

# PINWOODFER

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**Take your time, follow the instructions, relax, and enjoy yourself!**

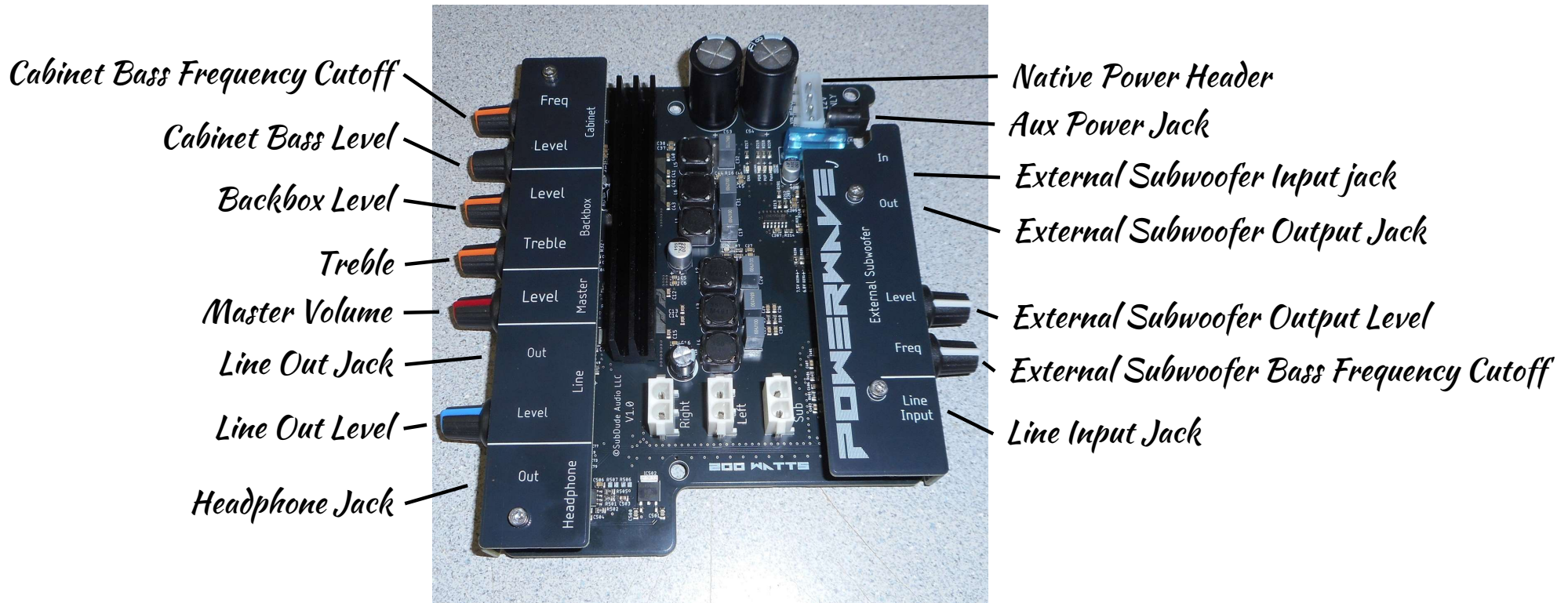
**WARNINGS: Perform installation with your pinball machine turned off and unplugged from AC power.**



