

# 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 8in Standard Cabinet Speaker Instructions**

**Spike-2 Installation Video:**

<https://youtu.be/CvRlMDqpg60>

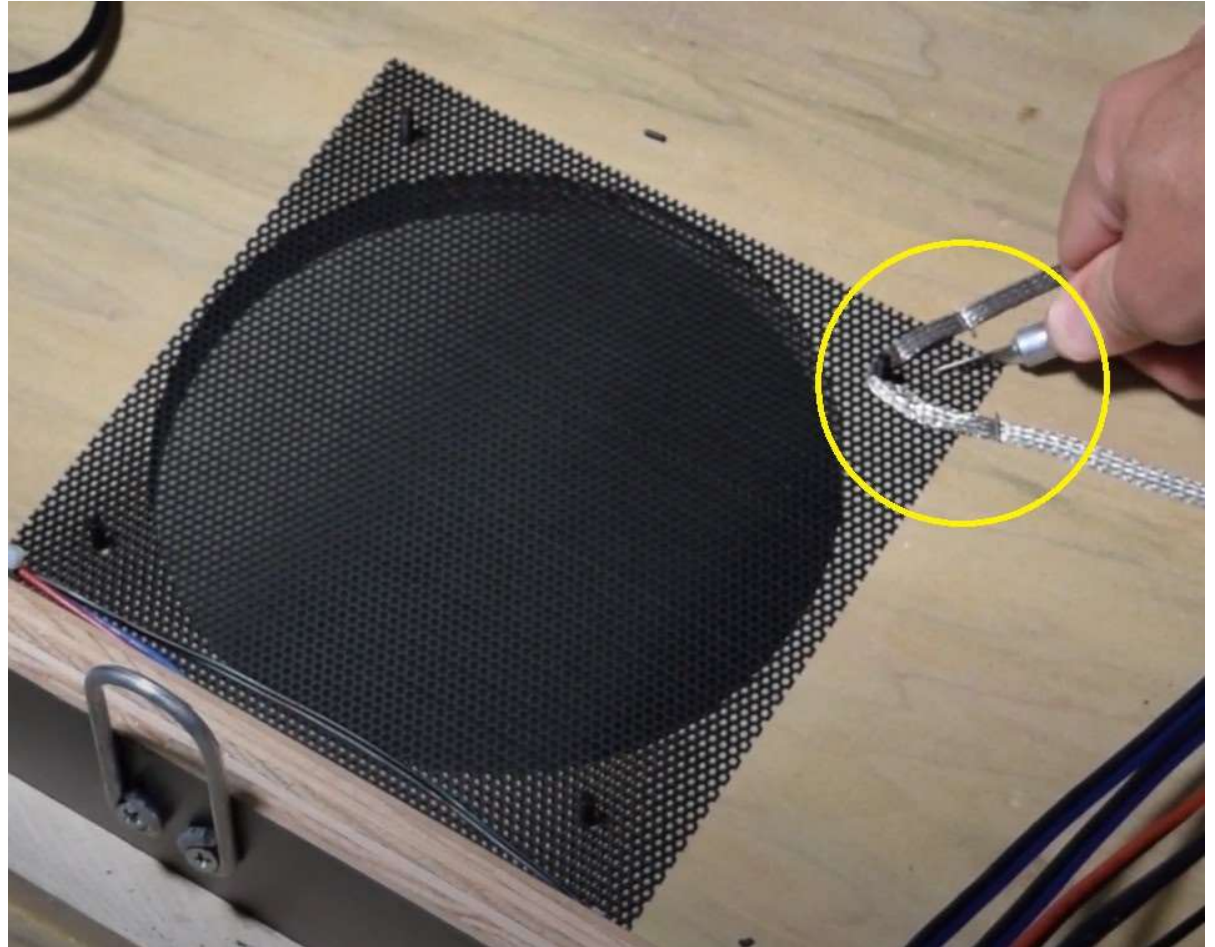
## Factory Speaker Removal

- Locate the 8in factory speaker inside the cabinet.
- Disconnect the factory speaker connector (YEL\_BLK and YEL\_WHT wires).
- Remove the four nuts that secure the speaker to the cabinet floor.
- Discard the factory speaker.



