

PINWOODFER

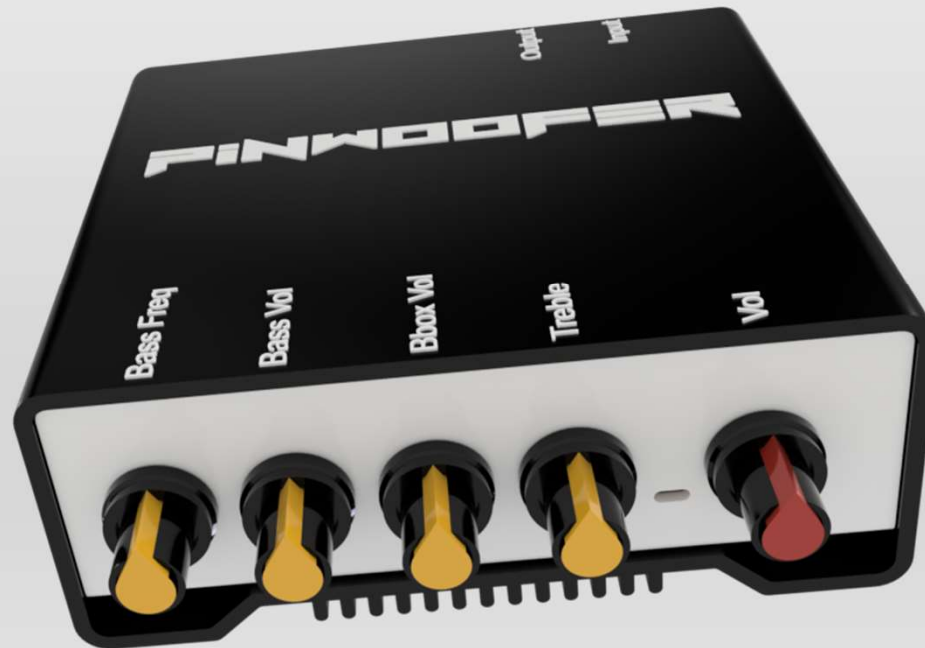
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Take your time, follow the instructions, relax, and enjoy yourself!

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

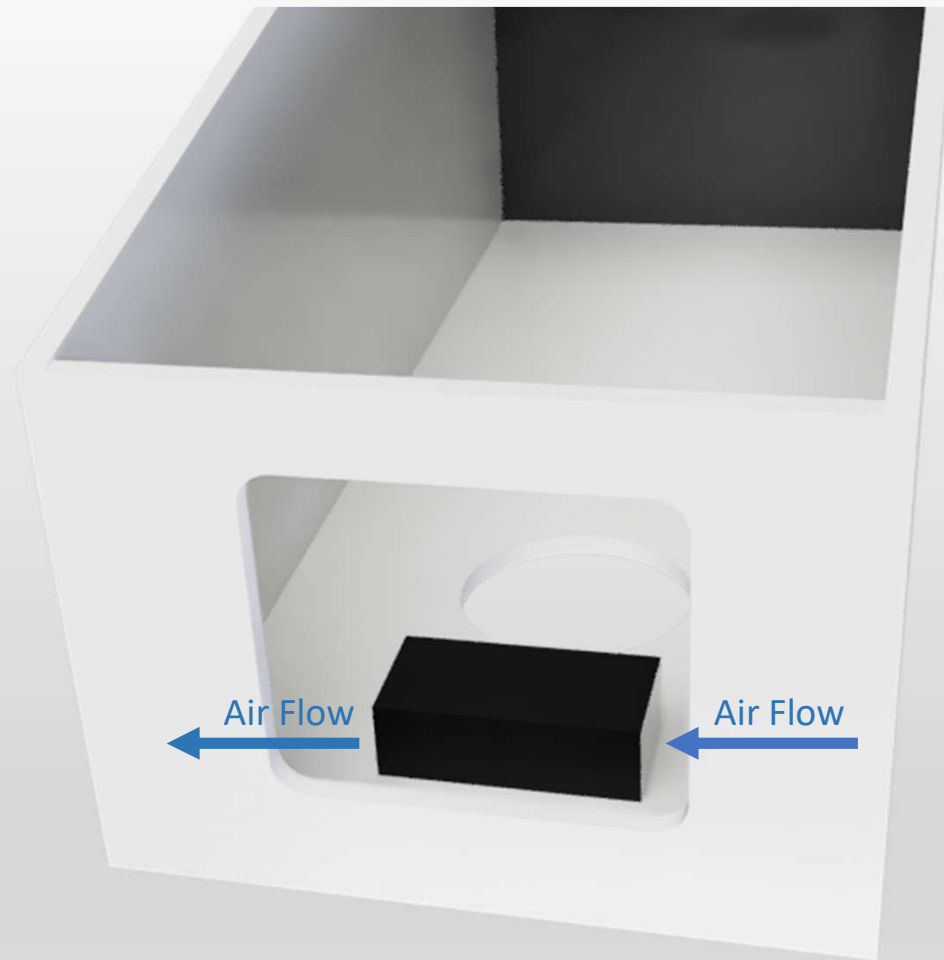
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PinWoofers JJP Dialed In! KOP Amplifier Installation Instructions



