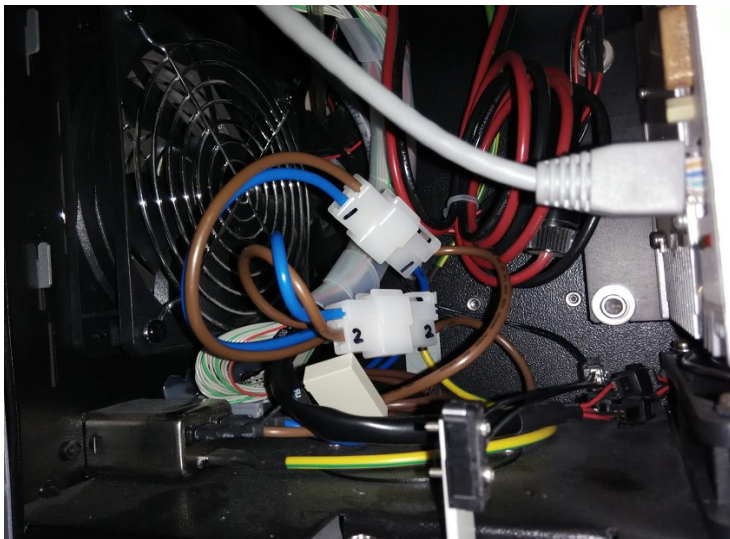
17. The other end of the cables we installed on step 16, please go through the cable hole located next to the machine distribution panel to the laser tube room. (refer to below pictures, the red arrow indicates the hole)



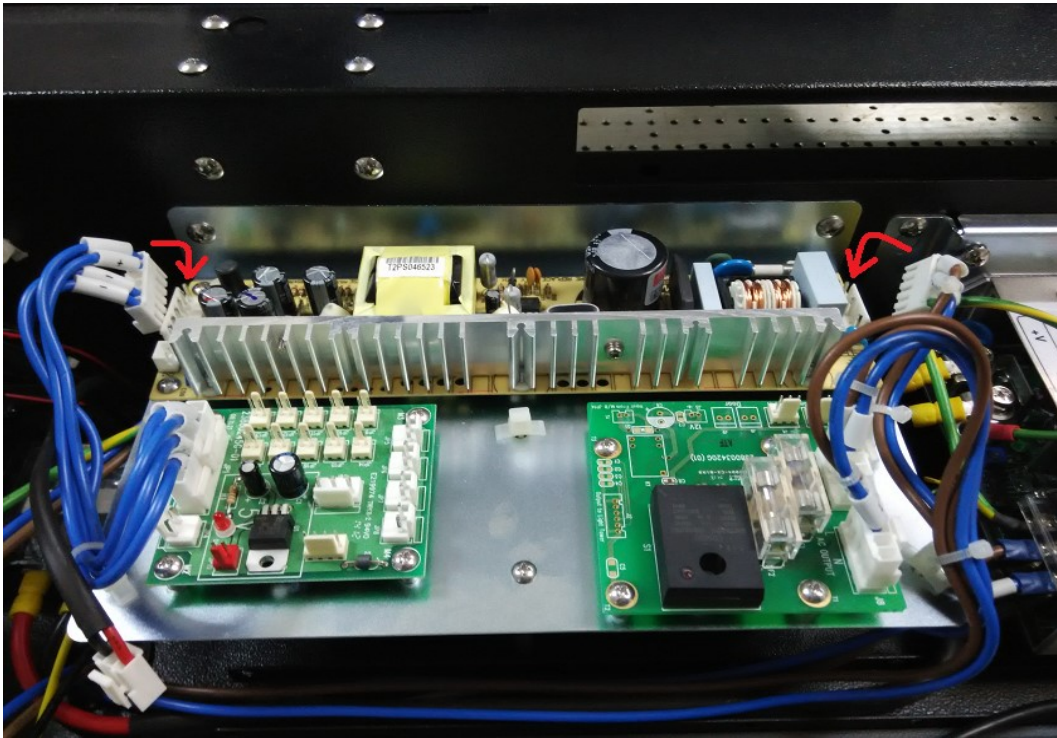
18. Loosen two truss head screws on the back bottom cover show in below picture then we can remove the cover to reach to the laser tube room.