## Remove the Factory Speaker Grille

- The speaker grille has the potential to vibrate audibly so it is strongly recommended you remove it.
- Cut one corner away from the mounting stud at the ground strap location as shown in the yellow circle. Cut a slit in the grille to make removal easier.
- Use a knife or scissors.
- **Use caution and avoid injury.**
- Remove the grille.



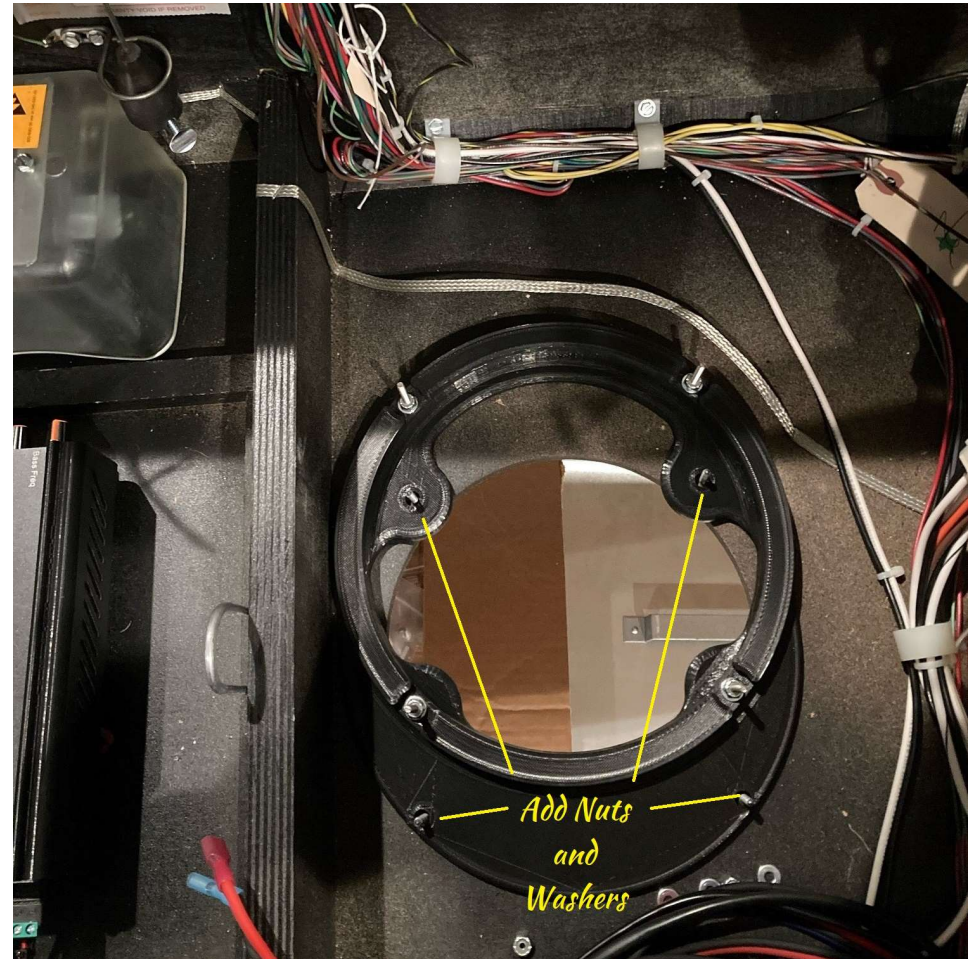
## Install Mounting Ring

- Place the mounting ring over the factory mounting studs (4).
- Add one #6-32 Locking Nut and one #6 flat washer to each mounting stud as shown to the right.
- Hand tighten with a 5/16in nut driver.
- Secure well, but do not over-tighten.



