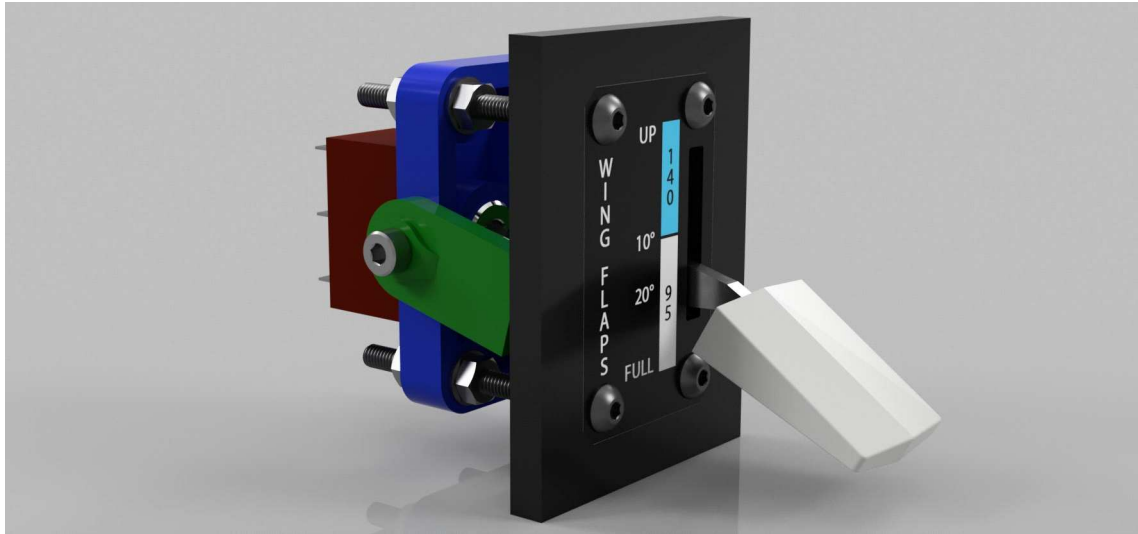# DIY - Cessna Flaps Switch

Thanks for downloading Cessna Flaps Switch "blueprint". Please note, this is NOT cessna's classic four position selector, but momentary on-off-on switch, controlling the flaps in "one notch" increments. This allows the unit to be used with different types of aircraft.

my 3D printer settings   Infil density - 20%, Number of shells - 2, Floor/Roof thickness - 0.80mm

Shopping checklist

- 4 x Black Socket Button Head Bolt M4x50 (eBay £1.95)

- 2 x Allen Key Socket Cup Bolt M4x12 (eBay £0.99)

- 1 x Allen Key Socket Cup Bolt M4x10 (eBay £0.99)

- 12 x Washer M4 (eBay £0.99)

- 13 x Nut M4 (eBay £1.50)

- Momentary On/Off/On Toggle Flick Switch (eBay £2.75)

I've tested all different brands and I would highly recomend this particular model

• 1 x Metal Flat Bar Plate (alu or steel) 3x10mm profile, >65mm long (eBay £2.90)

First prototipe was build with Mild Steel lever however I think that aluminium will be just fine as it's much easier to work with while still quite strong for our purpose.

