



it's a whole new game!

Bride of Pinbot 2.0 Upgrade Kit Installation Guide

(Batch #2 - 2015/2016 - Version 1.3 Feb 2015)



Disclaimer

This Bride of Pinbot 2.0 Upgrade Kit is a product to modify an original “The Machine: Bride of Pinbot” made by Williams in 1991. This kit will only work on an original, fully functional Bride of Pinbot.

Installing this kit is at your own risk. Dutch Pinball is not responsible for any damage, short circuits, game failures and other malfunctions, or damage to the machine or other personal property as a result of installation.

Follow the instructions as included to assure for proper installation and functionality. We are aware that there are some differences between machines in hardware. If something on your Bride of Pinbot is different and you’re not sure how to proceed, please don’t hesitate to contact us for support at support@dutchpinball.com.

If you are not comfortable working on pinball hardware and/or high voltage electronics, please get professional support for installing this kit.

Installing this kit is at your own risk. Dutch Pinball is not responsible for any damage *to you* or your machine, short circuits, game failures and other malfunctions, or damage to the machine or other personal property as a result of installation.

Before you start the installation, make sure that your pinball machine is unplugged.

Bride of Pinbot 2.0 Kit - Contents

1. Complete assembled Speaker Panel. Including speakers and color display panel
2. Power Supply for display panel
3. Mini PC (with 2 small cables coming out of it)
4. P-ROC
5. Audio amplifier
6. Power supply for audio amplifier (EU kits will have a separate power cable for adapter).
7. Cables:
 - 2 x USB Cables
 - 1 x HDMI to DVI
 - 1 x Audio Cable (Mini Jack to Cinch)
8. Power strip
9. Bass speaker
10. Computer Shutdown and Startup Controller (CSSC)
11. CSSC control cable
12. Screws:
 - 4 x Metal screws
 - 6 x Wood screws
 - 4 x Long wood screws
13. Scoring cards

Tools needed:

- Screw drivers (Phillips head and small flat head)
- Pliers
- Screw gun with a metal drill bit

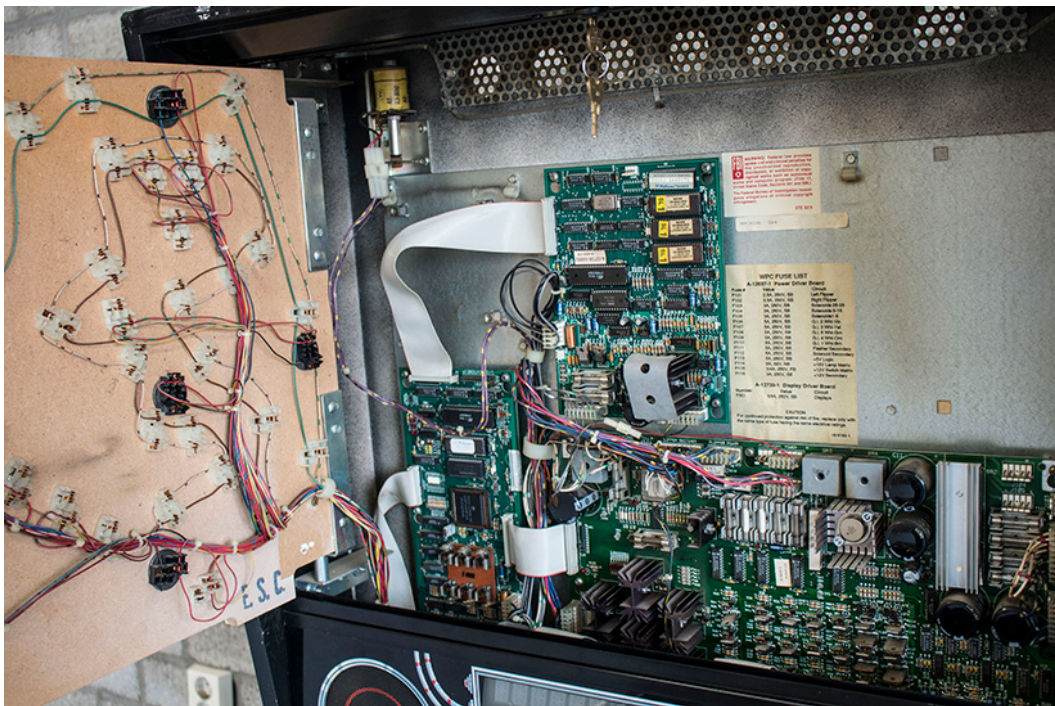
Step 1: Unplug the power cable

VERY IMPORTANT!!

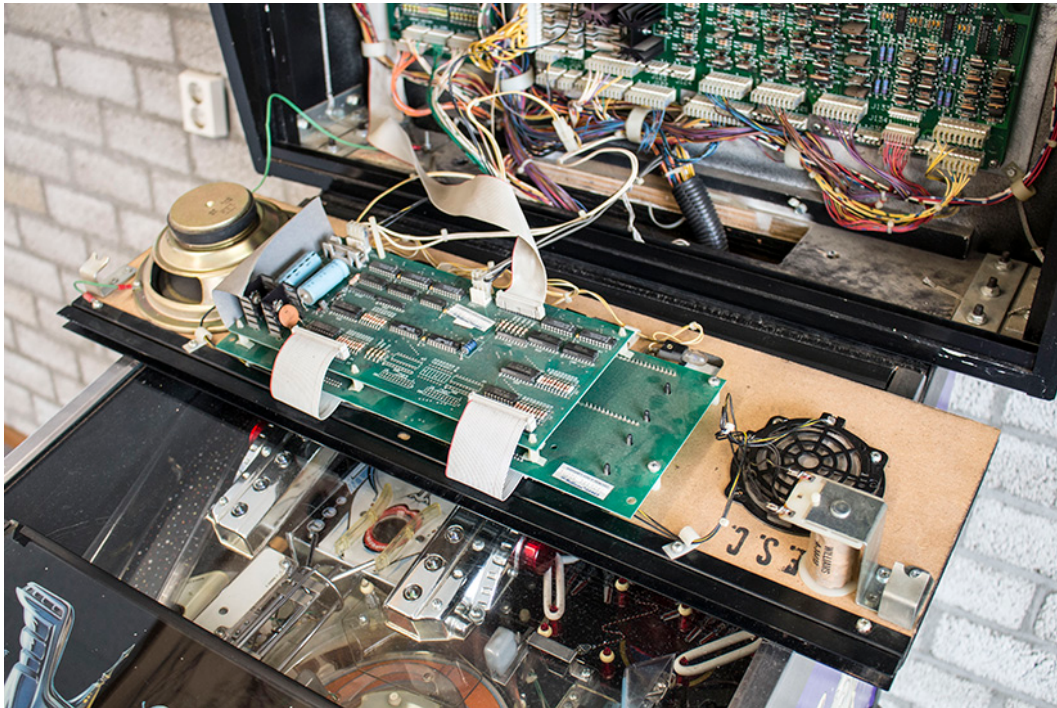
Some of the modifications involve high voltage, so make sure you unplug the power cable!!
(Plug may be different depending on your county).



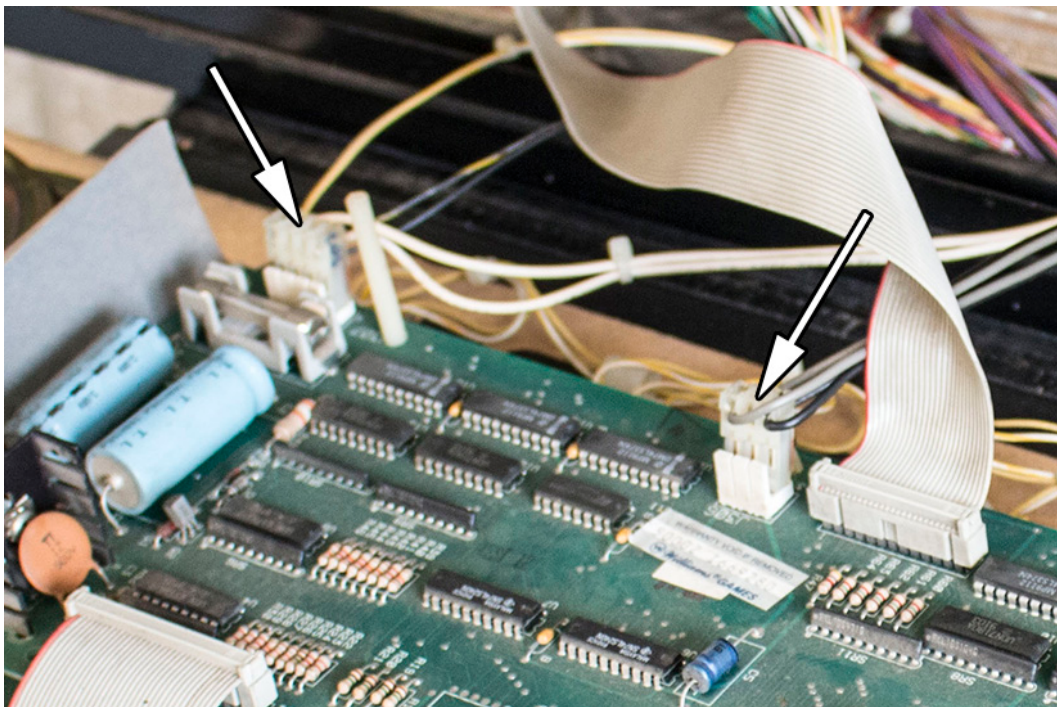
Step 2: Remove backglass and open backbox door



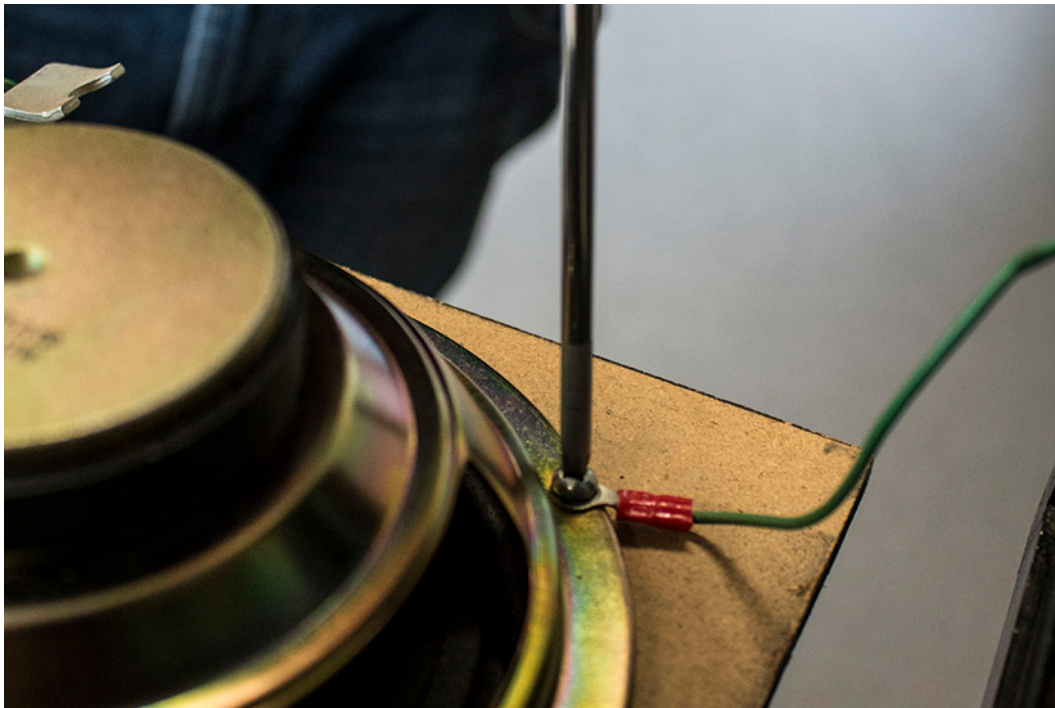
Step 3: Remove speaker panel and disconnect all cables



