



Oelo Lighting Solutions Controller Retrofit Kit Instruction Manual

[Home](#) » [Oelo Lighting Solutions](#) » Oelo Lighting Solutions Controller Retrofit Kit Instruction Manual 

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OELO RETROFIT CONTROLLER MANUAL



Making the upgrade ...

Contents

- 1 RETROFIT CONTROLLER INSTALLATION
- 2 REMOVING THE OLD CONTROL BOARD
- 3 INSTALLING THE NEW CONTROL BOARD
- 4 FINAL WIRING RESULTS
- 5 THE FINAL TOUCHES
- 6 Documents / Resources
 - 6.1 References

RETROFIT CONTROLLER INSTALLATION

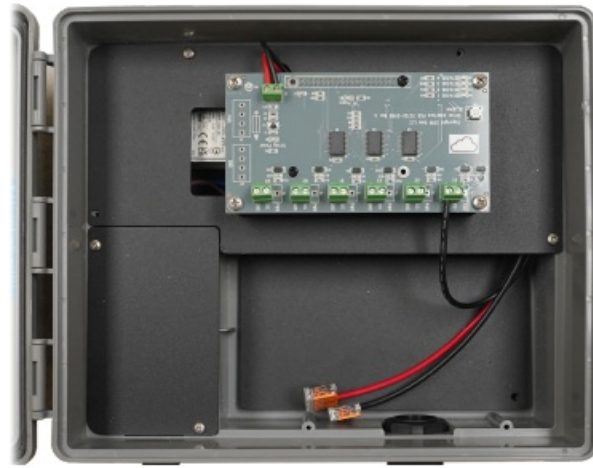
THE OELO RETROFIT

Congratulations on your Oelo Controller Retrofit Kit purchase. This manual provides step-by-step instructions to help you update your controller to Oelo's latest technology.

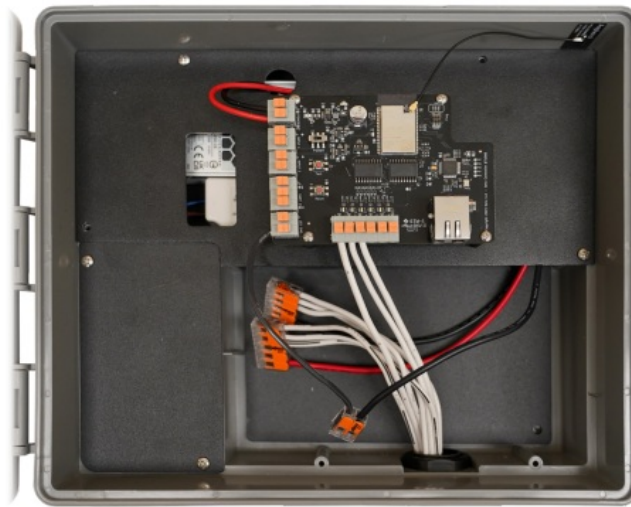
- Your new controller has the ability to power up to 300 lights from a single control box (or more, if paired with an optional boost box)!
- Plus, your controller has six (6!!) Individually controllable signal outputs, which allows you to install six different zones from one controller for creative installs, like separate out-and-down sections and front and rear zones!
- Last but not least, the new controller works with the new Oelo Evolution App!



BEFORE



AFTER!



RETROFIT COMPONENTS

Below are key retrofit components you may want to familiarize yourself with before installing.

Existing Components



CURRENT CONTROL BOX: Your current Control Box will be used in the retrofit.
(The new Control Board will replace your current Control Board within this box.)

EXISTING CONTROL BOARD SCREWS: The existing Control Board Screws, which hold the current Control Board / Metal Plate in the box, will be re-used to mount the new Control Board / Metal Plate.

EXISTING OUTLET PLATE: The existing Outlet Plate will be removed to access Power Supply wiring, then will be re-installed upon completion.

WIRE, LIGHTS + CHANNEL: The new Controller plugs directly into your existing wire, light and channel runs.

