

PS4 Hit Box Brook Adapter Installation Notes

Table of Contents

| | |
|--|---|
| Liability statement..... | 2 |
| What is this?..... | 2 |
| Who is this (not) for?..... | 2 |
| What is in the kit?..... | 3 |
| Installation..... | 3 |
| Remove the back cover..... | 3 |
| Remove the mounting bolts from the PCB Breakout..... | 4 |
| Remove the 4 button harness connectors and USB connector..... | 4 |
| Install the Breakout Adapter..... | 5 |
| Replace the 4 button harness connectors and USB connector..... | 5 |
| Find a spot to mount your alternate PCB..... | 6 |
| Connect the 4 Pin cable..... | 7 |
| Connect the 20 pin cable..... | 8 |
| Connect the USB Cable..... | 8 |
| Replace the back lid and you are done..... | 8 |
| About the unpopulated CN5 connector..... | 9 |
| Contact Us..... | 9 |

Liability statement

Hit Box LLC is not responsible for damages caused to your controller or your controller PCB when installing this mod. **Install at your own risk.** We replace, repair or refund defects and we are available for help and advice at both support@hitboxarcade.com and through our discord. (<https://www.hitboxarcade.com/discord>)

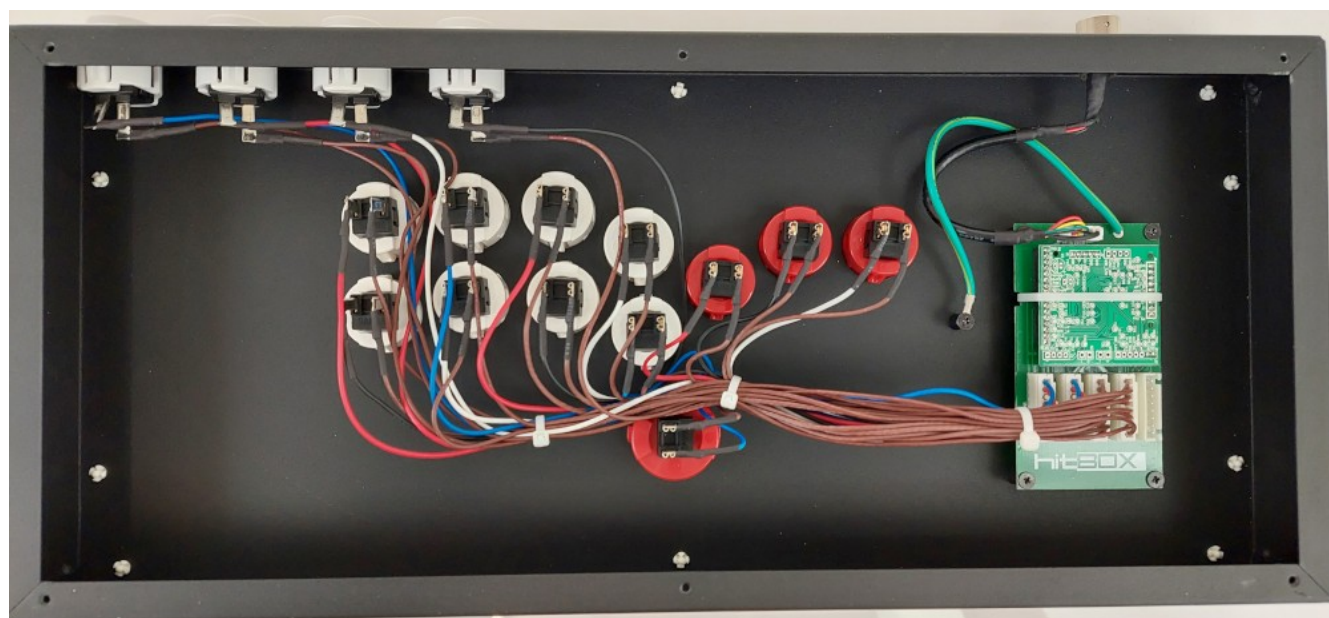
What is this?

This kit helps you connect your Hit Box to a Brook-compatible board (UFB, PS4 Audio+, PS360, etc) by breaking out the buttons to the Brook 20-pin and auxiliary 4-pin connector. It also routes your replacement board to the Hit Box's USB port so you can continue to use the cable that came with your controller. It's a drop-in replacement board for Hit Boxes made after June 2020. Installation takes less than 15 minutes from start to finish.