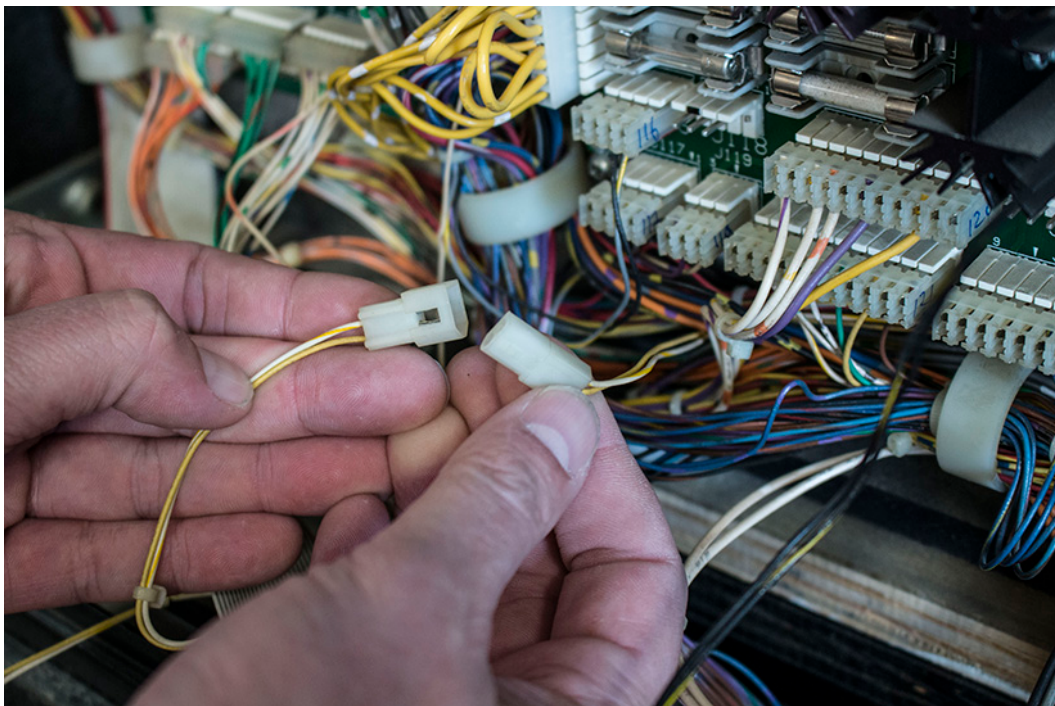
Step 3a: Remove these 2 connectors:



Step 3b: Remove this cable from the speaker:

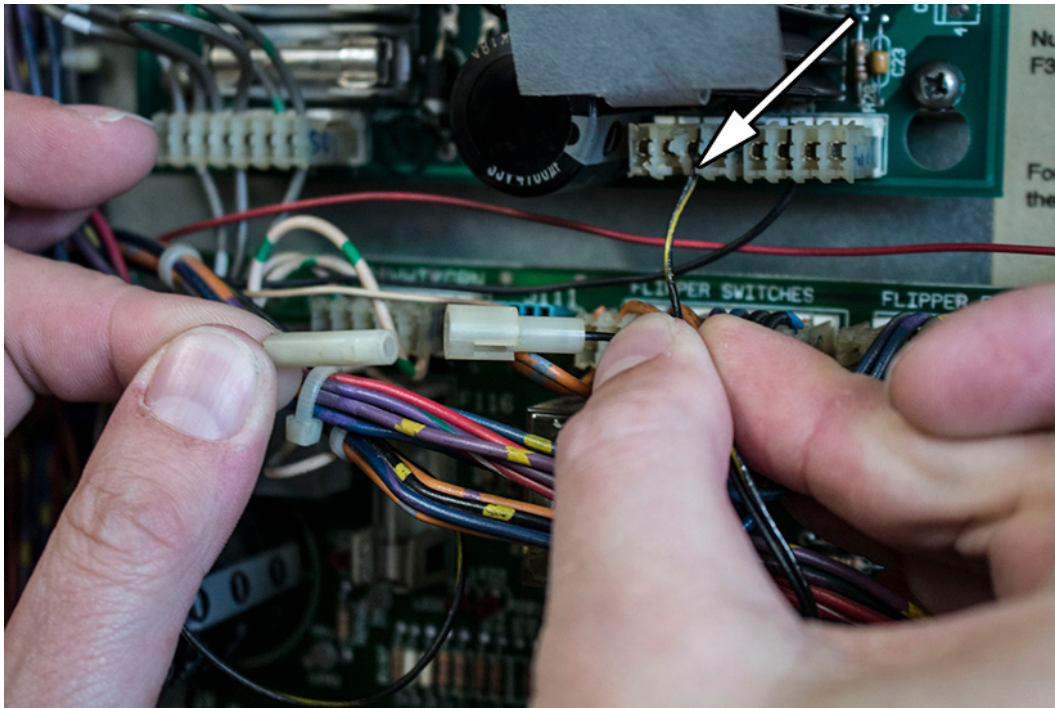


Step 3c: Disconnect this clip:

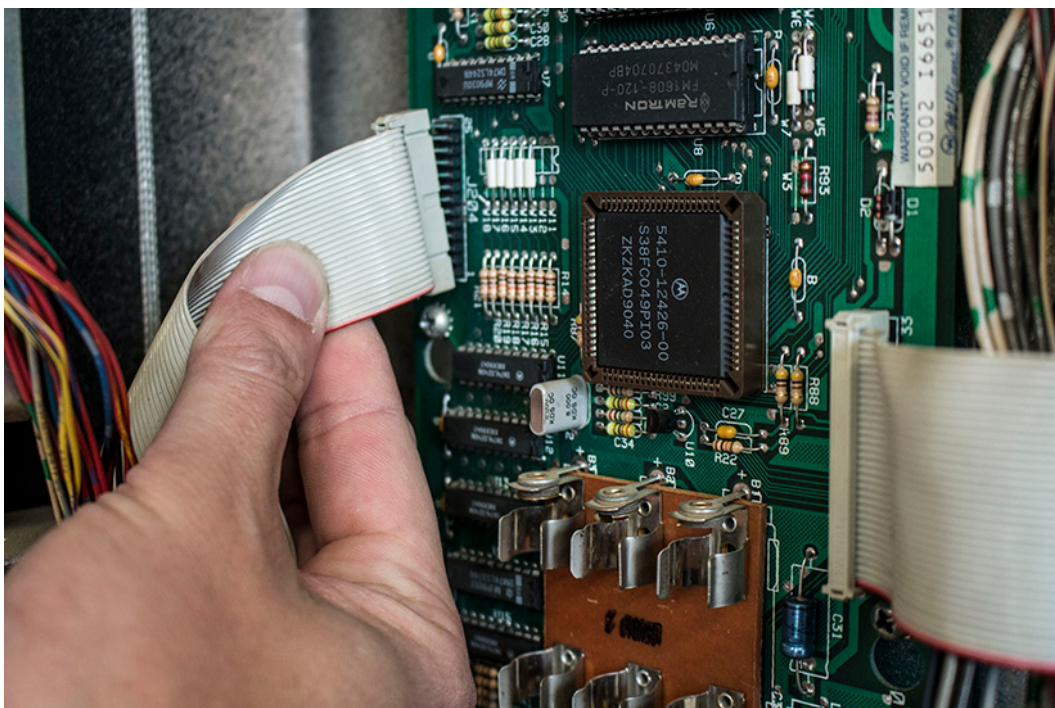


Step 3d: Disconnect this clip:

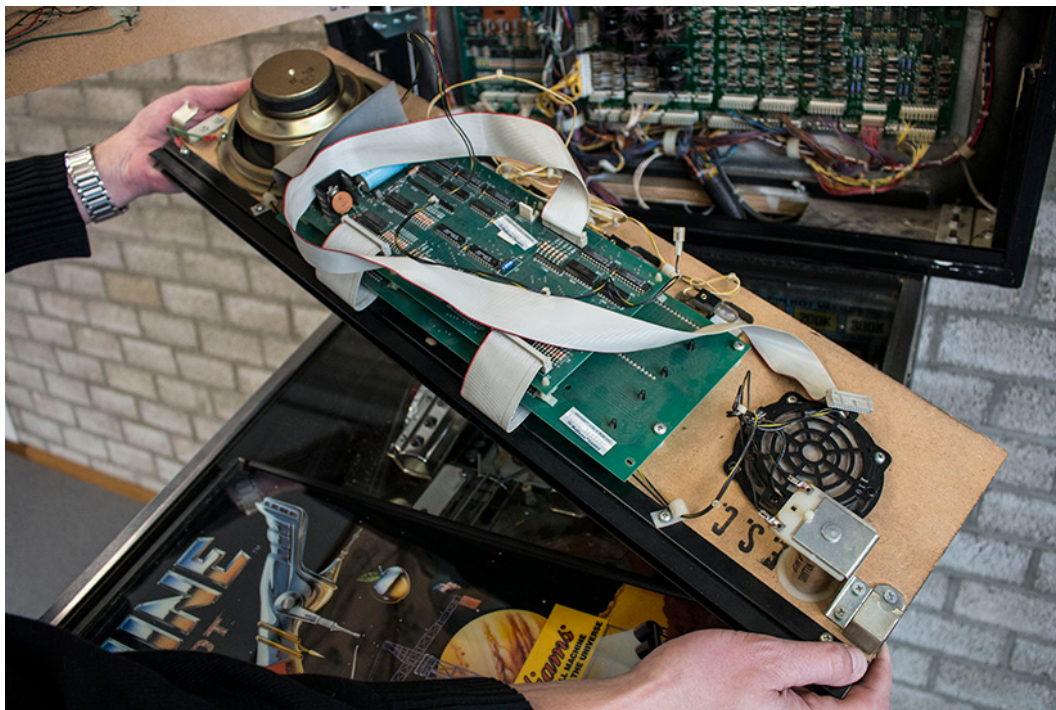
Cut / Remove this wire



Step 3e: Remove flat cable:

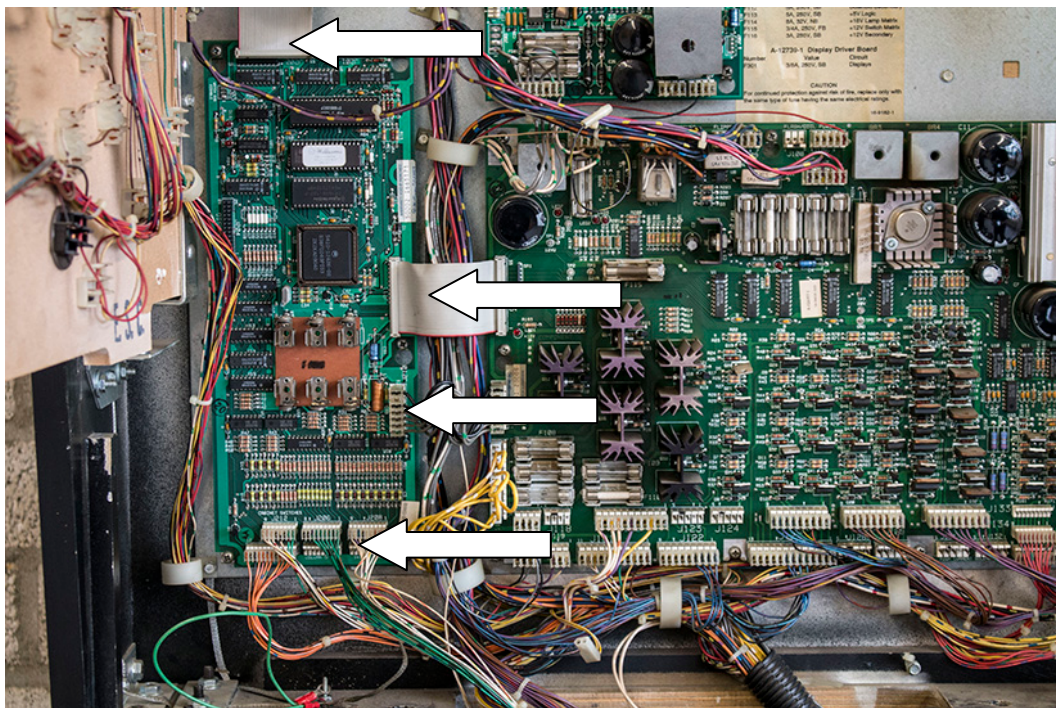


Step 3f: Now you can completely remove the old speaker panel:

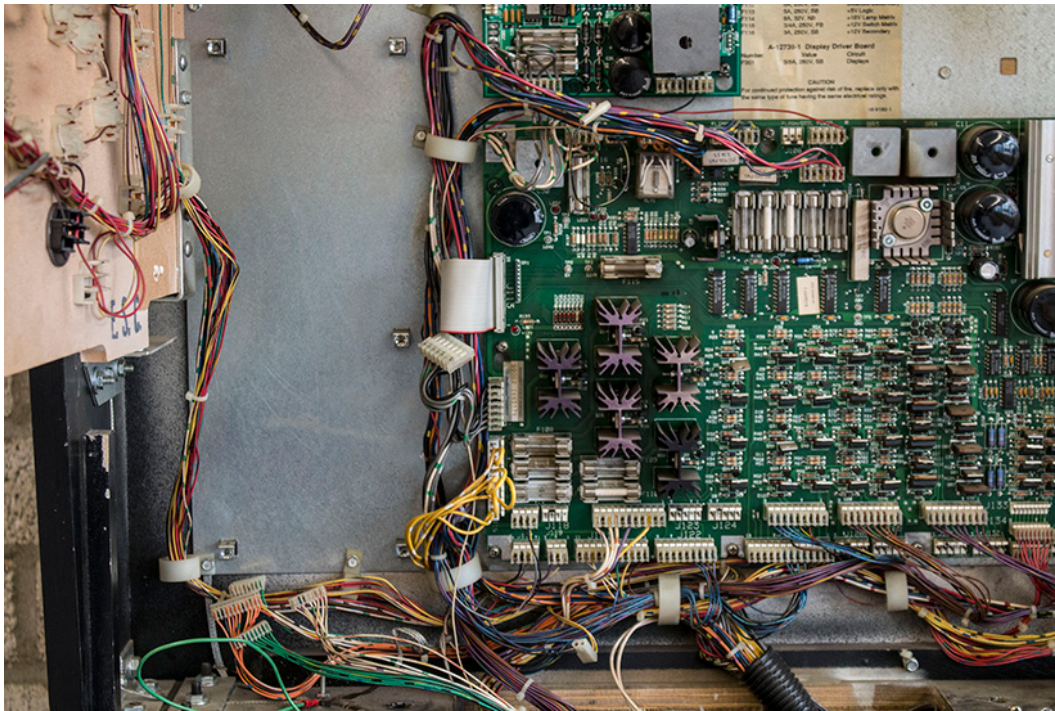


Step 4: Remove CPU board

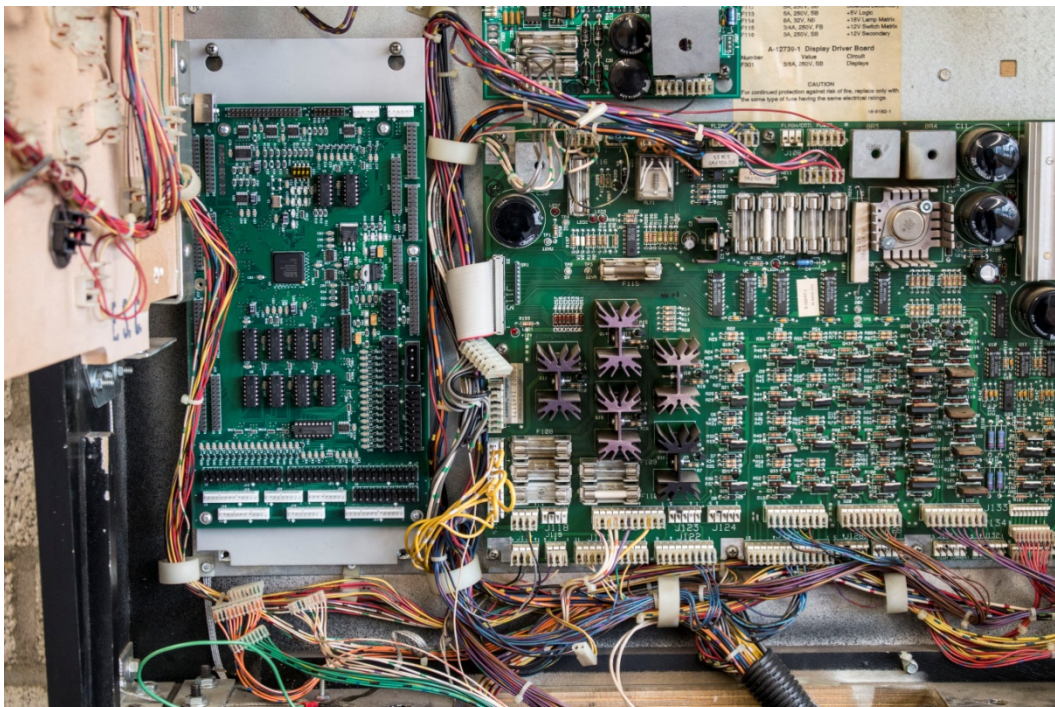
Carefully remove all the cables from the CPU board.



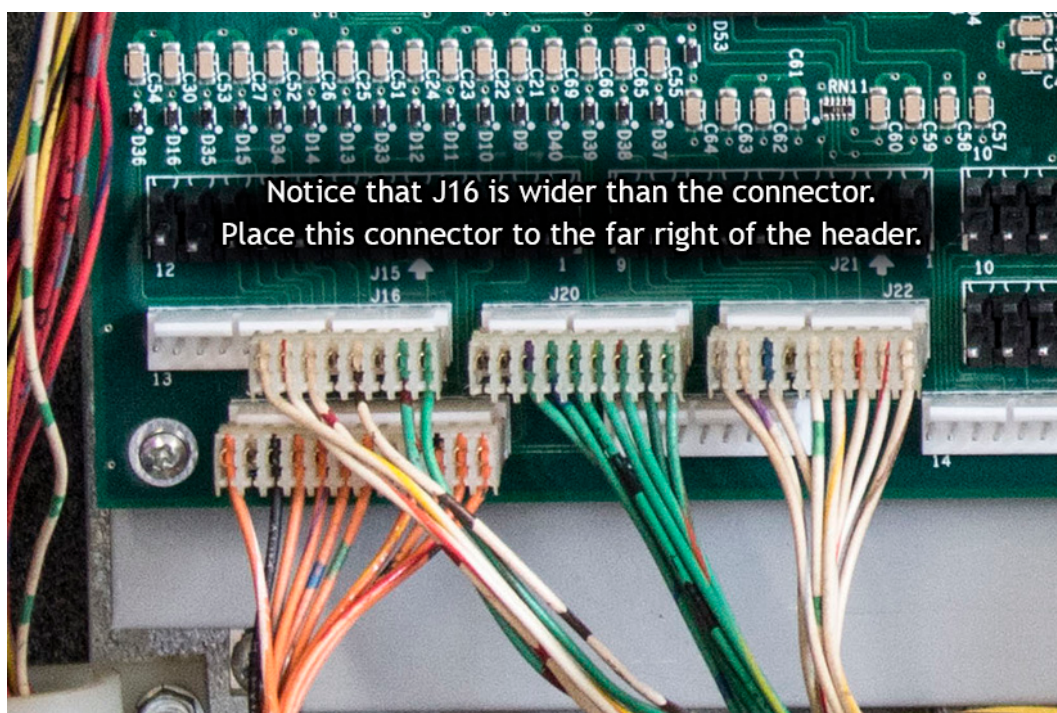
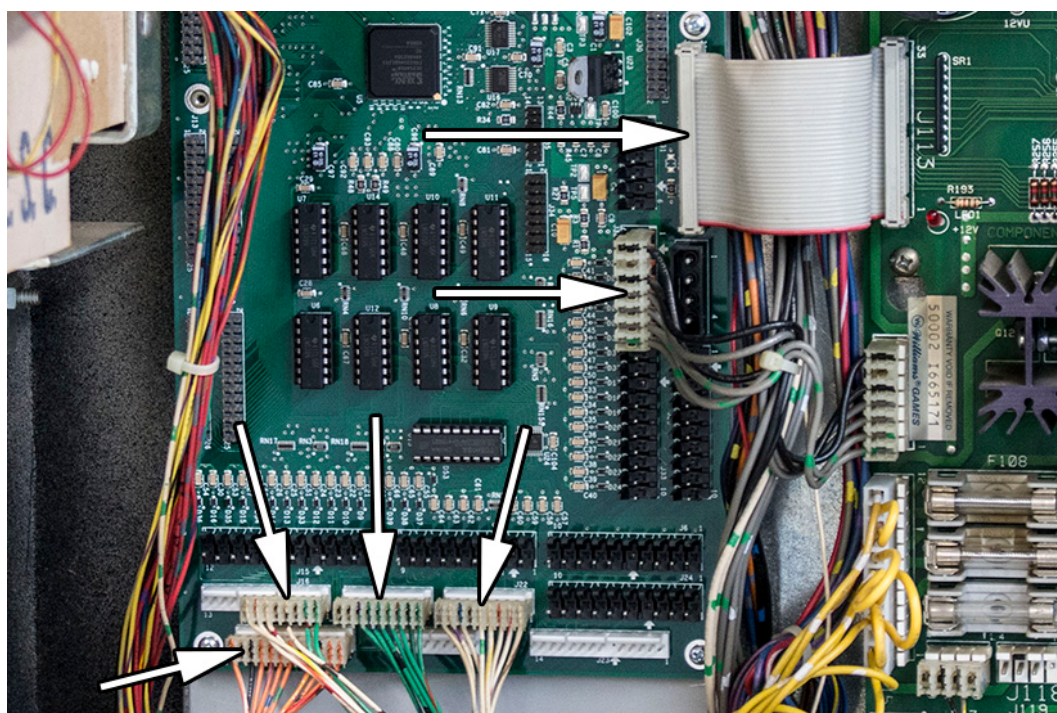
Step 4a: Unscrew the CPU board and remove it:



Step 5: Mount P-ROC and connect cables:

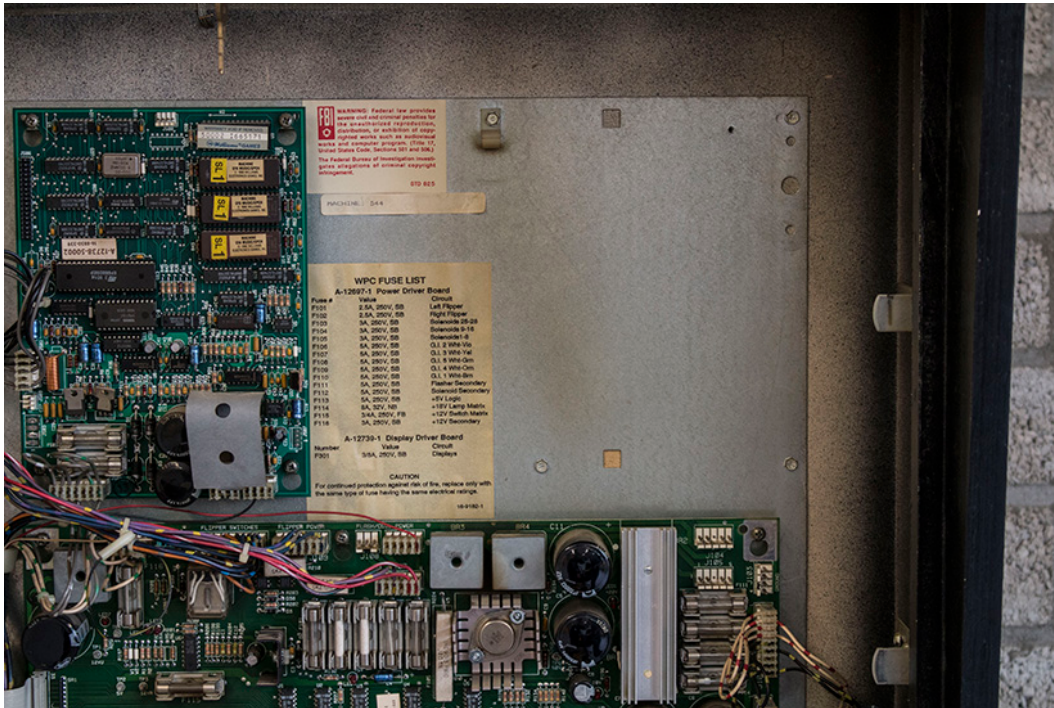


Step 5A: Connect these cables (6 in total):



Step 6: Mount PC mounting plate

Please note: PC model and mounting plate may vary depending on your location.