Amplifier Placement

- Remove the Coin Box and replace it with the amplifier resting as shown.
- Use only a PinWoofers supplied Amplifier Mounting Bracket. Aside from being more secure, it will allow you to transport your machine with the amplifier installed into the bracket.
- Alternatively, a high-bond double-sided tape can be used to secure the amplifier to the Cabinet Floor, or adhesive hook and loop pads. In this case, please remove amplifier before transport.
- Mount the amplifier only within the machine; DO NOT attempt to mount the amplifier external to the machine.
- The Aluminum Amplifier Enclosure is designed to have a small convective airflow underneath to promote cooling.
- The Amplifier should never run more than slightly warm to the touch.

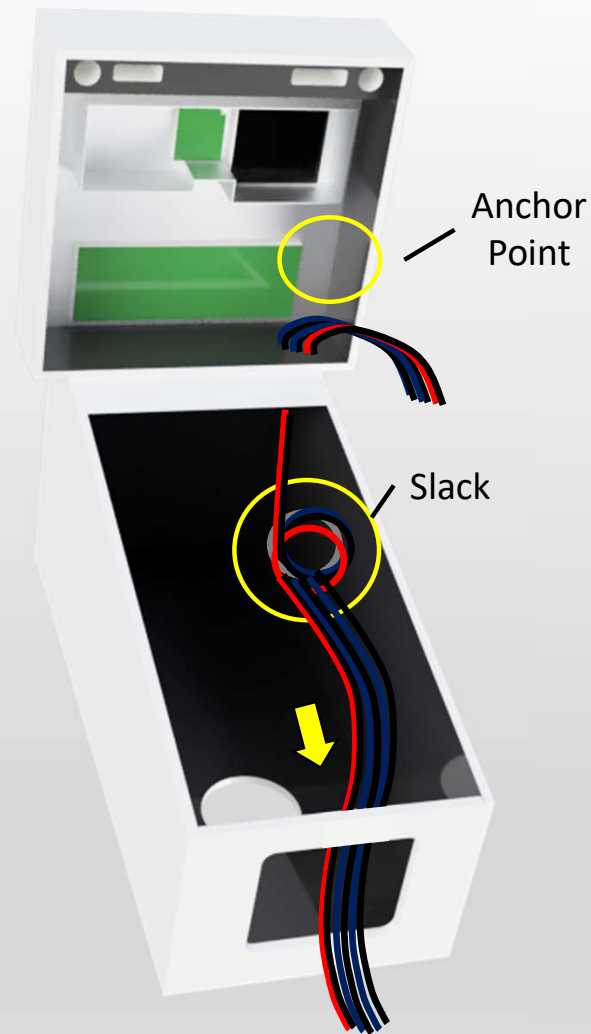


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Harness Routing

- Unplug the machine from AC Power.
- Open the Coin Door.
- Remove the Playfield Glass.
- Lift the Playfield and prop it up.
- Remove the backglass.
- Feed the Amplifier End of the PinWoofers Harness down and through the rectangular hole in the right side of the backbox, into the cabinet, then route the remainder down the interior of the cabinet and through the Coin Door opening as shown.
- Leave approximately 12in (about a 4in to 5in circular loop) of slack at the position shown. This will provide enough extra cabling to allow the backbox to be closed later without stressing the harness.
- Using a cable tie, anchor the wiring harness to a wire loom near the right-hand side of the backbox. Doing so “pins” the wire harness in the backbox so that the slack loop will be taken up if the backbox is lowered to its closed position.

