

XBOX One

Remap Modchip

Solderless Modchip

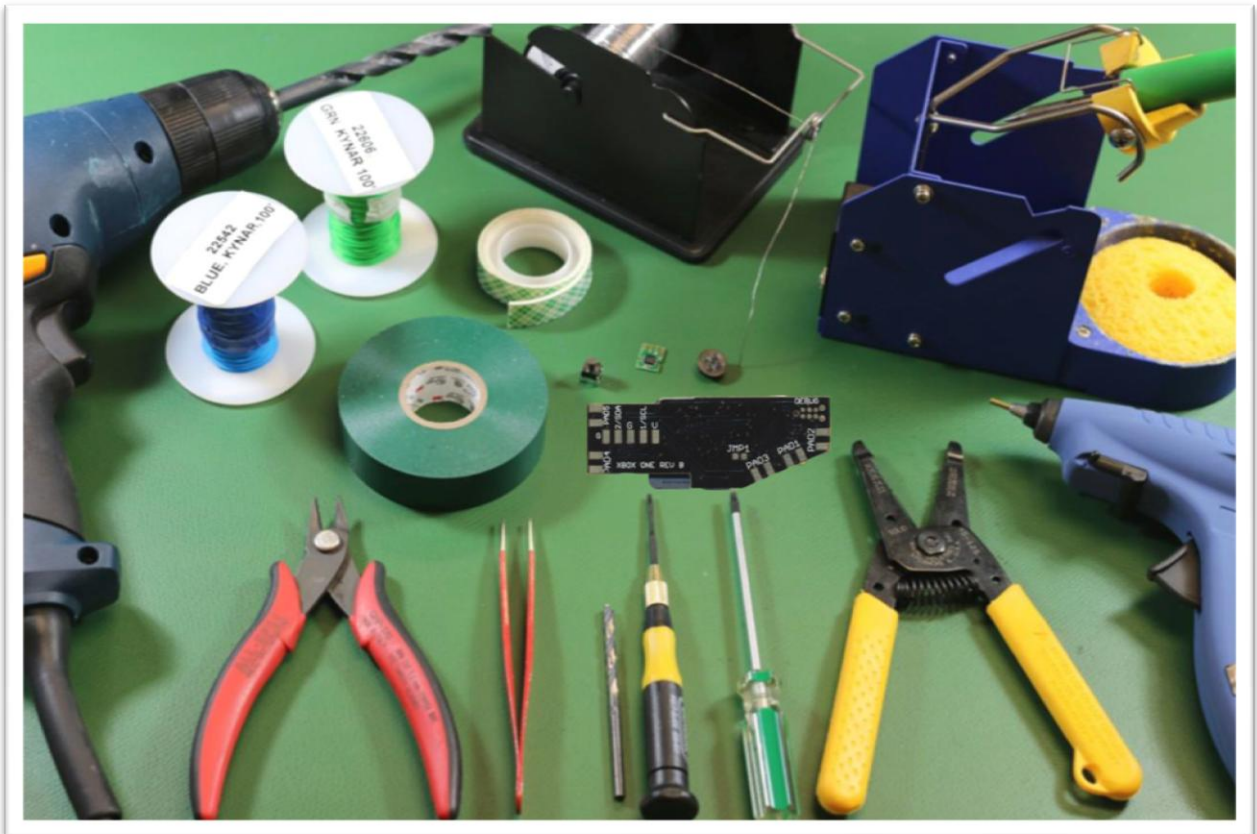
Installation and Use Instructions



Revised 1/21/2015

Tools needed

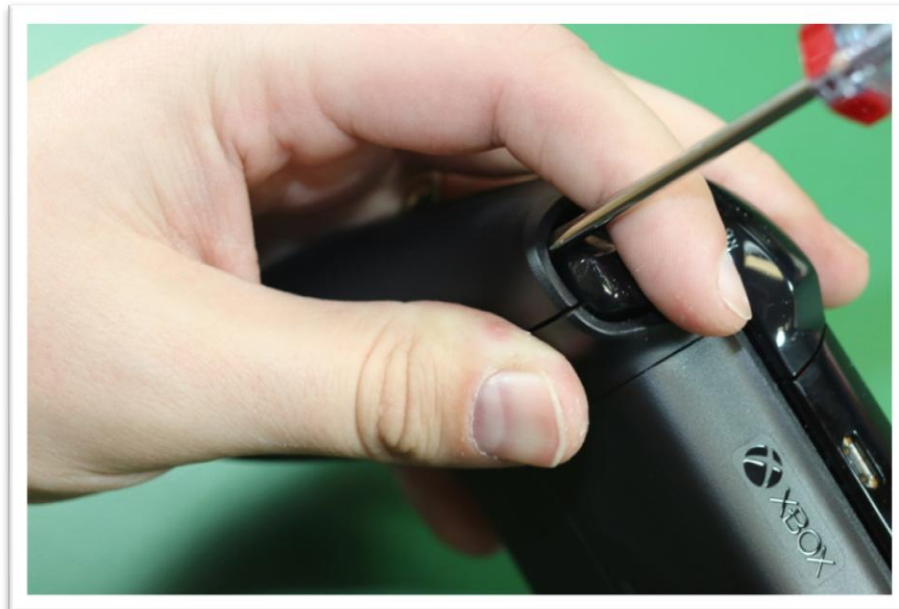
- XBOX One Controller
- Viking XBOX One Remap Solderless modchip
- Tactile switches
- Soldering iron and solder
- 30 AWG wire (American wire gauge) or similar
- Wire strippers (capable of stripping above wire)
- Electrical tape
- Small flathead screwdriver or similar prying tool
- Security Torx 8 and regular Torx 6 screwdrivers
- Power drill
- 9/64 inch drill bit
- Hot glue and glue gun
- Safety glasses