Cut out and drill your leaver according to the drawing below. Tip is angled 15° down.
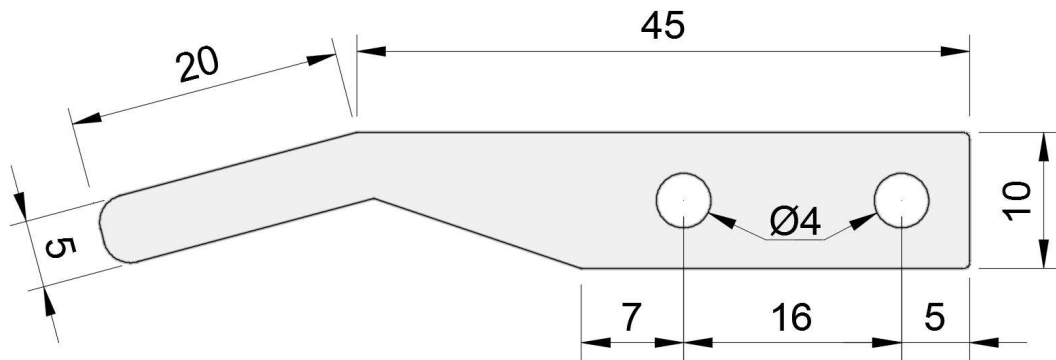
Print the part "Bracket" and use it as template to drill out four 4mm holes into your cokpit panel. Cut out rectangular opening for your lever as shown here.
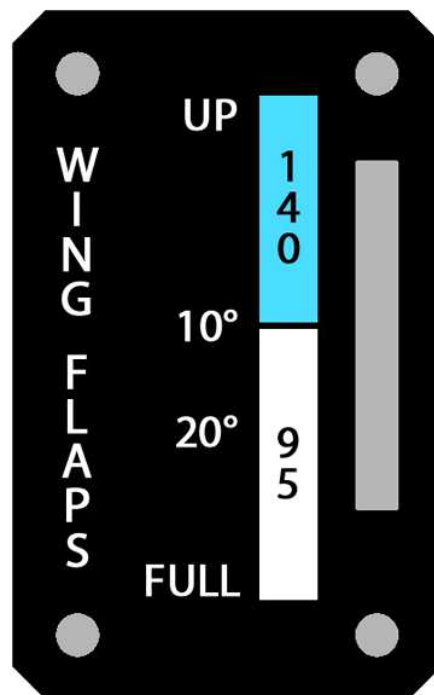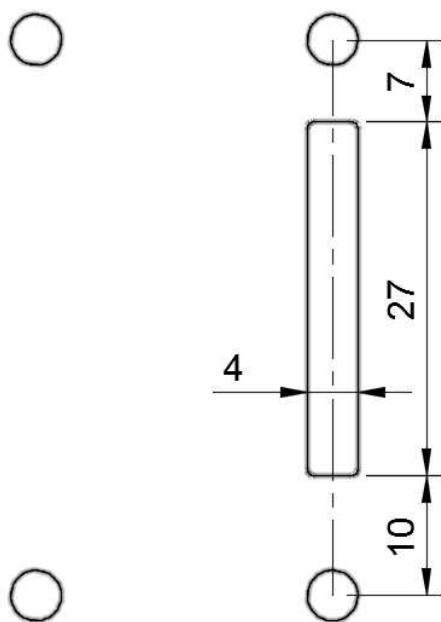
Use 3D model preview as a reference for following assembly steps

Run 4mm drill bit through the small centre holes of "Bracket" part so that the M4 bolts can freely turn inside.

Take of both nuts and washer from the toggle switch, then screw it into the "Bracket" part. Keep turning until the toggle pivot point of the switch lines up roughly with centre of the 4mm holes.

Print next part "Swing". Do NOT drill the two pivoting holes. They should be tight enough so that the M4 bolt's thread will cut into the plastic. Run 4mm drill bit through the remaining third hole.

Now assemble "Bracket" "Swing" and your lever with two M4x12 bolts and one nut on the right hand side and one M4x10 on the left (see 3D model preview for reference).

Print graphic file "Label" with appropriate scale, idealy on selfadhesive photo paper and stick it to your panel (file located in STL folder).

Finaly fit the unit into your panel, print part "Handle" and glue it onto the lever (two part epoxy resin is very good and strong adhesive).

