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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.

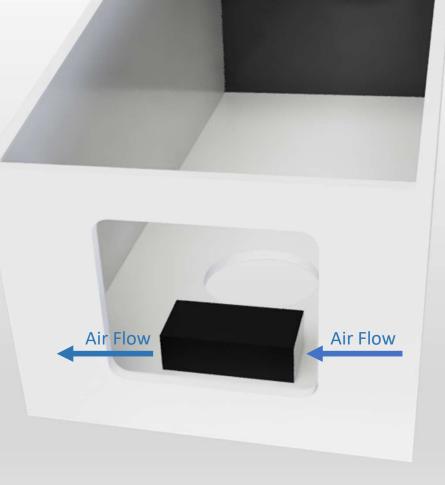


PinWoofer Sega Whitestar GTP Amplifier Installation Instructions



Amplifier Placement

- Remove the Coin Box and replace it with the amplifier resting as shown.
- Use only a PinWoofer 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.

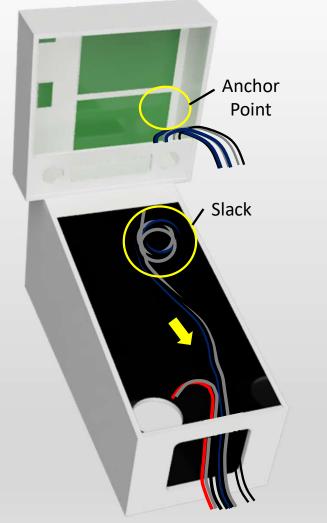






Harness Routing

- Unplug the machine from AC Power.
- Open the Coin Door.
- Remove the Playfield Glass.
- Lift the Playfield and prop it up.
- Remove the backglass and lower the Speaker Panel.
- Feed the Amplifier End of the PinWoofer 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.

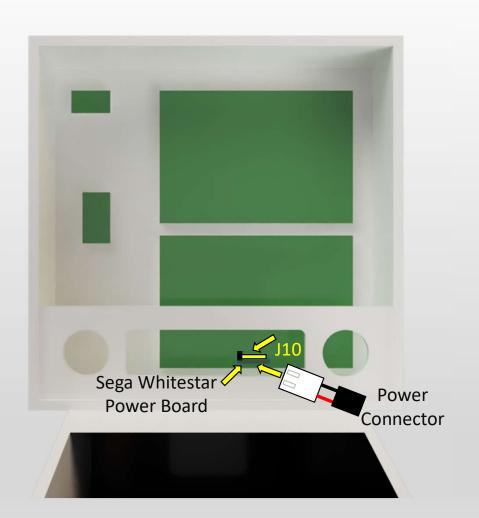






Power Connection

- Unplug the 10-Pin Factory Connector from J10.
- Plug the 10-Pin Factory Connector into the PinWoofer Power Board.
- Plug the PinWoofer Harness 2-Pin Power Connector into the Power Board.
- Plug the Power Board into J10.
- When replacing the speaker panel, carefully inspect the power board to DMD display board clearance to ensure there is no physical contact between electronic components.
- Secure Harness Power Cable Wiring to nearby Wire Looms and use Cable Ties to relieve any cable tension on the Power Board.

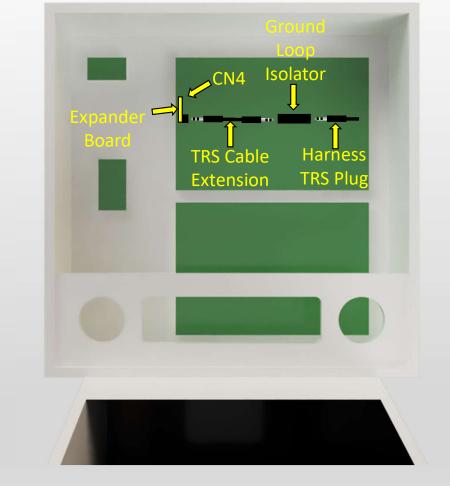


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Audio Connection

- Remove the factory speaker wire connector from header CN4. This connector is no longer used.
- Plug the Harness TRS Plug into the Ground Loop Isolator.
- Plug one end of the TRS Cable Extension into the Ground Loop Isolator.
- Plug the other end of the TRS Cable Extension into the Expander Board.
- Plug the Expander Board into CN4.
- Secure Harness Audio Cable Wiring to nearby Wire Looms and use Cable Ties to relieve any cable tension on the Expander Board.

