

Aurora Climbing's Full Tension Board LED Kit Installation Instructions

The Tension Board LED Kit allows you to take full advantage of the Tension Board's advanced functionality while enhancing problem creation and viewing.

Following these instructions, installing your LED kit should be straightforward. If you do run into any issues during installation, please send an email with a description of the issue and pictures to support@auroraclimbing.com.

LED Kit Contents

Your Tension Board LED Kit contains:

1 international power adaptor with
4 interchangeable blades for US, UK, European, and Australian power outlets.



1 controller box



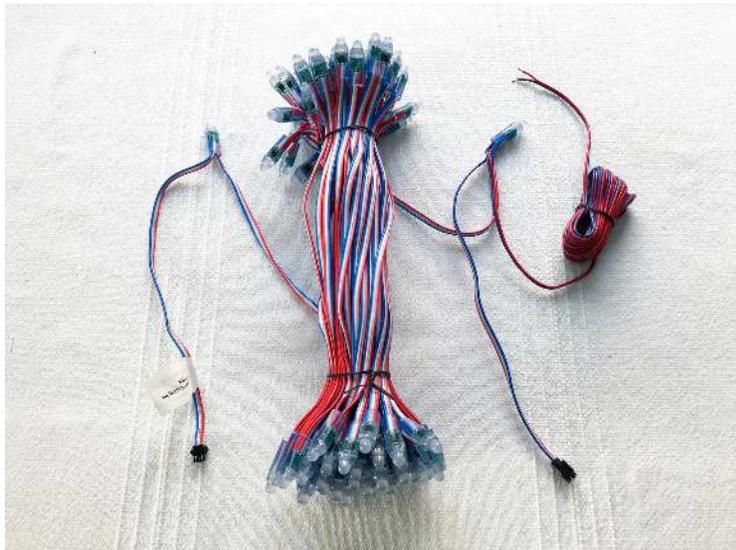
1 connector wire

This wire carries power and data to the first LED pixel on the wall.



4 large LED string bundles

Each string has an input end and output end. Data must flow through the string in the correct direction. The input end is shown on the left of this picture. The output end is shown on the right. The output end has two power injection wires. The kit will only clip together in the proper configuration.



Some spare pixels in case pixels need to be replaced.



Test Assembly

Before installing your LED kit on your Tension Board, we highly recommend that you set up the LED kit on a table and test it with the Tension Board app. The LED kit was fully tested before shipping but it is much easier for you to learn how to connect the LED kit together on a table than it is while installing on your board.

Step 1: Select the appropriate power adaptor blades and click them into the power adaptor.



Step 2: Connect the power adaptor to the controller box. The round rocker power switch on the side of the controller box will illuminate red when the controller box is turned on.

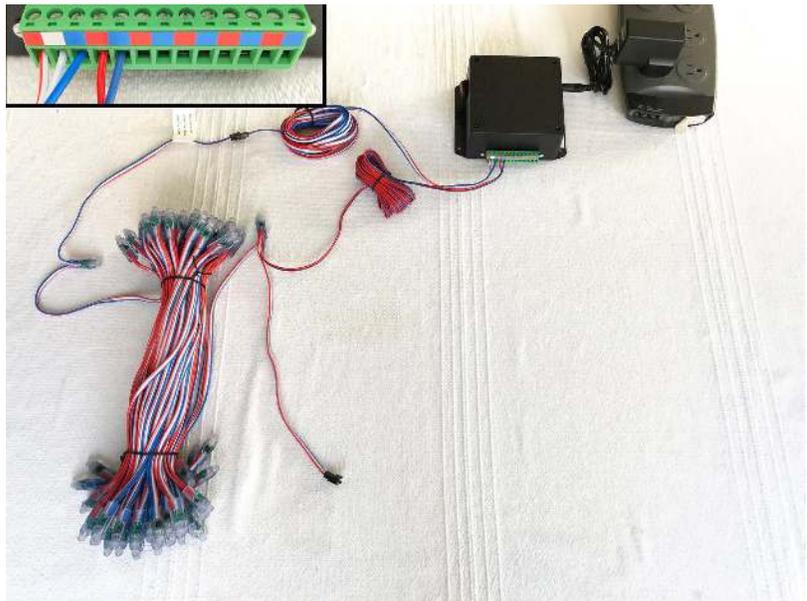
Ensure that the controller box is turned off before connecting more wires.