## **PinWoofers PowerWaveJ Amplifier Installation Instructions**

# PinWoofers PowerWaveJ

## Amplifier Overview

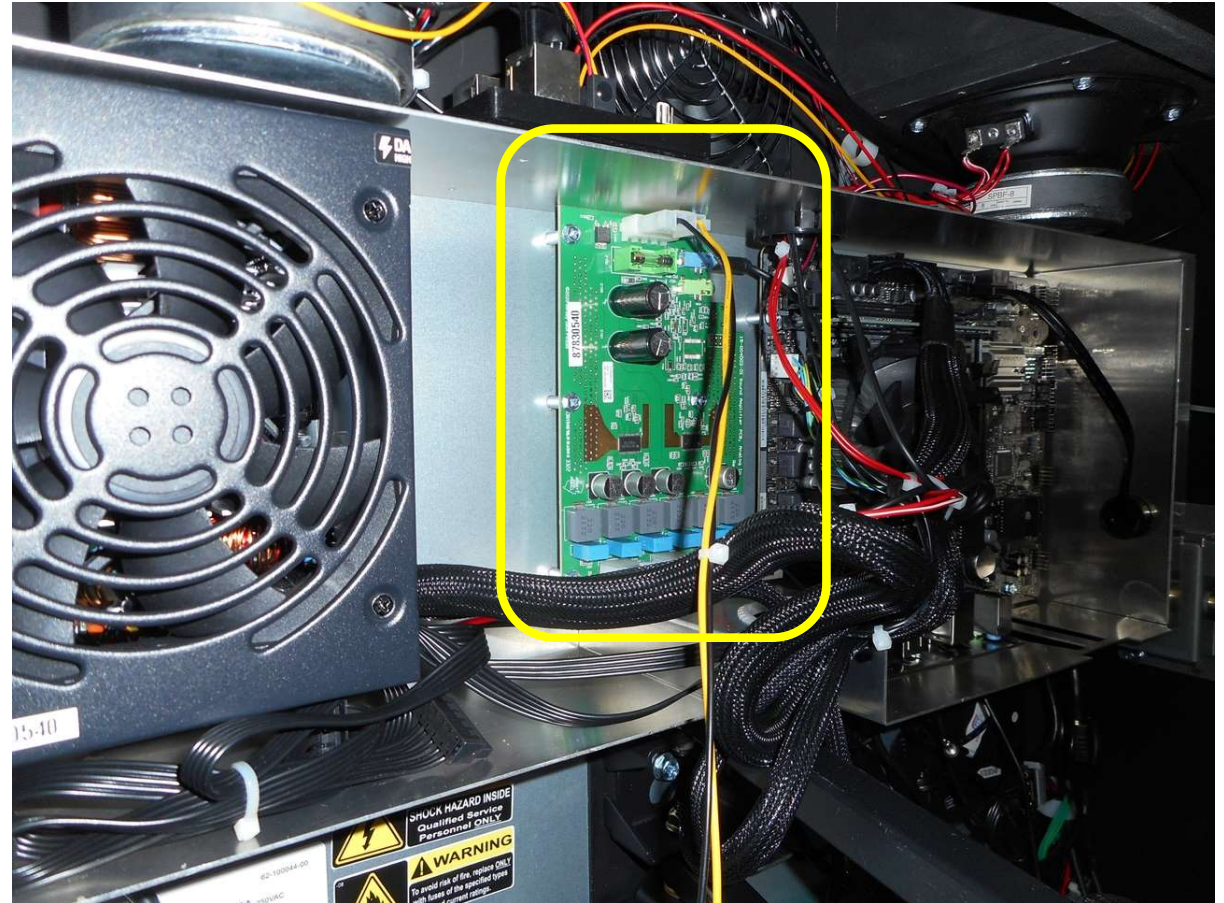


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## JJP Amplifier Location

Remove the shroud covering the backbox enclosure and expose the contents as shown.

The JJP Amplifier is show in the yellow box.



