



## Multi-switch Toggle Bar - remix



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### Summary

A stronger version of a 3-toggle switch.

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Suppose you have one of those wall plates with three toggle switches on it - you have to go through the agony of switching each switch separately. Or maybe you try to switch all three at once with the palm of your hand, but you miss one! The horror!

This is a remix of an [earlier design](#) which has worked quite well for, except that the 3-toggle snapped in the middle after many months of use. See the previous design for use with single toggle or two toggle switches.

This little gadget it guaranteed to reduce your work load by 66%! Unfortunately this only works on toggle switches like the ones shown in the photos.

This version can be used on 3-toggle switches.

To be serious, this started as one of those "I wonder if I can make this?" type of projects. However, I have found it solves the minor annoyance of neglecting to switch off one of the three switches.

The print is pretty simple - there are toggle covers printed in Flex, and then a PLA "toggle bar" that goes over the toggle covers.

Making the toggle covers in Flex has multiple advantages : The Flex conforms to the toggle shape better, it is "stickier" than PLA which helps it to hold on to the toggle, and by being a separate piece it can accommodate small variations in toggle spacing.

## Print instructions

There are two types of parts for this gadget :

- toggle cover : Must be made from Flex filament; one required for each toggle; print on textured plate
  - 0% infill
  - 5 perimeters
- multi-toggle bar: Print in PLA for three toggles; print on smooth plate
  - 0.2mm layer height
  - 2 perimeters
  - brim
  - 15% rectilinear infill

Use the 3mf files provided; otherwise print with 0% fill but also with a large enough number of perimeters to eliminate all voids.

To assemble, place each toggle cover on a switch toggle. Note that the toggle cover is rectangular (not square); orient it so that the longer side is horizontal. With each toggle cover in place, put the multi-toggle bar over the covers. Adding a small dab of glue to each toggle cover to glue it to the bar (not the switch!) may be helpful.

## CAD

The OnShape 3D CAD files for this are here :

<https://cad.onshape.com/documents/8e0a4bf9c4ad7b4570da2bd1/w/1fe443ad16372a81b7b6436f/e/7c2cbe0563275ff7196f7fbe>

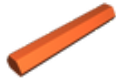
## This remix is based on



### Multi-switch Toggle Bar

by kaje

# Model files



**switch3multihex-multitoggle.stl**



**switch3multihex-multitoggle.3mf**



**switch-togglecoverx3.3mf**



**switch-togglecover.stl**

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