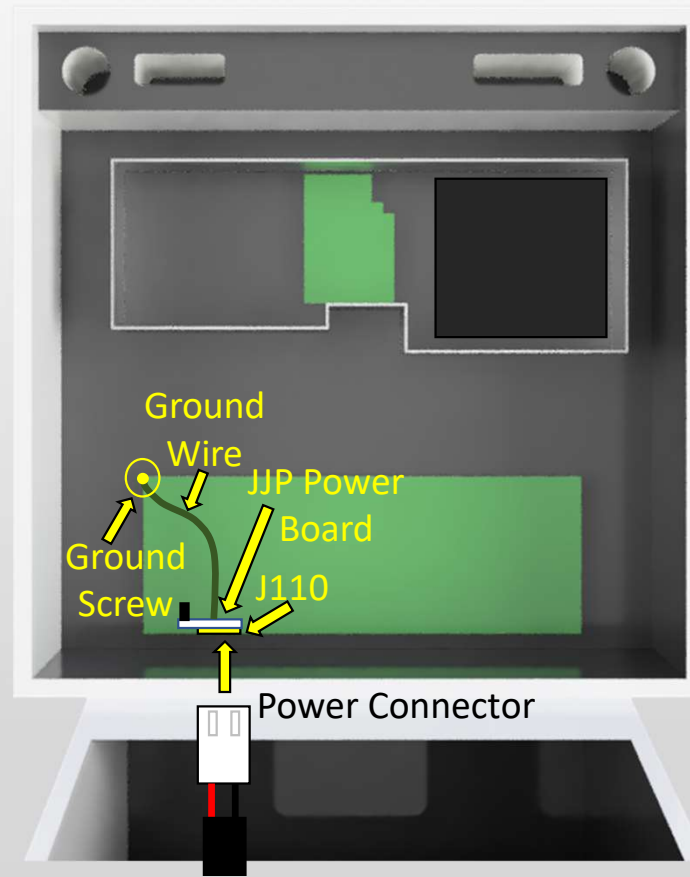


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Power Connection

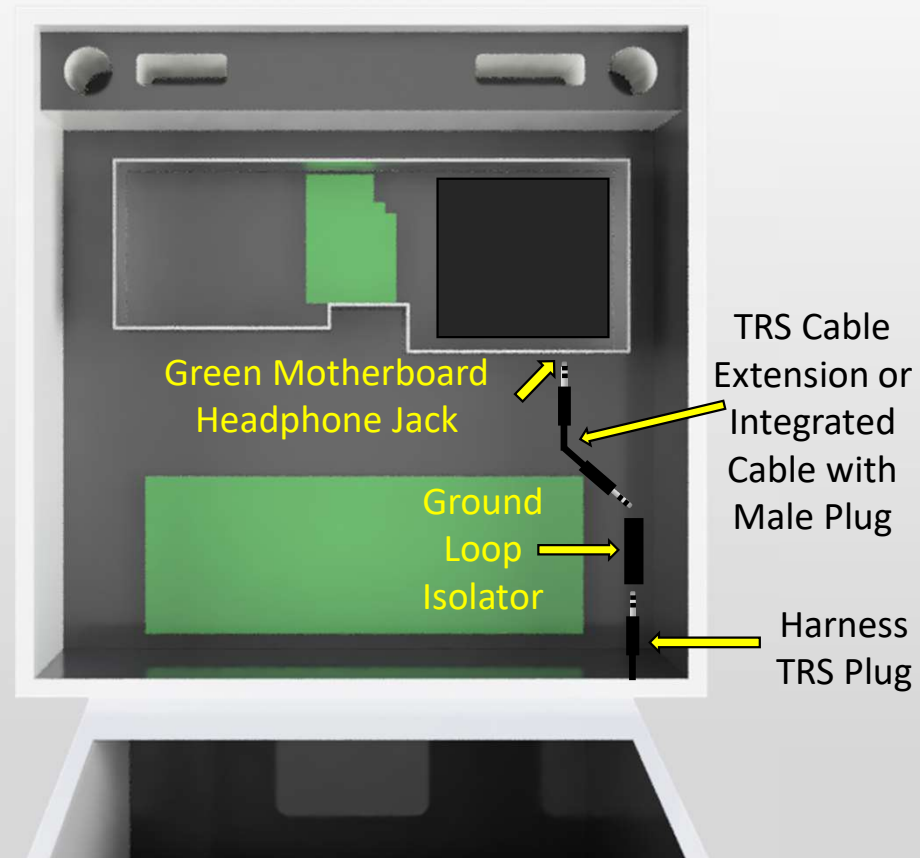
- Unplug the 10-Pin Factory Connector from J110, if it exists.
- Plug the 10-Pin Factory Connector into the JJP Power Board.
- Plug the PinWoofers Harness 2-Pin Power Connector into the Power Board.
- Plug the Power Board into J110.