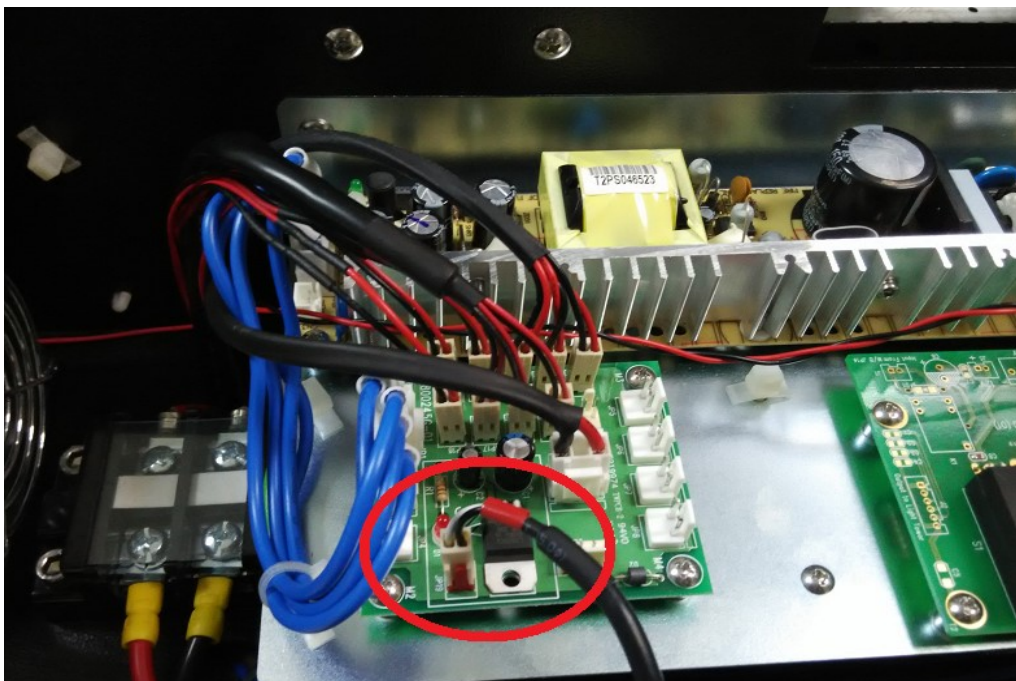
19. In laser tube room, next to the laser tube, you can find a cable set which have number marked, disconnect the node number 1 and replace by the other end of the cable in step 16. (as to the yellow/black cable, the other end will link to M/B room, will introduce later)



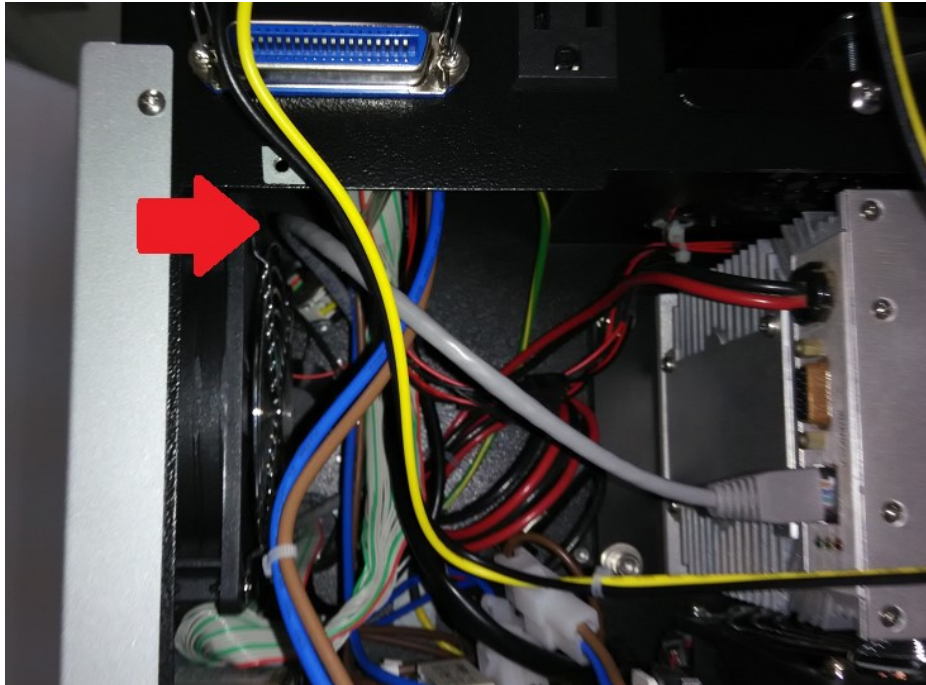
20. Restore the power board plate in step 7, plug back the two cable set according to below picture.(the red arrow indicates)



21. Restore all the 2-pin cables to 12V converter board (each cable can plug into any slot on the converter board, they are all the same except the bottom one with red circle, it needs to be plug into its specific slot)

