

# Light Touch Switch

## SUMMARY

### Overview

The Device Summary is intended to be a detailed summary of the device, product and maker information for the Light Touch Switch, making it easier to add to the Makers Making Change website. It is intended for anyone who will view the device listing.



# Light Touch Switch

## SUMMARY

### Product Information

#### Product Name

Light Touch Switch

#### Device Category

	Adapted Toys
	Aids for Daily Living (ADL)
X	Assistive Switches
	Communication Aids (AAC)
	Computer Access
	Environmental Controls
	Gaming

	Keyguard
	Kits
	LipSynchs
	Mounting
	Recreation and Leisure
	Seating and Positioning
	Switch Interfaces
	Writing Aids

#### User Value Statement

The Light Touch Switch is a simple, DIY assistive switch with a low activation force (30-40 grams of force). It is well suited for use with a finger and can be used with standard AT equipment.

#### Designer

Modified by the Neil Squire Society's Makers Making Change Program from the design by [Kevin Cross](#).

### Device Information

#### Overview

The Light Touch Switch is a low cost, low force, 3D printed assistive switch. It can be used for switch access with any standard AT equipment, switch adapted toy, or any other standard switch adapted device.

#### Disability Type

X	Agility / Dexterity
	Arthritis
X	Cognitive
	Hearing
X	Mobility

	Pain
	SCI
	Vision
	Other

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### Disability Type Description

This switch is suitable for anyone who needs a small, low force assistive switch.

### How To Use

To use, plug the switch into the switch adapted device. Press the textured portion on the top of the switch to activate the switch and the device. The switch will be “on” while it is pressed and “off” when it is not.

### Estimated Cost

The estimated material cost of the device for a single build:

X	\$0 - \$10
	\$11 - \$25
	\$26 - \$50

	\$51 - \$100
	\$101 - \$250
	\$250+

### Attribution

Original Design: [Xbox adaptive controller low cost/force buttons](#) by [Kevin Cross](#).

Original License: [Creative Commons - Attribution](#)

Design modified by the Neil Squire Society's Makers Making Change Program.

## Maker Information

### Project Skills

X	3D Printing
	Custom PCB
	Electronics
	Laser Cutting
	Mechanics

	Software
X	Soldering
	Woodworking
	Other

### Skills Description

This design requires 3D printing, soldering, using common hand tools (wire cutters / strippers, flush cutters), and hot glue.

### Tools Needed



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X	3D Printer
X	Common Hand Tools
	Common Power Tools

	Laser Cutter
X	Soldering Iron
	Specialized Tooling

### Print time (hrs)

1 hour, ten minutes (1 hour 40 minutes if printing the optional switch jig).

### Assembly time (hrs)

0.5 hours

### Build Instructions

1. 3D print the necessary parts
2. Prepare the tactile switch and mono cable
3. Solder the cable to the switch
4. Glue the switch in place
5. Fix top to the base

### Download Link

<https://github.com/makersmakingchange/Light-Touch-Switch/archive/refs/heads/main.zip>

### Project Link

<https://github.com/makersmakingchange/Light-Touch-Switch>

## License

### License

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