(You can also decide to expand your system to add additional zones).

Retrofit Components



NEW CONTROL BOARD: The new Control Board is mounted to a metal plate (which screws into the Control Box after the old board has been removed).

NEW LPV-20-12 POWER SUPPLY: The new Power Supply is pre-connected to the new Control Unit Board and will be inserted into the existing Control Box with supplied double-sided 3M tape.

NEW ANTENNA: The Retrofit Kit is equipped with a high-powered antenna to help your Controller communicate with your WiFi for ultimate cloud-based control.

Installation Tools



#2 PHILLIPS SCREWDRIVER: Needed to remove Control Box metal plates.

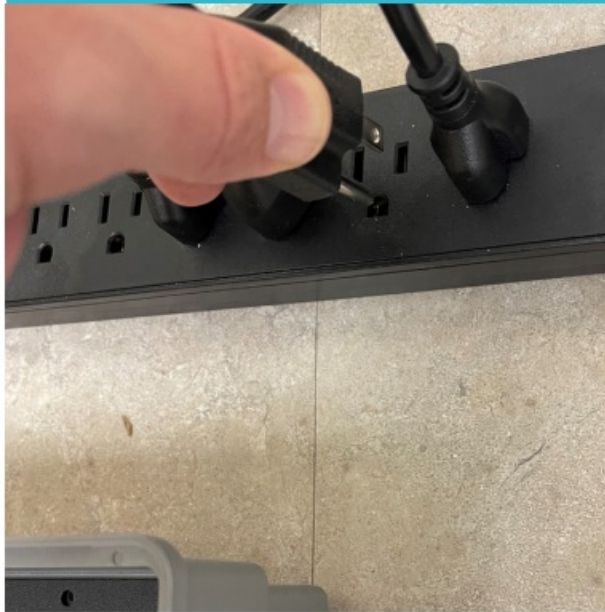
1/8TH FLATHEAD SCREWDRIVER (OR SMALLER): Needed to disconnect wires.

REMOVING THE OLD CONTROL BOARD

Disconnect Power

STEP 1: Disconnect power to the current Control Box and any Booster Boxes connected to the unit.

STEP 1



⚡ WARNING

Do NOT plug in the system until ALL wiring is complete. Wiring while the system is live will void warranty.

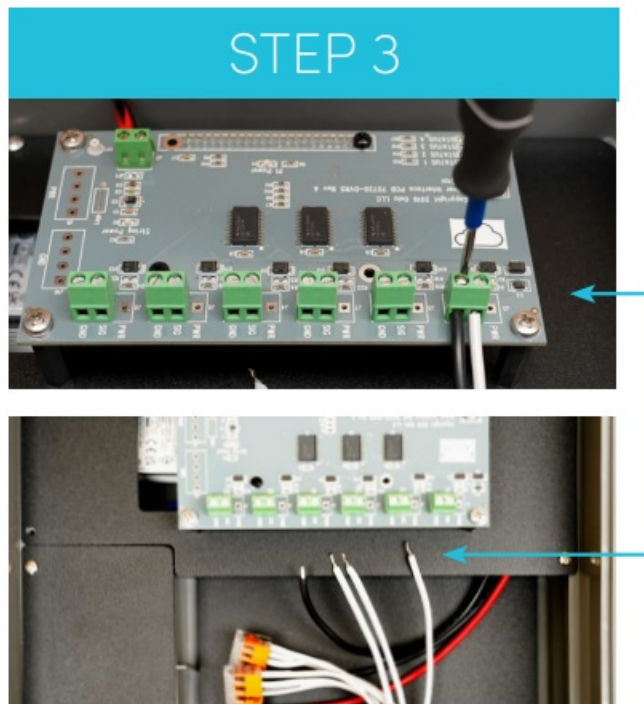
Label Your PCB Wires

STEP 2



OPTIONAL STEP: Label the wires connected to the Printed Control Board (PCB). (Note: Each wire is already labeled with a small imprinted descriptor; however, this step may help you more easily re-wire your new Control Board.)

