

Skewing of the y-axis can occur when the motor drivers have incorrect current settings. The skewing might not be consistent and can happen randomly. One way to check if it's potentially the driver is to switch the y-axis connectors at the controller. If the skewing moves from one side to the other, it's likely an adjustment is needed on one of the driver boards.

To adjust the current, simply use a small screwdriver to turn the potentiometer to the current setting you want. The two small notches on the head of the potentiometer help indicate the position and the numbers on the silkscreen correspond to the current at that location.

Making adjustments to your current can improve the overall performance of your machine. For the majority of users, you should not have to adjust your current settings for normal use. We recommend adjusting your driver to the position shown below.

If you've checked your mechanical parts and have issues with:

- Vibrations or resonance
- Missed steps
- Overheating



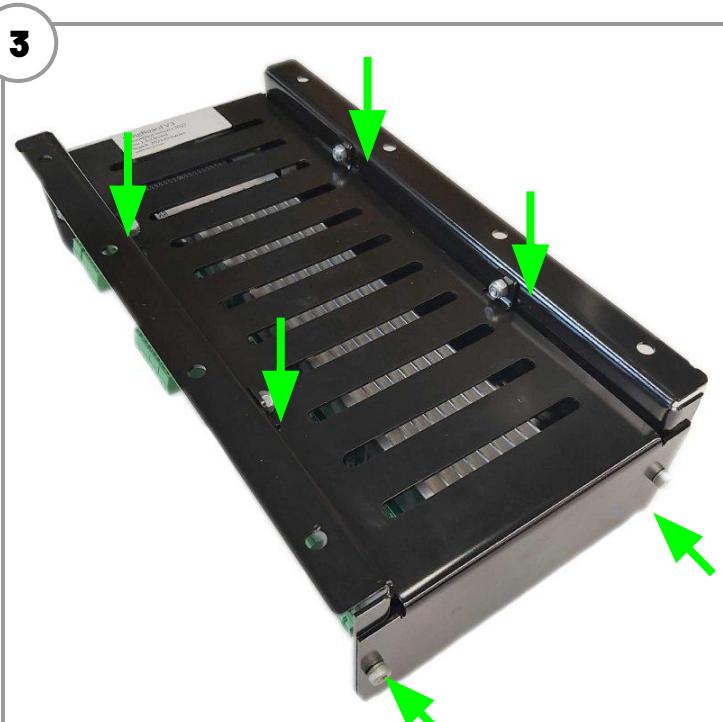
Stepper Driver Current Adjustment



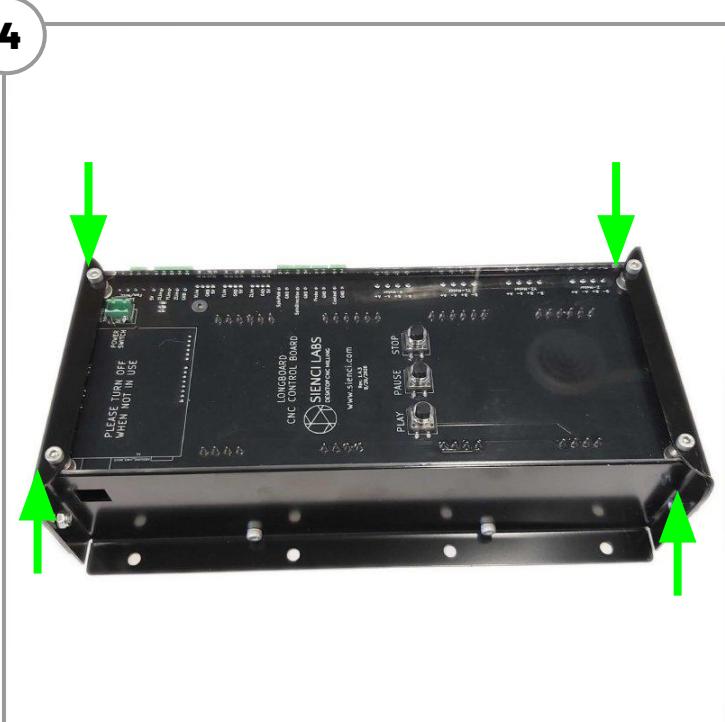
Disconnect all harnesses from the controller.



Remove the 6 connectors on the right side of the controller.



Undo the 8 nuts and screws from the housing using a 4mm Allen Key and 8mm wrench.



Undo the 8 screws using a 4 mm Allen Key.