- Connect the ground wire to the backplane screw location as shown. The ground wire crimp loop must make contact to ground or else the power board will not function.
- Secure Harness Power Cable Wiring to nearby Wire Looms and use Cable Ties to relieve any cable tension on the Power Board.



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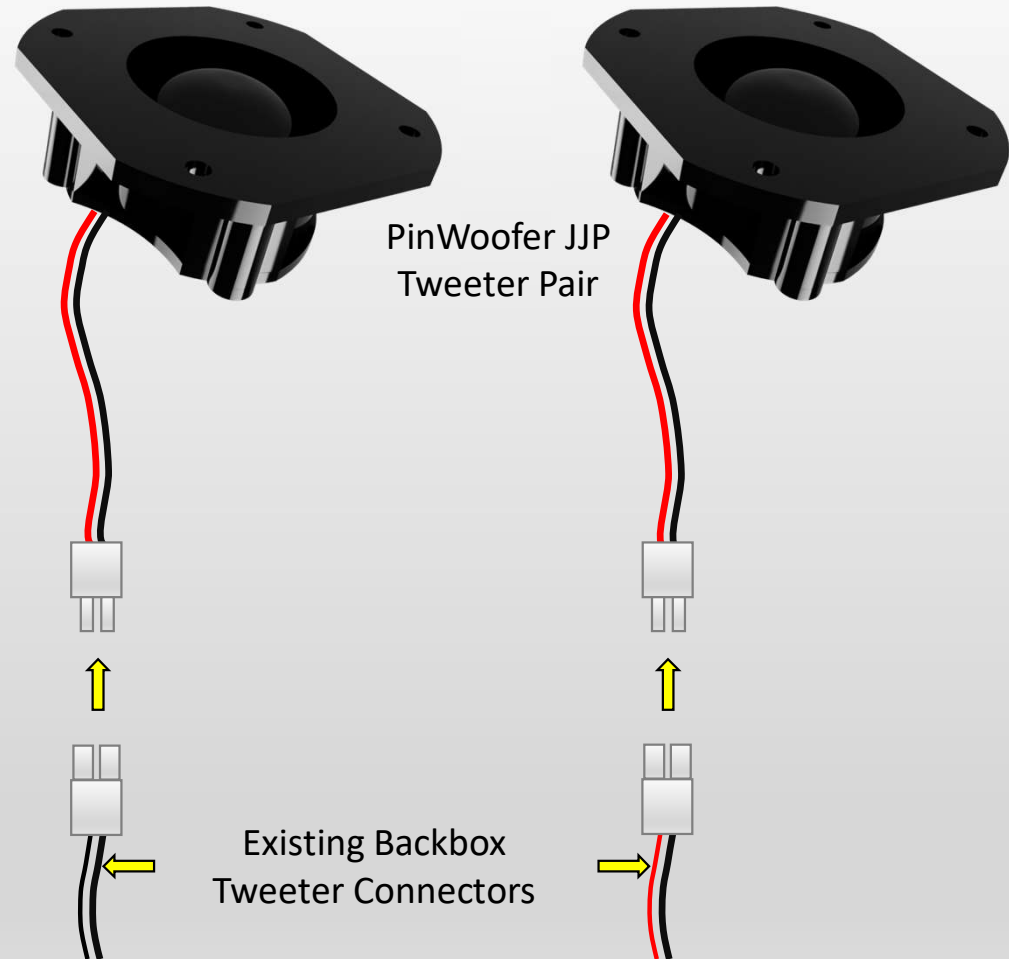
Audio Connection