Disconnect PCB Wires

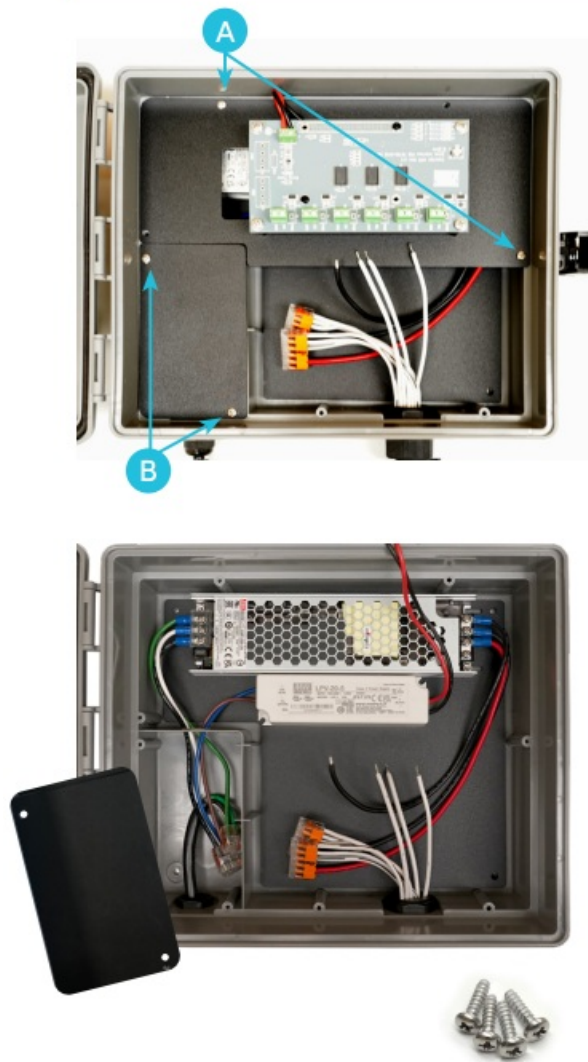


STEP 3: Use a 1/8th Flathead Screwdriver to disconnect the Wires connected from the PCB.

INSTALLING THE NEW CONTROL BOARD

Remove the Plates

STEP 4



STEP 4: Using a Phillips Screwdriver, remove the metal plates.

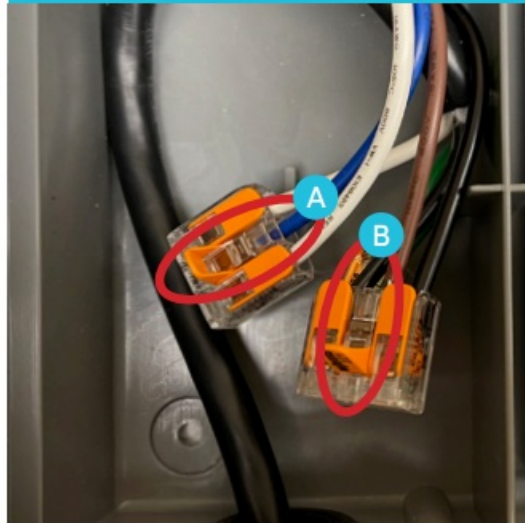
A . Remove the (2) screws holding the Control Plate.

B. Remove the (2) screws holding the Outlet Plate. (This provide access to the Power Cord wires, which are used to wire the new Power Supply in Step 5 and 8.)