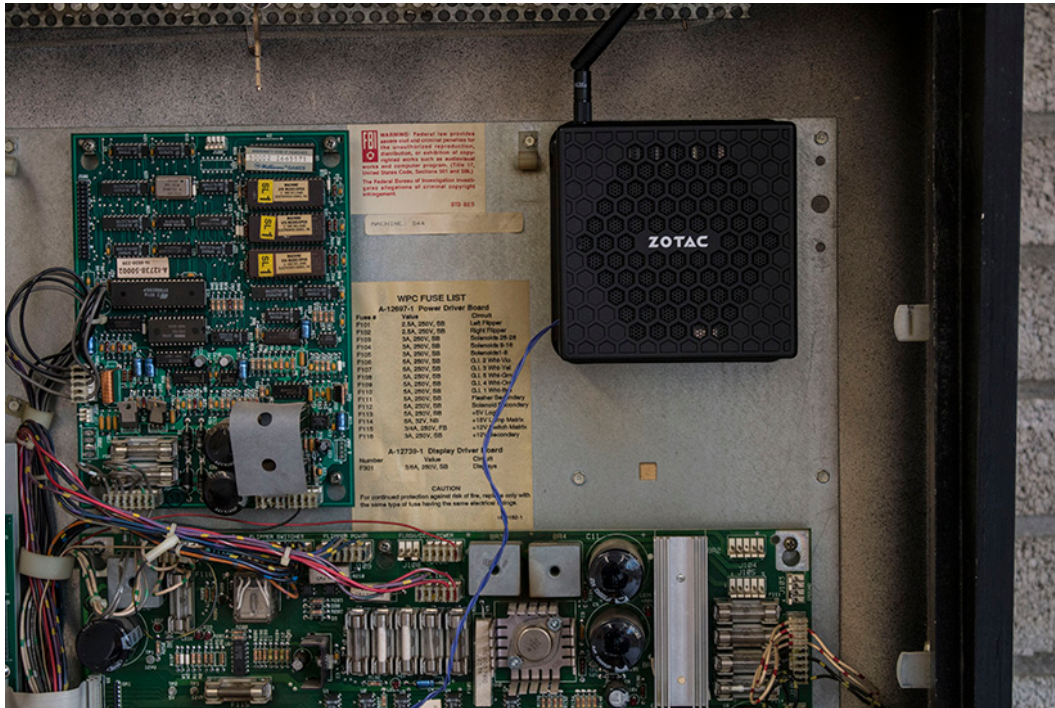
Step 6A: Drill some small holes with small metal drill.

CAUTION: make sure the metal drilling shreds don't fall into the backbox).



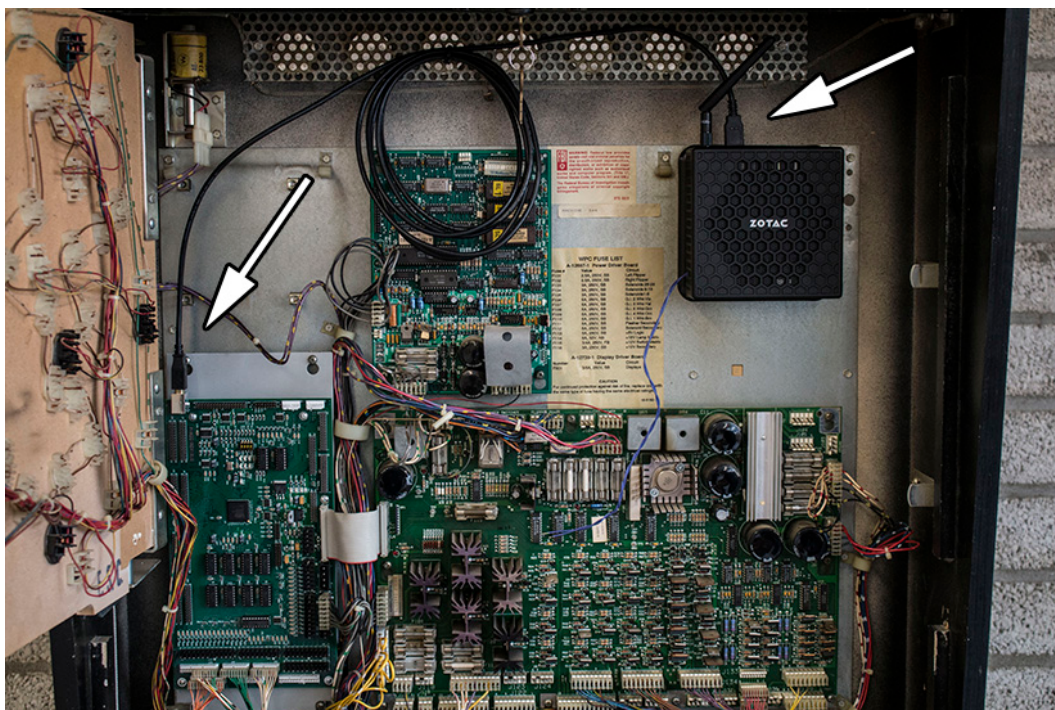
Step 7: Mount PC on mounting plate.

Please note: PC model may vary depending on your location.



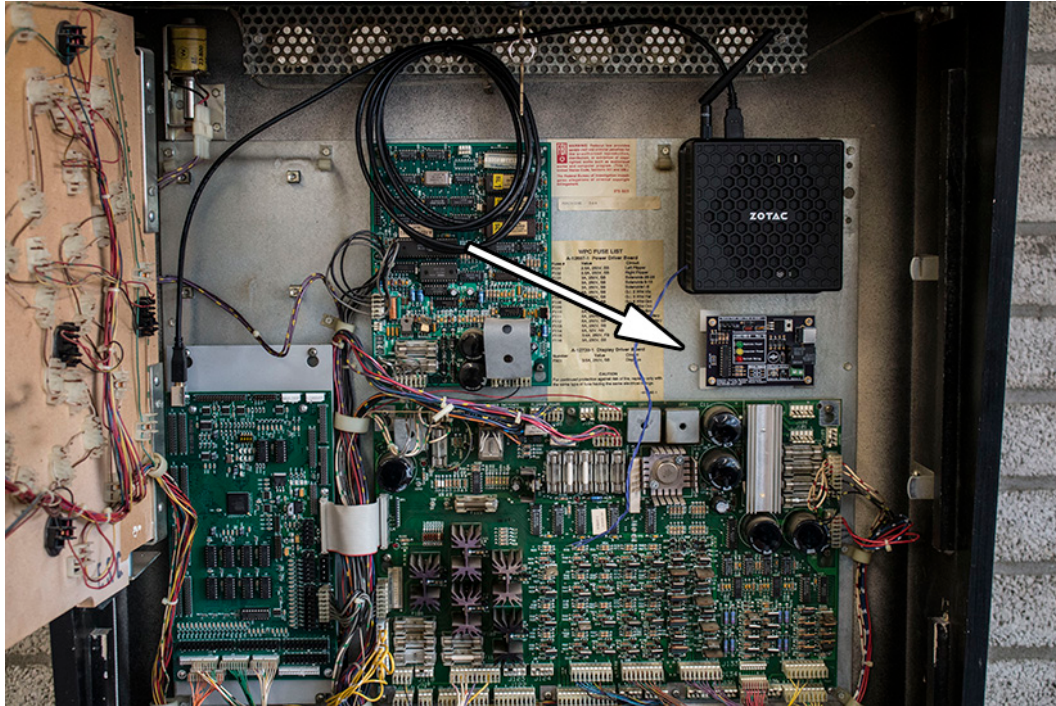
Step 8: Connect USB cable from PC to P-ROC

Use a zip tie to fix USB cable



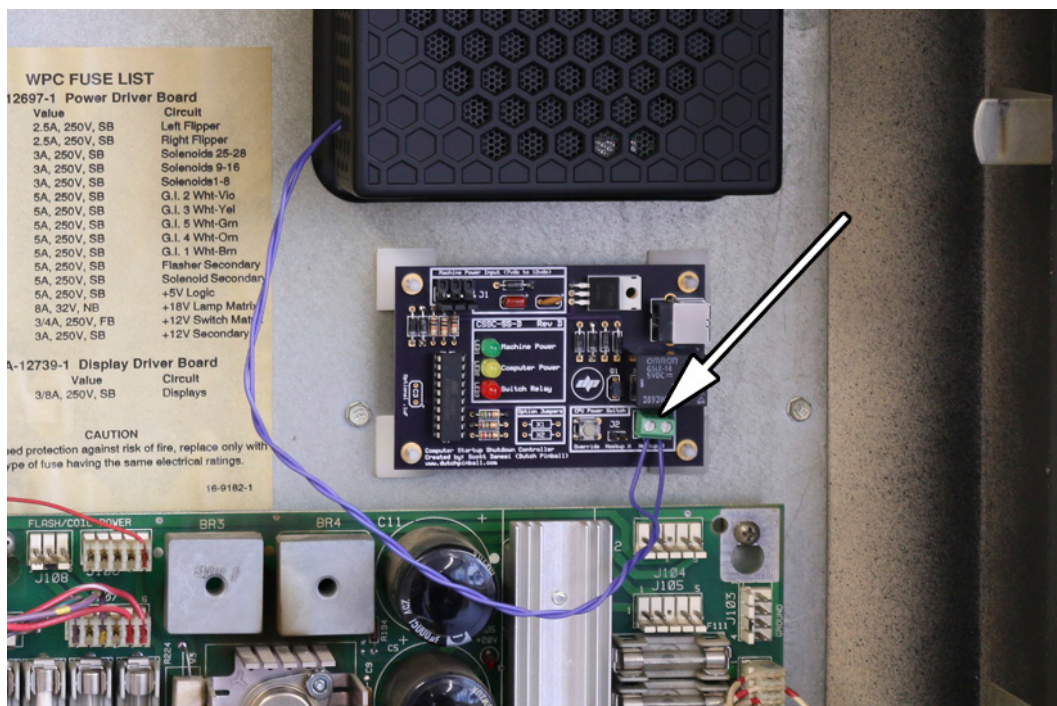
Step 9: Mount CSSC

Mount the 'Computer Startup and Shutdown Controller (CSSC)' with self adhesive spacers (clean surface).

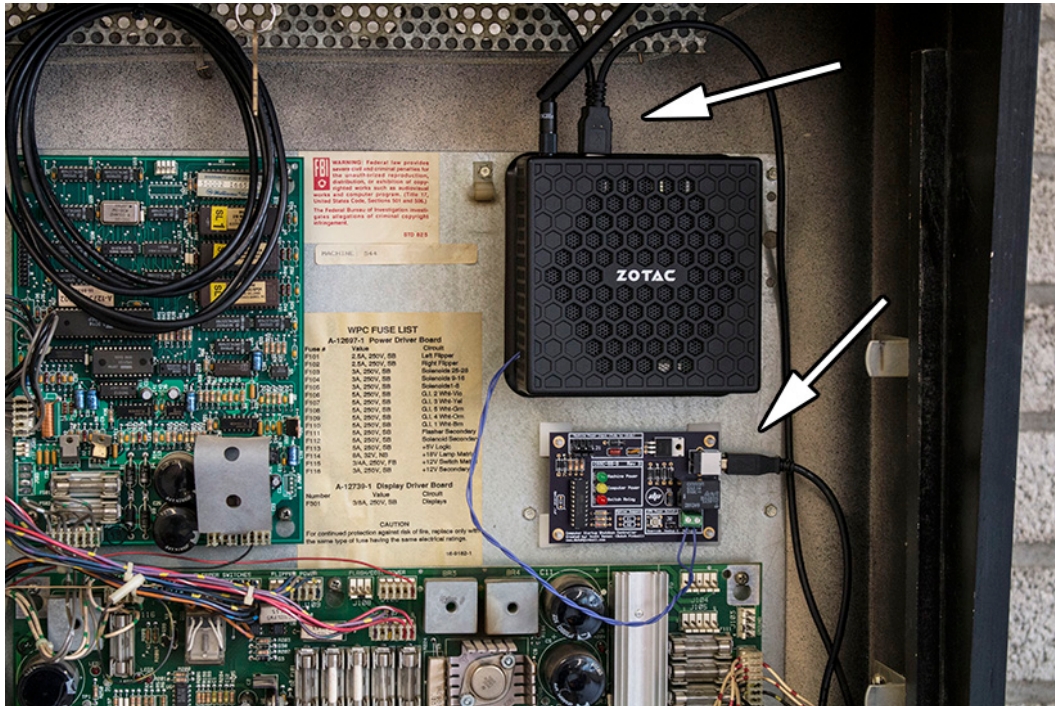


Step 10: Connect PC to CSSC.

Connect the cables coming out of the PC to the CSSC (Hookup B).