- Additional useful items: flux, tweezers, scissors, wire snippers, etc.



Remove the screws and cover



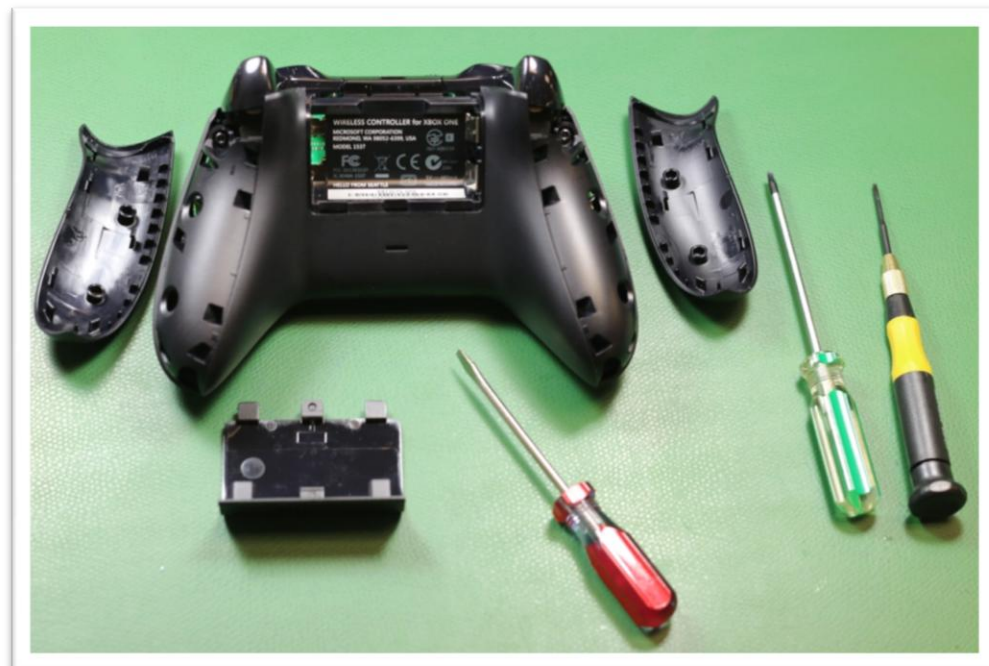
You'll need to remove two plastic handle covers to reveal the screws. Special care should be taken not to scratch the shell. One way to accomplish this is to use a small flat-head screwdriver as a prying bar. Depress the trigger, then push the screwdriver in next to the trigger such that it won't scratch the trigger. Use the screwdriver to pry the handle away from the shell.



Once you've started with the screwdriver, you can finish removing the handle covers with your fingers. Some force is required to pull the covers off.