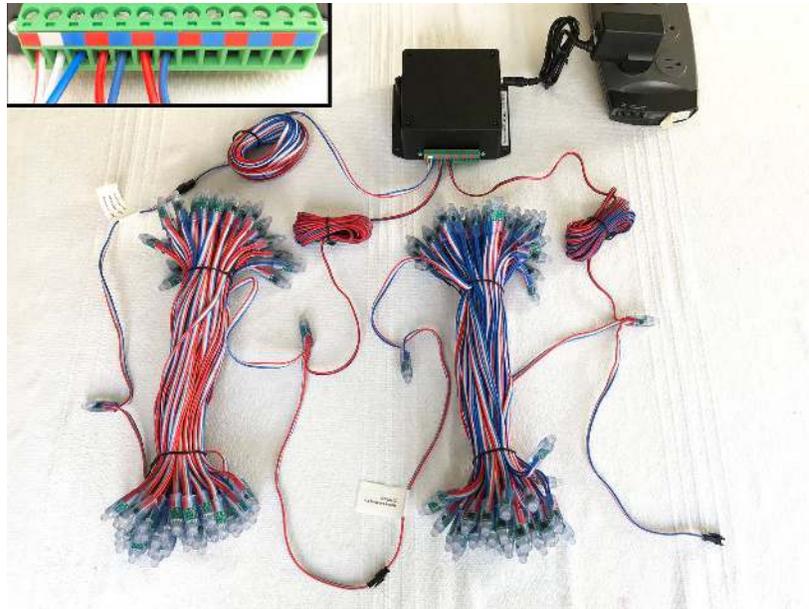
Step 3: Using a small screwdriver, attach the connector wire to the controller box. Match the wire colors with the sticker colors on the controller box. The diagram in the top left corner of the picture is a close up of the wires attached to the controller box. Tighten firmly so a gentle tug test will not pull the wire out of the controller box but there is no need to over do it. Climbers do tend to have strong hands!



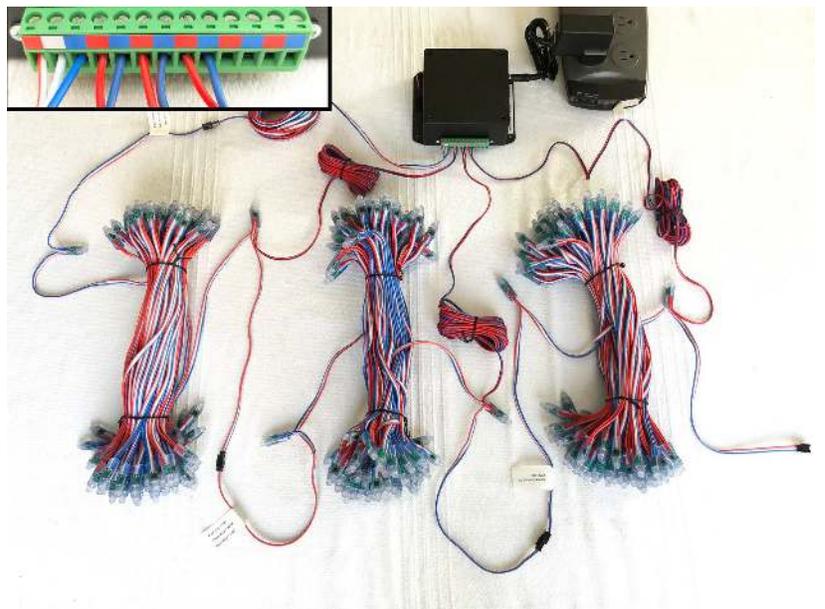
Step 4: Attach the input end of the first LED string to the connector wire. Attach the power injection wires at the output end of the first LED string to the controller box. Ensure all wire and sticker colors match.