C. Keep screws for later use.

Detach Power Supply Wires

STEP 5



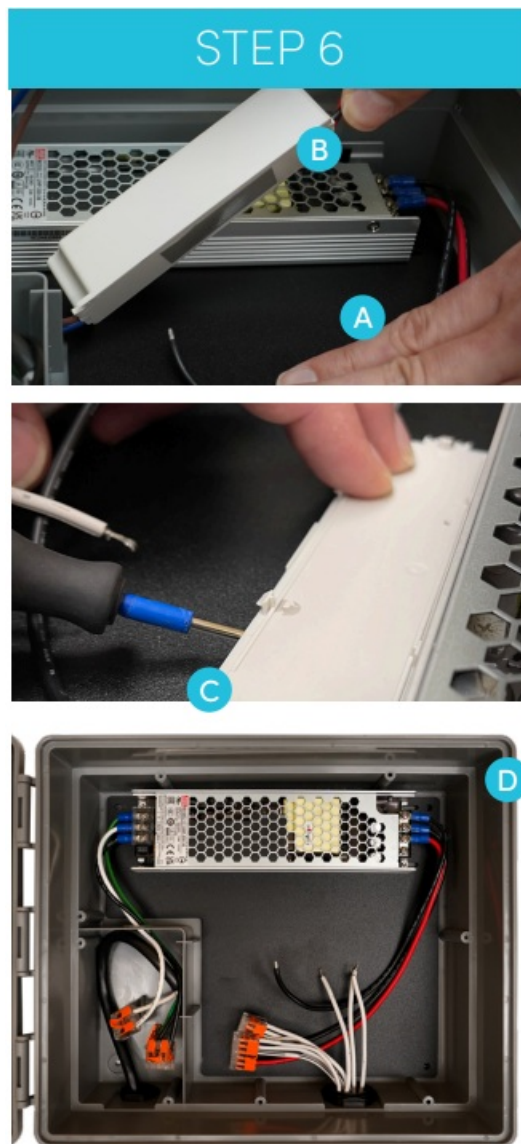
STEP 5: Disconnect the Blue and Brown wires from the LPV-20-5.

A. Flip up the Wago of the Blue Wire and remove the wire.

B. Flip up the Wago of the Brown Wire and remove the wire.

C. Pull the Blue and Brown wires out of the Outlet Relief; leave floating freely until Step 7.

Remove the Power Supply



STEP 6: Remove the current LPV-20-5 Power Supply.

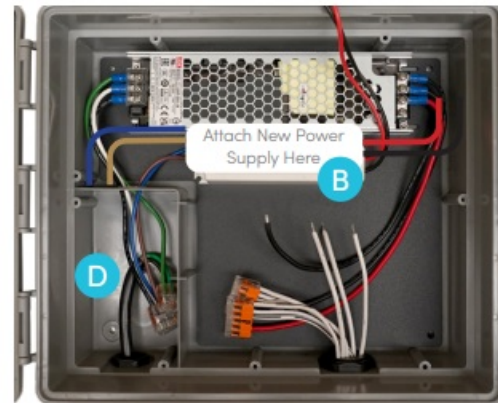
A. Place your hand on the Control Box metal board, firmly holding it down.

B. Grab the Red and Black wires at the base of power supply and steadily pull the power supply off of the plate.

C. If the back of the power supply stays attached to the plate, use a Phillips Screwdriver to wedge the tip underneath the backing and pry the backing off.