- Your machine has a ground loop isolator already installed. You will re-use it.
- Ensure that the Ground Loop Isolator is plugged into the green Motherboard Headphone Jack:
 - This may be a Male-to-Male TRS Cable Extension, or it may be an integrated Male Plug.
- Plug the Harness TRS Plug into the Ground Loop Isolator.
- Secure Harness Audio Cable Wiring to nearby Wire Looms and use Cable Ties to relieve any cable tension on the Expander Board.



Connect Backbox Tweeters

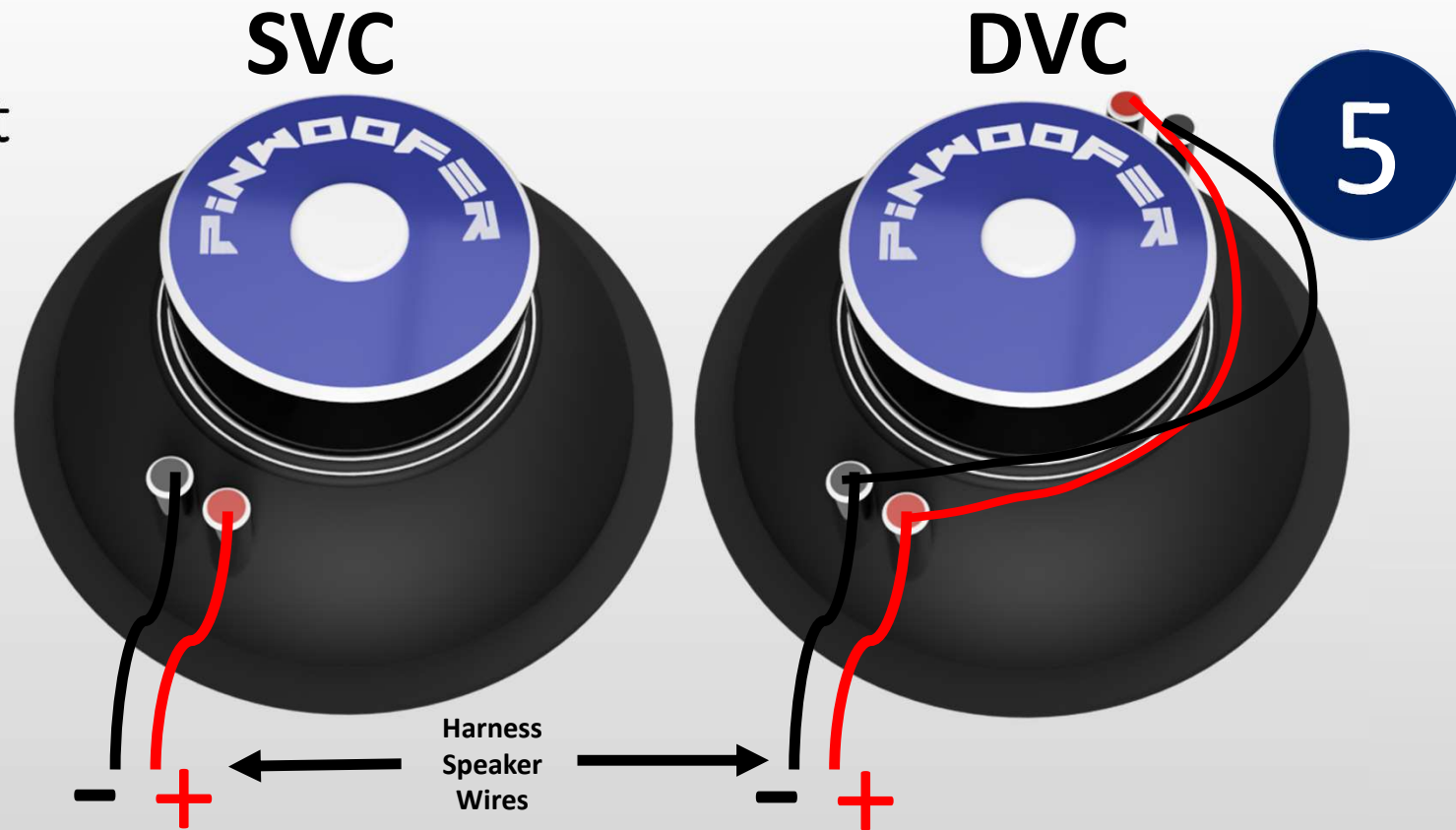
- Install your new tweeters.
- Connect the RED_BLK Tweeter Wire Pairs on to each of the left and right Tweeter Connectors as shown.
- Note that JJP Tweeter / Backbox Speaker Wire colors may vary from title to title. Wire Colors Encountered May be:
 - Left - BLK-WHT + BLK
 - Right - RED-WHT + BLK.
 - or-
 - Left - BLK-WHT + BLK
 - Right - RED-WHT + RED