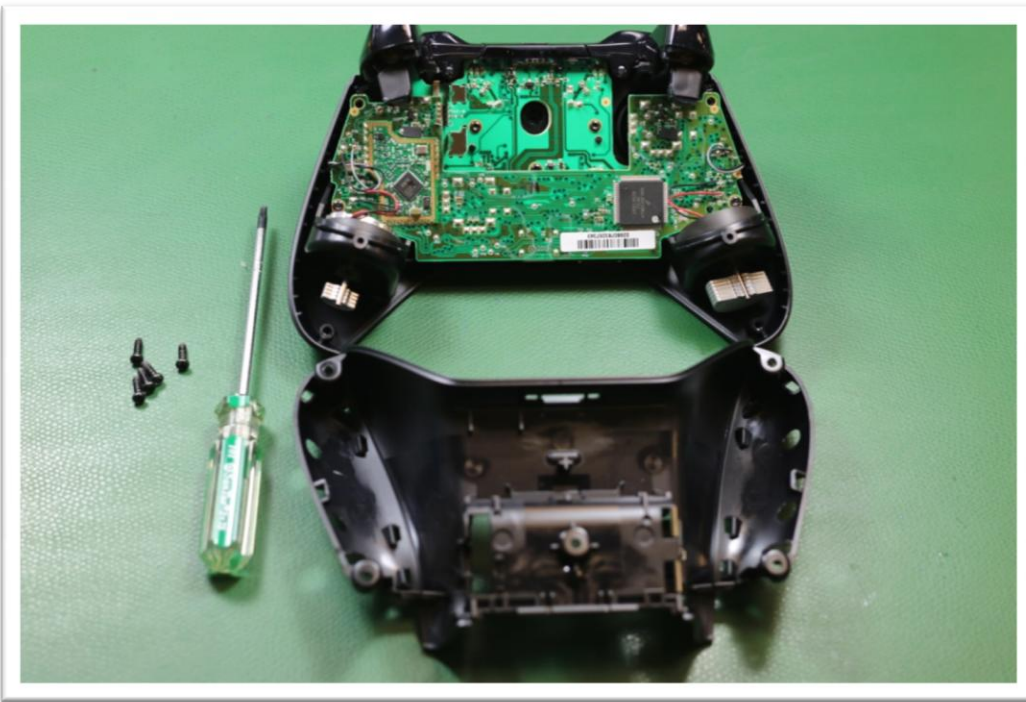
Once the handle covers are removed you'll need your Torx screwdrivers. Go ahead and remove the battery pack cover now.



There are five screws that need to be removed. Each screw is indicated in the photo below with a red arrow.



Once the five screws are removed, flip the shell over to expose the circuit boards inside of the controller.



The faceplate can also be lifted off, and the thumb stick caps should be removed and set aside.