## Offset Ring

- For Stern SAM Metallica and The Walking Dead, machines that have shipped with the converging playfield supports require the pictured offset ring which will offset the speaker to the left and allow the magnet to clear the playfield supports when the playfield is down.
- Otherwise, the playfield will not close after installation.
- Install the offset ring as shown.



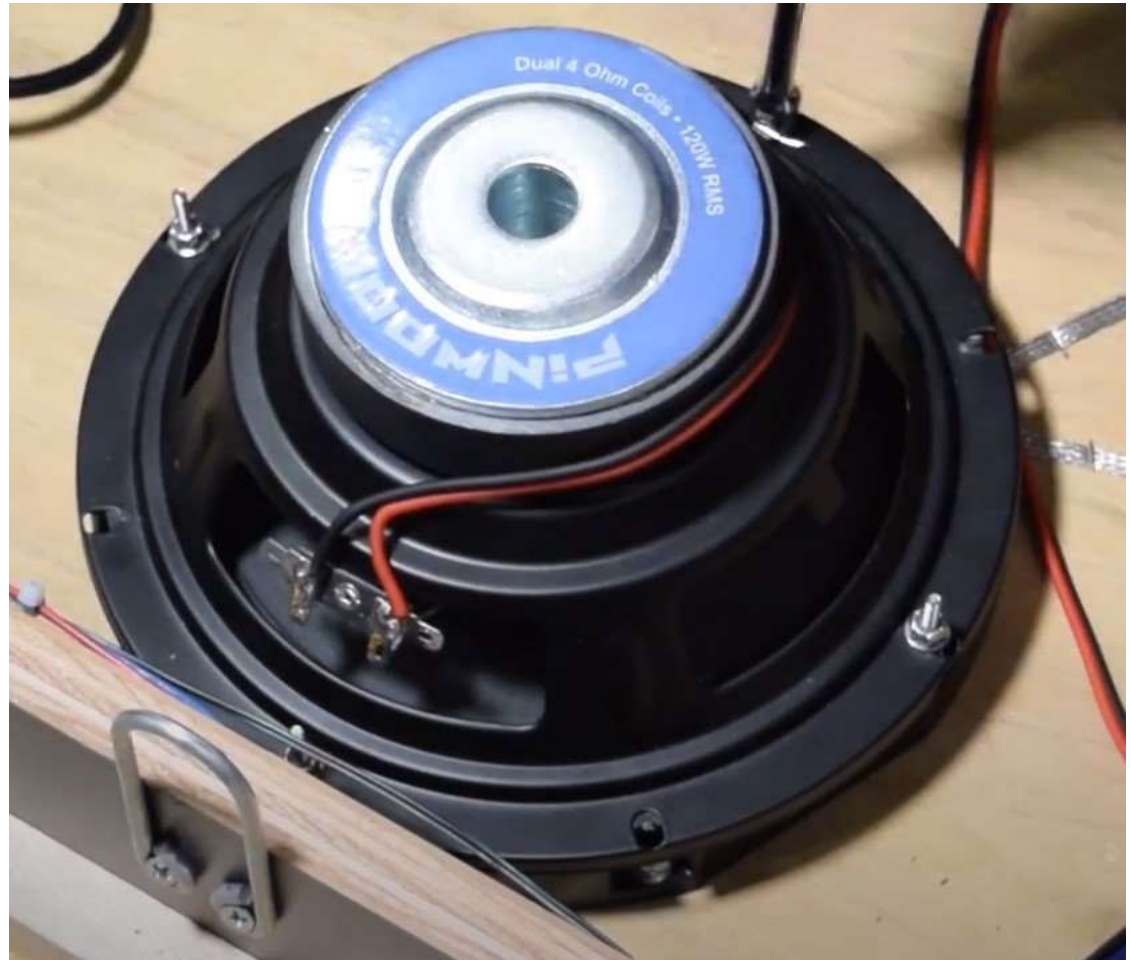
## 6in to 8in Interposer Ring

- For Data East, Sega Whitestar and WPC/WPC95, the factory most often used a 6in cabinet speaker.
- The supplied 6in to 8in Interposer Ring allows for mounting of an 8in speaker.
- Mount the ring as shown.
- It is recommended that you remove the metal grille so that it does not rattle.