D. Your controller will look like this after Step 6.

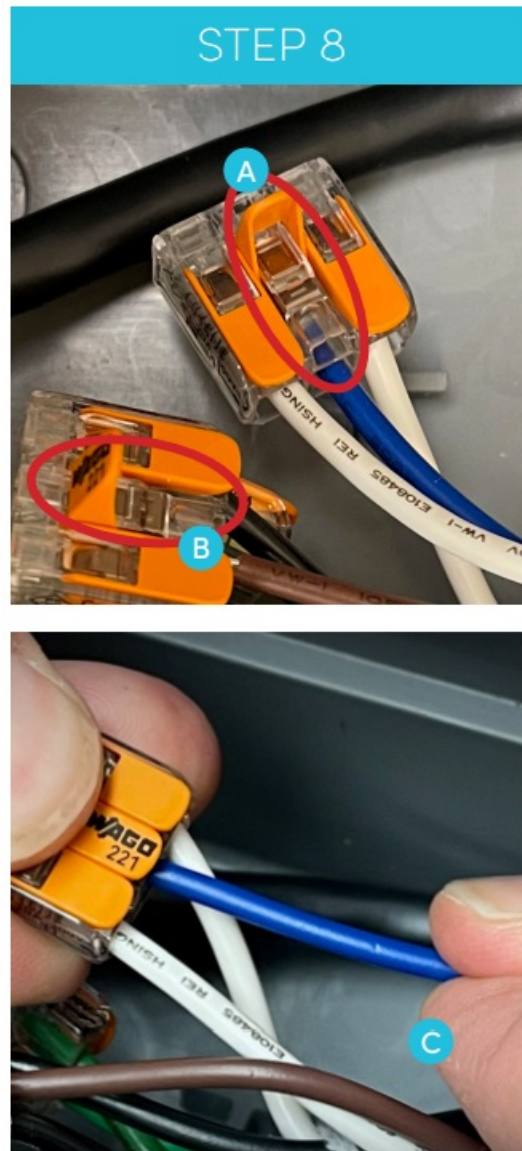
Install New Power Supply



STEP 7: Install the new LPV-20-12 Power Supply.

- A. Remove the red backing from the double-sided tape on the new LPV-20-12 Power Supply.
- B. Place the LPV-20-12 on the Power Supply Plate with the Blue and Brown wires facing toward the Power Outlet.
- C. Firmly apply pressure to the Power Supply for 10 seconds.
- D. Feed the Blue and Brown wires into the Outlet Relief.

Wire the New Power Supply



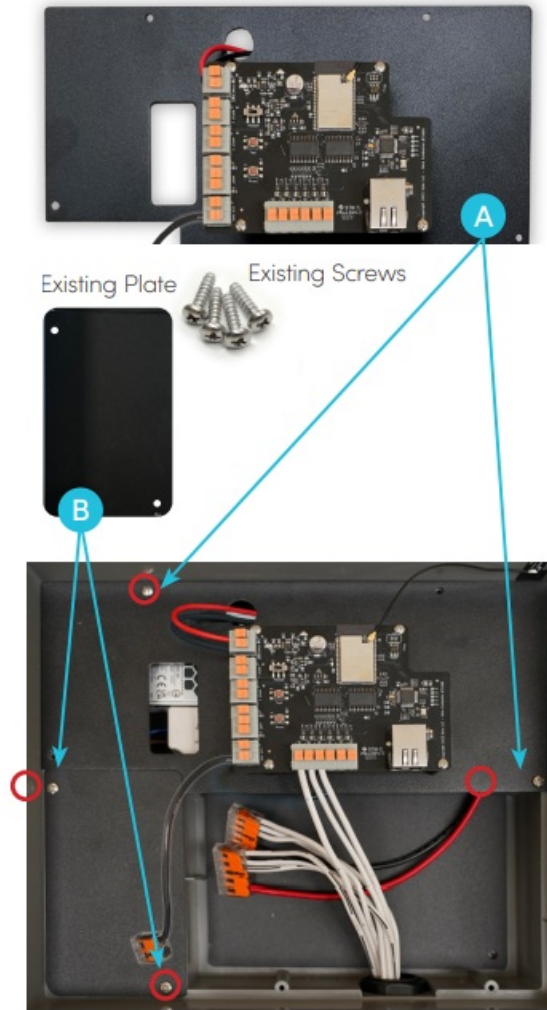
STEP 8: Insert the LPV-20-12's Blue and Brown wires into the designated Wagos below.

- A. Insert the Blue Wire into the Wago with the White Wires; flip closed.
- B. Insert the Brown Wire into the Wago with the Black Wires; flip closed.
- C. Test the connection by gently pulling on the wires.