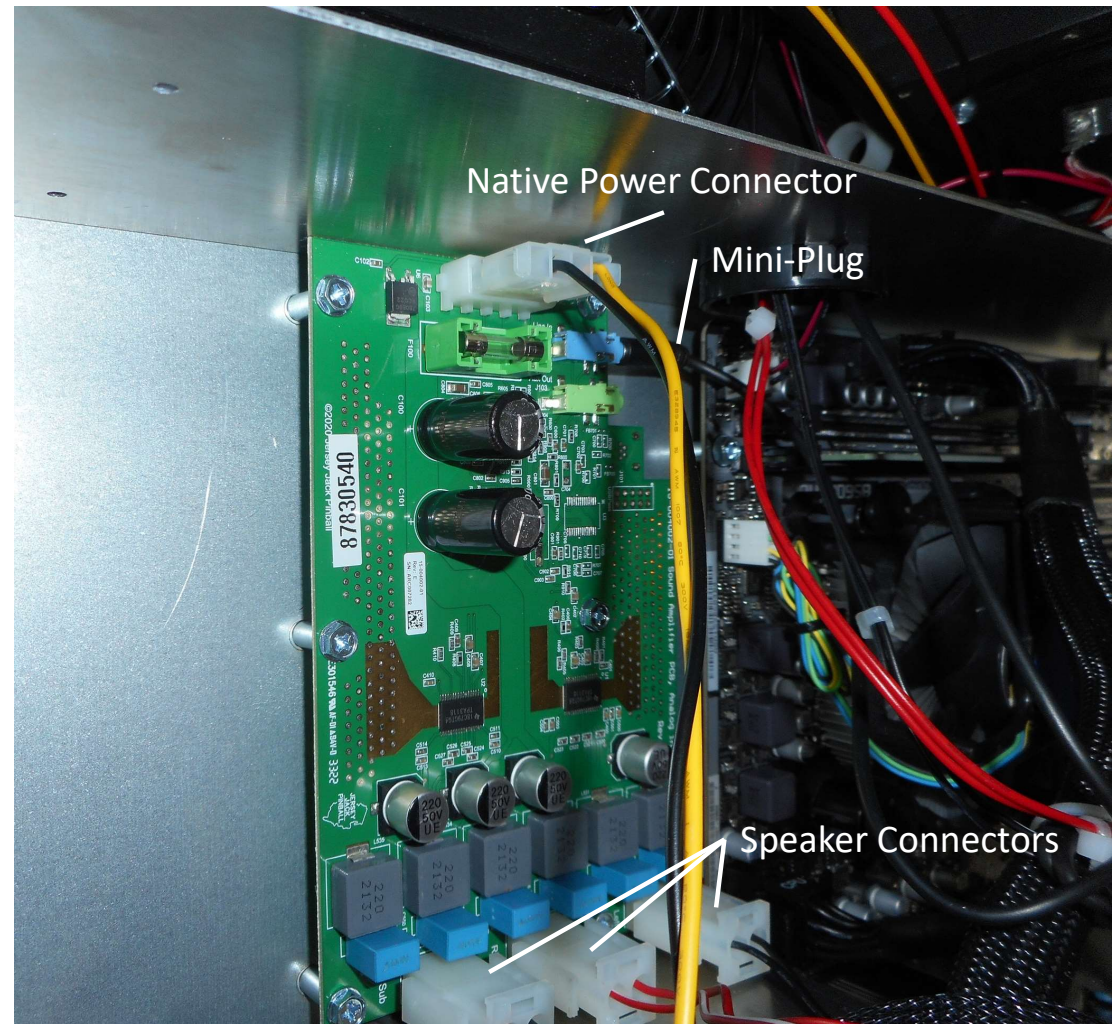
# JJP Amplifier Removal - 1

Note (label with tape if necessary) the color and wire thickness for each of the Right, Left and Sub speaker wire connectors.

Disconnect all electrical connections on the JJP Amplifier Card:

- Native Power Connector
- Mini-Plug in the upper right-hand corner
- Three Speaker Connectors at the bottom