Who is this (not) for?

This kit is only for Hit Box users who have purchased a Hit Box made after June 2020. These controllers are identified as having 5 white connectors on the left side of the board (4 of which are populated and 1 that is not). They're labeled as connectors CN1 ~ CN5 and the connectors can be unplugged from the board.

It is not for people with PS3/360, Xbox One, Pre-2016 PS4 (3 buttons on the back), or Pre-2020 Hit Boxes. If the inside of your Hit Box does not look like the one below then this kit is not drop-in compatible.



What is in the kit?



(From Left to Right)

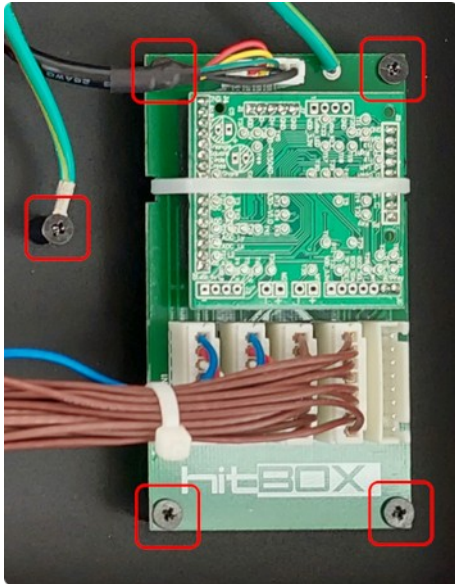
- Hit Box Breakout Adapter
- 20-pin cable
- 4-pin cable
- USB-B to A Cable

Installation

Remove the back cover

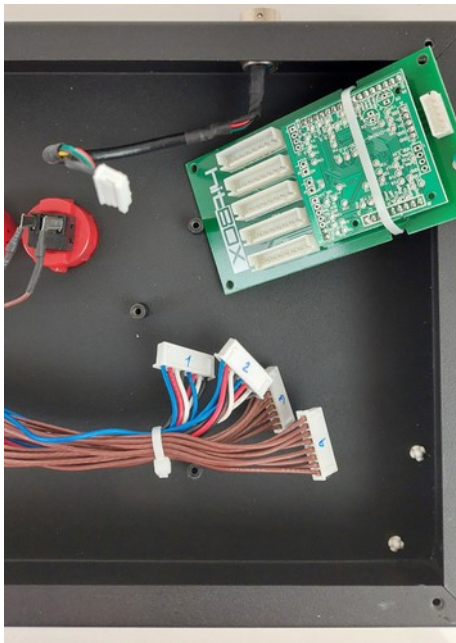
Six bolts fasten the back plate to the rest of the Hit Box. In some cases, the center bolts may be hex bolts (2.5mm). For the remaining bolts, you will need a Philips #1 screwdriver.

Remove the mounting bolts from the PCB Breakout



Five bolts fasten the PCB breakout to the mounting posts. Make sure not to lose these because you will need them for your replacement PCB.

Remove the 4 button harness connectors and USB connector



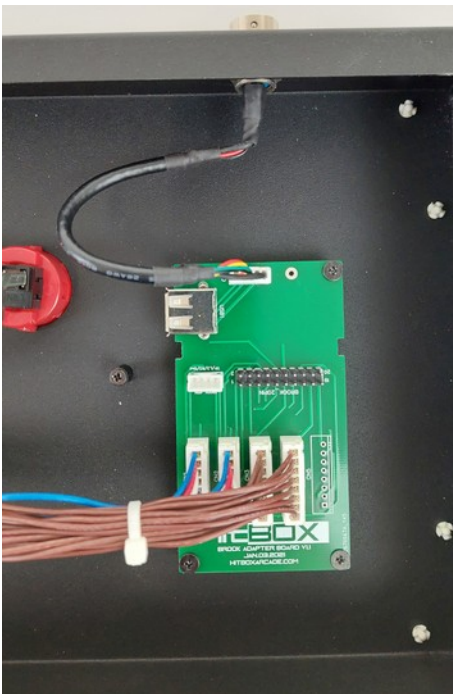
The button wire harnesses are usually (but not always) numbered. The Hit Box breakouts connectors have the designation CN1, CN2, CN3, CN4 and or CN5 above each connector. Make sure you know which harness attaches to which connector because the adapter kit retains this connection scheme.