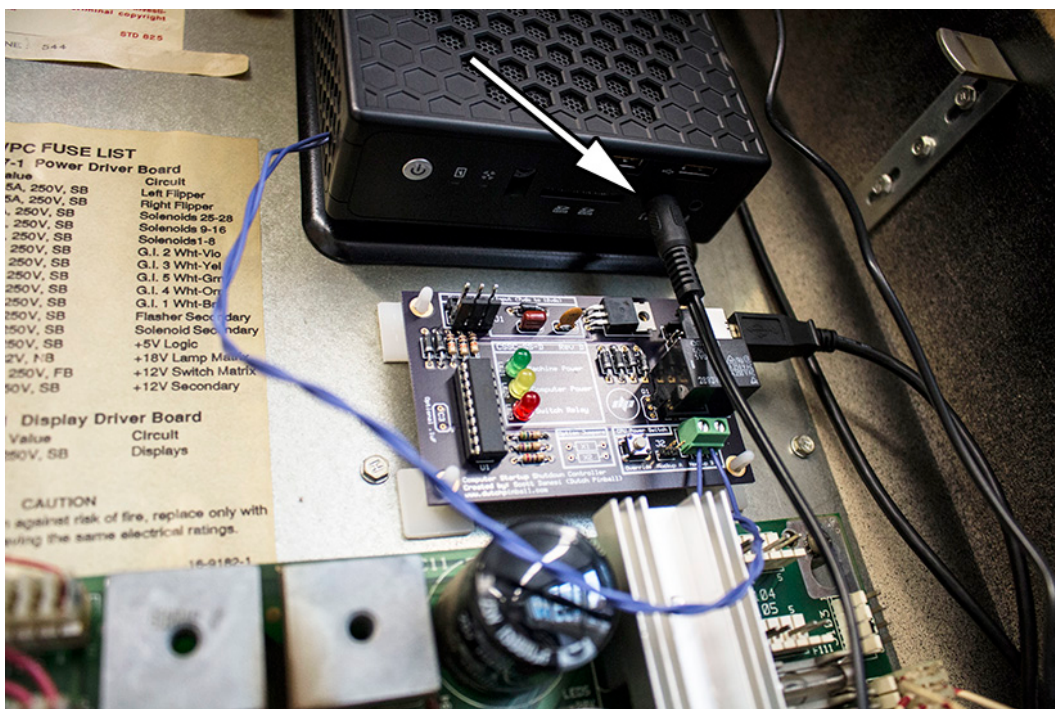


Step 11: Connect USB cable from CSSC to PC.



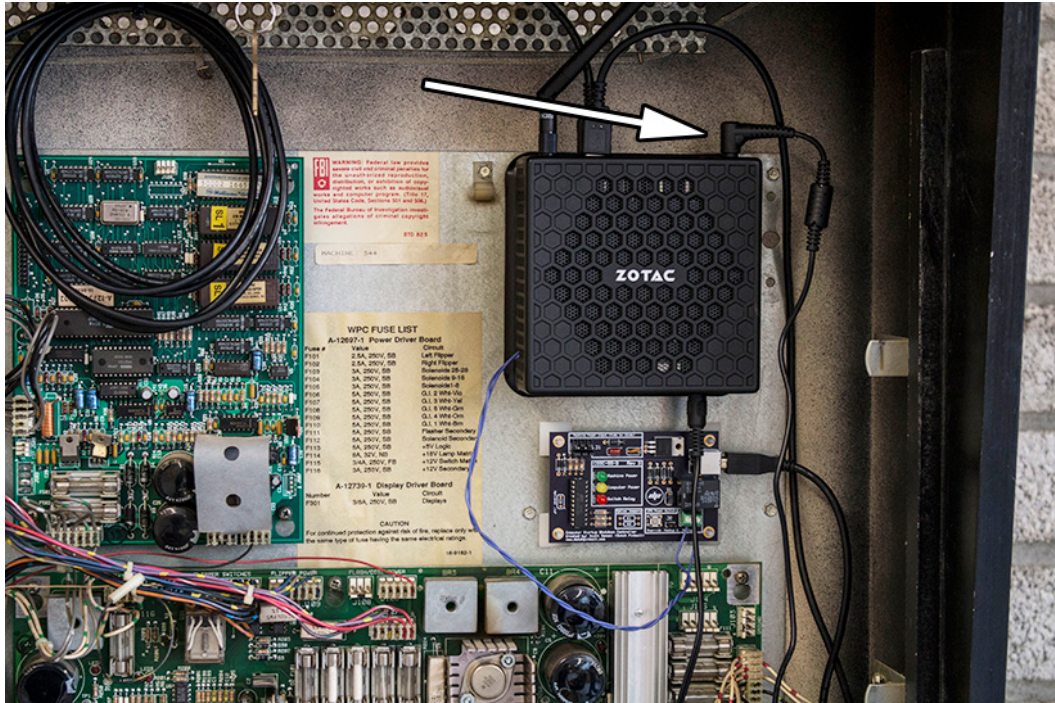
Step 12: Connect audio cable

Insert audio cable mini jack in PC and feed the other side of the cable down* into the cabinet.
(*this cable will connect to the amplifier inside the cabinet).



Step 13: PC Power

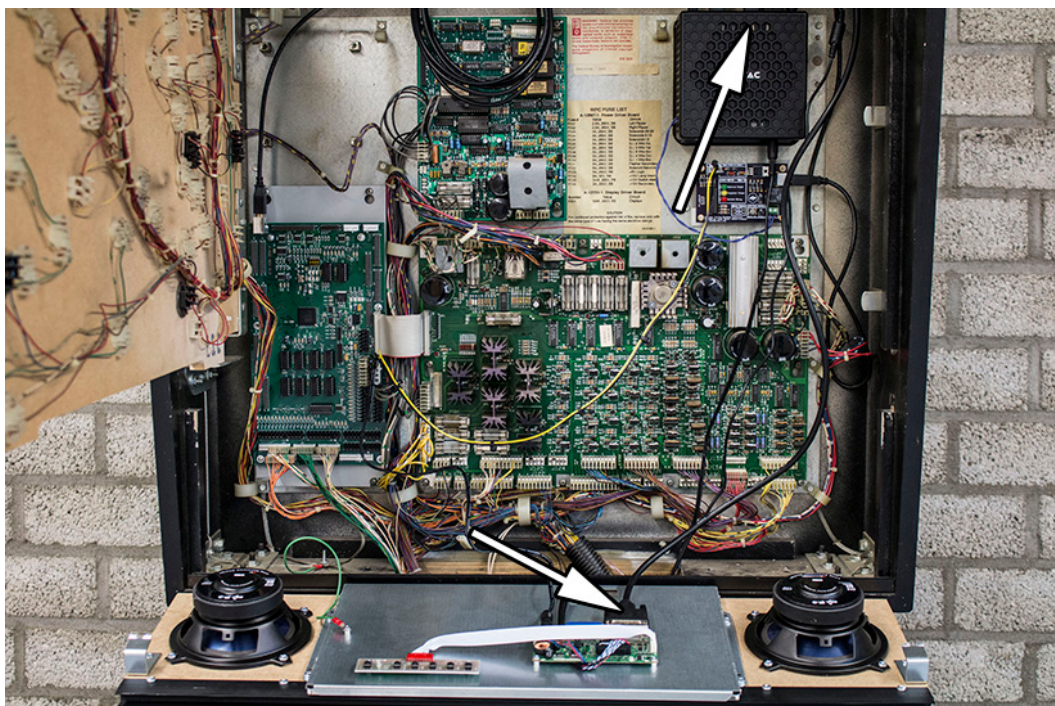
Insert power cable and feed the other side of the cable (including the power supply) down into the cabinet.



Step 14: Display cable

Put the new speaker panel on cabinet and connect the HDMI/DVI cable from PC to display.

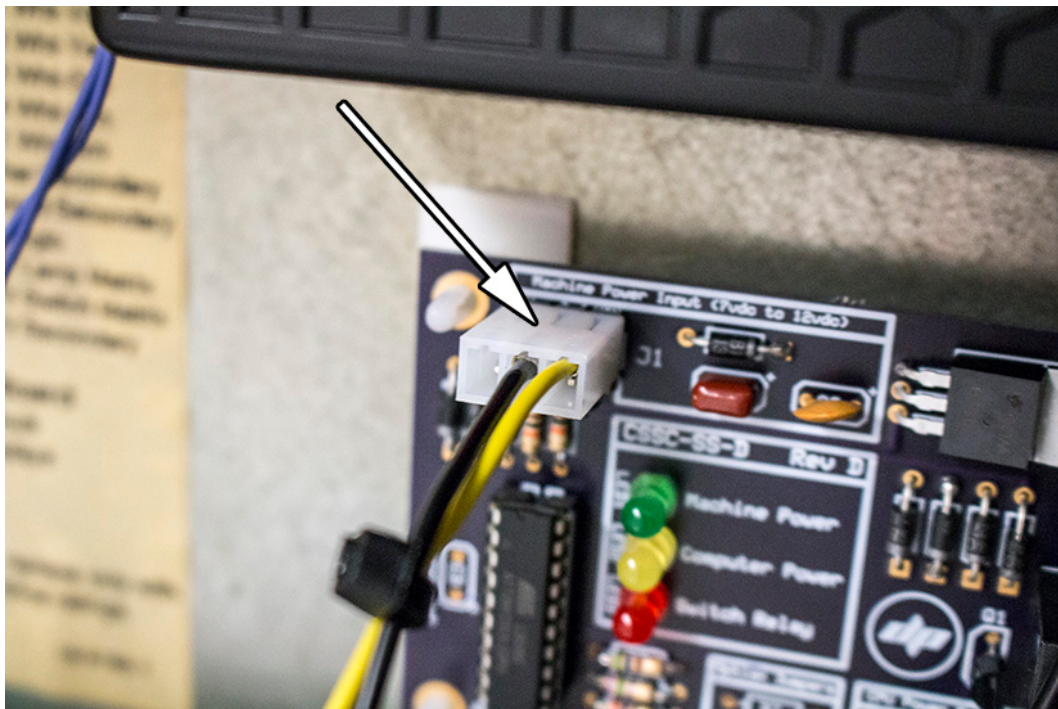
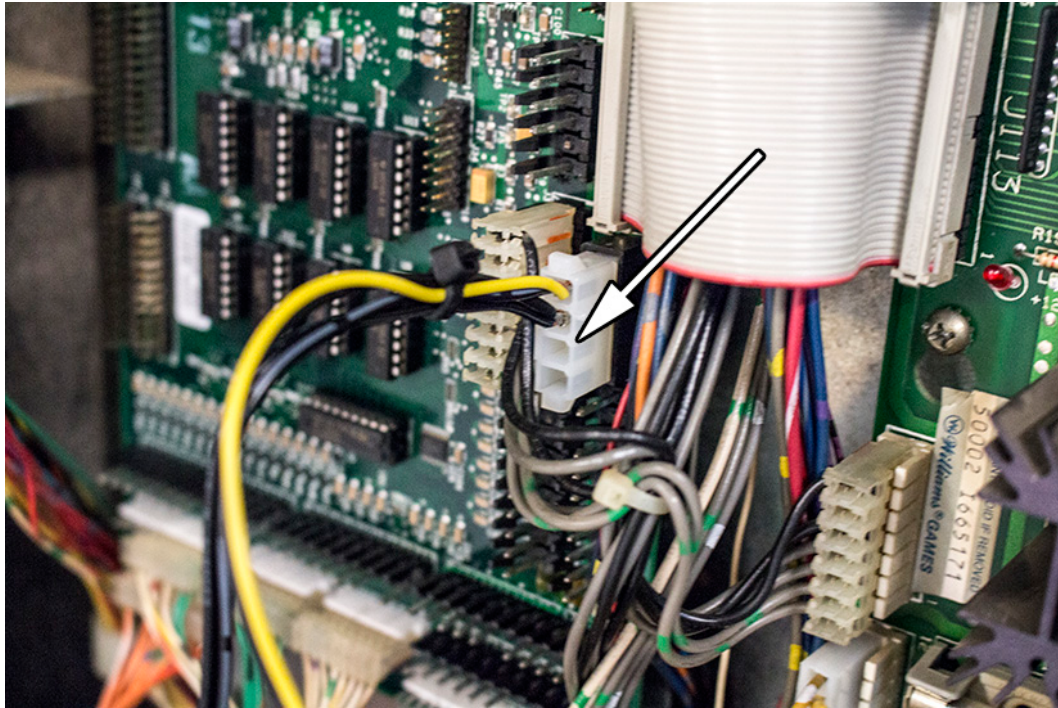
Please note: The speakers and cables might be different depending on your location.



