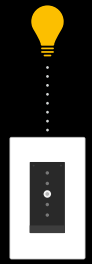
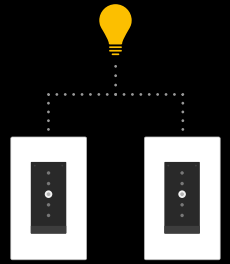
Installation Guide



Only one switch controls the lights.

For Single Switch Installation:

Use this manual.



Multiple switches control the same lights.

For Multiway Switch Installation:

Go to **www.getorro.com/multiway**

Before We Start

Start the install during daylight or have a flashlight ready.
Switch installation requires your lights to be off.

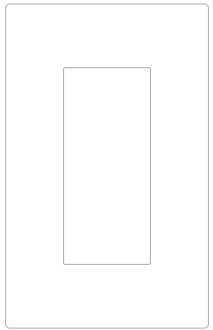
Your first time installing Orro may take up to 45 min.
You'll get faster with each installation.

Be Safe

Installing Orro is a straightforward process but it requires handling high voltage wiring. Please be careful.

Hire a professional if you are not comfortable with the installation or if you do not have the proper tools available.

What's in the Box



1x Faceplate & Mount

1x Orro Switch

4x Extension Wires

4x Wire Connectors

2x Plate Screws
2x Mounting Screws

6x Wire Labels

Tools Needed

Flathead
Screwdriver

Phillips
Screwdriver

Pliers
(recommended)

Power tools are not recommended.

Check Compatibility

Maximum Load

1 Identify your bulb type:

Common bulb types:

LED

(often plastic)

CFL

Incandescent

Halogen

(often glass)

2 Calculate the **Total Load** of your current light setup:

[Number of bulbs controlled by switch] X [Wattage of single bulb] = **Total Load**

Example: [4 LED bulbs] x [10 watts each] = 40 watts total load

3 **Total Load** must be less than **Max Load** (based on bulb type):

Bulb Type	LED CFL	MagLowV ElecLowV	Halogen Incandescent	Fluorescent
Max Load	150W	300W	500W* *360W max load if switch is located in a wall box with more than one switch (multi-gang box)	5A

120V/60 Hz Power Required

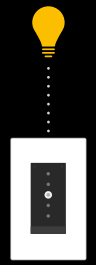
120V/60 Hz power is standard in residential homes in the USA and Canada.

WiFi Required for Setup

Orro does not rely on WiFi to make lighting decisions. However, the Switch must be connected to WiFi for setup, app based remote control, enabling certain features, and getting updates.

Fan Lights Not Supported

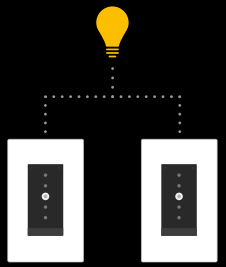
Orro Switches are only intended to control lighting fixtures. They are not designed to control other appliances such as fans or vents. Furthermore, Orro Switches are not intended to replace dual purpose switches such as combined bathroom fan/vent and light switch, or a lighted ceiling fan.



Only one switch controls the lights.

For Single Switch Installation:

Use this manual.



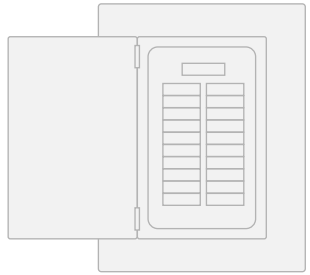
Multiple switches control the same lights.

For Multiway Switch Installation:

Go to **www.getorro.com/multiway**

Installation

1 Turn Off Power



Turn off the circuit breaker for the light switch you're replacing.

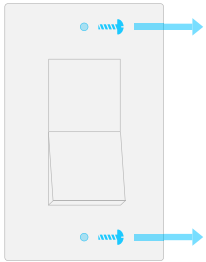
Check the power is OFF by toggling your light switches on and off.

Your lights should **NOT** turn on.

Where is my circuit breaker?

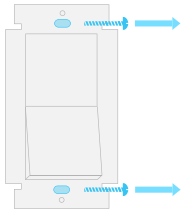
Breakers may be found in a garage, hallway, or basement. If you can't find the specific breaker, turn off the master breaker. If you are installing your switch in a multi-switch gang box, turn off breakers for all switches.

2 Remove Faceplate



- Unscrew or pop off the existing faceplate.
- If there is dried paint connecting the plate to the wall, use a box cutter to remove the faceplate cleanly.