Install the Breakout Adapter



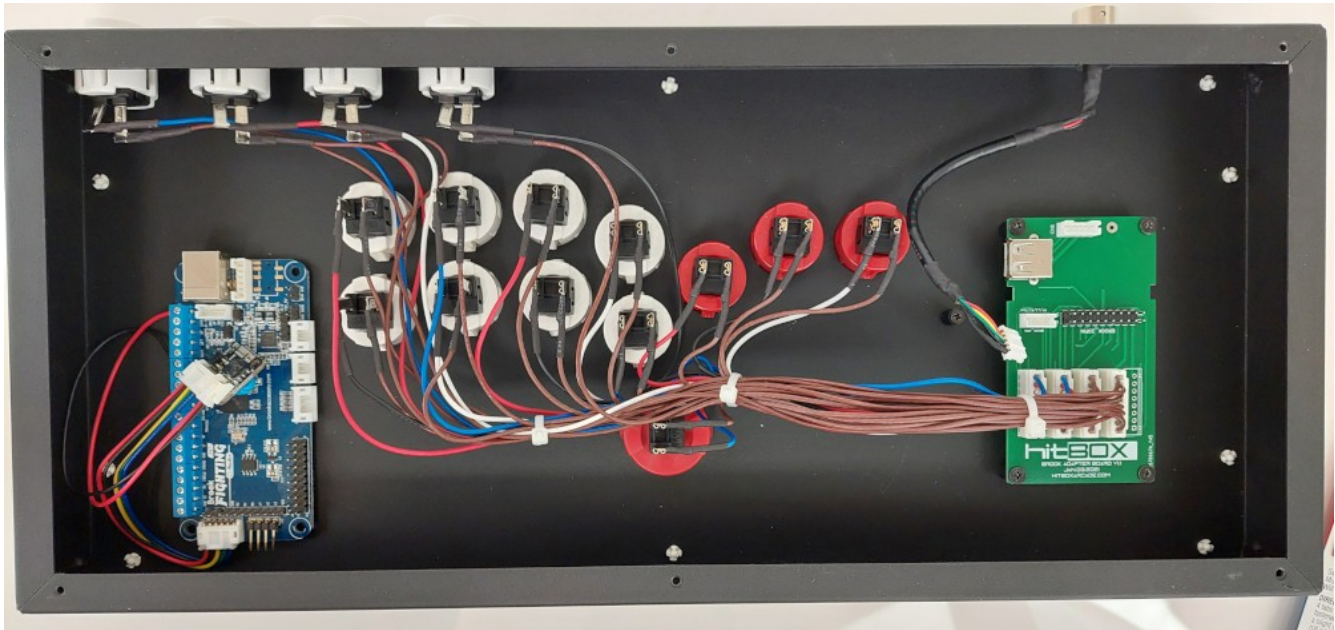
The adapter fits over the mounting posts using the same bolts that you took out of the original breakout.

Replace the 4 button harness connectors and USB connector



The button harness connects to this board in the same order as it does on the original board.