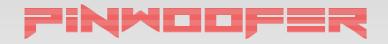


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Connect Backbox Speakers

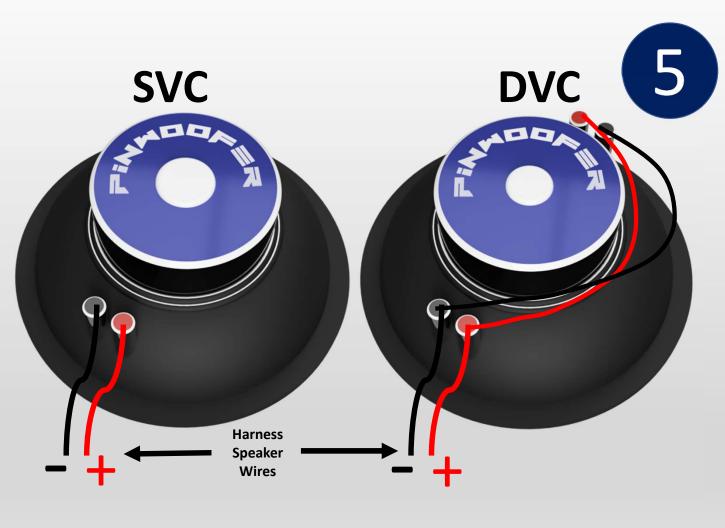
- Connect the BLU_BLK Speaker Wire Pairs on the PinWoofer Harness to each of the left and right terminals of your Backbox Speaker Terminals:
 - Connect the BLU wire to "+" Terminal
 - Connect the BLK wire to "-" Terminal





Connect Cabinet Speaker

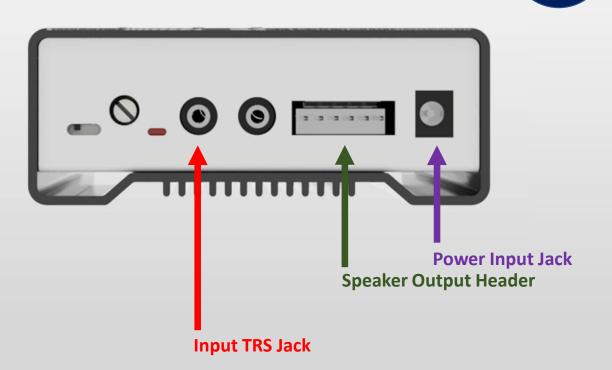
- Definitions:
 SVC Single Voice Coil
 DVC Dual Voice Coil
- For DVC, do not alter the factory wires present on your new Cabinet Speaker.
- Connect the RED_BLK Speaker Wire Pair on the PinWoofer Harness to your Cabinet Speaker Terminals:
 - Connect the RED wire to "+" Terminal
 - Connect the BLK wire to "-" Terminal





Amplifier to Harness Connections

- Insert the TRS Male Plug on the amplifier end of the PinWoofer 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**.



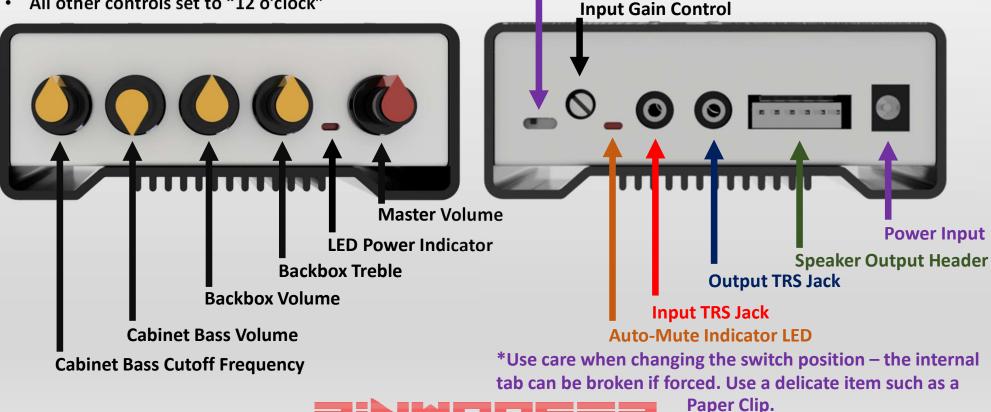
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Auto-Mute Disable Switch*

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

- "Bass Vol" set to "6 o'clock"
- "Gain" set to "3 o'clock", or about 75% clockwise
- All other controls set to "12 o'clock" ٠



NUSTMENTS

• After installation, turn the machine on and follow the below startup procedure:

- 1. Set the service Menu Volume (using coin door volume buttons) to 7.
- 2. If you are experiencing "cut-out" of the signal, increase the gain setting or increase the title menu volume. The auto-muting can be disabled, but the amplifier may pickup the noise present in the audio line.
- 3. NEVER overdrive the expander board into distortion; don't exceed ~50%-60% of the title maximum volume level.
- 4. In the machine's menu set all audio settings to default: Not all titles have the below menu items, but if yours does: SERVICE MENU → ADJ → FEAT ADJ → SPEECH ATTENUATION = 0 SERVICE MENU → ADJ → FEAT ADJ → MUSIC ATTENUATION = 0
- 5. "SERVICE MENU" values above can be revisited later, after making adjustments to the amplifier.
- 6. Set the amplifier dials as shown on the previous page.
- 7. It is likely that the starting amplifier settings from 4. above may not sound good. Be confident in rotating the dials to any position that sounds good to you!
- 8. 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.
- 9. 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.
- 10. Your final adjustments may leave the dials in radically different positions. This is perfectly fine as long as you have achieved your desired results.
- 11. 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 PinWoofer sound system.
- 12. Many titles have suggested initial settings at PinWoofer.com in the blog. Visit our blog at https://pinwoofer.com/blog/ or search the game title in the upper right-hand corner of the web page.





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