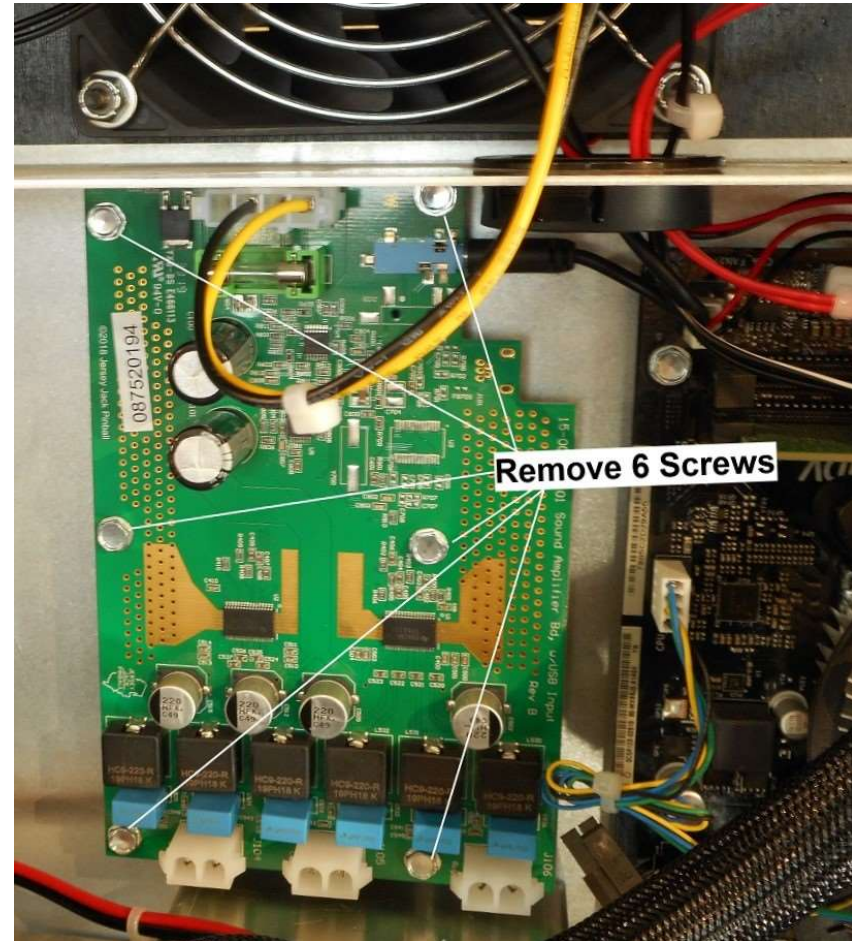
Wire colors and locations among the various JJP titles may vary.



## JJP Amplifier Removal - 2

Remove the six amplifier mounting screws.

Do not discard screws since they will be re-used to mount your new amplifier.



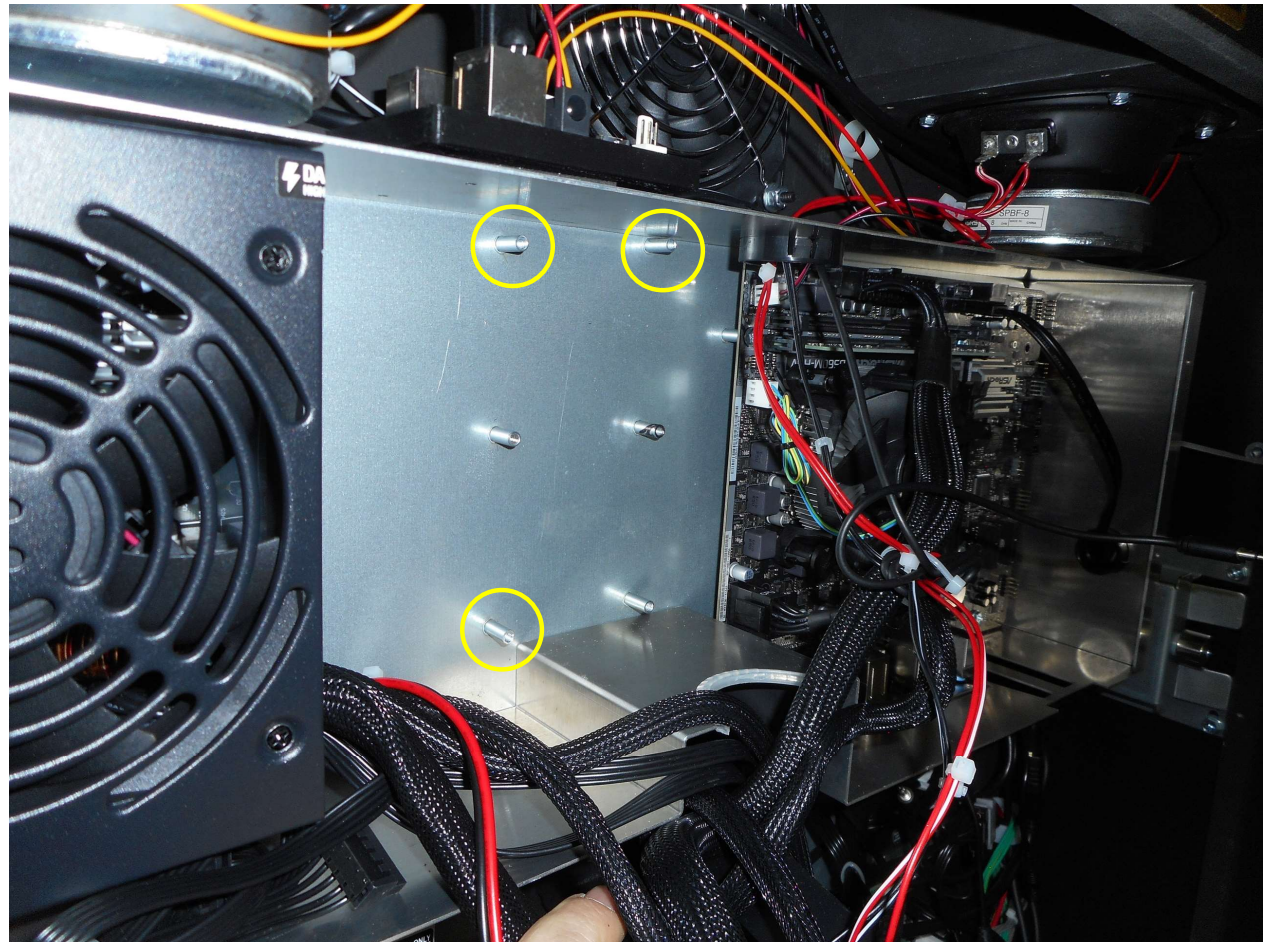
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## JJP Amplifier Removal - 3