Find a spot to mount your alternate PCB



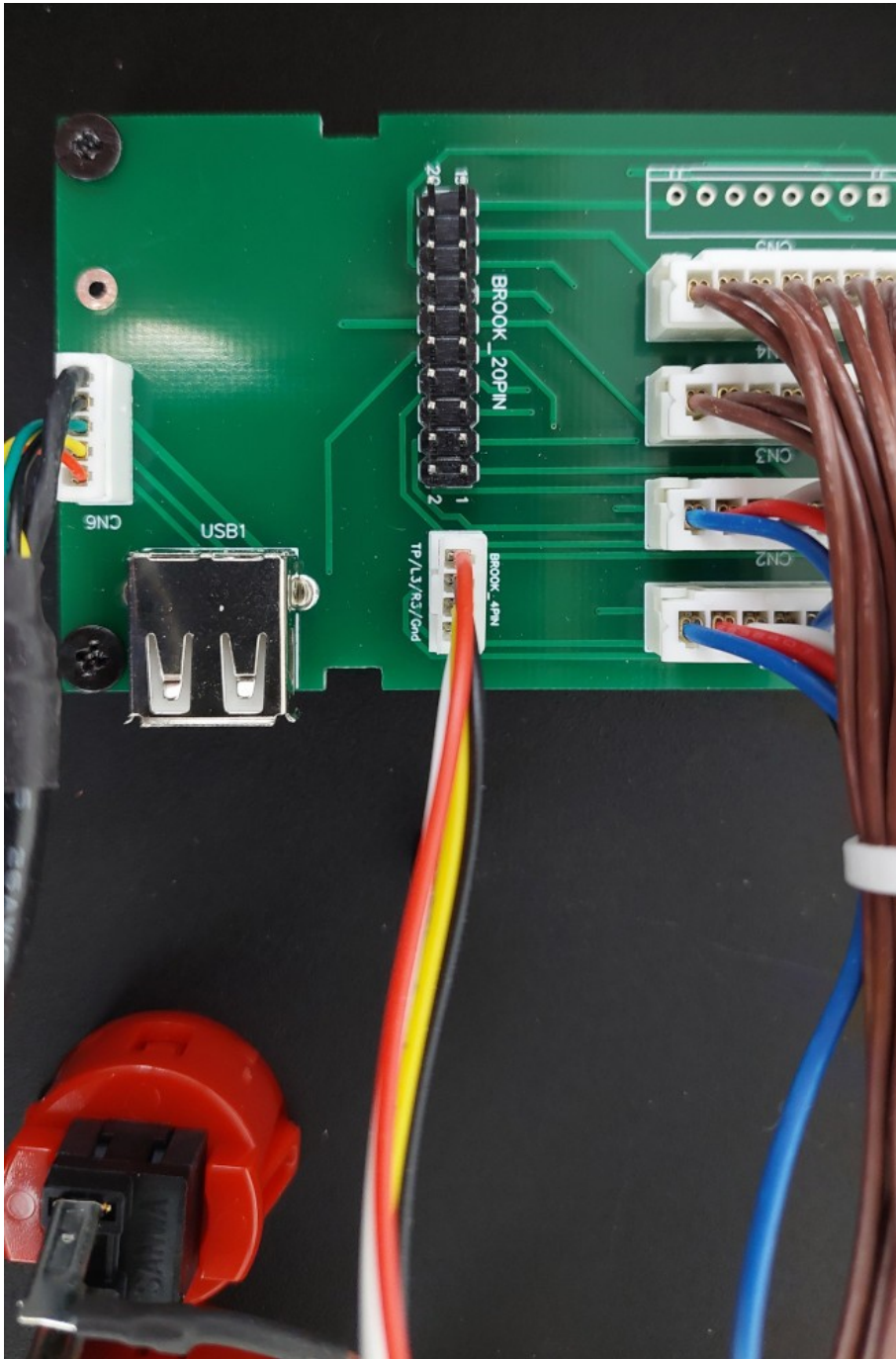
The kit comes with cables that are long enough to mount your alternate PCB nearly anywhere inside of the Hit Box. It is recommended you mount it on the right side of the controller around where the attack buttons sit.

Warning: there is a risk of destroying your PCB if uninsulated leads make direct contact with the case. To prevent this, make sure the underside of your alternate PCB is properly mounted such that solder blobs on the underside do not touch the metal case directly.

There are several options for mounting your alternate PCB. Adhesive-backed PCB standoffs, mounting putty, and electrical or gaffing tape are common solutions. **The Hit Box case is steel and is electrically conductive. Make sure that solder joints from your alternate PCB don't make contact with the case.** You can use Gorilla tape, gaffing tape, or HDPE to insulate your board.