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Connect Cabinet Speaker

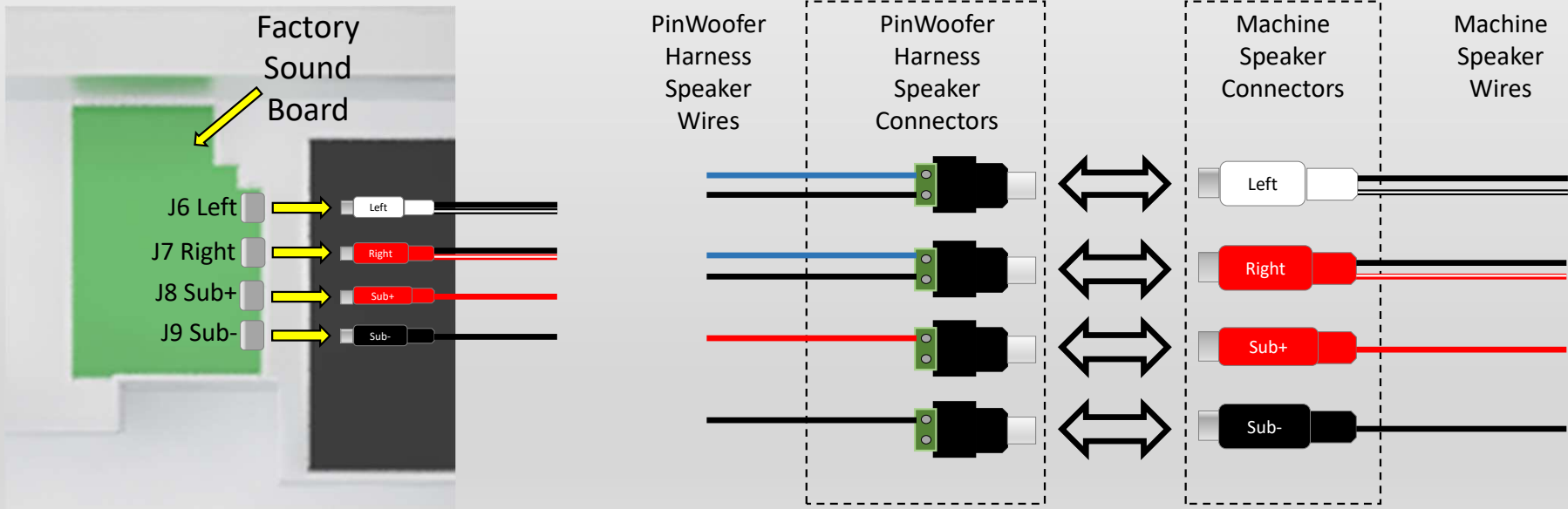
- Definitions:
 - SVC – Single Voice Coil
 - DVC – Dual Voice Coil
- For DVC, do not alter the factory wires present on your new Cabinet Speaker.
- Re-use the RED_BLK Factory Speaker Wires already present in the cabinet.
- Connect them to the new Speaker Terminals as follows:
 - Connect the RED wire to “+” Terminal
 - Connect the BLK wire to “-” Terminal



