Instructions for 3D printing and installing the S1000XR windshield lever

Printing

There are 3 STL files: an upper shell with a clearance hole in the larger end and threaded holes, a lower shell with through-holes, and a pin. You will need to print 3 pins. The inside face of the shells should face the print bed. Supports should be turned on for the shells.

The pins are inserted into 3 closed holes in the bottom shell and mate with 3 holes in the upper shell. These pins, combined with 4 M3x15mm button or flat head screws, lock the 2 shells together into a stiff assembly. You can run an M3 tap in the holes in the upper shell to clean the threads if you like but this is optional as the threads are printed in and the screws will further cut them.

I printed the parts in PLA with ~ 40% infill, with the inner surface of the shells facing the printer bed. The pins can be printed vertically with 100% infill.

Installation

The handle encloses the upper left windshield hinge section. I found it easier to install if the windshield is raised and then removed. It's easy to drop one of the M3 screws down through the front cowling, so I advise covering this section with a cloth. The screws come up from underneath, so are not visible.

View with Windscreen Raised

View with Windscreen Lowered