



oelo Retrofit Controller User Manual

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oelo Retrofit Controller



Product Information

Specifications

- Model: OELO Retrofit Controller
- Power Supply: LPV-20-12
- Antenna: High-powered for WiFi connectivity
- Tools Required: #2 Phillips Screwdriver, 1/8th Flathead Screwdriver

Product Usage Instructions

Retrofit Components Overview

Before starting the installation, familiarize yourself with the key retrofit components:

- Current Control Unit
- Existing Components (Screws, Outlet Plate)
- New Control Board
- New Power Supply
- Antenna

Removing the Old Control Board

1. **Step 1:** Disconnect power to the current Control Box and any connected Booster Boxes.
2. **Step 2:** Label the wires connected to the Printed Control Board (PCB).
3. **Step 3:** Use a 1/8th Flathead Screwdriver to disconnect the wires from the PCB.

Installing the New Control Boar

4. **Step 4:** Mount the new Control Board to the metal plate and insert it into the Control Box.
5. **Step 5:** Connect the new Power Supply to the Control Unit Board using the supplied tape.
6. **Step 6:** Ensure proper connection of wires, lights, and channels to the new Controller.

Frequently Asked Questions (FAQ)

Q: Can I expand my system with additional zones using this Retrofit Kit?

A: Yes, you can expand your system to add additional zones by connecting to existing wire, light, and channel runs.

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.

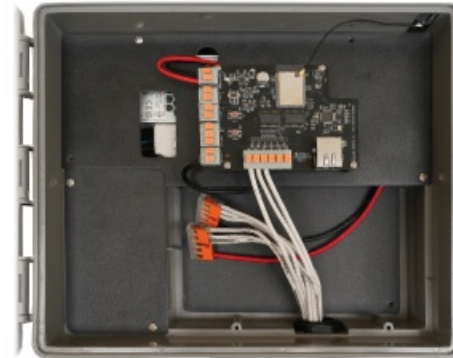
- Your new controller has the ability to power up to 300 lights from a single control box (or more, if paired with an optional boost box)!
- Plus, your controller has six (6!!) Individually controllable signal outputs, which allows you to install six different zones from one controller for creative installs, 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).

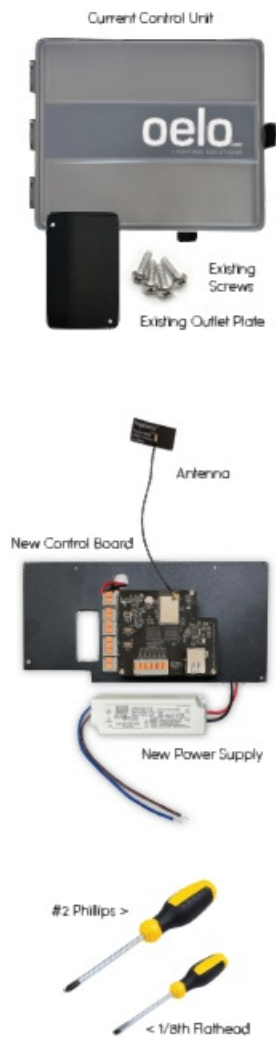
NEW LPV-20-12 POWER SUPPLY: The new Power Supply is pre-connected to the new Control Unit Board and will be inserted into the existing Control Box with supplied double-sided 3M tape.

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

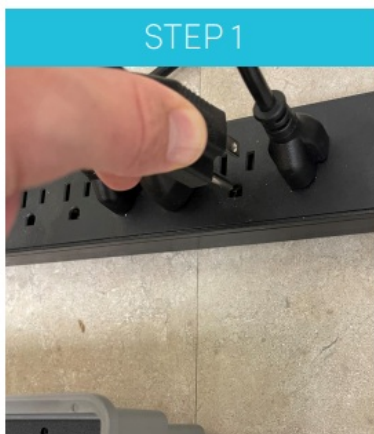
#2 PHILLIPS SCREWDRIVER: Needed to remove Control Box metal plates.