View after the factory amplifier has been removed.

The three screw bosses circled in yellow will be utilized to mount your new amplifier.

(Save the extra three screws.)



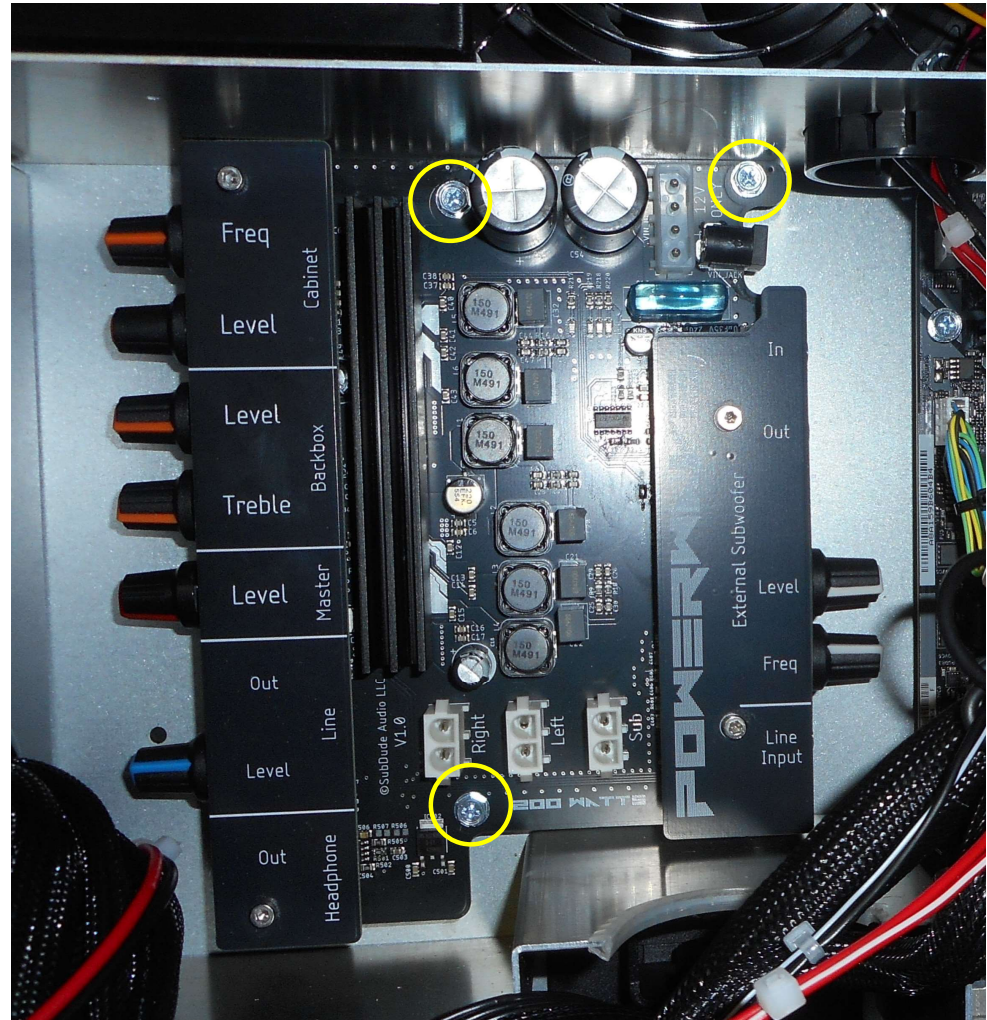
# Mount New Amplifier - 1

Carefully position the amplifier over the screw bosses that will be utilized for mounting.

Add three screws to the locations indicated by the yellow circles.

