Cuvette Holder, Version 3 Notes and Specifications

* Cuvette holder v2 is designed to hold a 12.5mm x 12.5mm x 45mm (outer dimensions) cuvette, with the AS7341 sensor, AW9523 LED driver, and Particle Argon/RTC combo mounted directly on the cuvette holder.
* The cavity that holds the cuvette is 30mm deep, leaving 15mm at the top to easily grab and swap out.
* The holes for the sensor and LED light are centered vertically and 15mm below the top of the cuvette holder.
* Place the AS7341 into the cavity with the same dimensions, with the sensor facing towards the inside of the cuvette holder, and text should be right side up. Note there is also a small notch in the upper right corner to accommodate the on-board LED. Also note there is a small portion around the center of the cavity that is raised-this surrounds the sensor and blocks out light coming from the LED.
* Place the AW9523 LED driver in the cavity with the same dimensions, with its main components on “top”, facing the user. The LED will need to be mounted on the “bottom” side of the LED driver (pinout 0), facing towards the inside of the cuvette holder. You may need to adjust the position of the LED in order to get it to fit. The large screw hole right above pinout 0 will need to be plugged up so it won’t let light through.
* The screw holes on the cuvette holder were left out, so the user has more flexibility on screw size, and can easily drill holes in the cuvette holder, or just tape or glue the parts to the cuvette holder. On the AS7341, the upper right corner should remain unscrewed, as it will get very close to the screw from the upper left corner screw of the LED driver.
* The cuvette holder is also designed to have a light blocking cap placed over the cuvette. This can be found in the same directory as the cuvette holder file.
* On one side of the cuvette holder are two grooves. Place the stacking headers from the Argon+RTC in the grooves, then secure to the cuvette holder, for example with electrical tape.
* Place the cuvette with sample water into the cuvette cavity, which is on the top of the cuvette holder.
* Place the light blocking cap over the cuvette and wiggle it in until snug.
* Note that the inside walls of the cavities may need to be sanded or shaved in order to accommodate their intended components.