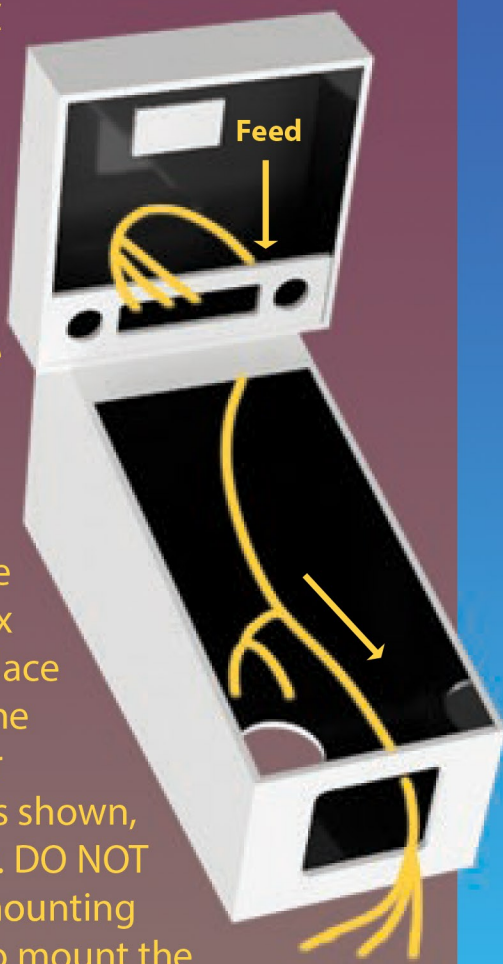


1 PinWoofers Harness - Spike

- Unplug the machine from AC Power.
- Open the Coin Door.
- Remove the Backglass.
- Remove the Playfield Glass.
- Lift the Playfield up and securely prop it open.
- Feed the Amplifier End of the PinWoofers Harness from the Backbox down the right and out the Coin Door opening.



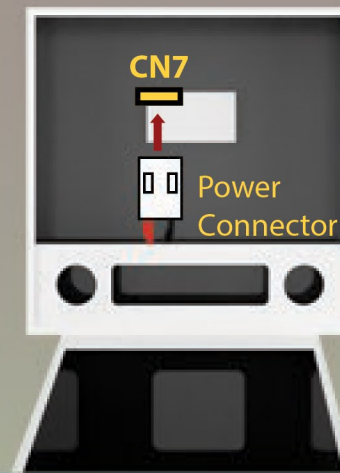
Remove coin box and replace it with the amplifier resting as shown, for safety. **DO NOT** use a mounting bracket to mount the amplifier vertically or to a cabinet wall. The amp enclosure is designed to have airflow underneath to reduce heat and prolong service life.



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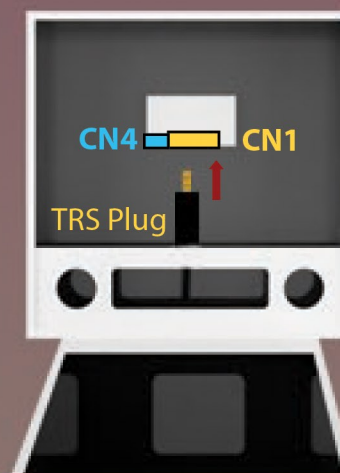
2 PinWoofers Power Board

- Unplug the 5-Pin Factory Connector from CN7.
- Plug the Power Board into CN7.
- Plug the 5-Pin Factory Connector into the Power Board.
- Plug the PinWoofers Harness 2-Pin Power Connector into the Power Board.

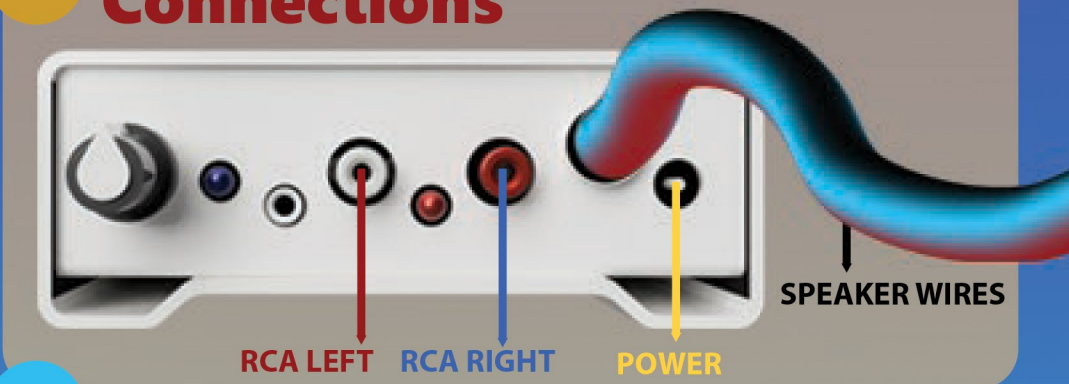


3 PinWoofers Expander Board

- Unplug the 5-Pin Factory Connector from CN1.
- Unplug the 2-Pin Factory Connector from CN4.
- Simultaneously plug the Expander Board into CN1 and CN4.
- Plug the PinWoofers Harness 3.5mm TRS Plug into the Expander Board.
- The connectors that originally went to CN1 and CN4 are no longer needed.