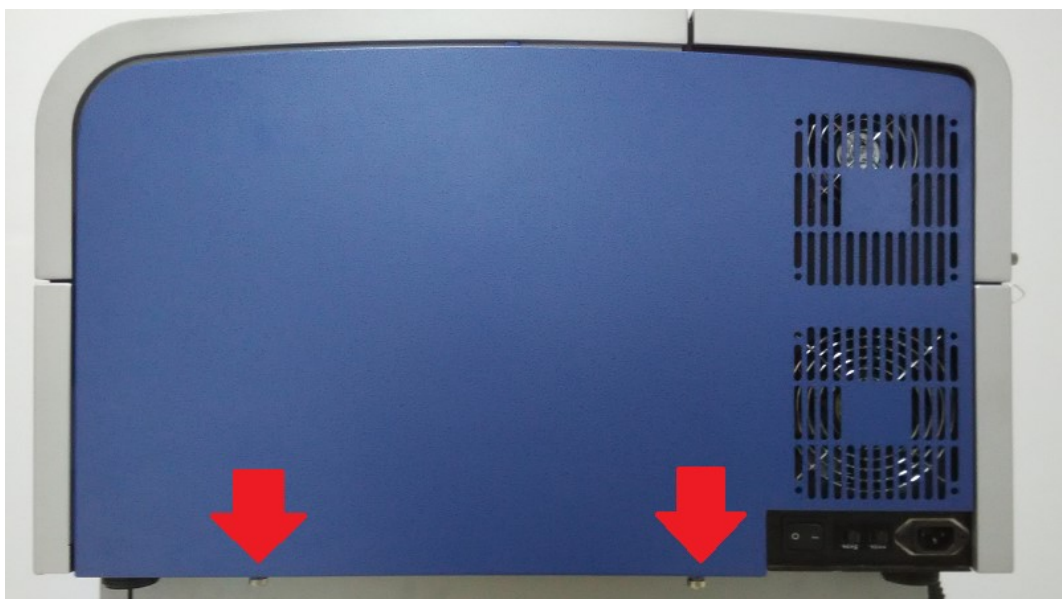


22. In laser tube room, you can find a cable hole which you can go through it to mainboard room (refer to below picture), let the yellow/black cable go through this hole to the mainboard room.