Attach the Above Plates

STEP 9

New Control Board



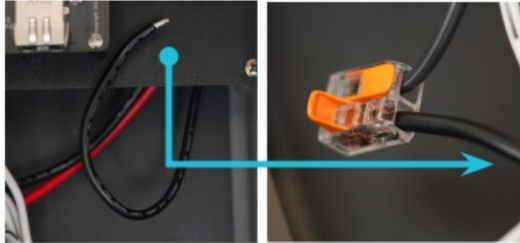
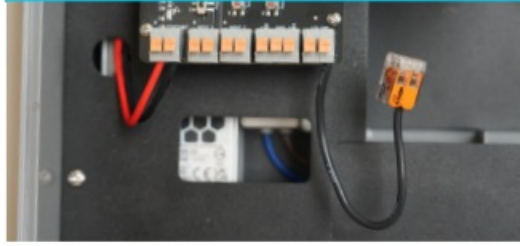
STEP 9: Attach the plates (as described below) using a Phillips Screwdriver:

- A. Use 2 of the saved screws to secure the new Control Plate.
- B. Use 2 of the saved screws to secure the existing Outlet Plate.

INSTALLING THE NEW CONTROL BOARD CONTINUED

Insert the Ground Wire

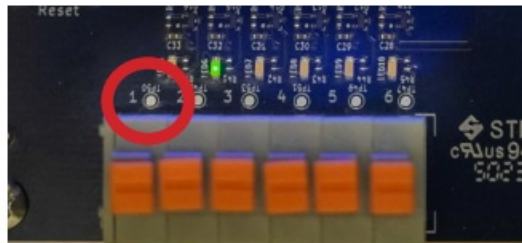
STEP 10



STEP 10: Insert the Ground Wire from the Power Supply into the Wago attached to the Control Board GND port.

- A. Open the empty slot on the Wago Connector.
- B. Insert the GND Wire into the slot.
- C. Snap the Wago closed.
- D. Gently tug on the wire to confirm a secure connection.

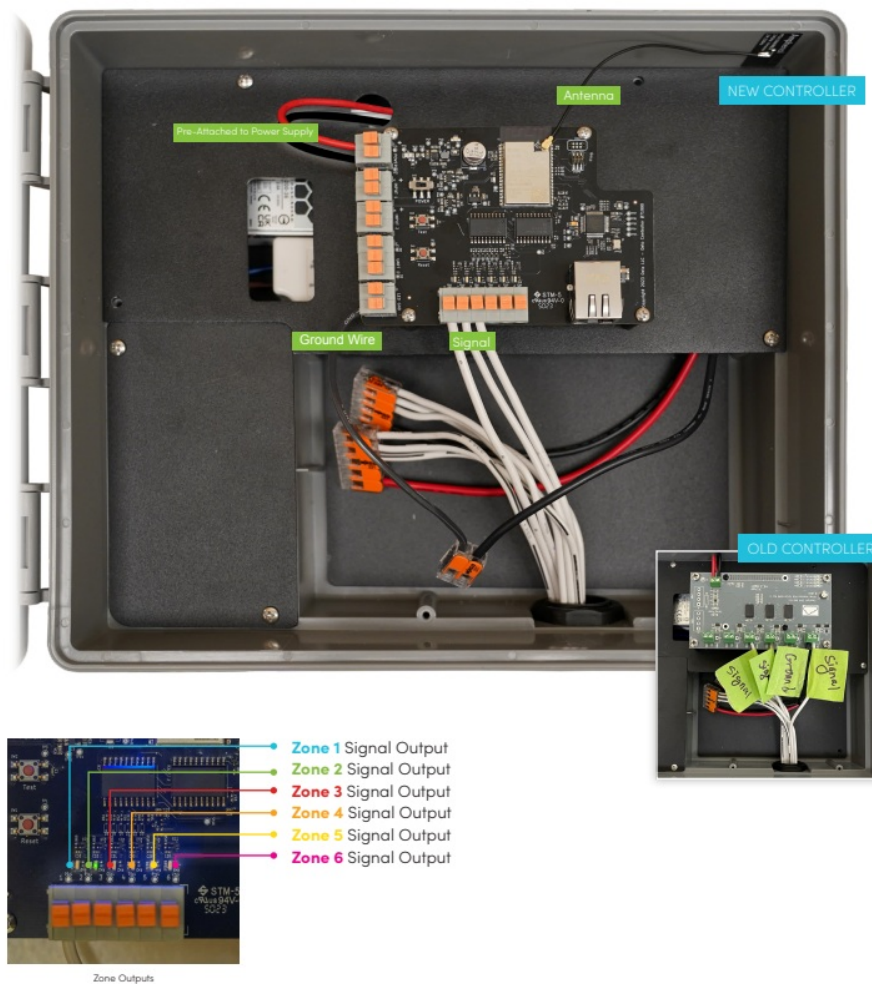
Insert the S Signal Wire(s)