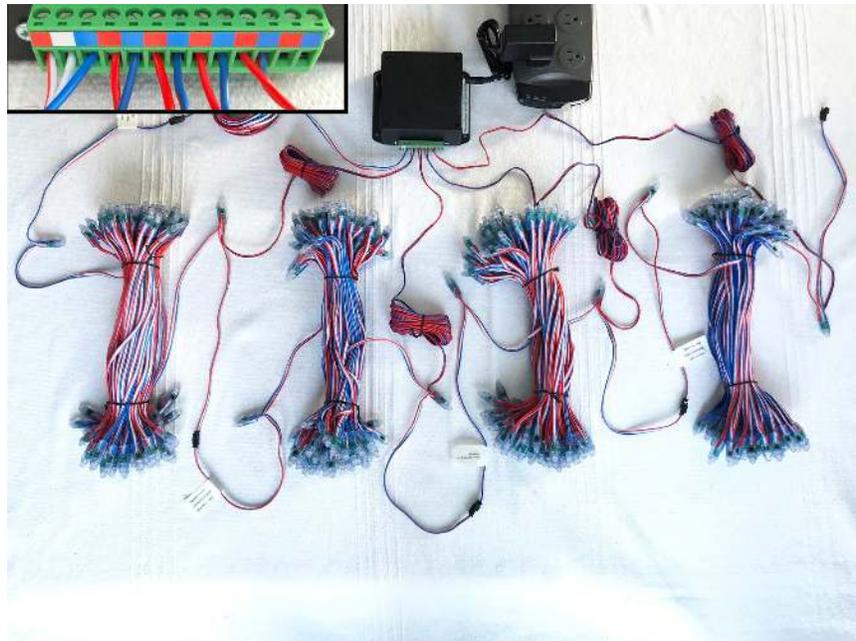
Step 5: Attach the input end of the second LED string to the output end of the first LED string. Attach the power injection wires at the output end of the second LED string to the controller box.



Step 6: Attach the input end of the third LED string to the output end of the second LED string. Attach the power injection wires at the output end of the third LED string to the controller box.

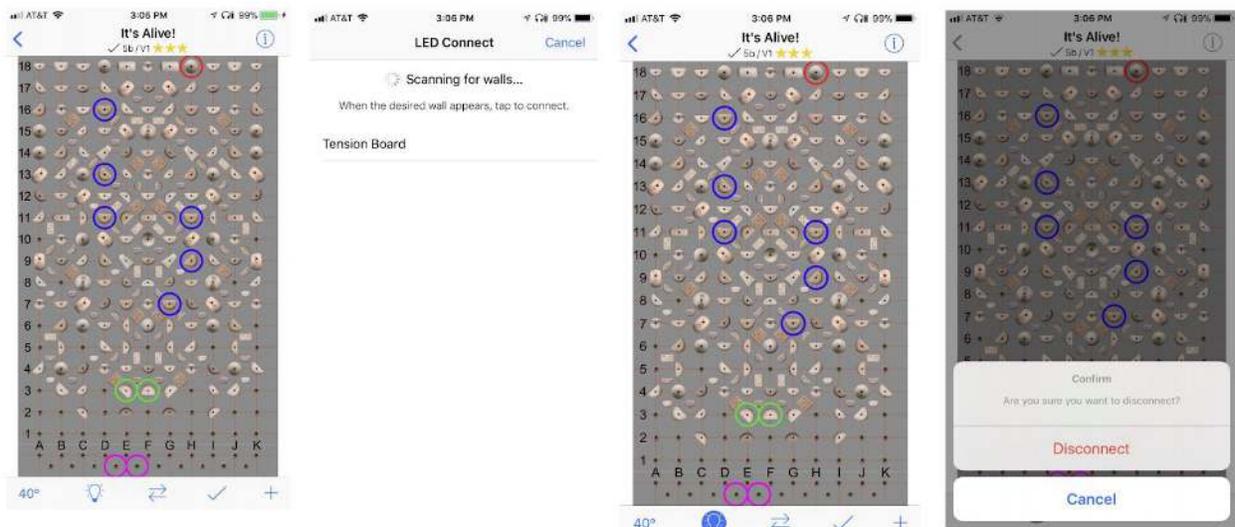


Step 7: Attach the input end of the fourth LED string to the output end of the third LED string. Attach the power injection wires at the output end of the fourth LED string to the controller box.