It is advisable to start each of the three screws with only a few turns first, align the amplifier as needed, then tighten the screws to secure the amplifier.

Do not over-tighten. Hand tighten only.



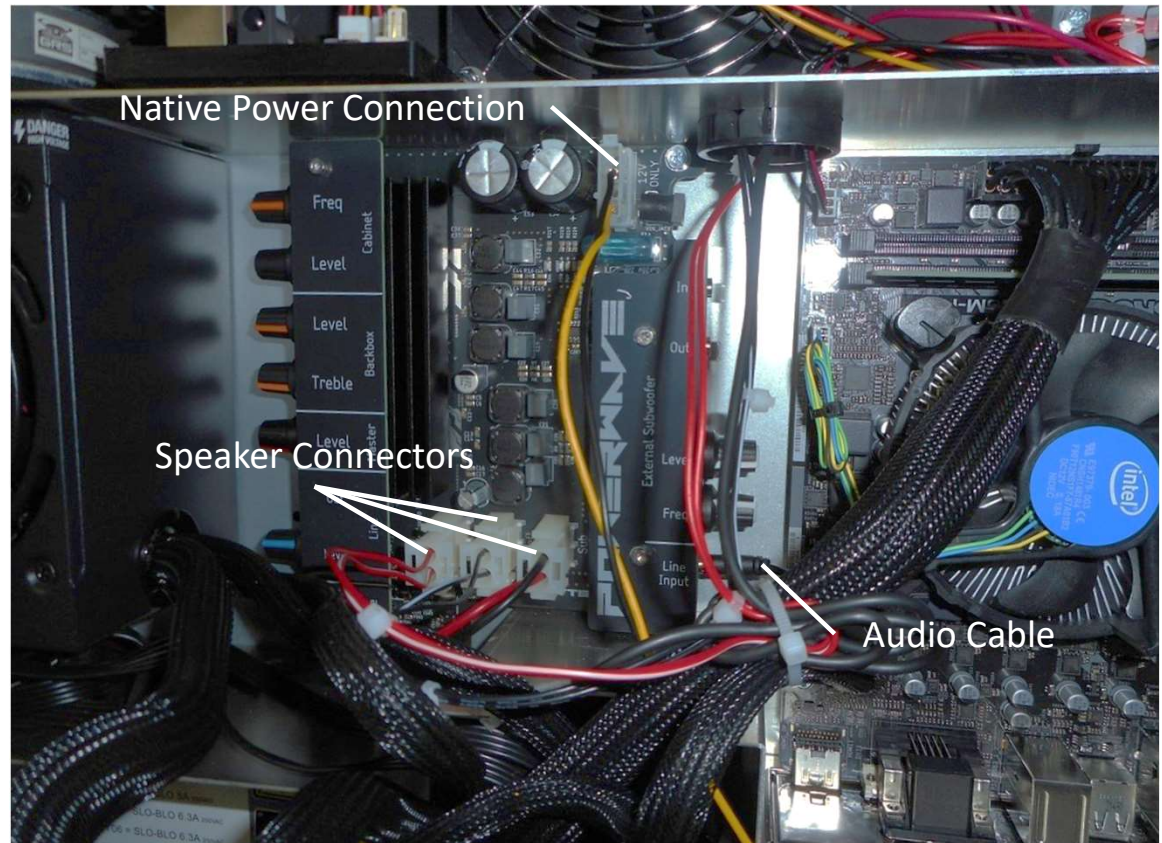


## Mount New Amplifier - 2

Plug the speaker connectors carefully, assigning Right, Left and Sub locations as noted from a previous step.