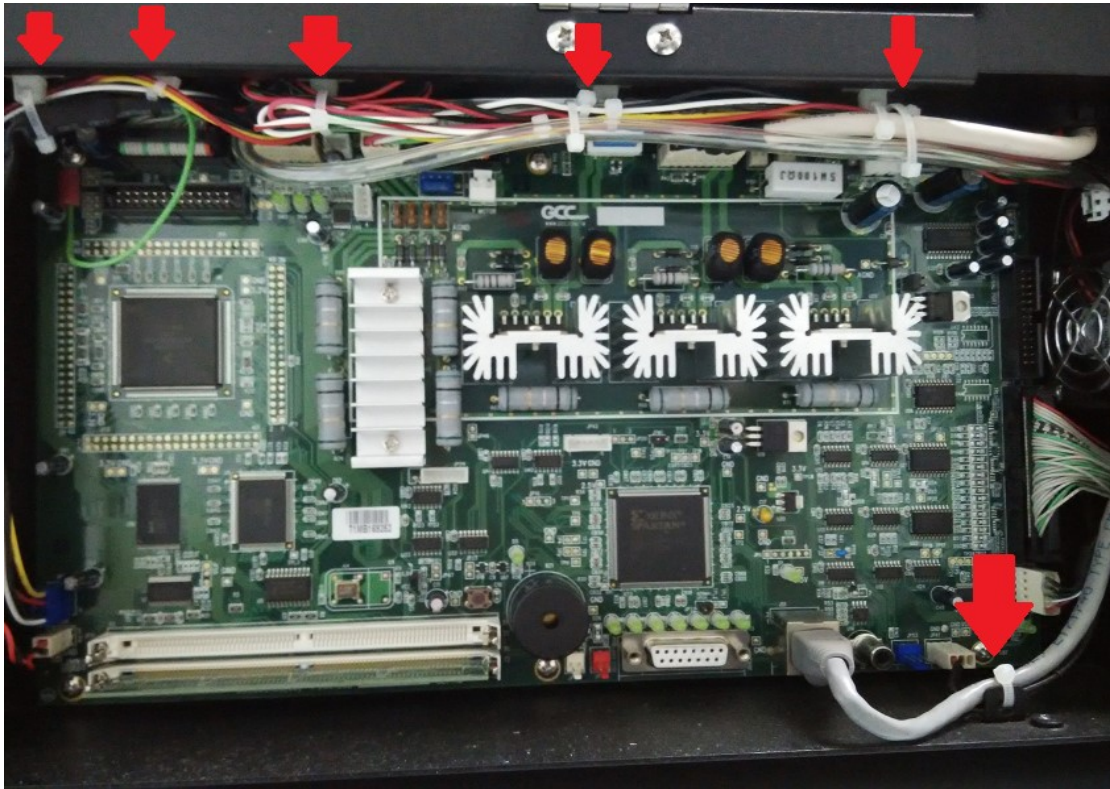


B. Replace the Mainboard

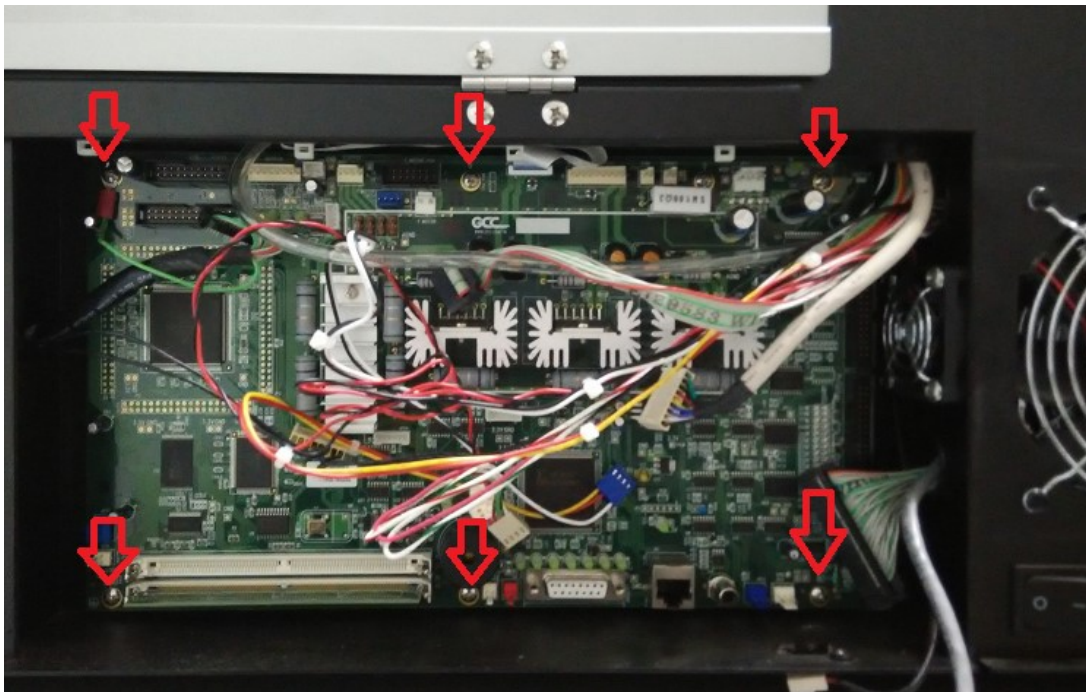
1. Loosen the two screws on the bottom of right side cover to remove the side cover, then you can reach mainboard room.



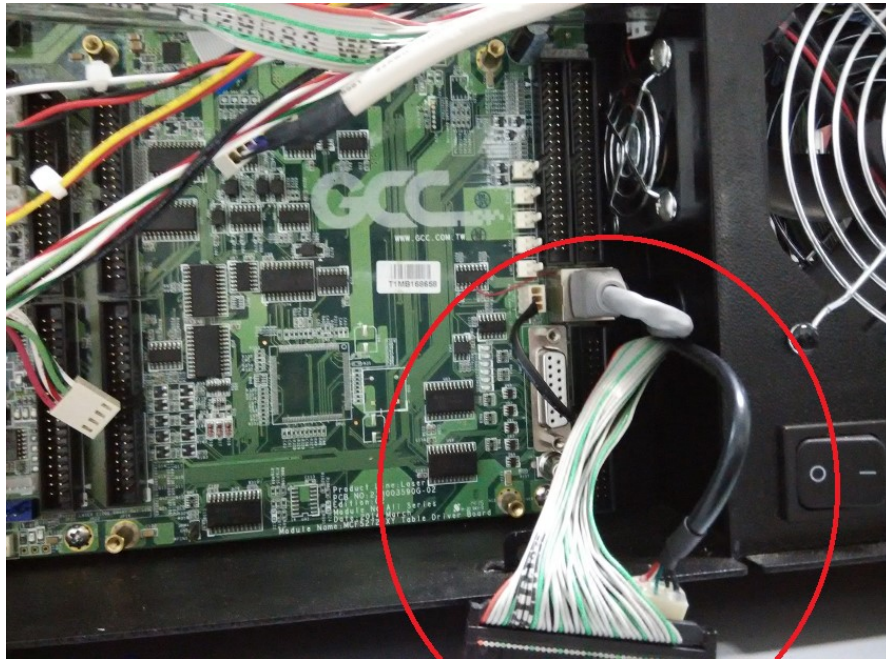
2. Use the diagonal cutting speller to cut off the cable ties indicated in below picture.