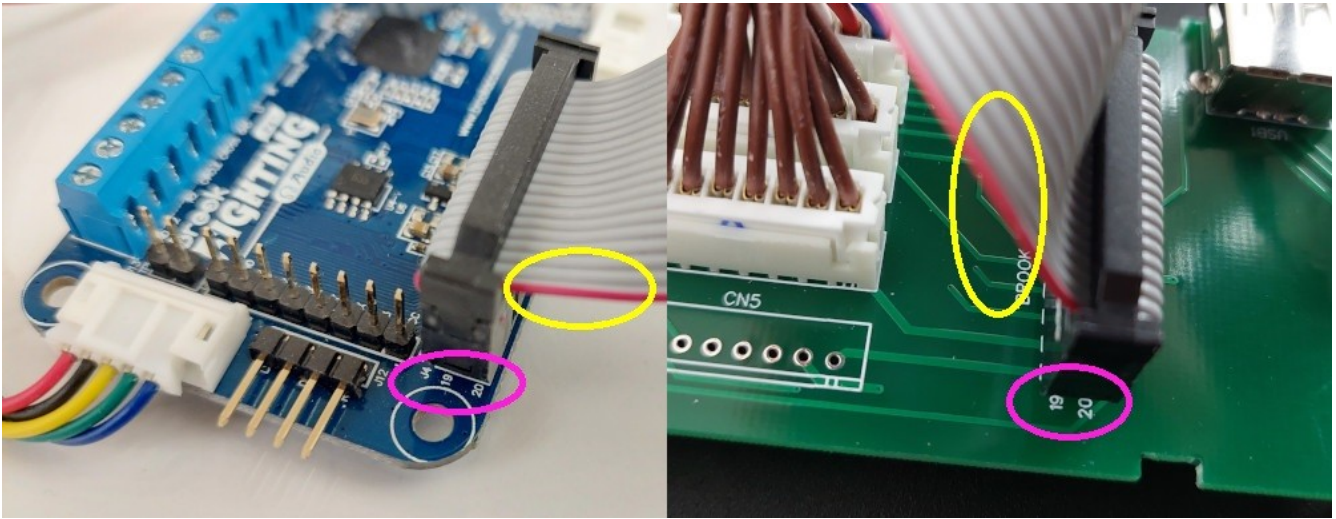
In the above example, the PS4 Audio+ Fighting Board has a layer of gaffing tape on the underside of the board and is fastened to the case with double-sided vinyl mounting tape. The Brook UP5 board is also insulated with gaffing tape and is fastened directly to the Audio+ board using Loctite Mounting Putty.

Connect the 4 Pin cable



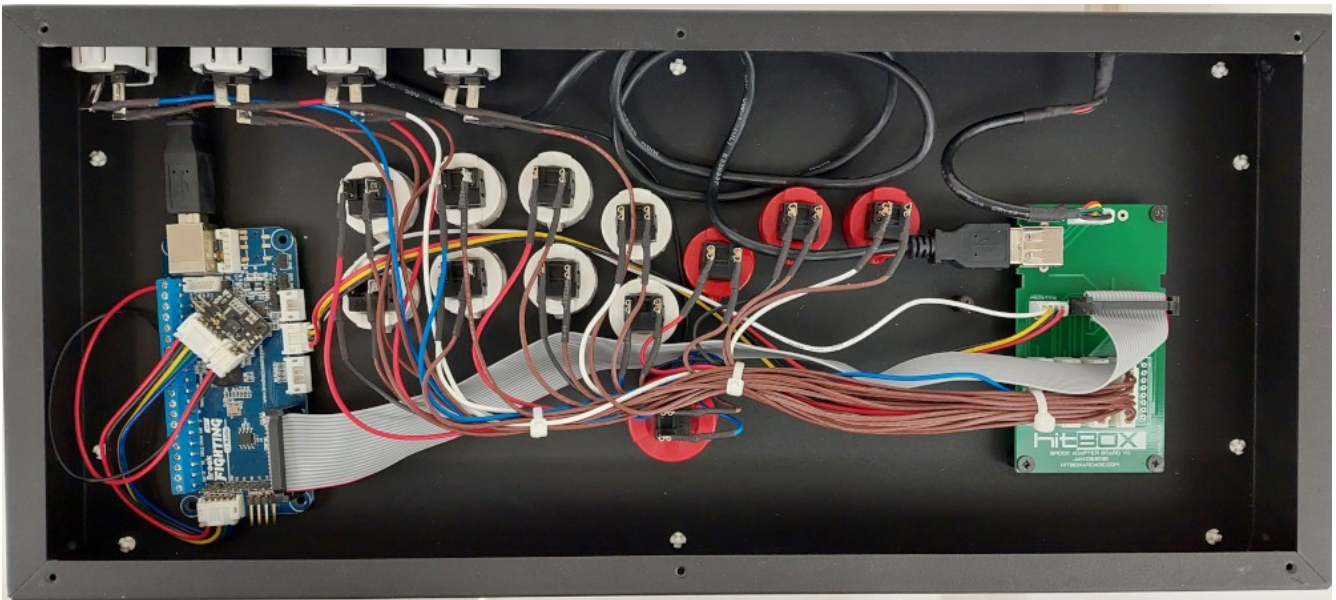
The 4-pin cable connects L3, R3 and Touchpad. This connector is not always present on Brook boards, so you may have to solder it in yourself. The notch on the cable is situated to plug into the most common orientation found on Brook boards.