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Speaker Connections

- The Dialed In! JJP Factory Sound Board is unique compared to all other JJP titles.
- The Machine Speaker Connectors (wires) are routed into the Aluminum Enclosure and to the Factory Sound Board.
- Unplug them now, taking careful note of their assignment (Left/Right/Sub+/Sub-) as denoted on the PCB.
- Plug the PinWoofers Harness Speaker Connectors into the Machine Speaker Connectors as shown.

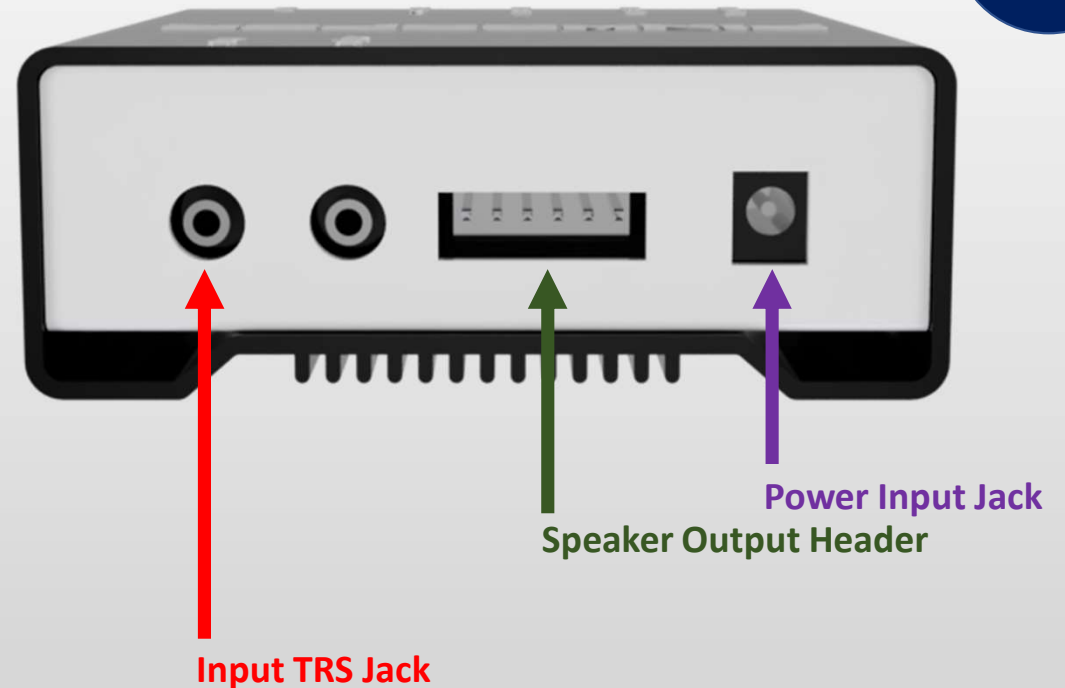


Machine Speaker Connectors



Amplifier to Harness Connections

- Insert the TRS Male Plug on the amplifier end of the PinWoofers Harness into **Input TRS Jack**.
- Plug the 6-Pin Molex Connector into the **Speaker Output Header**. The Connector tab locks should be facing upward.
- Insert the Power Plug into the **Power Input Jack**.