3. Unplug all the cables connect to mainboard and loosen the six screws indicated by the red arrow in below picture.



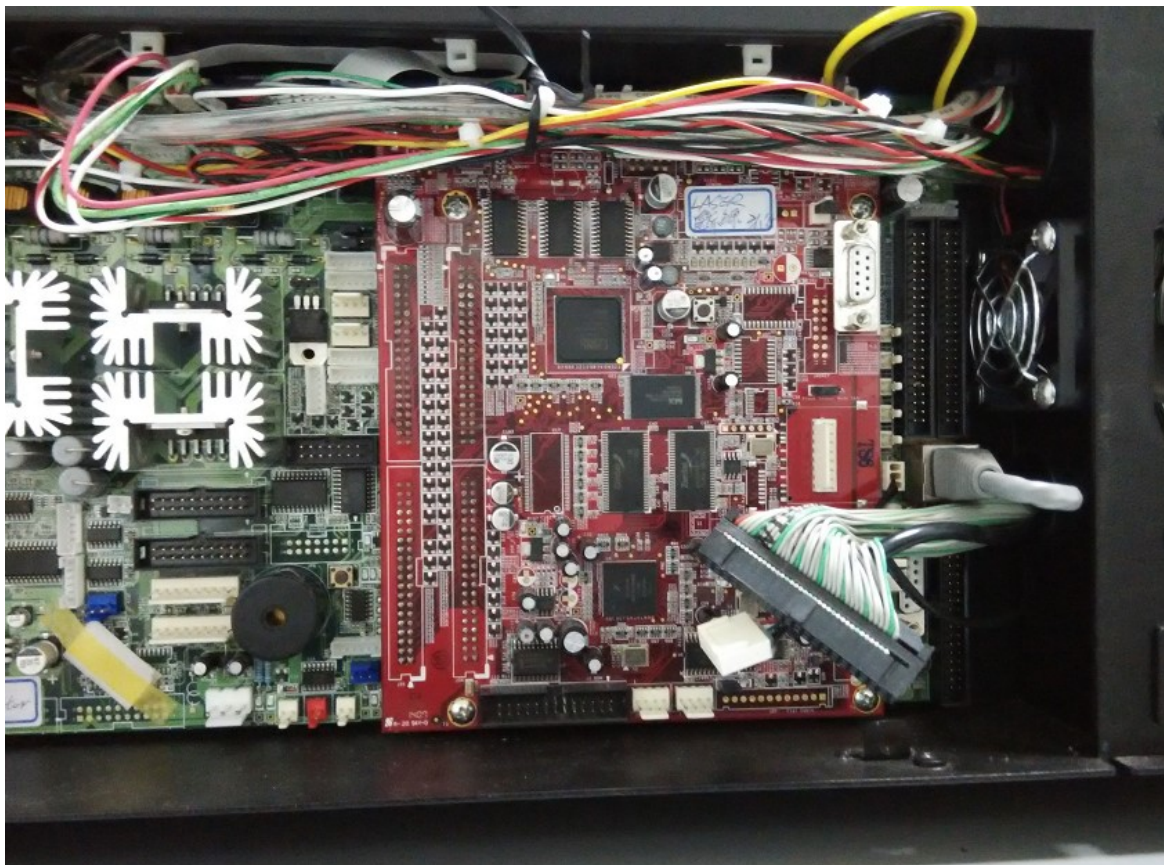
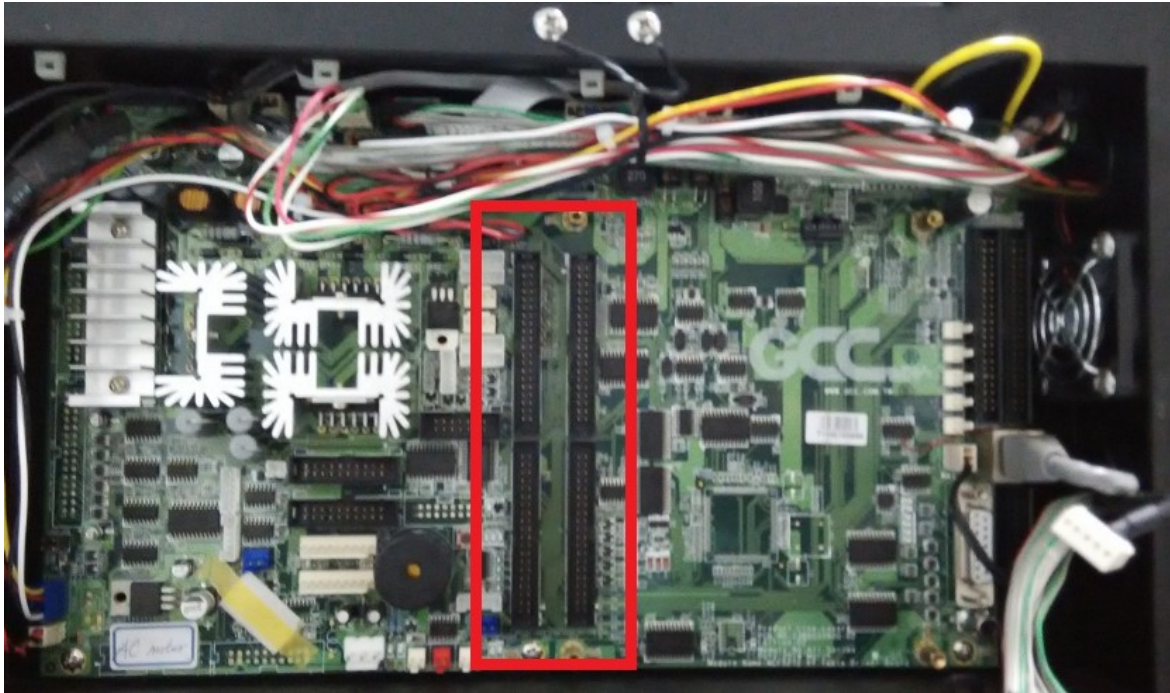
4. Notice that the printer port will no longer be supported on 5272 M/B, the printer port cable can be just ignored.