Step 15: Connect CSSC cable

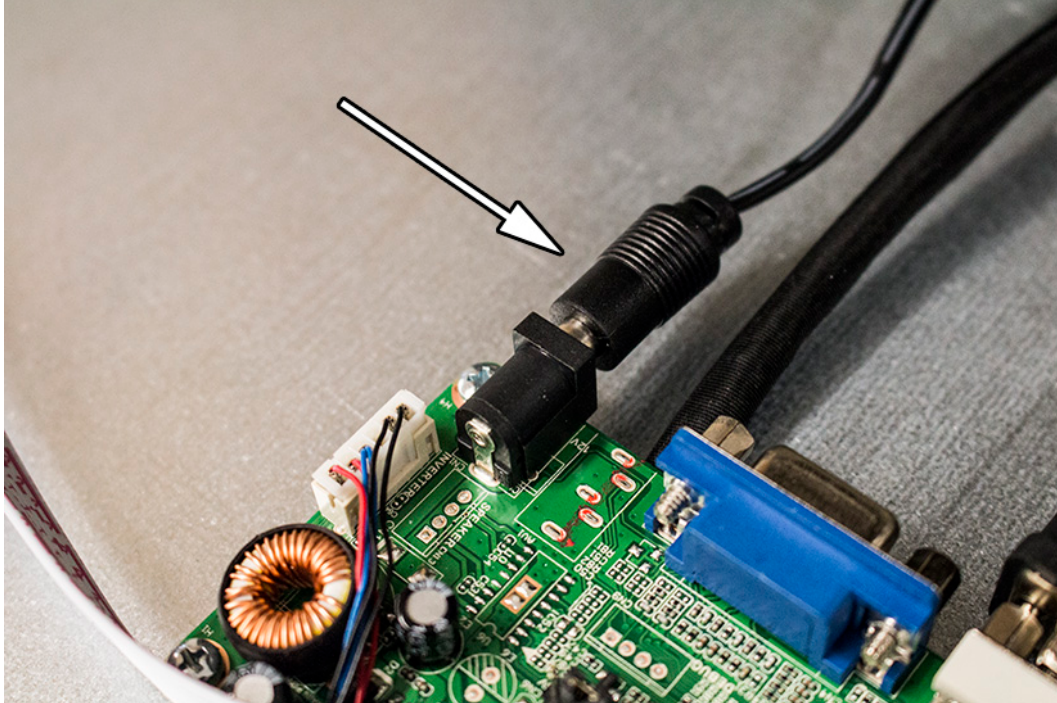
Connect the (new) CSSC cable from P-ROC to the CSSC.

Please note: The CSSC cable may look a bit different depending on your location, or kit version. The connectors are the same though.

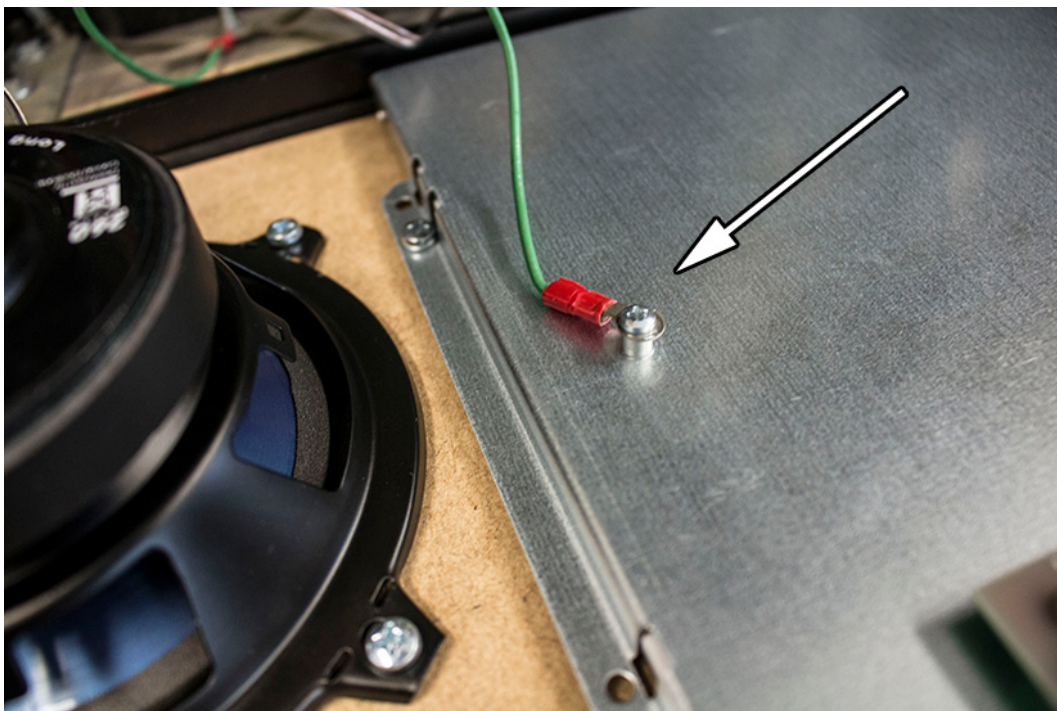


Step 16: Display power and ground

Insert power cable and feed the other side of the cable (including the power supply) down into the cabinet.



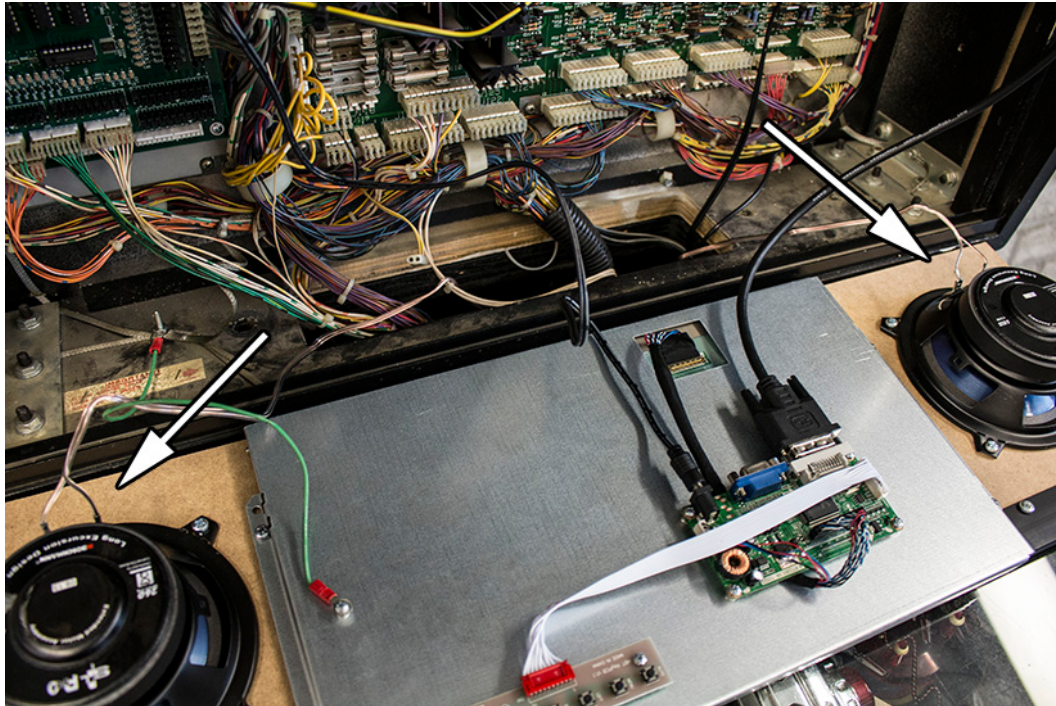
Step 17: Connect the ground cable to display bracket



Step 18: Speaker cables

Feed the speaker cables down into the cabinet.

(Before feeding cables into cabinet label the end of the speaker cables left and right).



Step 19: Put speaker panel in place!



Step 20: Remove lock bar and playfield glass.

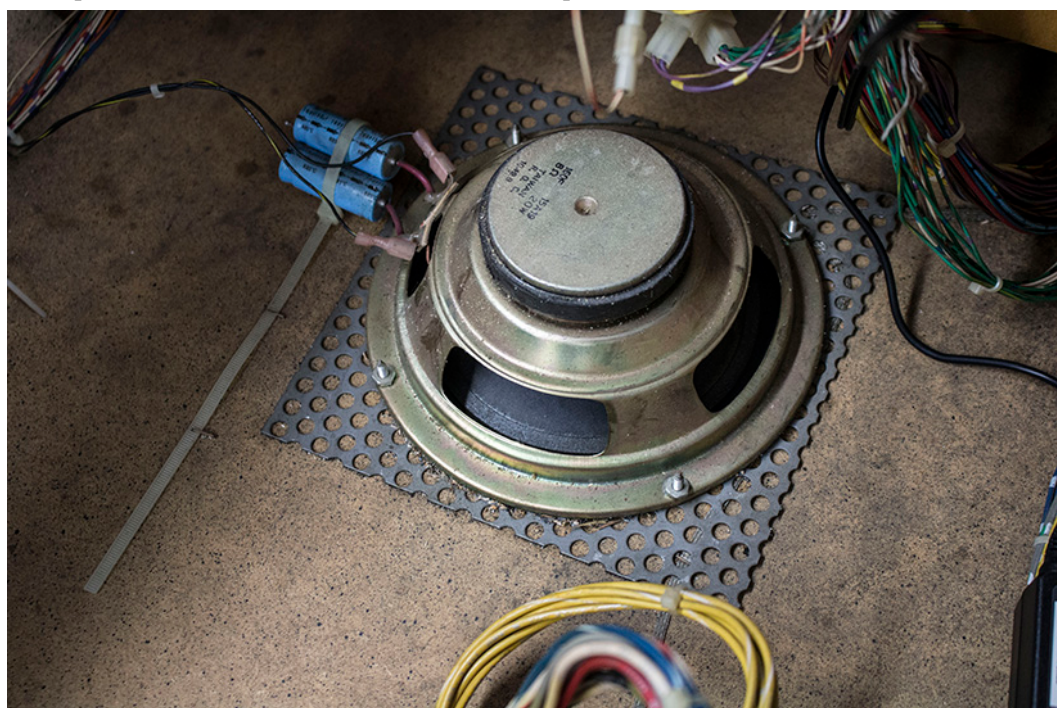
Remove the balls and open the playfield.

Step 21: Carefully pull all new cables to front

5 cables in total: PC power cable (including the power supply), Display power cable (including the power supply), audio cable and the two speaker cables).