Connect the 20 pin cable



The 20-pin cable has a stripe on one side. Make sure to orient your cable such that the red stripe faces the same side on both the breakout and the board. In the above photo, the stripe (circled in yellow) is closer to the side labeled the pin designators 19 and 20 (circled in magenta). This orientation must match or else your controller will not receive inputs.

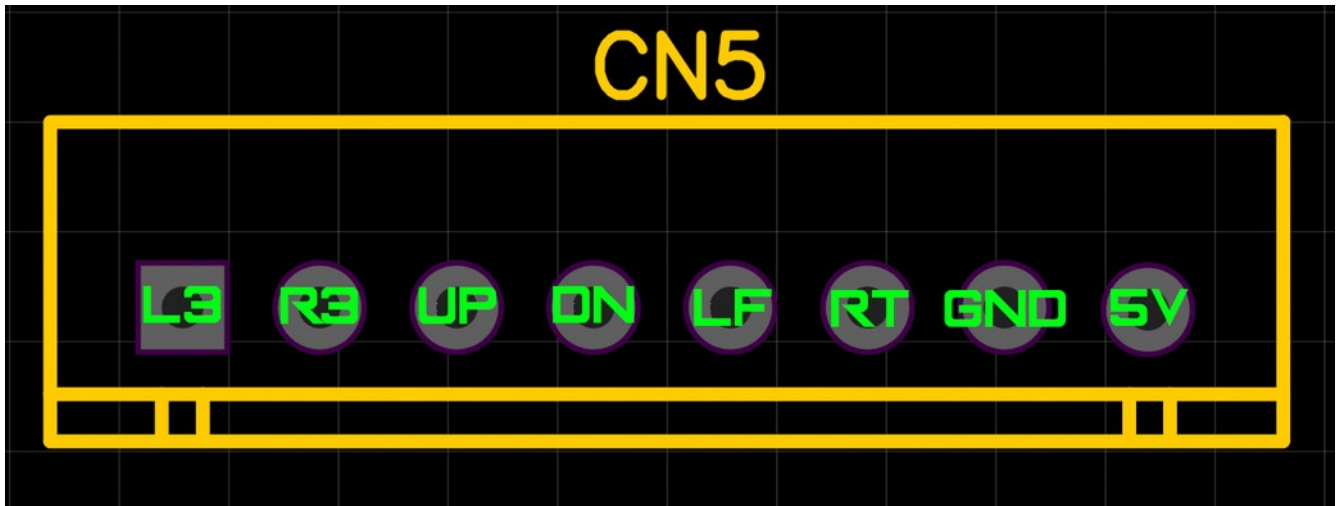
Connect the USB Cable



The included USB cable will connect your alternate PCB to the Hit Box case USB port. Our existing detachable cable can then be used on any system that connects through USB.

Replace the back lid and you are done

About the unpopulated CN5 connector



The unpopulated connector breaks out L3, R3, the 4 dpad directions, along with a ground and 5v line. These ports can be tapped for any number of mods, but have been left bare for the adapter kit. You can solder directly to them to tap power (say, for LEDs or for L3 and R3). Again, all mods are performed at your own risk.

Contact Us

If you have any questions about this or any other Hit Box products we're available at:

Website: <https://www.hitboxarcade.com>

Twitter: https://twitter.com/hit_box

Facebook: <https://www.facebook.com/hitboxarcade>

Discord: <https://www.hitboxarcade.com/discord>