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



REMOVING THE OLD CONTROL BOARD

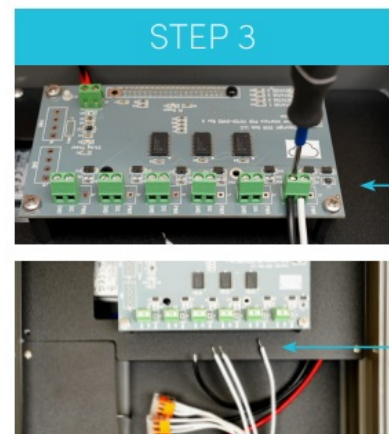
1. STEP 1: Disconnect power to the current Control Box and any Booster Boxes connected to the unit.
2. OPTIONAL STEP: Label the wires connected to the Printed Control Board (PCB). (Note: Each wire is already labeled with a small imprinted descriptor; however, this step may help you more easily re-wire your new Control Board.)
3. STEP 3: Use a 1/8th Flathead Screwdriver to disconnect the Wires connected from the PCB.



Disconnect Power



Label Your PCB Wires



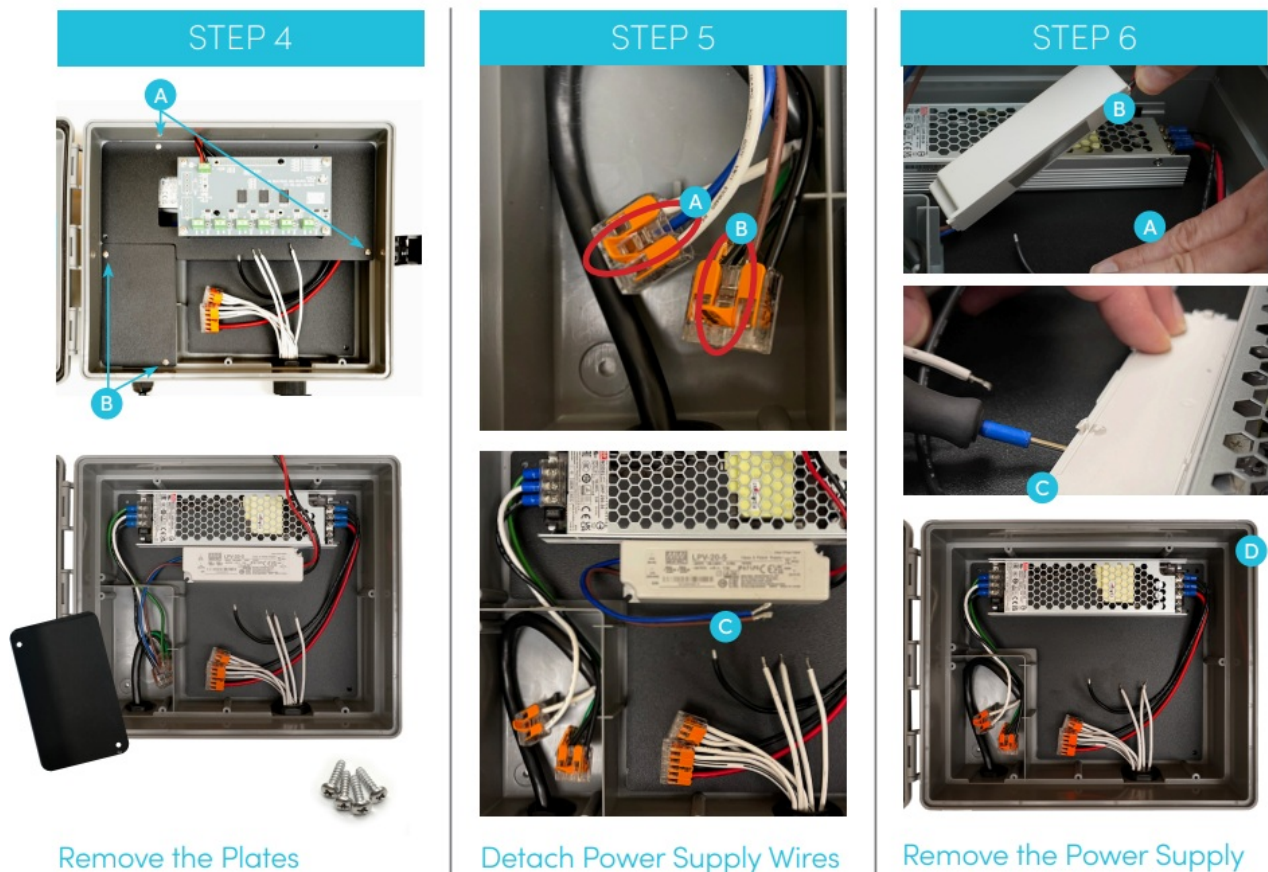
Disconnect PCB Wires



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

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
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.
6. 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.

