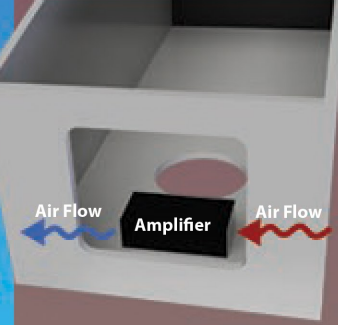
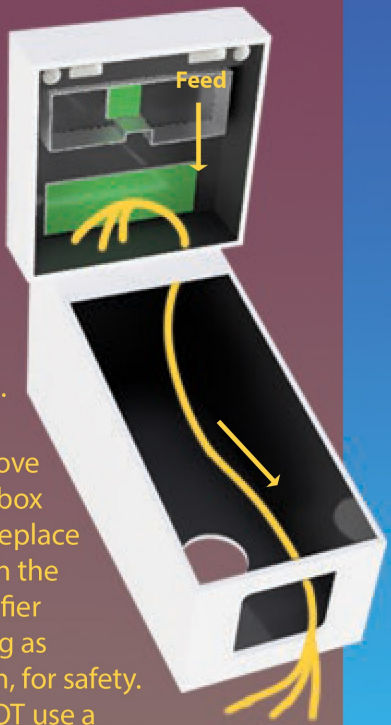


# 1 PinWoofers Harness - JJP

- 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 side & through 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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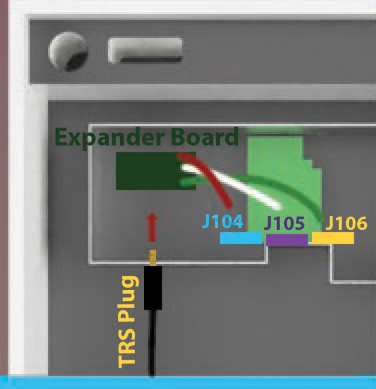
# 2 PinWoofers Power Board

- Unplug the 10-Pin Factory Connector from J110 on the I/O PCB Assy. (Your title may or may not have this factory Connector.)
- Plug the 10-Pin Factory Connector into the Power Board. (If applicable.)
- Plug the PinWoofers Harness 2-Pin Power Connector into the Power Board.
- Plug the Power Board into J110.
- Connect the Ground Wire to a nearby back-plane screw location.

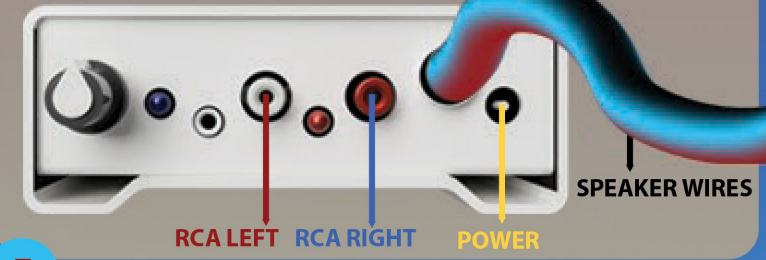


# 3 PinWoofers Expander Board

- Remove CPU Housing Cover.
- Unplug Factory Connectors J104/J105/J106 from the Sound Amplifier PCB Assy.
- Plug the corresponding Expander Board connections into J104/J105/J106.
- Plug the PinWoofers Harness 3.5mm TRS Plug into the Expander Board.
- Mount Expander Board with magnetic base (or tape) to the left of the Sound Amplifier PCB Assy.



# 4 Connections

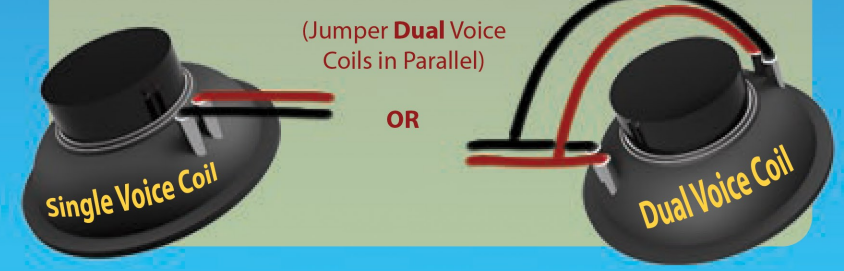


# 5 Connect Speakers



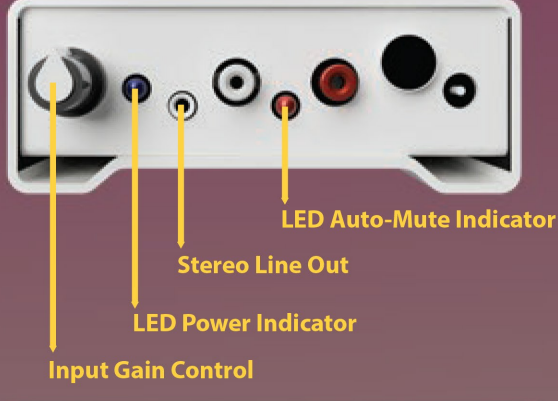
Plug the PinWoofers Speaker Wire Connectors into the Machine Speaker Connectors.

# 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.



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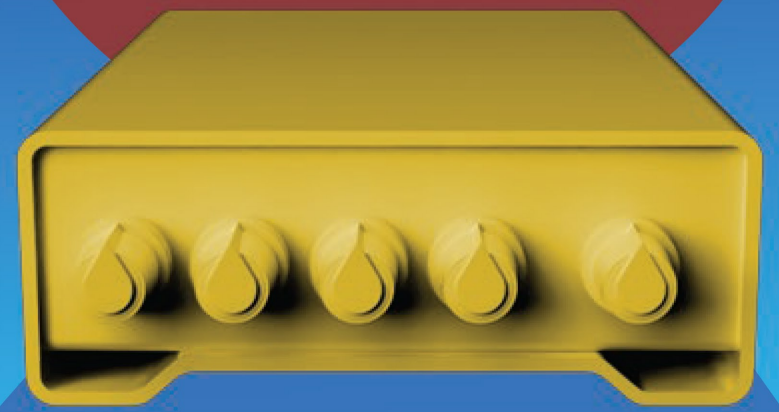
# ADJUSTMENTS

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

1. In the machine's menu set all audio settings to default:  
Volume = 25 (Below settings defaults will be blue or green.)  
FULL MENU > SETTINGS > SYSTEM SETTINGS > SOUND
  2. Exit machine's menu.
  3. Turn all amplifier dials to point vertically as shown.
  4. 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).
  5. It's likely that the starting amplifier control positions from 3. above will not be optimized, and may sound poor. Be confident in rotating the different controls to whatever position sounds good to you.
- Adjust at a safe volume level.**
6. Your final adjustments may leave the dials in radically different positions. This is perfectly fine, as long as you've achieved your desired results.
  7. **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.
  8. It is recommended that the Gain is adjusted to 50-75% clockwise, and the volume of the title is adjusted to about one half (25-30). These adjustments will provide a strong input signal and margin for the auto-mute function. **Never set title volume above 40.**
  9. As needed, return to the machine's menu to fine-tune. It is often helpful to reduce the "Speech Mix" setting in the SOUND menu to minimize the boomy resonance of male call-outs. "Music Mix", "Fanfare Mix" and "FX Mix" are popular options.

# PINWOOFER

## JJP Installation Guide



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