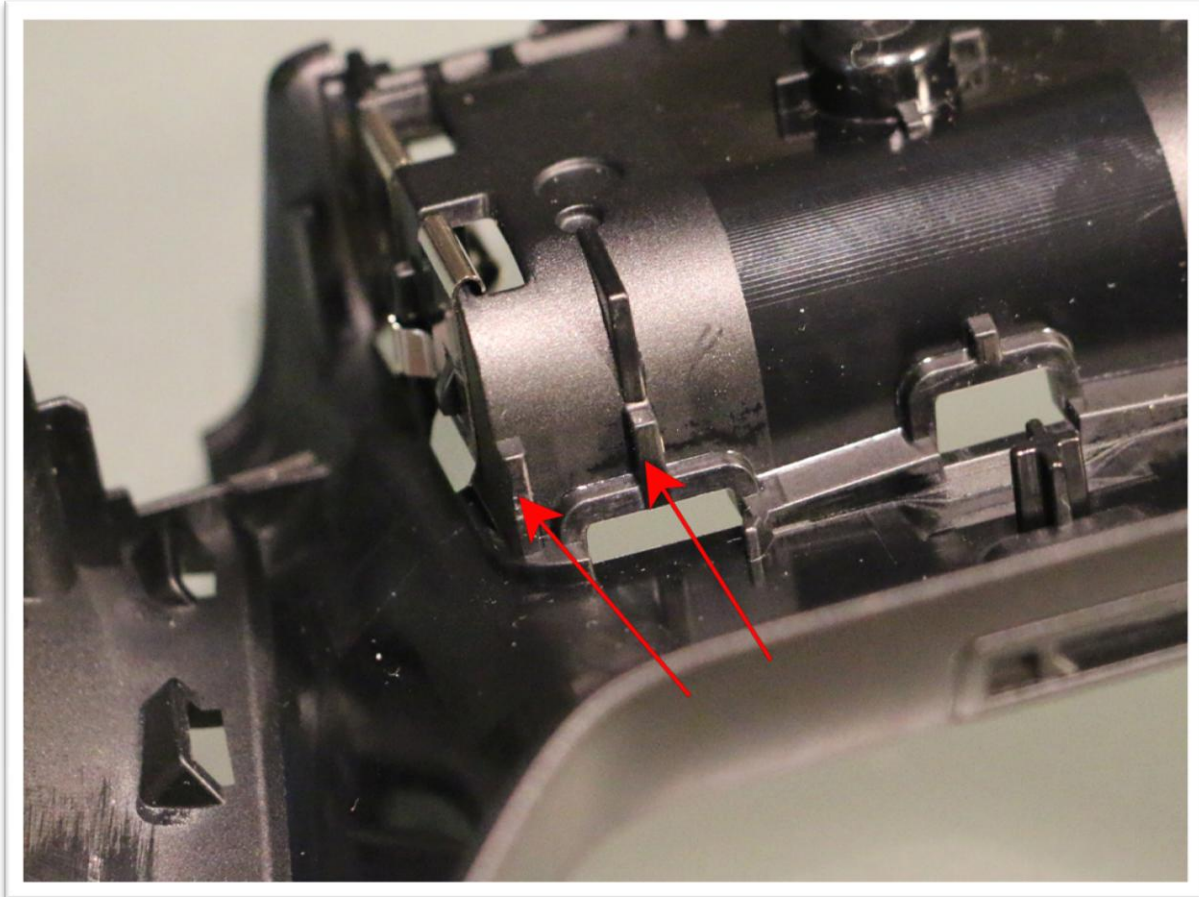
Drill Shell and Install Tac Switches

Drill a hole for, and use hot glue to install, the mod switches as desired. One possible location for the mod switch is illustrated below, but there are many different locations where a mod switch could be installed.



Trim the shell

Use snips to trim off the two plastic tabs indicated in the photo below. These tabs must be removed – failure to remove the tabs could result in the tabs pressing against the solderless modchip and knocking it out of position.

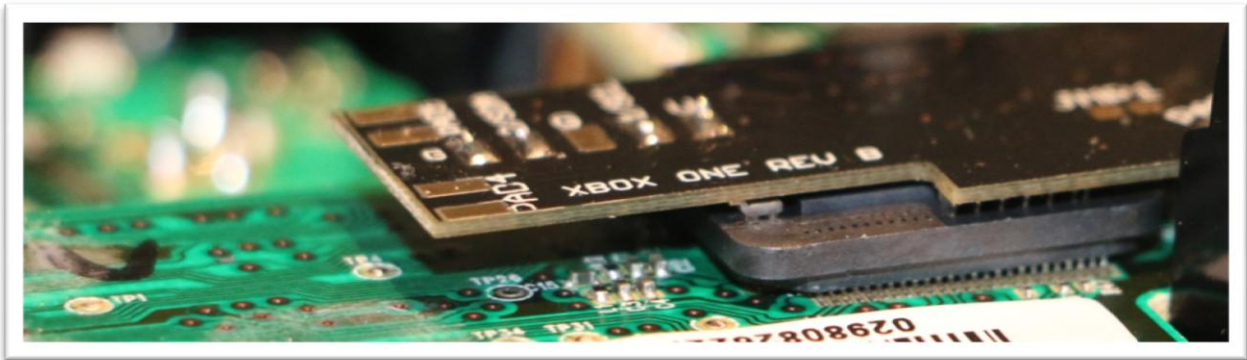


Install the modchip

THIS STEP OF THE INSTALLATION IS ABSOLUTELY CRITICAL, AND REQUIRES PATIENCE. FAILURE TO USE FINESSE TO INSTALL THE CLIP COULD RESULT IN DAMAGE TO THE PINS OF THE CPU OR THE CLIP.

Gently lay the modchip's clip onto the main CPU of the controller's circuit board. Without applying pressure, gently move the clip around on the CPU until the clip is covering about $\frac{1}{2}$ of the pins of the CPU on ALL FOUR SIDES.

Note the picture below shows INCORRECTLY POSITIONED CLIP. Notice how the modchip does not evenly cover $\frac{1}{2}$ of the pins on all four sides:

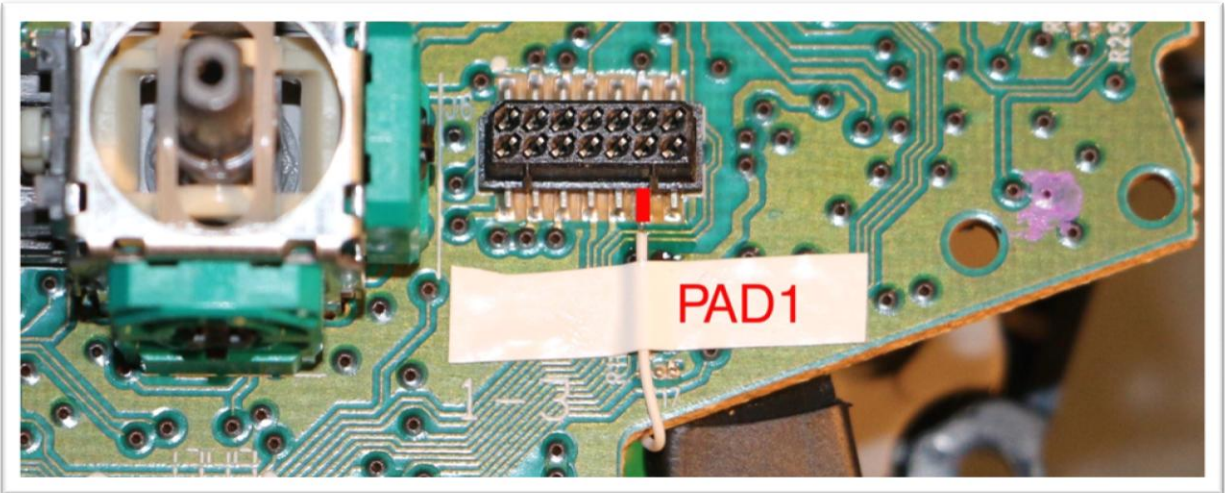


The photo below shows a correctly positioned clip, the clip is evenly covering $\frac{1}{2}$ of the CPU pins on all four sides. Once the modchip is sitting in this position, to a gentle touch it will feel as if it has “locked in”.

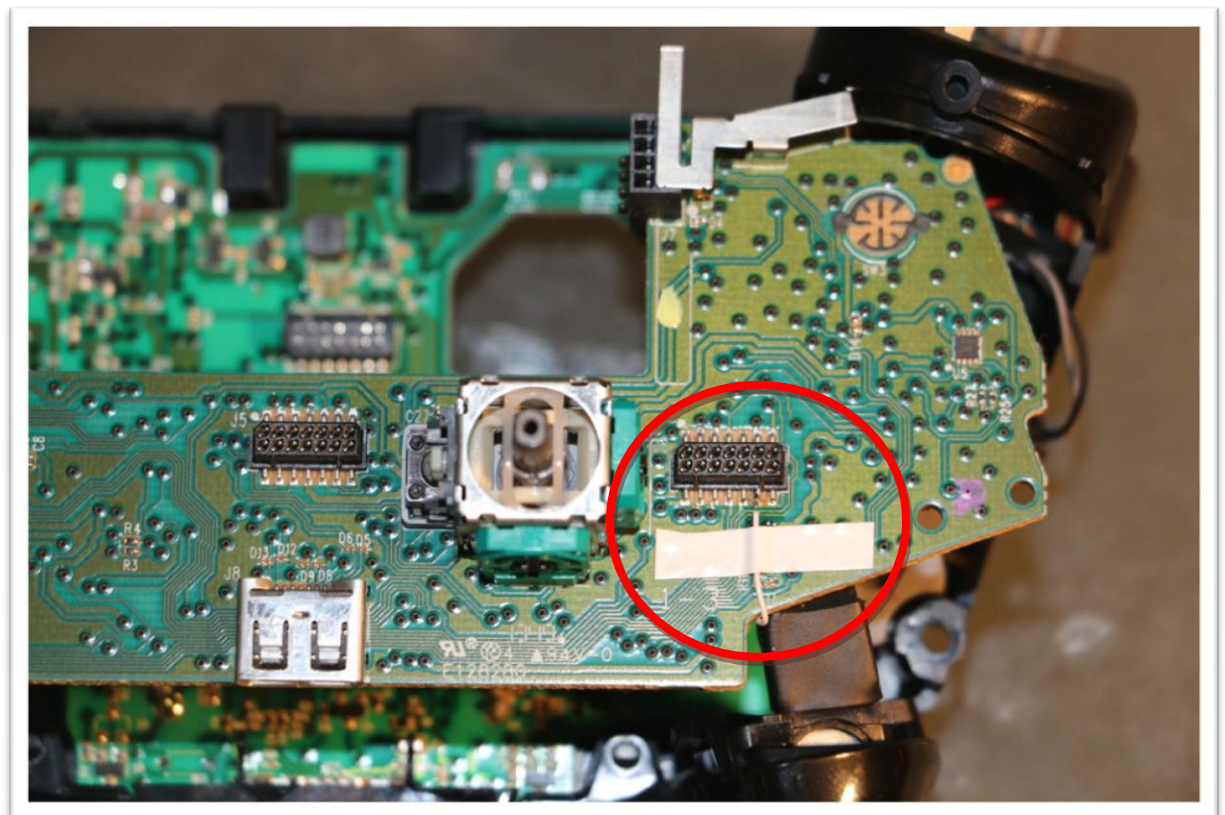


Once the clip is aligned, apply even pressure downward and press the clip onto the CPU.