7.



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

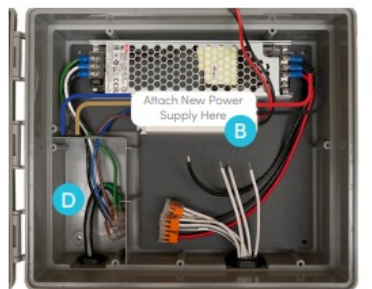
- Remove the red backing from the double-sided tape on the new LPV-20-12 Power Supply.
 - Place the LPV-20-12 on the Power Supply Plate with the Blue and Brown wires facing toward the Power Outlet.
 - Firmly apply pressure to the Power Supply for 10 seconds.
 - Feed the Blue and Brown wires into the Outlet Relief.
 - Wire the New Power Supply
8. STEP 8: Insert the LPV-20-12's Blue and Brown wires that are coming from the into the designated Wagos

below.

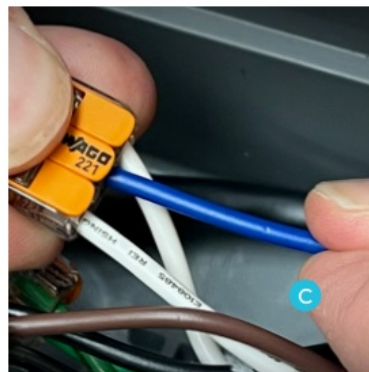
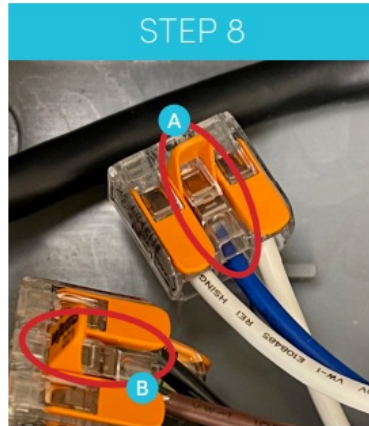
- A. Insert the Blue Wire into the Wago with the White Wires; flip closed.
- B. Insert the Brown Wire into the Wago with the Black Wires; flip closed.
- C. Test the connection by gently pulling on the wires.

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

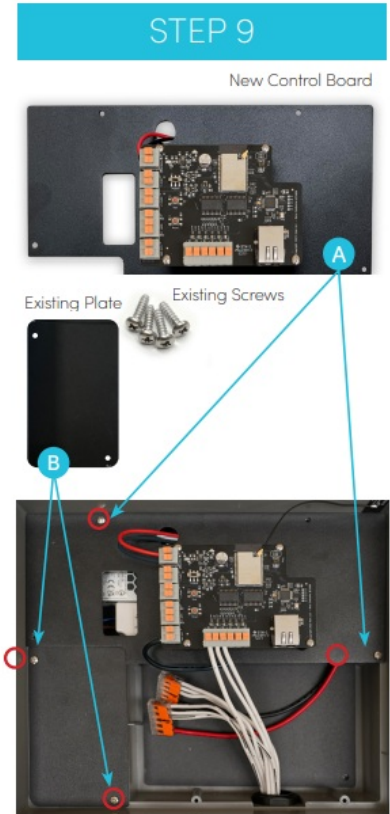
- A. Use 2 of the saved screws to secure the new Control Plate.
- B. Use 2 of the saved screws to secure the existing Outlet Plate.