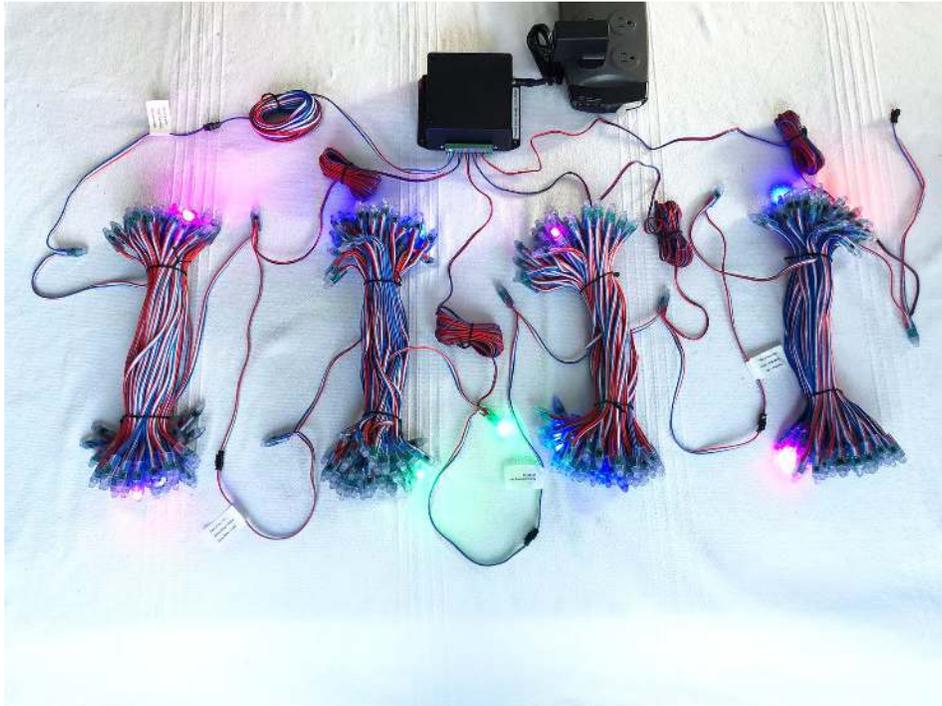


Step 8: Turn the controller box on. Test the LED kit with the Tension Board app.

If you have not installed the app already, you can search for “Tension Board” on the Apple App Store or Google Play. After installation, if you don’t already have an account, sign up and configure your wall in the app with details matching your physical wall and hold sets. When viewing a boulder, tap on the lightbulb icon to connect. The app will discover your LED kit and display the kit’s name “Tension Board” on the screen. Tap on the kit’s name and the app will connect. A successful connection will be indicated by a highlighted lightbulb icon and the kit will illuminate the boulder on the LED strings. (To disconnect, tap the lightbulb icon and select “Disconnect”).



It works!



You can disconnect all the pieces of the LED kit in preparation for installing the LED kit on your Tension Board.

Installation

Before attempting to install the LED kit on your Tension Board, be sure you have done the test assembly on a table as described above.

When installing the LED kit on your Tension Board, follow the same steps as described above. At the end of steps 4, 5, 6 and 7 you can turn on the power and connect with the app to check that each string works and is positioned correctly on the wall. Using the app's create boulder feature allows you to light specific LED pixels. Verify that the position of the pixel you choose on the screen matches the position of the pixel on the physical wall. It is better to find misplaced pixels sooner so you need to shuffle fewer pixels to correct any issues.

After testing each string, turn off the power before installing the next string on the wall. This will avoid shorting out the power due to loose wire ends.

LED Sequence

The image below shows the LED sequence looking at the front of the Tension Board. Start at the bottom right side of the kickboard. Note that when jumping from the kickboard up to the main wall, one LED pixel is skipped and remains hidden behind the wall. This gives you more wire length to make the transition from kickboard to main wall.