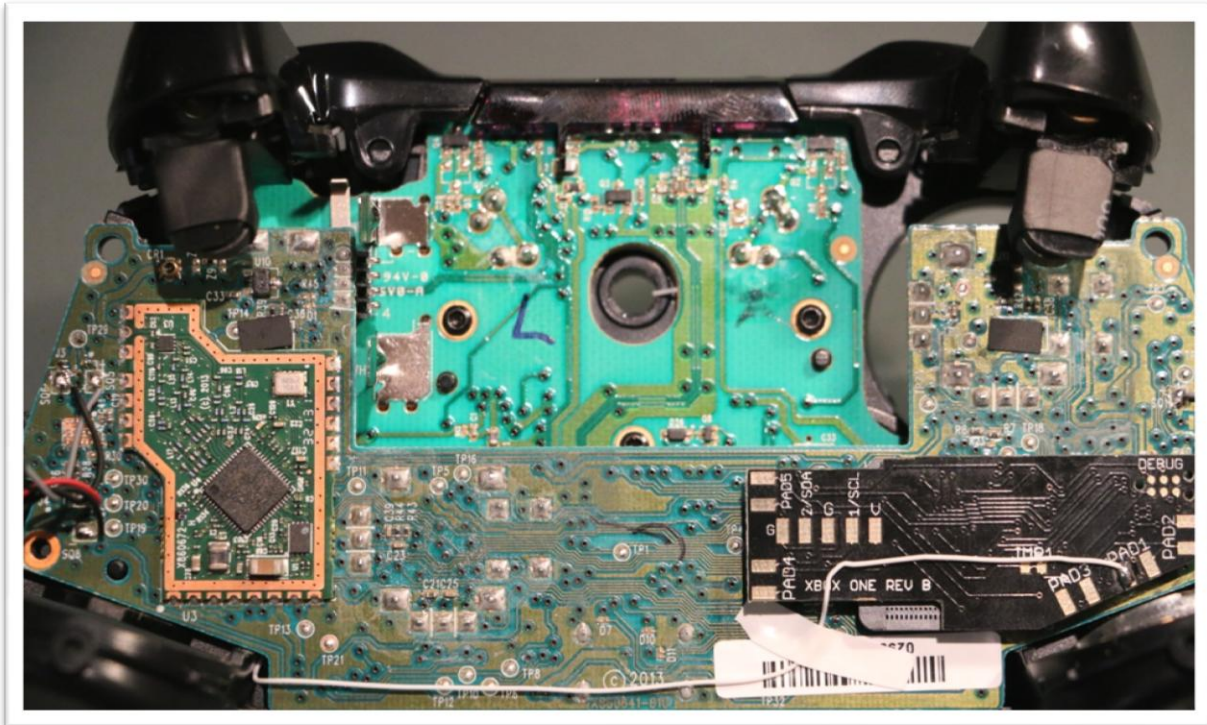
Solder one wire to the location shown on the “J6” header. This wire will go to “PAD1” on the modchip:



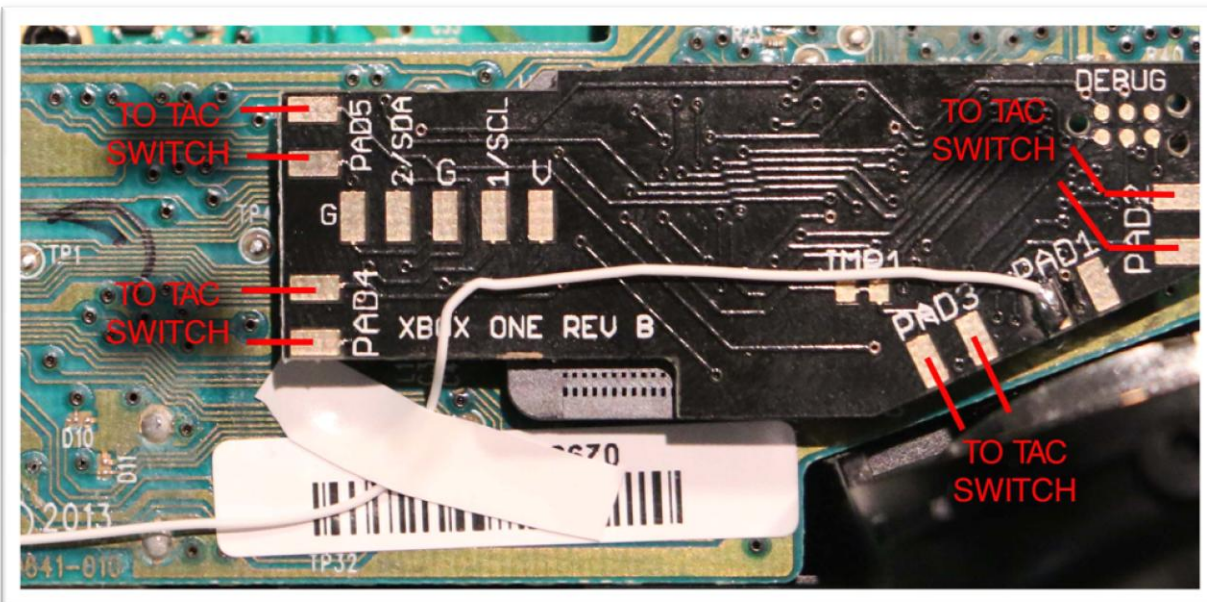
Secure the wire and wrap it around the circuit board:



Route the “PAD1” wire around the board and secure it so that it will not be pinched when you close the controller shell together. At PAD1 there are two rectangular solder pads, in this case you must solder to the left-most rectangular pad, as shown in the photo below:



Install up to four remappable tac switches to “PAD2”, “PAD3”, “PAD4” and “PAD5”:



Put the controller together

Install the faceplate and back half of the shell. Be sure to keep an eye on all wiring harnesses and route them such that they are not pinched or short-circuited as you close up the shell. Re-install the five screws into the back half of the shell. Re-install the handle covers.



Your XBOX One controller is now modded! Please note that the controller **MUST** be sync'ed to a console before any of the mods will work.



Setup the Remappable Buttons

The XBOX One controller can be connected to a Windows PC. In order for the modchip to work, the controller must be synced either to a Windows PC (using a standard USB to micro USB cable) or to an XBOX One console.

To enter button programming mode: Once synced to a PC or console, hold the VIEW button (the button with three wavy lines) for at least 3 seconds, then release. The modchip is now awaiting you to program your tac buttons. You may hold the button for longer than 3 seconds, but it must be held for at least 3 seconds.

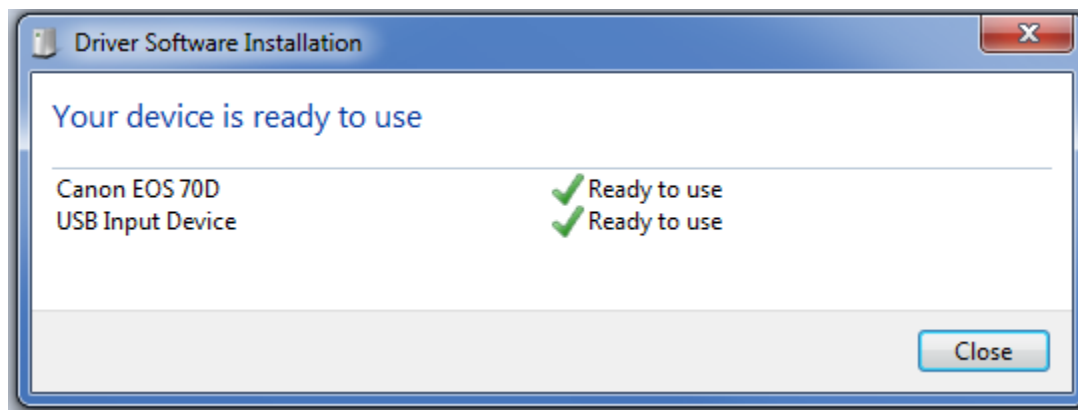
To program a tac switch: Once in programming mode, hold down any tac button, then tap a stock button to map it to the tac switches.

To exit programming mode: When you are done setting up all your tac switches, hold the VIEW button (the button with three wavy lines) for at least 3 seconds, then release. This exits the tac switch programming function. You may hold the button for longer than 3 seconds, but it must be held for at least 3 seconds.

