**Title**

Low Profile Switch

**Subtitle**

A low force hand operated switch

## Overview

This is a cost-effective 3D printable accessibility switch that only requires the user to lift their finger or hand as high as 8mm to use it.  This switch would be beneficial for someone who may have a limited range of motion and would benefit from using a switch that has a large activation area with a minimum switch height.  The switch measures 65 mm L x 65 mm W x 13mm H and is built using a standard 3.5 mm cable. Using the specified model of tactile switch, the activation force to use the switch is low and is comparable to the force required to activate the light touch switch.

## Usage

The switch is well-suited for use by a finger or hand. This switch can be plugged into any standard AT interface. It can also be used with the Xbox Adaptive Controller.

## Cost

$0-10

## Build Instructions

**SKILLS REQUIRED**

* 3D Printing
* Soldering

**TIME REQUIRED**

1-4 hours

**TOOLS**

* Soldering Iron and Solder
* Wire Strippers / Wire Cutters
* Hot Glue Gun and Glue

**COMPONENTS**

* 1x 3D Printed Top
* 1x 3D Printed Base
* 1x 3.5 mm Mono Cable
* 1x 12mm Tactile Switch

**3D PRINTING**

All components can be printed with no support at 20% infill with a 0.2mm layer height.

# Attribution

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