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Stepper Driver Current Adjustment

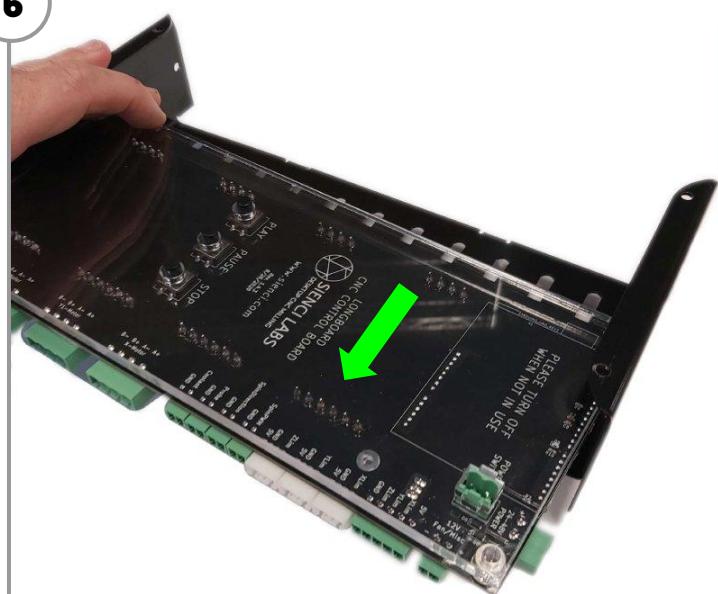


5



Push the control board to one side to clear the connector from the end plate.

6



Pull the board out from the side of the housing.

7



Flip the board over to expose the potentiometers.

8



The potentiometer is the blue square with a small cross in the middle.



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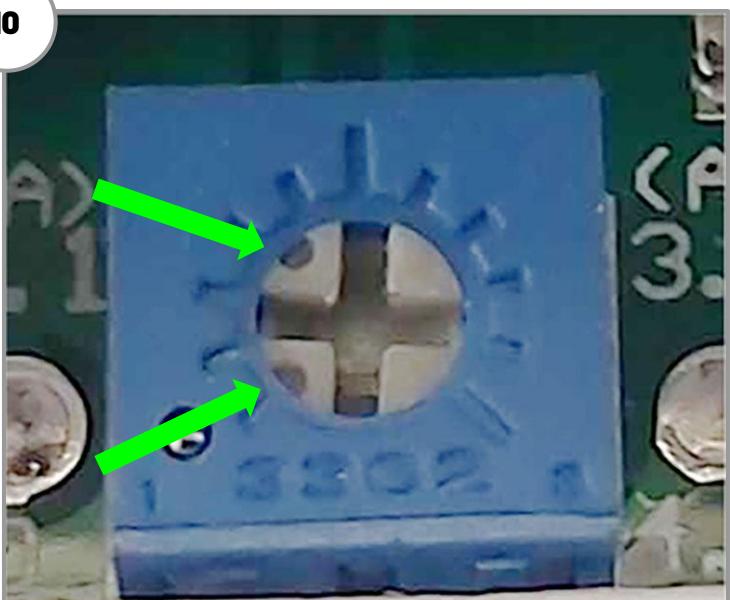
Stepper Driver Current Adjustment

9



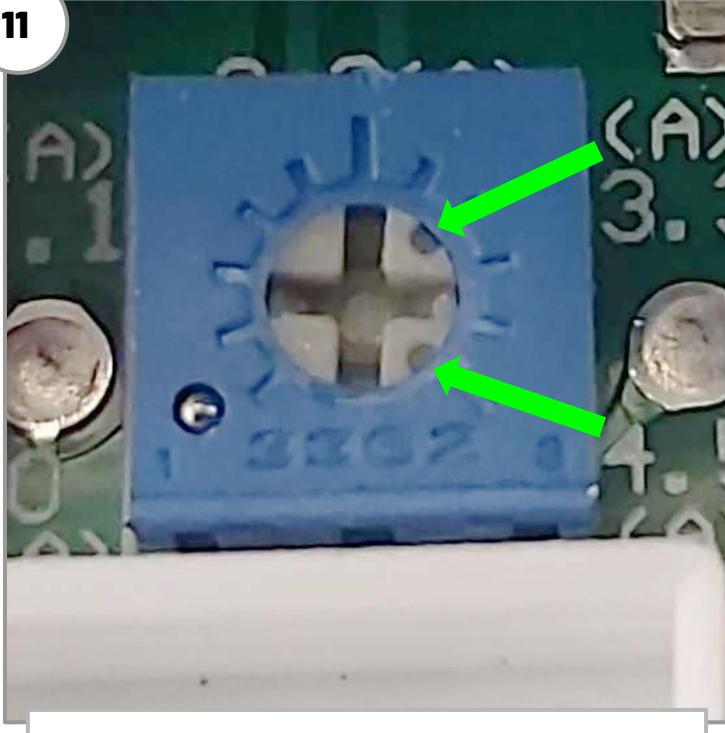
Note the 2 dots in the cross. This denotes the correct position.

10



The holes to the left side means the motor is driven under current. Rotate clockwise so the dots are facing one tick to the left.

11



The holes facing to the right means the motor is driven with higher current. Rotate counter-clockwise to have the dots facing one tick to the left.



All the potentiometers should be positioned in the same way.
Assembly is the reverse of disassembly.