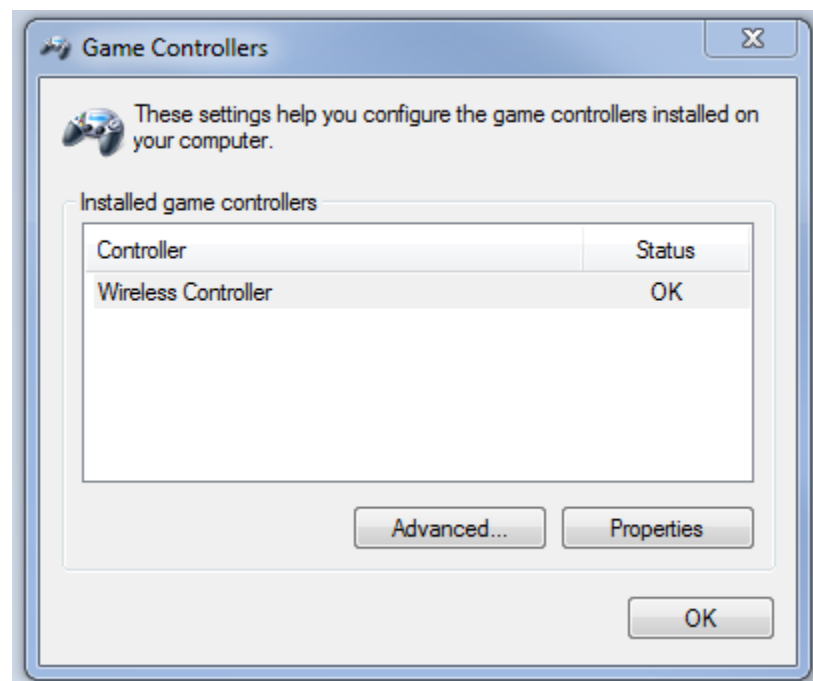
To use the remappable tac switch: After the tac switch is setup to emulate a stock button, just press it – you now have a remapped tac switch that emulates a stock button press.

Test the Controller

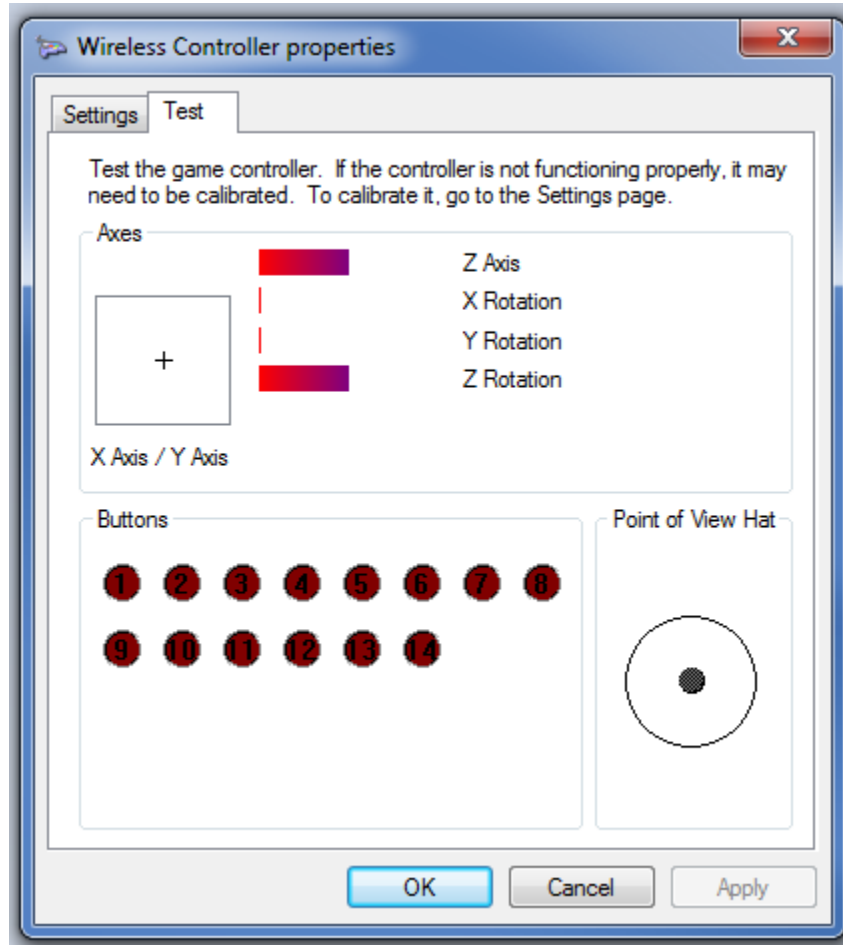
The XBOX One controller can be connected to a Windows PC. In order to connect, you must download the official Microsoft Windows drivers for the XBOX One controller. At the time this manual was written, the drivers could be downloaded at this link: <http://support.xbox.com/en-US/xbox-one/accessories/controller-pc-compatibility>



Once the drivers are installed, on Windows 7 for example, connect your controller by USB to your computer, and then type “Set up USB game controllers” into the search bar to launch the Windows native game controller tool.



The tool can be used to check that all button presses are functioning properly.



Once all button presses have been confirmed working and mods have been tested, it's time to play!