STEP 11: Insert the Signal Wire(s) into the into the ports labeled 1-6 on the Control Board.

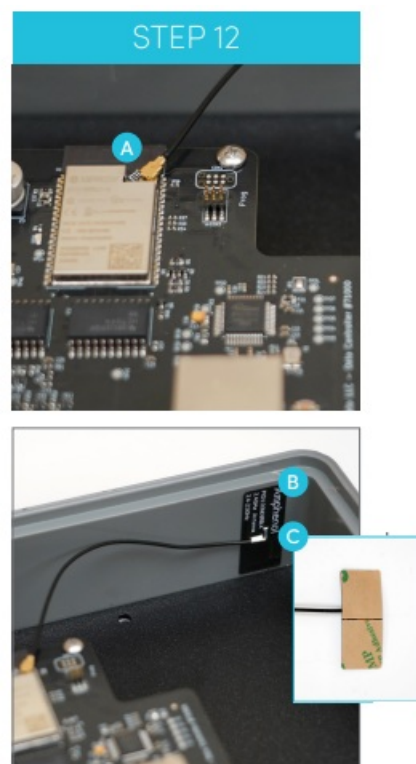
- A. Strip the S Wire(s) to the length of the port, approximately 1/2". If it is too short, the wire will not stay connected.
 - B. Press and hold the button on the S Port #1.
 - C. Insert the S Wire into the S Port #1.
- Do not have exposed wire showing.
- D. Release the button on the S Port #1.
 - E. Gently tug on the wire to confirm a secure connection.
 - F. If you have more than one Signal Wire (or want to add additional lights / zones) use the next numerical S Port.

FINAL WIRING RESULTS



THE FINAL TOUCHES

Attach Antenna



STEP 12: Attach the Antenna to the Control Box.

A. First, make sure the Antenna connection is secure by pressing on the antenna, where it connects to the

Controller.

B. Clean the inside corner of the box with alcohol to secure the Antenna Receiver.

C. Remove the Antenna Receiver's tape backing, then press and hold onto the box for 5 seconds.

Fasten New Sticker to Door

STEP 13: Fasten the supplied sticker to the inside door panel over the old label for updated instructions.



Apply the Finals Touches

STEP 14: The final steps!

A. Remove your optional wire labels.

B. Plug in the Control Box and Booster Boxes into power.

C. Congrats! Your retrofit is complete ...

D. Now, it's time to set up your new controller and Oelo Evolution App: oelo.com/resources/manuals

Tag us in your photos and videos please!

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If you have issues with your retrofit install, please contact our troubleshooting desk.

[970-212-3676](tel:970-212-3676)

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LIGHTING SOLUTIONS

oelo.com | 3842 Redman Dr., Fort Collins, CO | 970.212.3670

See an Oelo representative or authorized installer for further details. All information in this brochure is the latest available at the time of publication. Printed in the USA. 0324 ©2024 Oelo

Documents / Resources



[Oelo Lighting Solutions Controller Retrofit Kit](#) [pdf] Instruction Manual
Controller Retrofit Kit, Retrofit Kit, Kit

References

- [User Manual](#)

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