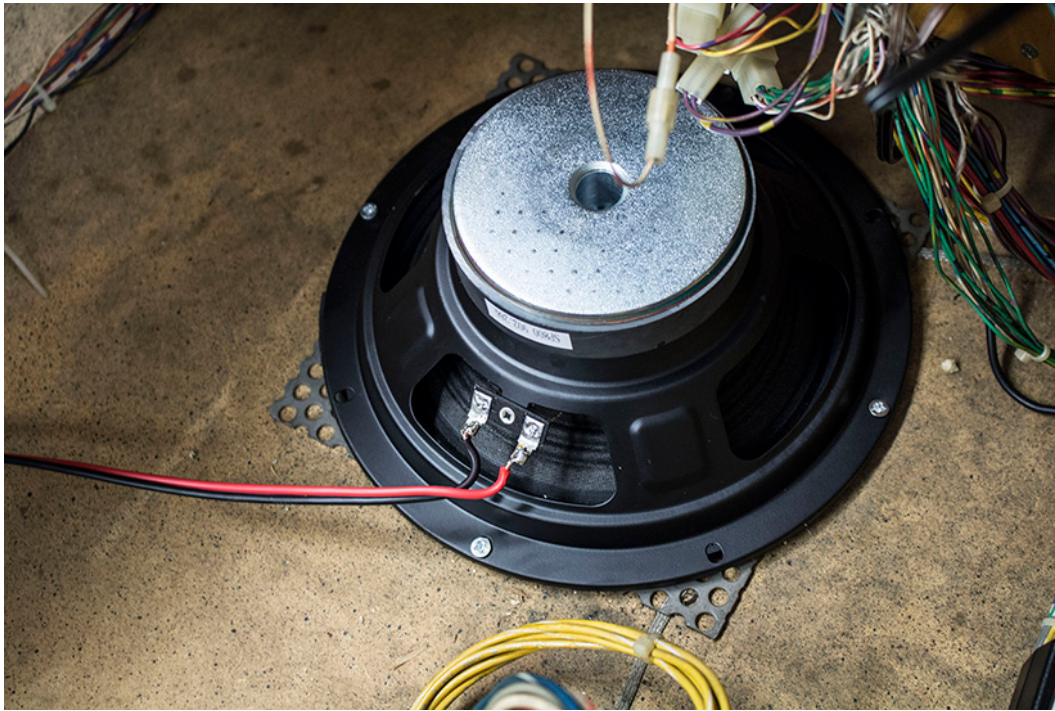


Step 22: Remove old bass speaker



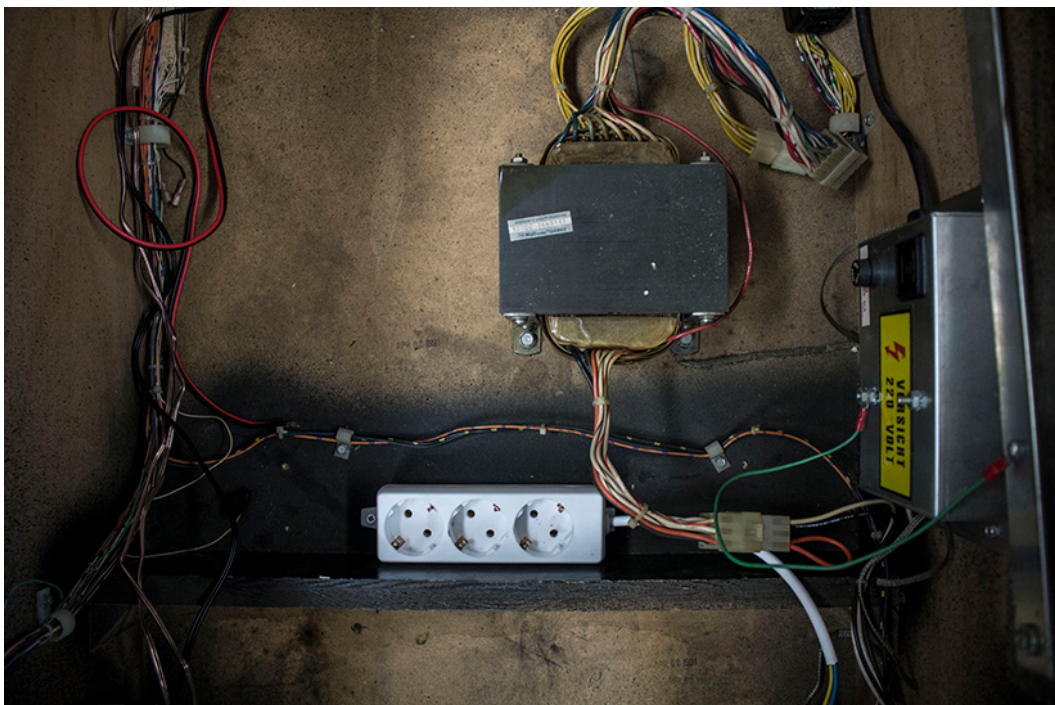
Step 23: Install the new bass speaker

Mount with the 4 long wood screws.



Step 24: Install power strip

Put the power strip into place with the small wood screws. The power strip may be different depending on your location. In this example we use a European power strip:

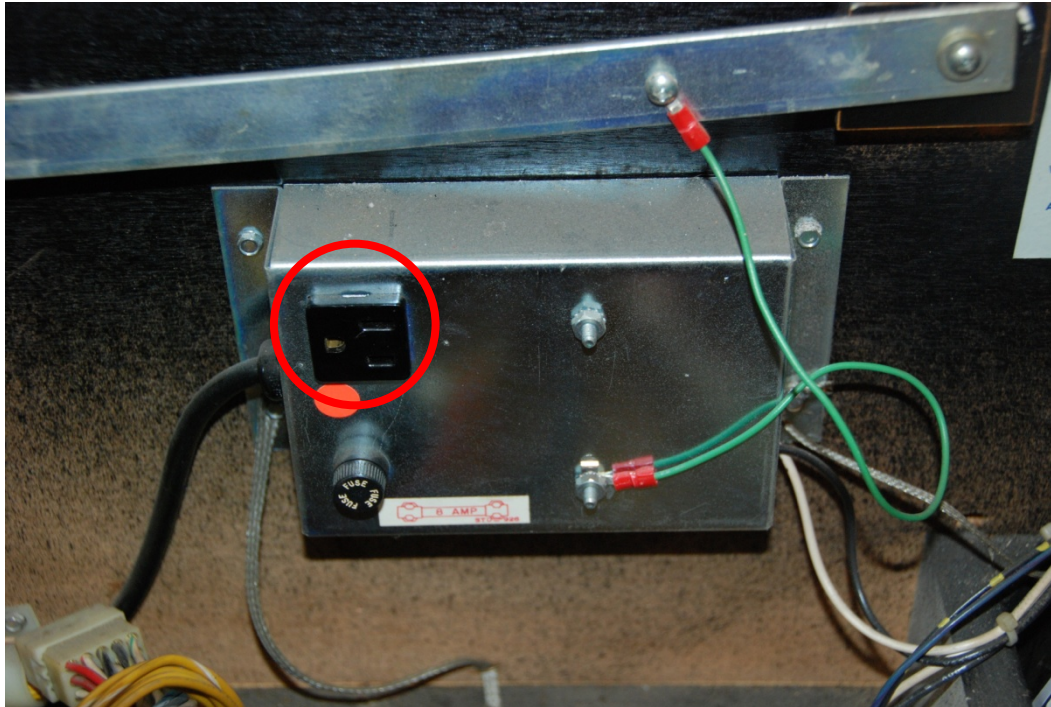


Step 25: Connect power strip

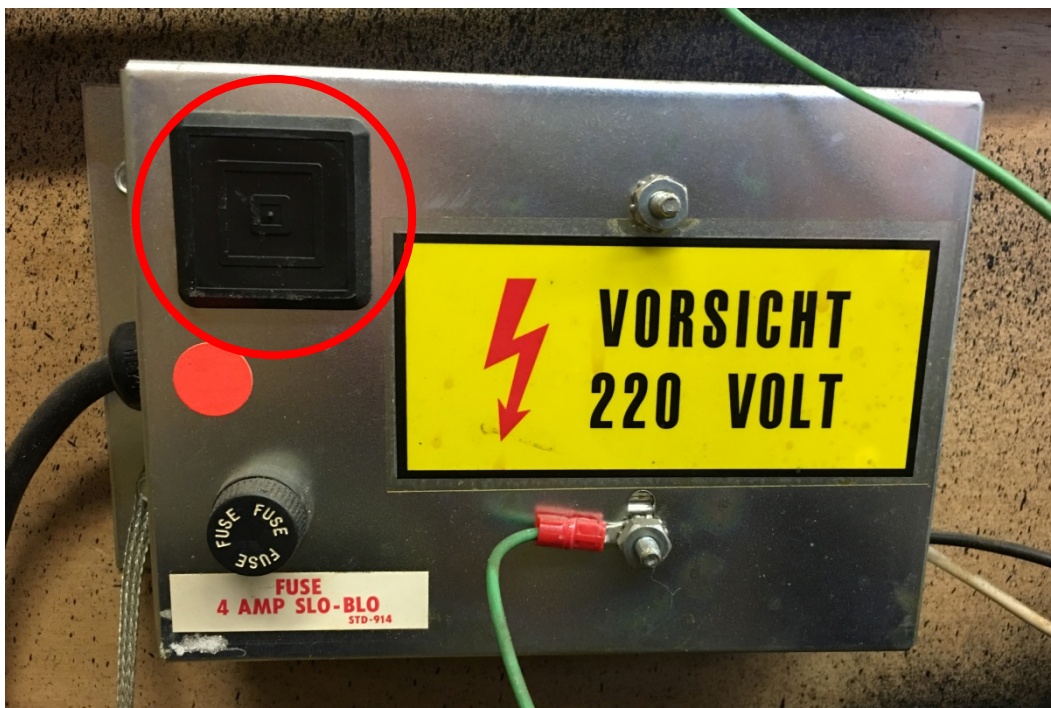
Please note:

There are two versions of the Utility Outlet boxes on the Bride of Pinbot:

1. US version with an Utility Outlet:



2. Non-US version without an Utility Outlet:



If you have a US version with the Utility Outlet, connecting the power strip is easy. Just plug it into the Utility Outlet and you're done!

After you plugged in the power strip, **skip to step 27.**

If you have a non-US version and don't have the Utility Outlet, please continue with Step 25 and make sure the power cable of the machine is not plugged in.

Caution:

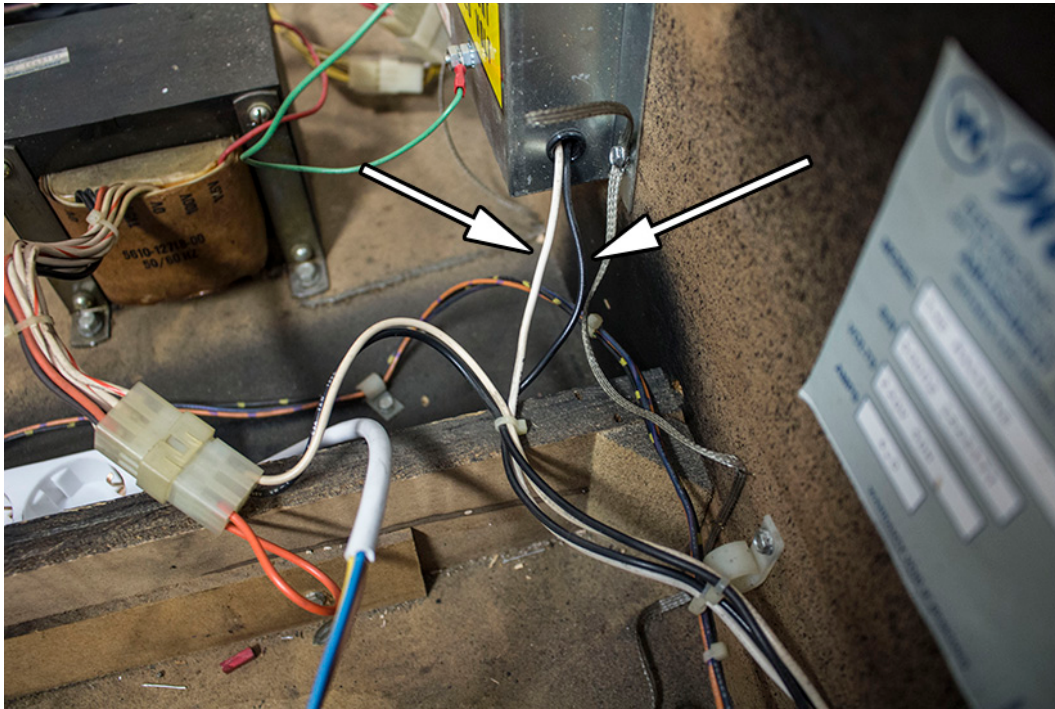
In the next step you have to connect the power strip to the power cables from the machine. We have to use the “live” power cables to make sure the PC always has power. We do this because we don’t want to shut down the PC when you flip the power switch on the machine.

So please be 100% sure that the main power cable of the machine is not plugged in!

Just turning the power off is not enough!