If you find the lever too soft, add compresion spring 1x10x30mm between "Bracket" and "Swing"
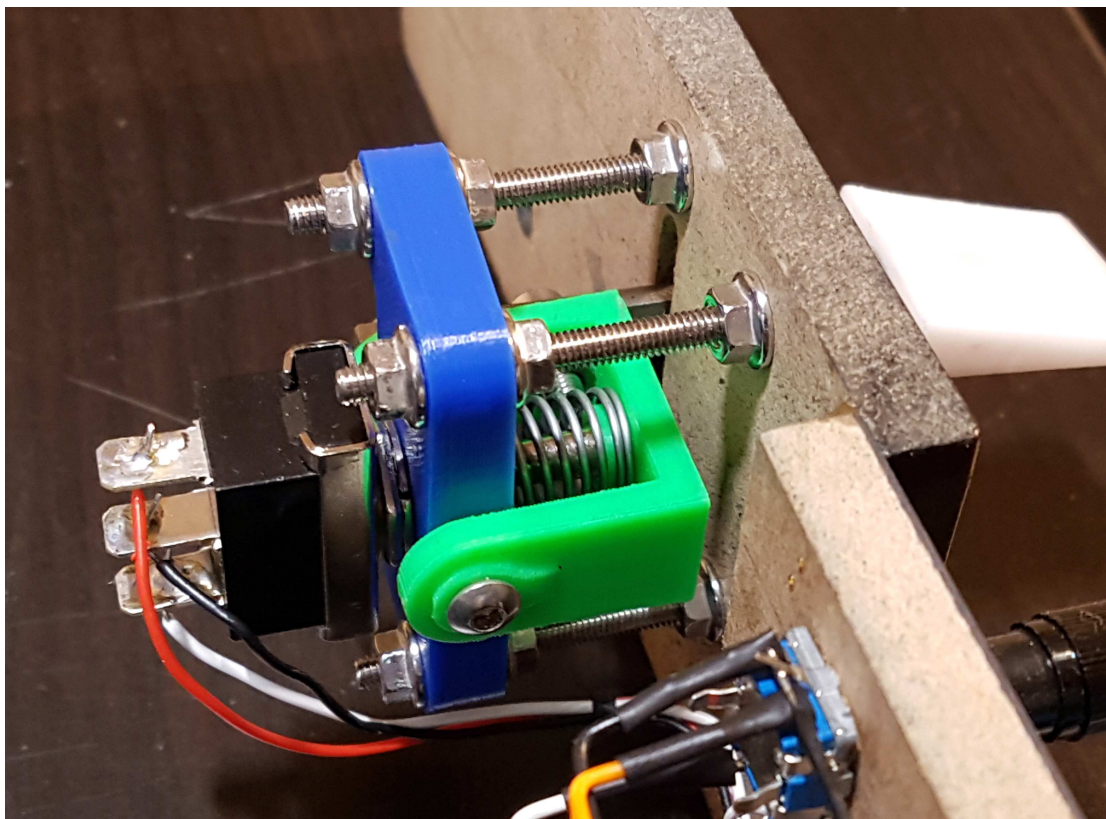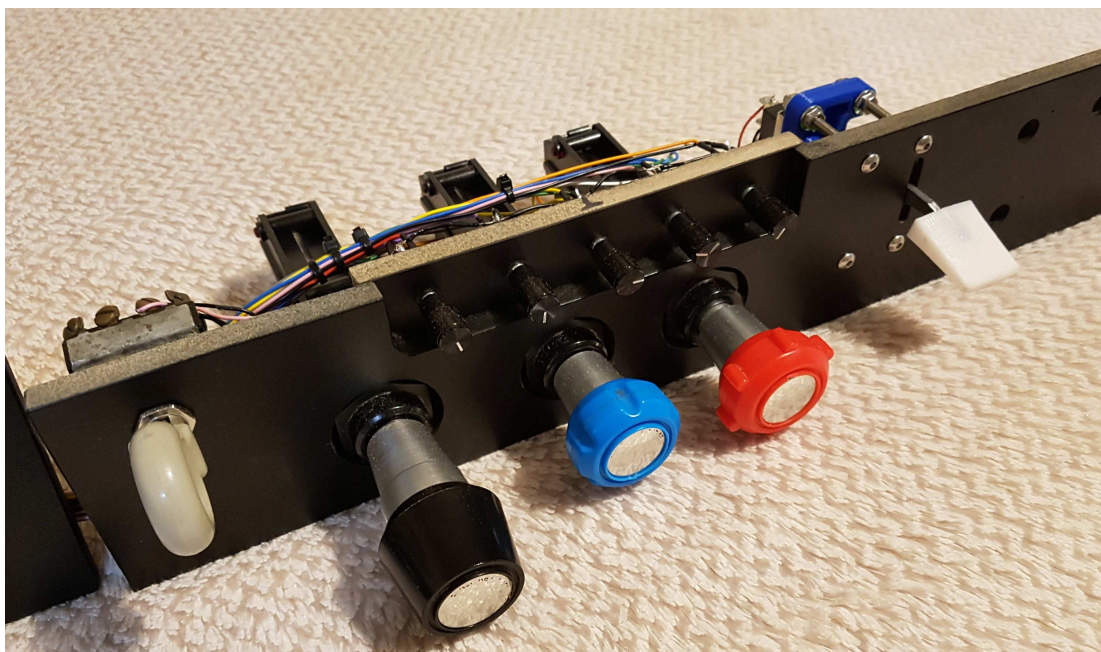
Feel free to post your creations on VR FlightSim forum Showcase Your Pit or visit Project Build Support thread to seek help and advice.

Have fun, Jay