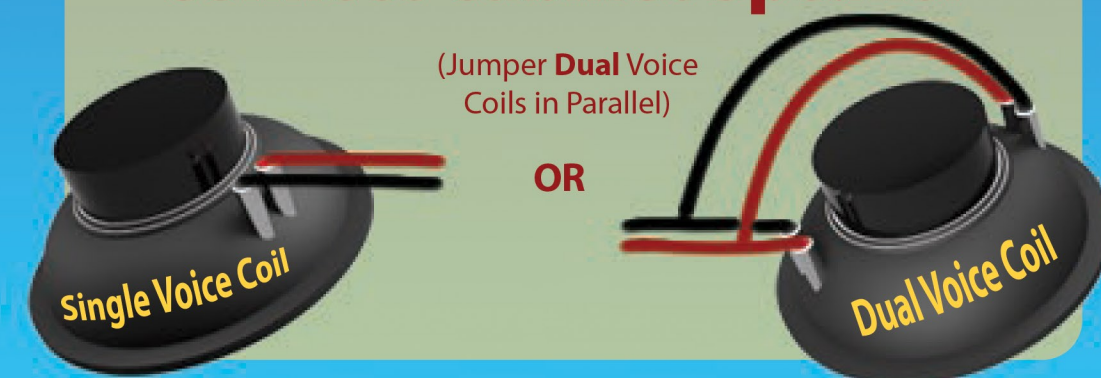
4 Connections



5 Connect Backbox Speakers

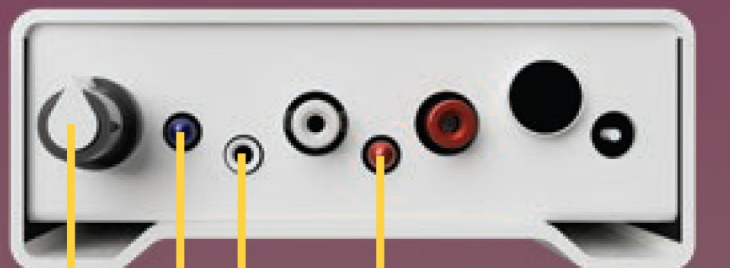


6 Connect Cabinet Speaker



AMPLIFIER OVERVIEW

When auto-mute is enabled the LED auto-mute indicator will glow red. Note that auto-mute may remain enabled during machine menu navigation, and navigation sounds will be quieter than before.



LED Auto-Mute Indicator

Stereo Line Out

LED Power Indicator

Input Gain Control



Bass Cutoff Frequency

Bass Volume

Backbox Volume

Treble

On/Off Volume Control

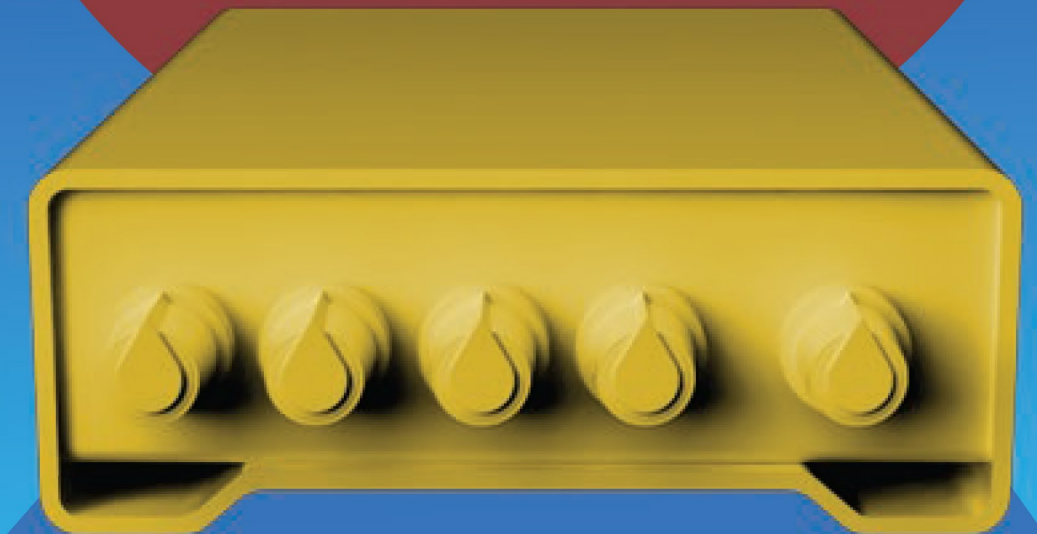
ADJUSTMENTS

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

- In the machine's menu enter the below settings:
SERVICE MENU > UTIL > VOL: Volume 15, All others "(DEFAULT)"
SERVICE MENU > ADJ > FEAT ADJ > SPEECH ATTENUATION -5
SERVICE MENU > ADJ > FEAT ADJ > MUSIC ATTENUATION 0
- Exit machine's menu.
- Turn all amplifier dials to point vertically as shown.
- Adjust amplifier controls either by starting a game, or by alternating up and down the coin door volume controls (to keep the sounds consistently playing).
- It's likely that the default amplifier control positions will not be optimized, and may sound poor. Be confident in rotating the different controls to whatever position sounds good to your ear. **Adjust at a safe volume level.**
- Your final adjustments may leave the dials in radically different positions. This is perfectly fine, as long as you've achieved your desired results.
- CRITICAL:** If the master volume of the machine and/or the gain control on the amp are too low, the auto-mute will clamp the output and reduce the volume. (The auto-mute function may even alternate on/off.) Watching the auto-mute LED will inform you of this condition. Correct by simply increasing the machine's volume and/or the amplifier's gain control.
- It is recommended that the Gain is adjusted to 50-75% clockwise, and the volume of the title is adjusted to the low end, about 10-20. These adjustments will provide a strong input signal and margin for the auto-mute function.
- Never set title volume above 30;** lower settings give better quality.
- Significant changes in backbox or cabinet menu settings can result in a highly driven signal, so listen carefully after making any adjustments. It is highly recommended that you use the settings in Step 1.

PINWOOFER

Spike Installation Guide



PinWoofers.com

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