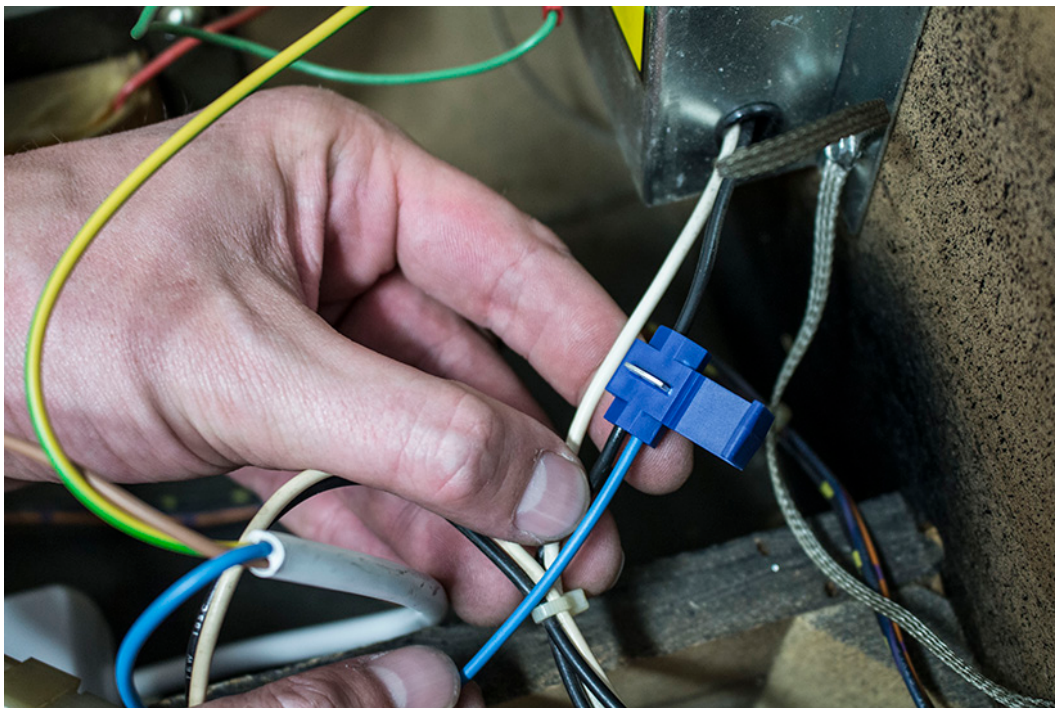
Step 25a: Locate power cables

The power cables are the black and white cables coming out of the Utility Outlet box:

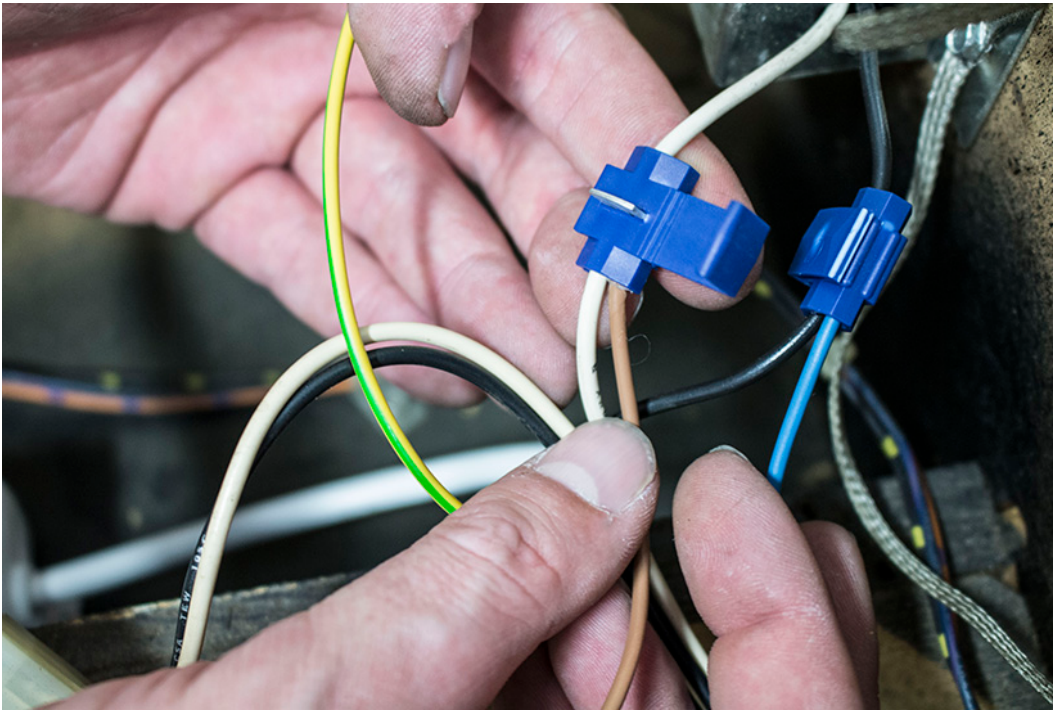


Step 25b: Put the clips on the cables

Put the clips on the cables as shown, but don't strip the cables!!



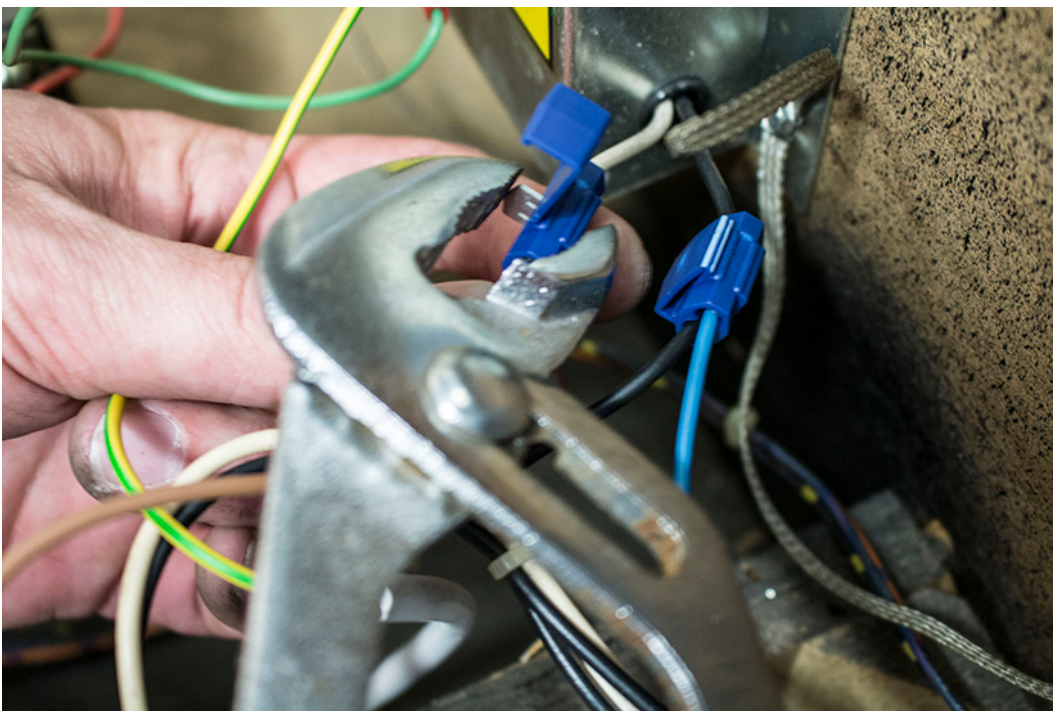
Connect the brown cable from the power strip to the white cable. And blue to black:



Step 25c: Connect the cable clips to the power cables

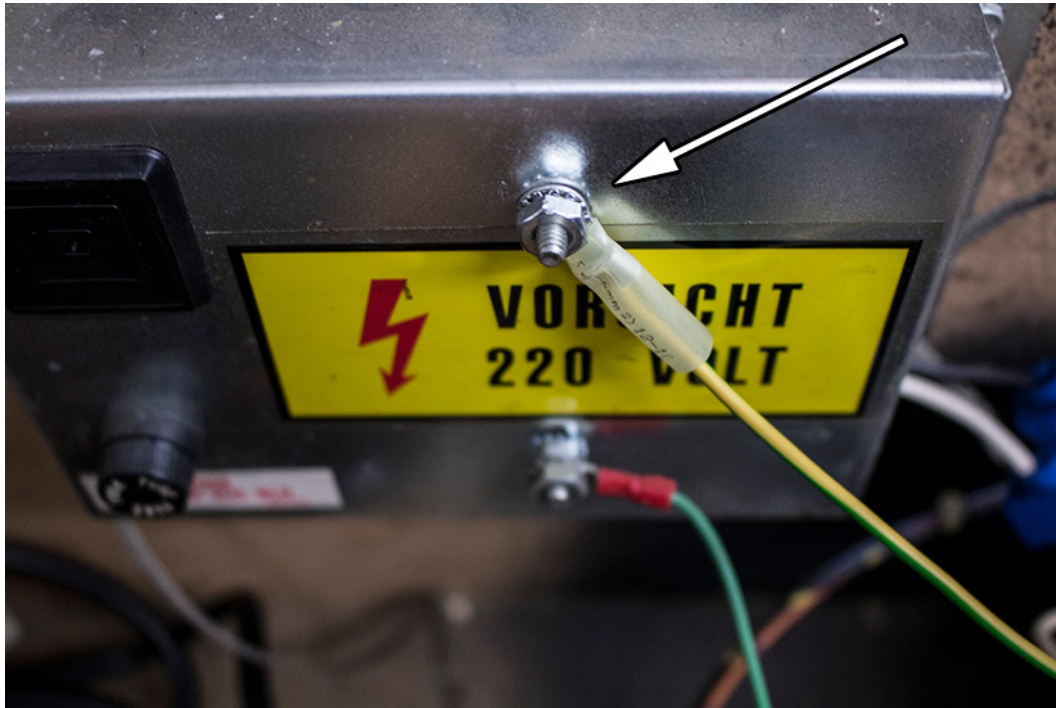
Use strong pliers to push the metal piece on the cables and close the clip.

CAUTION: Please ask for help if you're not comfortable doing this.



Step 26: Connect the ground

Connect the (yellow/green) ground cable from the power strip to the service outlet.



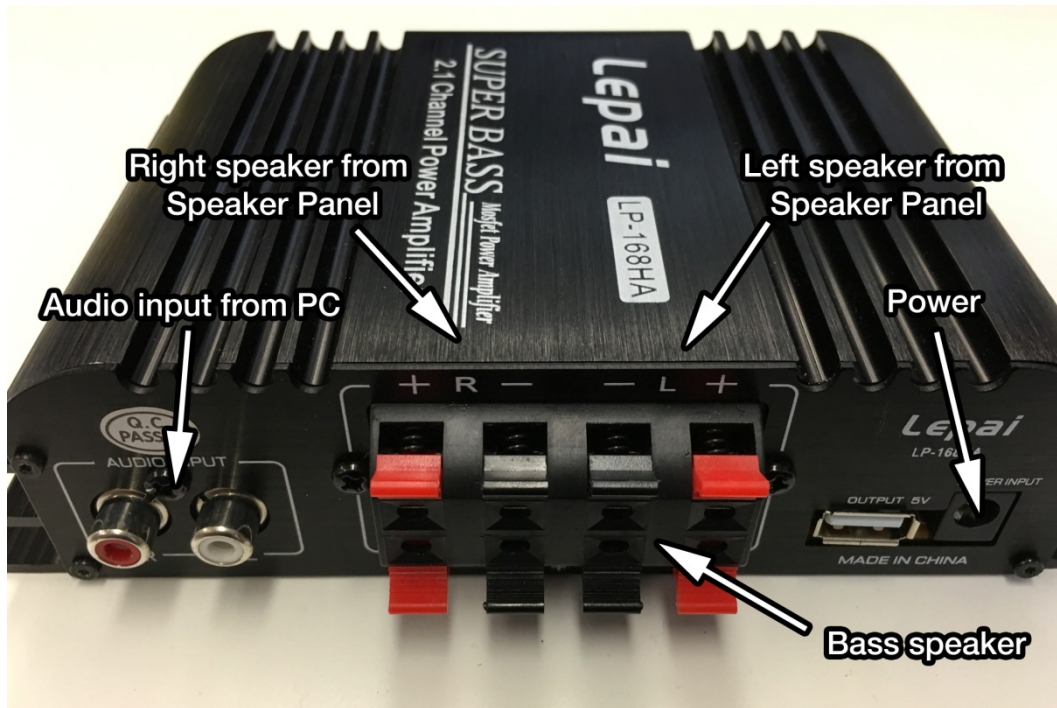
Step 27: Connect PC and display power

Connect the PC and display power supplies and plug them into power strip:



Step 28: Connect amplifier power supply

Plug the 12V adapter in power strip and plug into amplifier. Connect all cables to the amplifier:



Step 29: Mount the amplifier

Put amplifier in place and mount it with 4 short wood screws. (we've mounted it in the front of the machine, but it can be placed elsewhere).



Step 30: Turn everything to zero on the amplifier

And adjust them later to your own taste (without blowing up the speakers) We use these settings:



And that's it - you're done!

Please double check everything to make sure all cables are connected correctly.

Plug in the main power cable of the machine and switch it on!

Please contact us if you have any questions:

support@dutchpinball.com