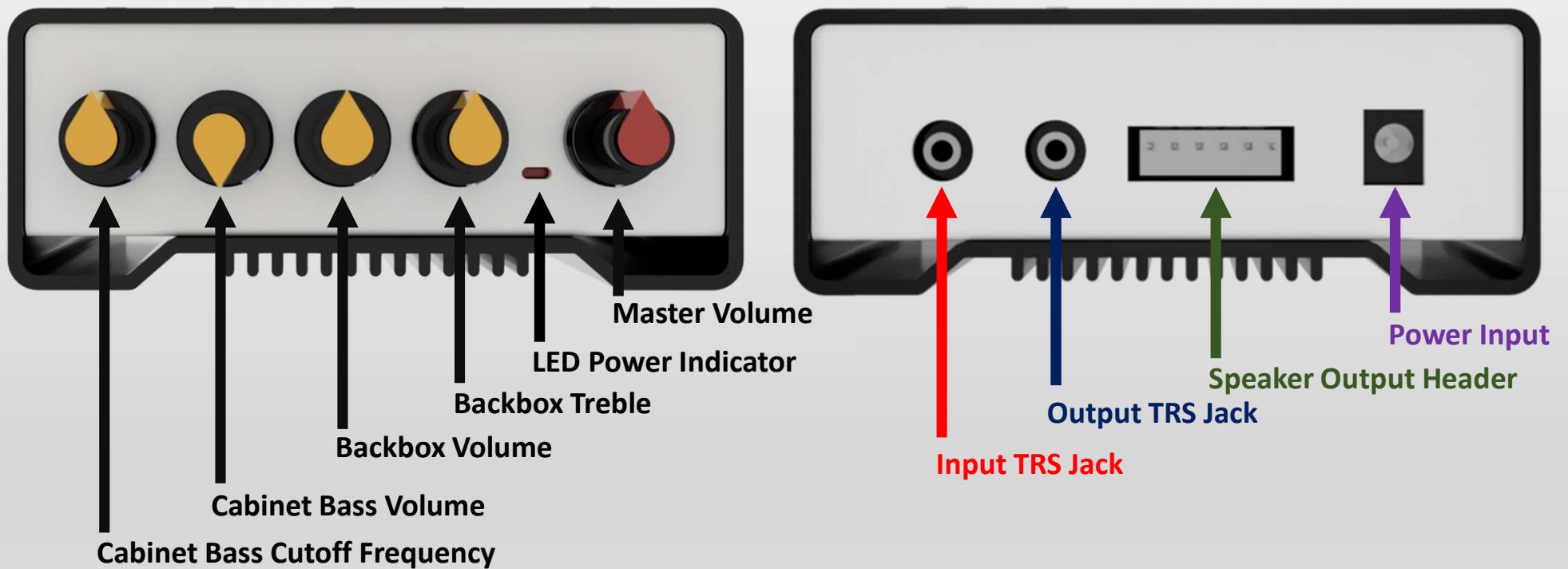


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AMPLIFIER OVERVIEW

When first powering on your PinWoofers Amplifier, adjust the controls as shown:

- “Bass Vol” set to “6 o’clock”
- All other controls set to “12 o’clock”



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ADJUSTMENTS

- **After installation, turn the machine on and follow the below startup procedure:**
 1. Set the service Menu Volume (using coin door volume buttons) to 25.
 2. Set the amplifier dials as shown on the previous page.
 3. It is likely that the starting amplifier settings from 2. above may not sound good. Be confident in rotating the dials to any position that sounds good to you!
 4. Further adjust the amplifier controls by starting a game or alternating the volume up/down buttons. Some titles continue playing or start playing sounds when you enter the VOL menu during a game.
 5. Note that there may be a high voltage lock-out switch (a white pin) on the coin door that needs to be constantly depressed or pulled out to lock in the on position.
 6. Your final adjustments may leave the dials in radically different positions. This is perfectly fine as long as you have achieved your desired results.
 7. As needed, return to the menu to make adjustments to the audio settings. It is often helpful to change the MIX settings depending on results, and after you have had some experience with your new PinWoofersound system.
 8. Many titles have suggested initial settings at PinWoofersound.com in the blog. Visit our blog at <https://pinwoofersound.com/blog/> or search the game title in the upper right-hand corner of the web page.

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