**Title**

One-Handed Mods for Xbox One Controller

**Subtitle**

3D printed Modifications to make an Xbox One controller accessible with only one hand.

## Device Specifications

Build Time:

 < 1hr

1-4 hr

 5-10hr

 >10hr

Cost:

 $0 - $10

 $11 - $25

 $26 - $50

 $51 - $100

 $101 - $250

 $250+

Stage:

Skills:

Need:

Disability:

Difficulty:

License:

Usages:

Type:

Designer:

## Device Details

### Overview

### This inexpensive 3D printed modification for the Xbox One controller will allow for the user to operate their Xbox One controller with one hand. This controller adaptation makes it easier for someone who may have a difficult time holding a controller with both hands, or has greater dexterity with one hand than the other.

### Compatibility

Note that the Xbox controllers can be used on PC based gaming and can be used with a Nintendo Switch with the correct adapter.

Platforms: Xbox Series X|S, Xbox One, Xbox 360, PC, Nintendo Switch (with a similar [adapter](https://www.amazon.ca/Mayflash-Magic-NS-Wireless-Controller-Nintendo/dp/B079B5KHWQ/ref=asc_df_B079B5KHWQ/?tag=googleshopc0c-20&linkCode=df0&hvadid=292937839648&hvpos=&hvnetw=g&hvrand=11899347943701197930&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9000712&hvtargid=pla-487335326322&psc=1)).

Controllers: Xbox One Controllers

### Usage

This controller adaptation allows for the user to operate their Xbox Series X|S controller with only one hand. For a left handed controller, the right joystick is used by moving the whole controller. By moving the controller, the 3D printed parts enable the joystick to move simultaneously. In addition, the right shoulder buttons are migrated to the left side so all four shoulder buttons can be used with the index finger. Similarly, four 3D printed arms are used to allow the user to press the A, B, X, Y, and home buttons from the left side.

There are two different attachments for the bottom of the controller shown below that can be used depending on whether the user chooses to strap the controller to their leg (right), or can rest it on their lap or a surface of their choice using the “shoe” (left).

### Build Instructions

#### A set of instructions for assembling this modification for the Xbox One controller can be found through our GitHub Repository and through the [YouTube assembly video](https://www.youtube.com/watch?v=QOOU2KnhcHA) linked above.

#### The Xbox One controller is asymmetrical, so this controller modification has different files for the left and right-handed modifications.

#### Skills Required

* 3D printing

#### Tools

* 3D printer
* Scissors

Optional:

* Rubber bands can be added to the bottom piece of the controller (shoe) to increase grip strength.
* Raw filament can be cut and used as pin joints between some of the pieces.
* Sandpaper to smooth the ball and socket joints.
* Vaseline to lubricate the ball and socket joints.

#### 3D Printing

All components can be printed with no support at 20% infill with a 0.2mm layer height. All pieces can be printed using PLA filament. If possible, it is recommended to print the “shoe” piece in TPU, but if printed in PLA add rubber bands around the piece for additional grip. 3D print files can be found on the Prusa Printers’ website and are linked above.

Note that all necessary components for the left and right-handed modifications (including the leg mount) are included in their respective print files.

Optional files:

* 1x Shoe (optional replacement to leg mount)
* 1x Button Decorations (optional and only for the left handed modification)

### Attribution

Designed and Remixed from the [Xbox Series X|S mod](https://makersmakingchange.com/project/one-handed-mod-xbox-series-xs-controller/) by: [Akaki](https://www.prusaprinters.org/social/106360-akaki/about)

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