Install New Power Supply



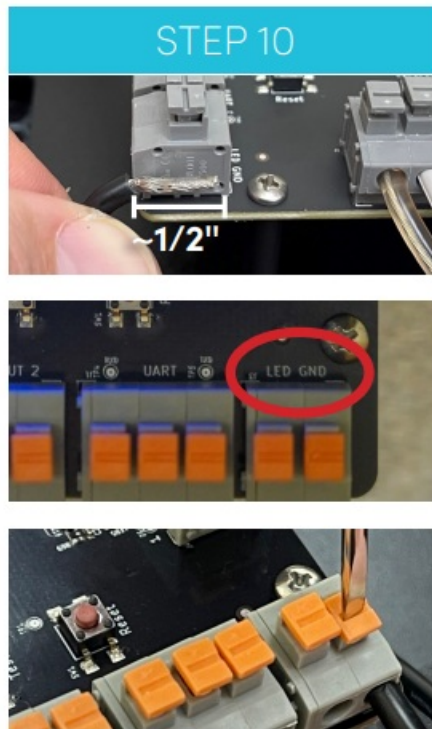
Wire the New Power Supply



Attach the Above Plates

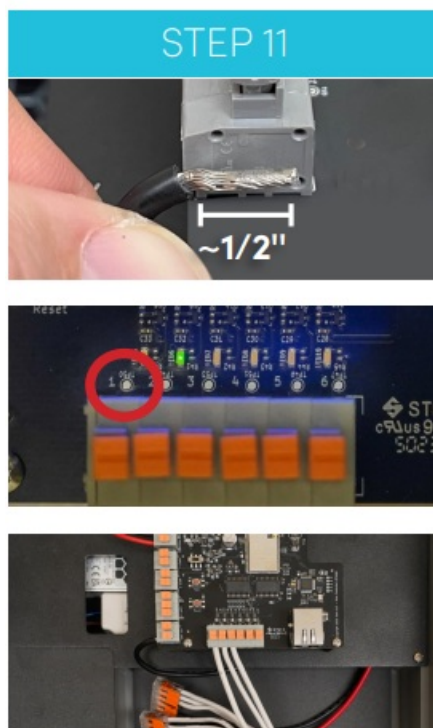
10. STEP 10: Insert the Ground Wire into the port labeled GND on the Control Board.

- A. Strip the GND Wire 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 GND Port.
- C. Insert the GND Wire into the GND Port. Do not have exposed wire showing.
- D. Release the button on the GND Port.
- E. Gently tug on the wire to confirm a secure connection.