## Install New Speaker

- Place the new cabinet speaker over the four pre-populated screws on the mounting ring.
- Add one #6-32 Locking Nut and one #6 flat washer to each mounting screw as shown to the right.
- Hand tighten with a 5/16in nut driver.
- Secure well, but do not over-tighten.
- Tighten in a circular pattern using care to tighten all nuts equally.



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# Playfield Glass Tape

## Step 1

- Using your preferred method, clean the glass thoroughly.
- Ensure that any residual oils or adhesives are completely removed, especially from the edges of the glass.

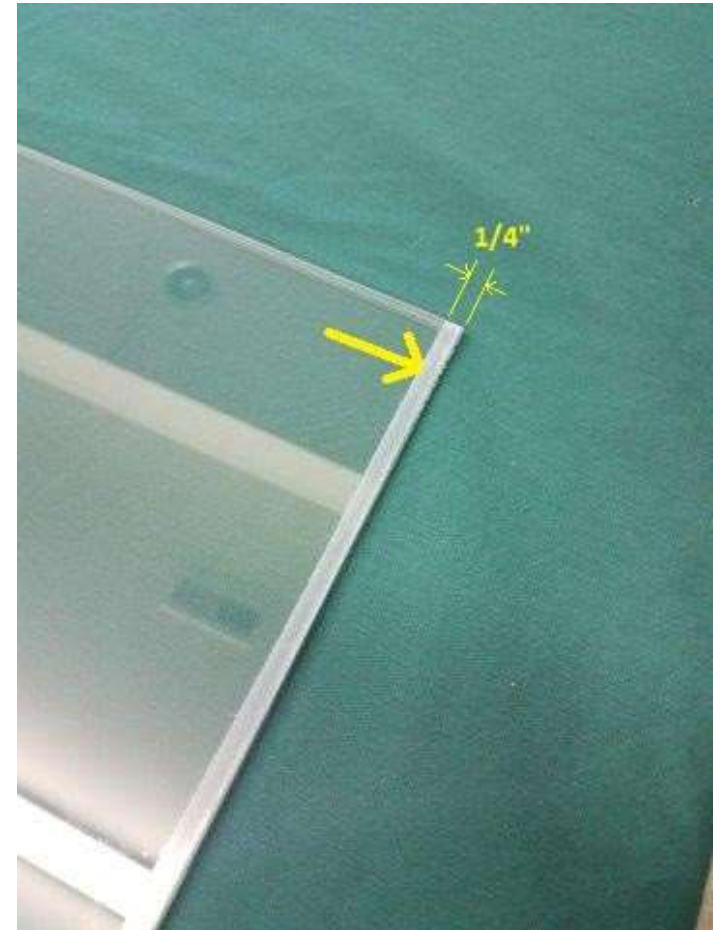


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# Playfield Glass Tape

## Step 2

- Apply one strip of tape end to end along one side of the glass, taking care to apply the tape parallel and at the edge of the glass.
- Apply tape to what will be the top of the glass.
- With only one edge taped, check the glass fit within the glass channel. If there is excessive resistance you may stop with only one side taped.
- If possible, apply tape to both sides of the glass. The elimination of all gaps between the glass and the channel will minimize glass shake and result in greater intensity / volume potential.
- **CAUTION: It is possible to seize a playfield glass in the channel. If the glass is tight at any time, don't force it. If necessary, you can trim (shorten) the length of the tape progressively, so that only part of on / each side is taped.**
- In the highly unlikely event you seize your glass, you can work a knife under the tape from the interior of the glass, get ahold of the tape, and pull it out which will liberate the playfield glass.



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