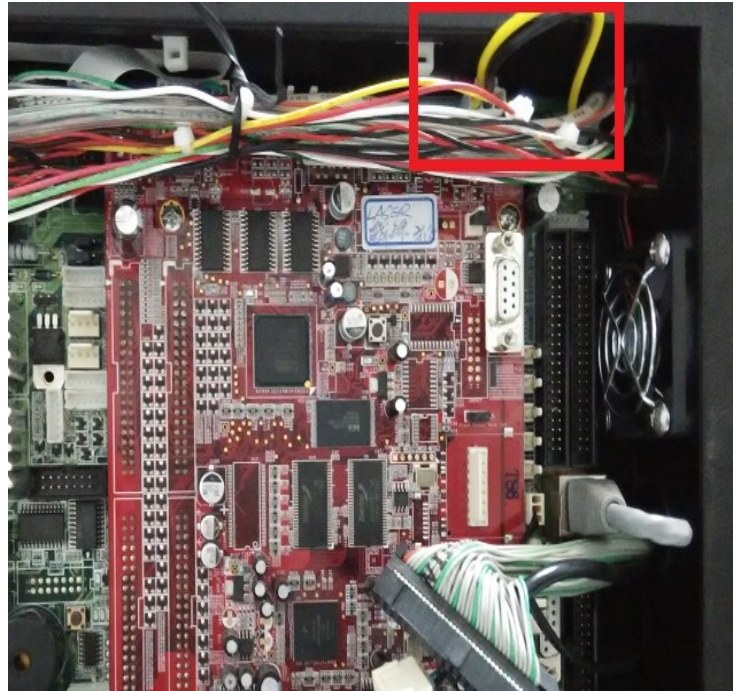
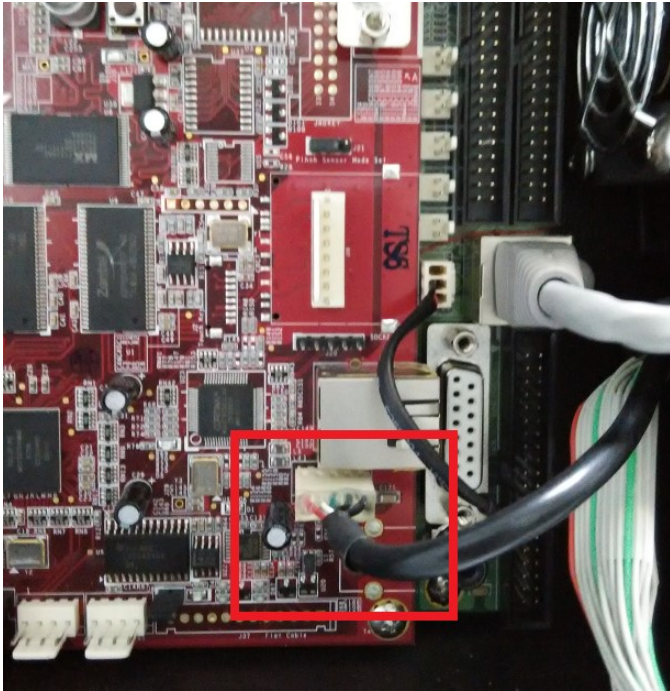
5. Install the green driver board and connect all the cables except the 6-pin USB cable (there are six screws, the hole location is the same as old mainboard).