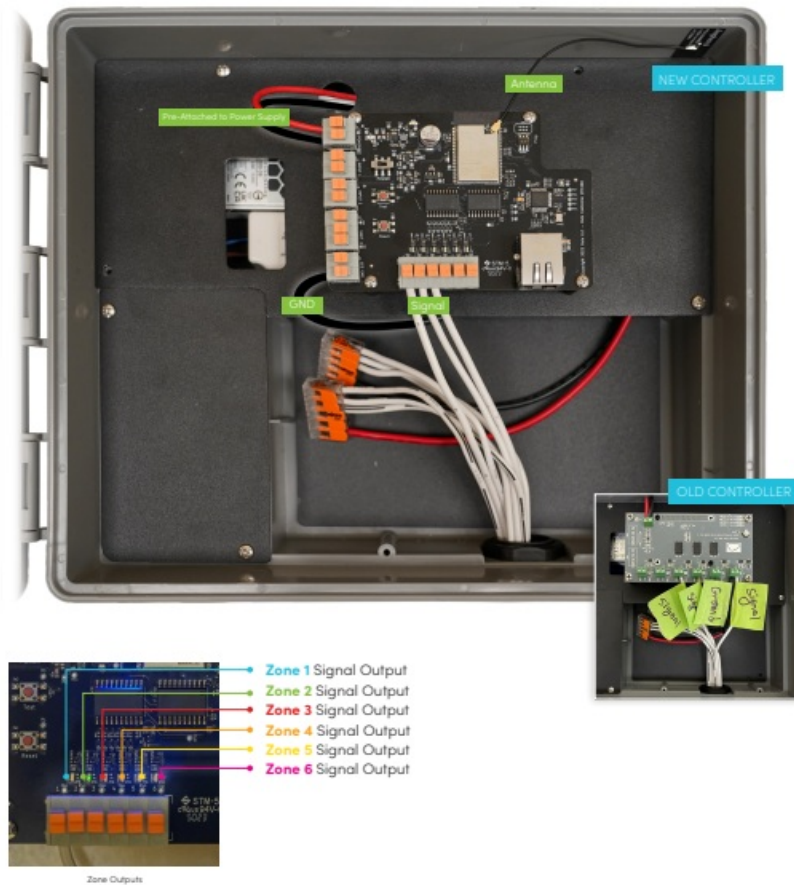


11. STEP 11: Insert the Signal Wire(s) into the into the ports labeled 1-6 on the Control Board.

- 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



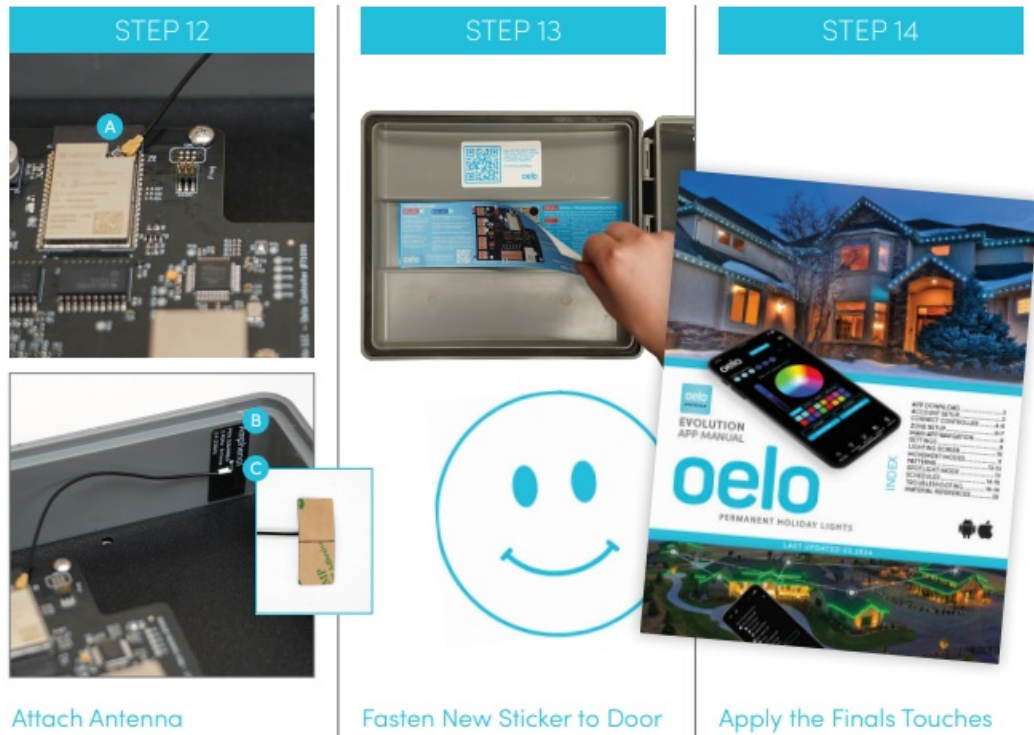
12. STEP 12: Attach the Antenna to the Control Box.

- 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.

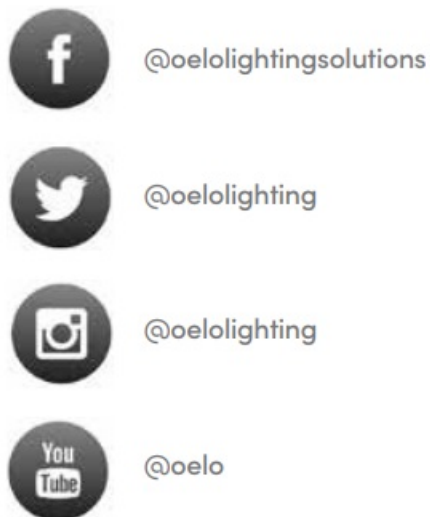
13. STEP 13: Fasten the supplied sticker to the inside door panel over the old label for updated instructions.

14. 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!



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

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

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 Retrofit Controller [pdf] User Manual OELO RETROFIT CONTROLLER, Retrofit Controller, Retrofit, Controller
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References

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