Plug the native power connector as shown. (There are registration features on the connector and header housings that indicate polarity and ensure it can be plugged only one way.)

Plug the audio cable from the machine to the location shown.



## Important Note About the GNR Sound Bar

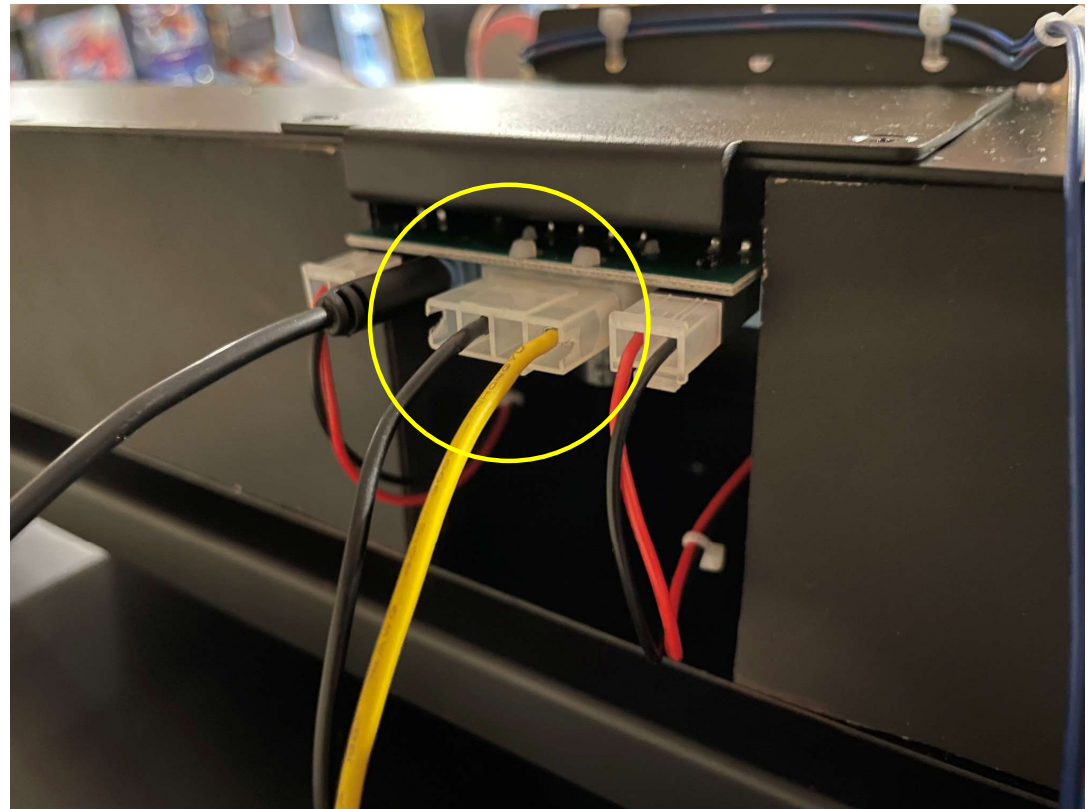
If you have a GNR CE with a Sound Bar, it is highly recommended that you disable it.

Below are reasons for doing this:

- The Sound Bar incorporates the same low-quality tweeters as the stock speaker panel.
- The Sound Bar also has low-quality paper mid-range speakers.
- Leaving the Sound Bar in play will “pollute” the sound field of your PinWoofers Audio Upgrade.
- The Sound Bar’s Integrated Amplifier makes a “pop” sound upon power on and power off. This in some ways defeats the purpose of the soft power on / off features of the PowerWaveJ Amplifier.

The image to the right shows the power connection to the Sound Bar circled in yellow.

Disconnect this connector to electrically disable the sound bar.



## First Power-Up

Leaving the enclosure open, power up the machine.

There is a delay of approximately 60s before the amplifier will produce sound. This is “cloak” the popping and clicking produced by the motherboard audio output.

Perform a sound check and adjust as needed.

After you are satisfied with your audio settings, close up the enclosure and backbox.

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**Your PowerWaveJ amplifier is now ready for use.**