6. Plug the red 5272 mainboard into the four 40pin slots on the driver board

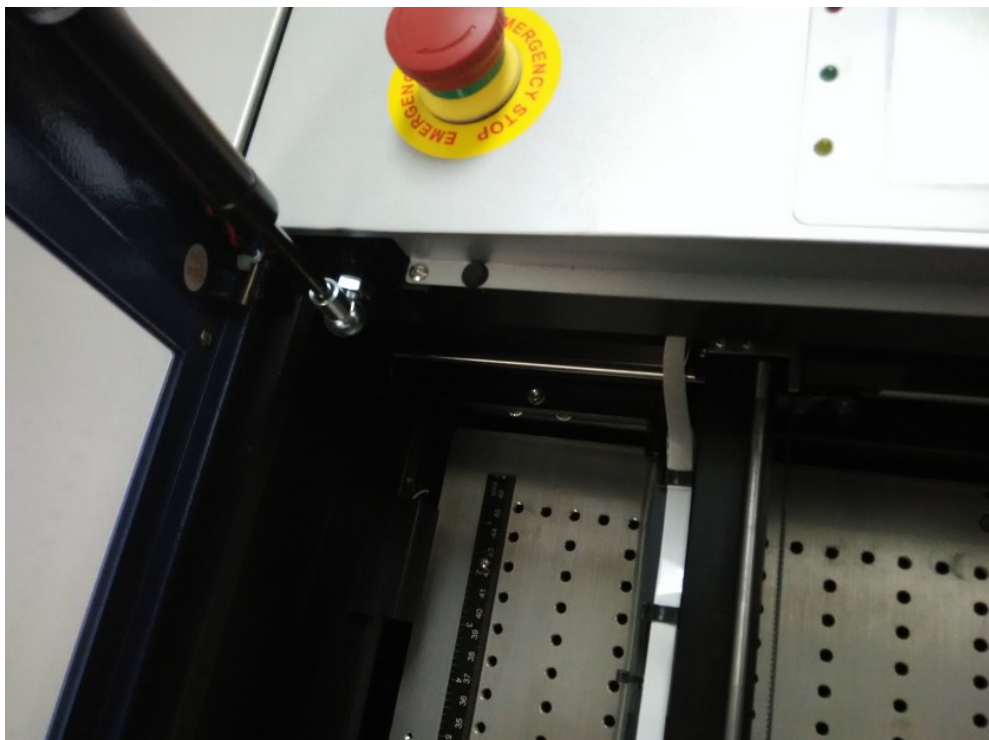


7. Connect the USB cable and the yellow/black cable.

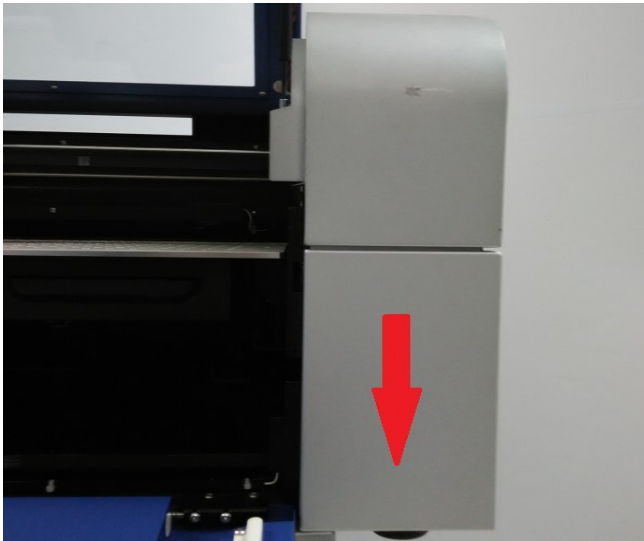


C. Replace the Control panel

1. Open Top cover of C180II, you can find a truss head screw, loosen it.



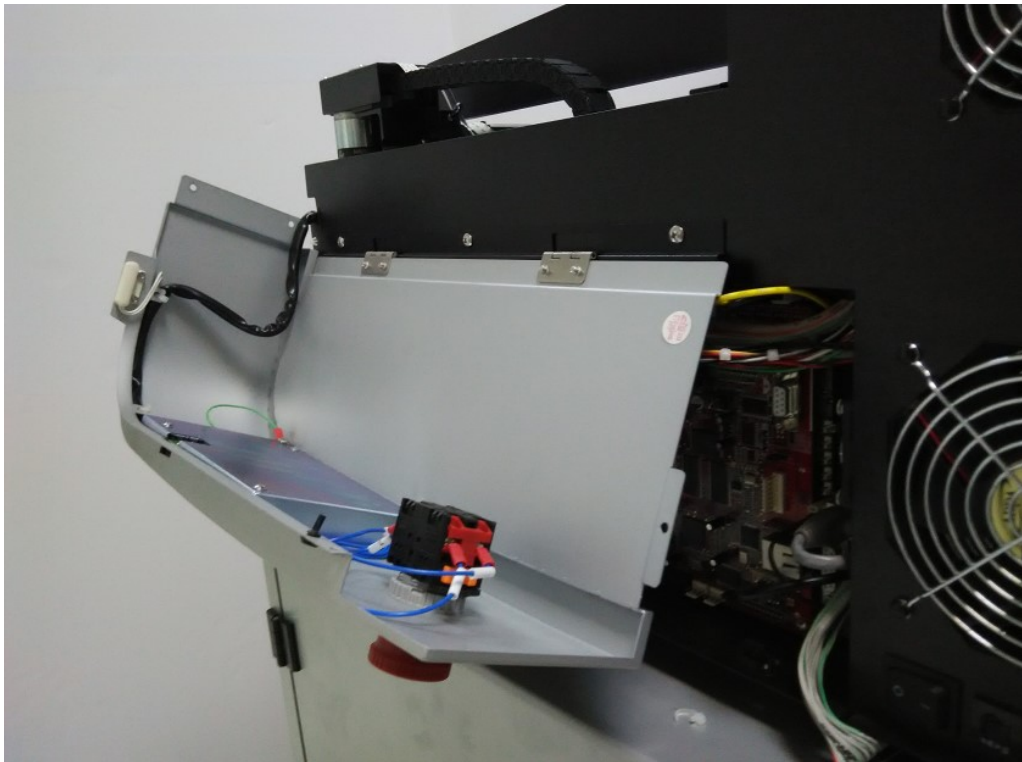
2. Pull down the right front cover.



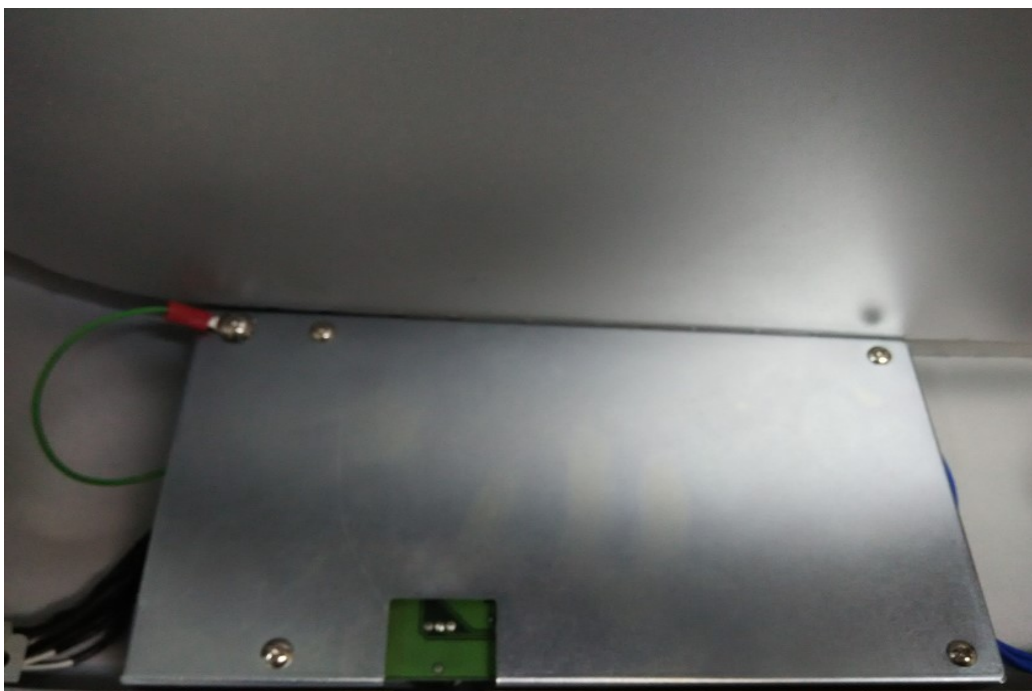
3. Loosen the two screws inside.



4. Pull down the top right side cover, you can see the Control panel assembly.



5. Loosen the four screws on the protection cover. (no need to remove the one with ground cable connected)



V1.0

6. Remove all the cables connected to control panel, and loosen the four screws which fix the control panel body then replace the new control panel, remember to restore all the cables, the layout is entirely the same as old one.

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