

## Z- axis Calibration

Z-axis calibration is essential for every 3D printer. Run this test to make sure that the building plate is leveled to the LCD screen. This is to ensure that models and prints will adhere to the building plate.

### SONIC XL 4K 2022

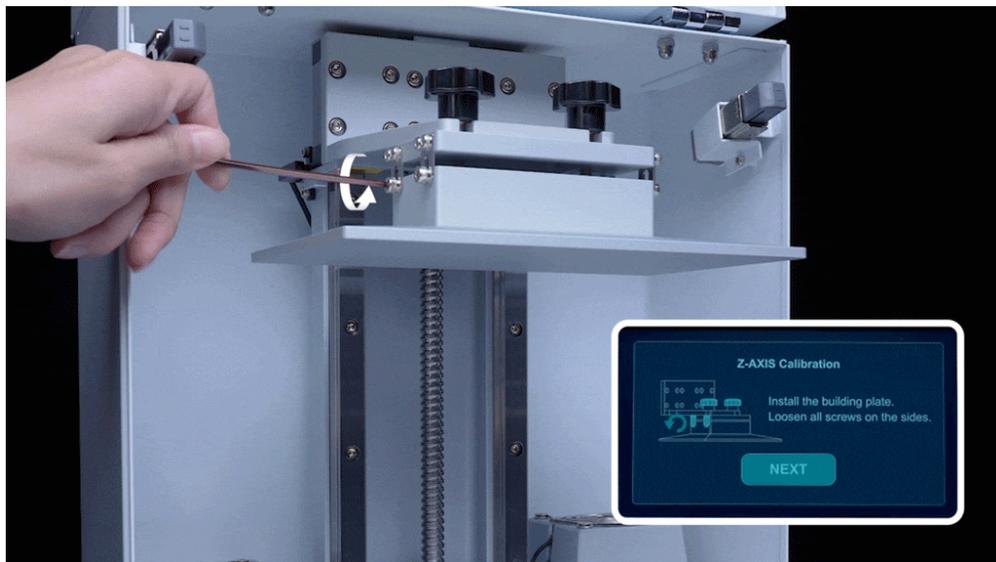
#### Step 1: Remove the Resin Vat

Make sure to remove any objects present on the machine's platform.

#### Step 2: Install the Building Plate

Attach the building plate knobs to the printer and align them with the pins. Screw and tighten the building plate.

\*Note: Please ensure that the building plate does not shift during tightening.



#### Step 3: Loosen the Screws

Use the Allen wrench to loosen all 4 screws on the sides of the building plate in a counterclockwise direction. After loosening it, double-check to see if the plate is loose and movable.

**Step 4:** Place a piece of paper on the LCD

Prepare a piece of A4 paper (roughly 0.07-0.10 mm) and lay it flat on the LCD screen. This piece of paper will be used for leveling the building plate.

**Step 5:** Settings

On the touch panel, click TOOLS, then click Z CALIB on your touch panel to begin the calibration process. Click NEXT and wait for 1-2 minutes as the building plate extends to the LCD screen.

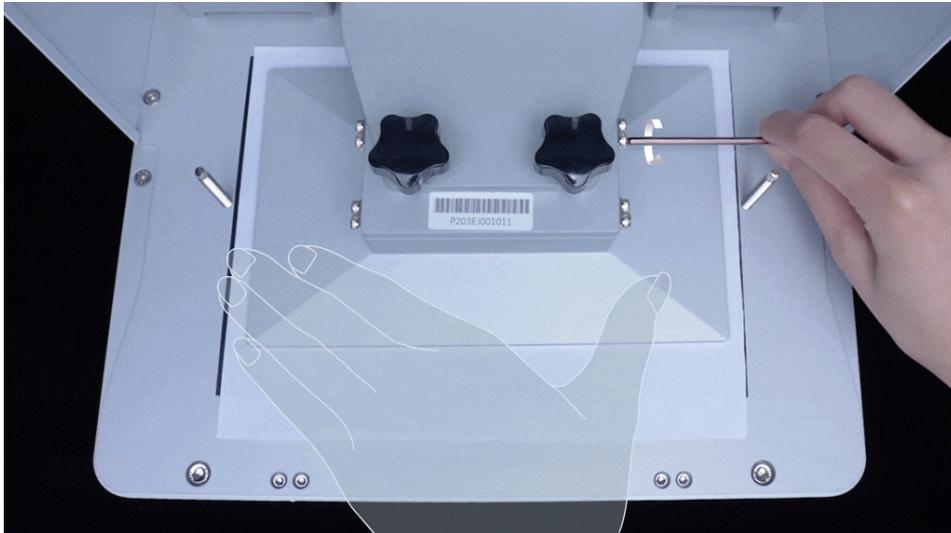


**Step 6:** Apply Pressure on the Building Plate

Once the building plate has touched down, apply pressure and press down firmly on the sides of the building plate. Pull on the piece of paper to make sure the building plate is laying tight against it.

**Step 7: Tighten the Screws in a Cross Pattern Order**

Once you have successfully adjusted the building plate, tighten all four screws on the sides of the building plate in a clockwise direction while pressing down on the building plate with the other hand, in a cross pattern order, e.g., top-right, lower-left, top-left, and lower-right.



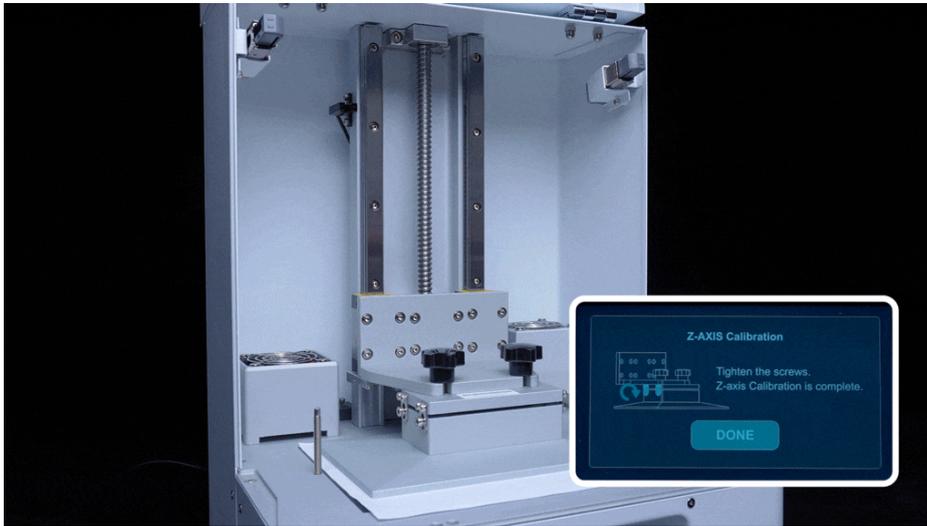
**Step 8: Double-Check Z-axis Calibration**

Tug on all four corners of the A4 paper to check for pressure intensity. If it is tight, please proceed onto the next step. If it isn't, please perform the Z-axis calibration test again.



**Step 10: Done**

Click DONE on the touch panel and wait for the building plate to retract.



Once the plate has retracted, remove the A4 paper.

You are now ready to begin your 3D printing journey!