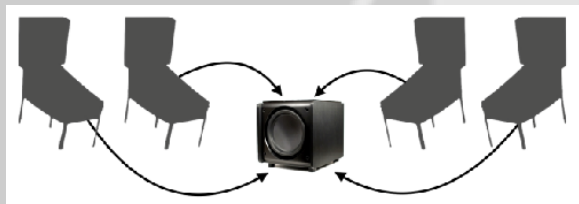


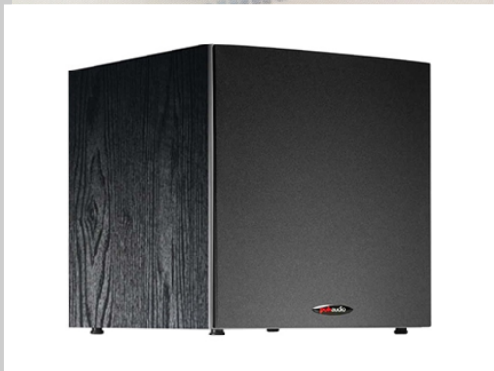


PINsmx Installation Manual

Version 1.1 May 11, 2014



PINSMX



Contents

- 1. Warnings and Agreements 1
- 2. Welcome! 2
- 3. What's included in the Kits 2
- 4. Requirements:..... 2
- 5. Control Box Installation 3
- 6. Connecting a Subwoofer 4
- 7. Final Checkout..... 4
- 8. PIN-SMX..... 4

1. Warnings and Agreements

Welcome! As with any Pinball Machine modification and add on kit, there is a required level of expertise for the installation. If you are not proficient in basic pinball parts installation we recommend having our kit installed by someone who is proficient with the basics of pinball repair. Pinnovators requires our kit be installed by an experienced Pinball service technician with basic electrical skills. As with any electrical piece of equipment a danger does exist and you must agree to not hold Pinnovators responsible for any injury, damages, etc. before continuing.

Sound Levels: Pinnovators recommends running your headphone and subwoofer sound levels at a safe level to prevent long term hearing loss. For a good example of recommend sound levels, we recommend following suggestions given by major audio equipment manufacturers such as Apple and their Ipod.

phys.org/news80304823.html
www.macworld.com/article/1060274/hearingprotection.html

ESD: We recommend always discharging yourself to a metal surface on your machine before touching the electronics inside it.

Power Cord: ALWAYS UNPLUG THE POWER CORD for safety when working on your pinball machine!





Playfield Propping: Pinnovators highly advises following Playfield propping instruction for your pinball machine. These instructions are typically found inside the Operators manual for each machine. Failure to follow these instructions can cause fatal injuries or even Death. Pinnovators also recommends having an assistant hold a propped playfield in the up position when servicing under the playfield.

2. Welcome!

The PIN-SMX allows you to connect up to four pinball machines to one subwoofer. Each input is fully isolated from the others to prevent ground loops. Each input level is fully adjustable so you can adjust each game sub level to your liking.

PINsmx is a passive mono mixer that does not require any external power supply.

3. What's included in the Kits

PINsmx subwoofer mixer kit	
PINsmx Control Box	
Interface Cable and adapter	

4. Requirements:

- A. Pinball machine with Cabinet speaker output tap such as Pinnovators SAMsub kit or PINPac2+ headphone kit.

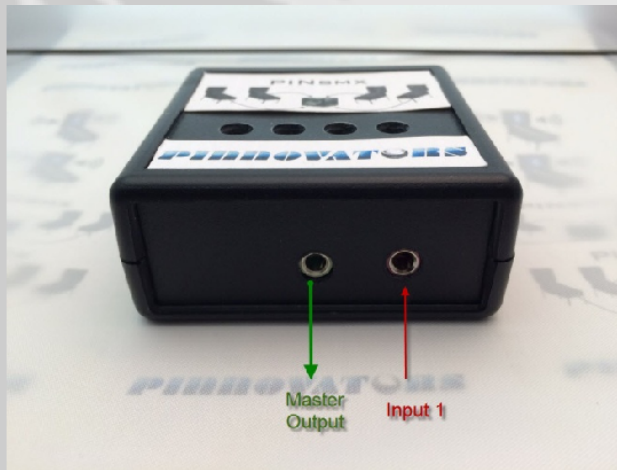
5. Control Box Installation

We will assume you have our 12 foot 3.5 MM male to male cable bringing the cabinet speaker audio out of your pinball system. Please see the installation manuals for these products.

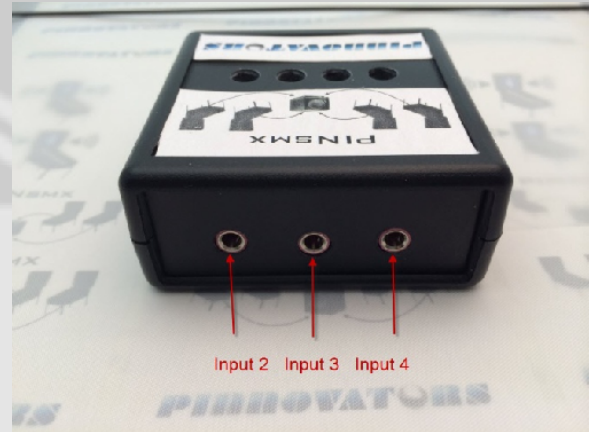
Let's start by discussing the different connectors on the PINsmx control box

The front panel on the PINsmx has two connectors. The Green connector is the output of the mixer and connects to your subwoofer using the included cables.

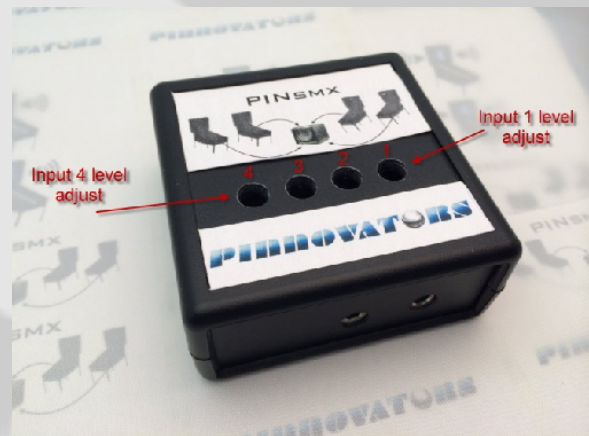
The Pink connector is input #1. The subwoofer output from your #1 pinball machine comes in on this connector.



The rear panel of the PINsmx has inputs two, three, and four. These inputs connect to your other three pinball machines.



The levels of the four machines can be fully adjusted to your liking by using a small screwdriver and inserting it in the holes on the top of the box. Be careful when turning the controls! Do not force them beyond their end points. The controls are robust but delicate.



6. Connecting a Subwoofer

Pinnovators provides a 12 foot cable to give you the flexibility of placing your subwoofer close by to your pinball machine. The end of the cable has a 3.5mm male plug on the end. Plug this end into a subwoofer that has a 3.5mm input. Some of the Yamaha home subwoofers only have a 3.5mm input so this will work great in that situation. Smaller computer subwoofer systems will also have a 3.5mm input as shown below.



Pinnovators recommends the Polk Audio PSW10 subwoofer. This model is very affordable and produces great sound!

Use the included 3.5mm female to RCA adapter cable to connect to this speaker.



7. Final Checkout

Power up your subwoofer!

Adjust the volume to about $\frac{3}{4}$ of maximum.

Power up your pinball systems!

Start a game!

Adjust game volume to your liking.

Adjust the individual PINsmx levels to your liking.

8. PIN-SMX

Enjoy your new Subwoofer kit!,
The Pinnovators team.