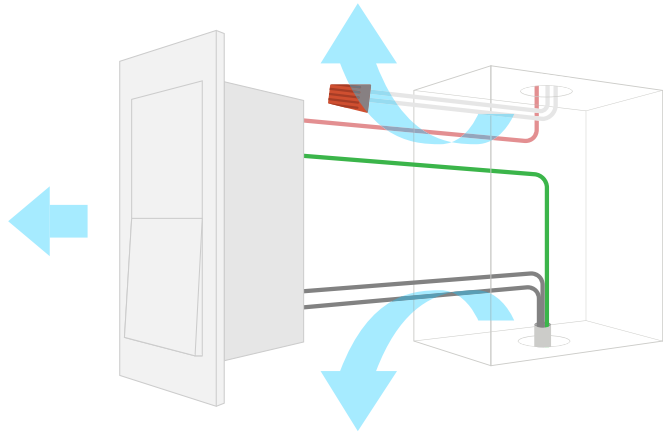
3 Unscrew Switch



Remove the screws from the top and bottom of the switch.

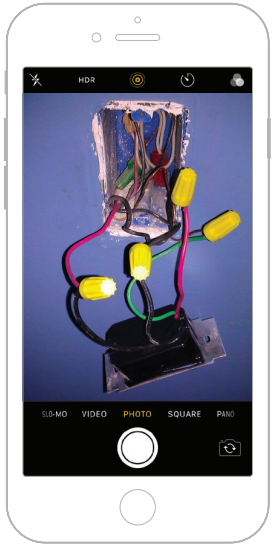
4 Pull Switch Out of the Wall

*** Do NOT** detach any wires!



Pull switch out as far as possible so that you can clearly see all the wires in the switch box.

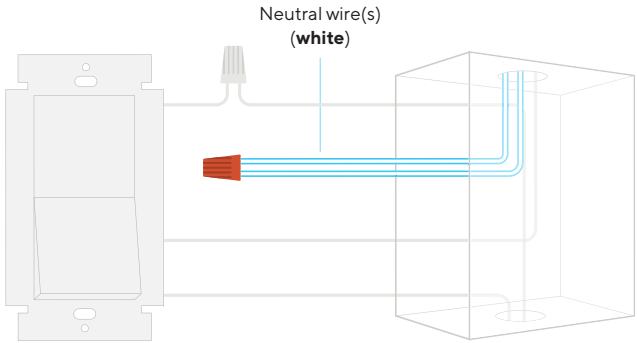
5 Take a Photo



Keep track of your wires. Take a close-up photo showing the existing wire connections. This will be useful for properly completing installation and in case you need to contact Orro support.

Identify Wires

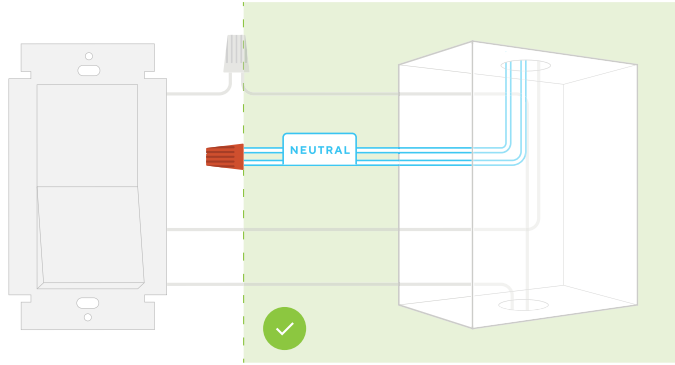
1 Identify Neutral Wire(s)



- A Neutral wire is **required** for the Orro Switch to work.
- **Neutral wires are often white** and can be found as a single wire or bundle of wires.
- **They may or may not be connected to your switch.**

Having trouble finding Neutral wires? Call us: (747) 253 0608

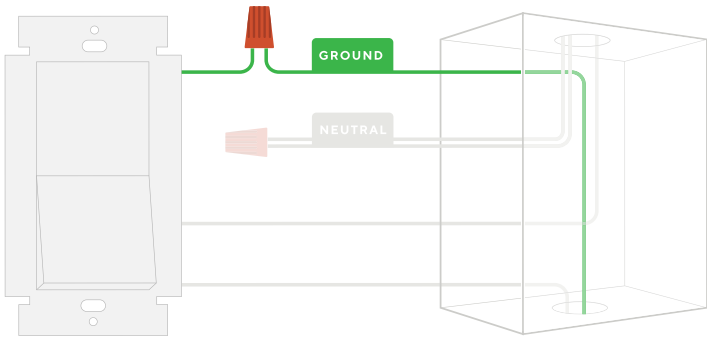
2 Label Neutral Wire(s)



Label the wire(s) beyond the wire nuts (if you have them).

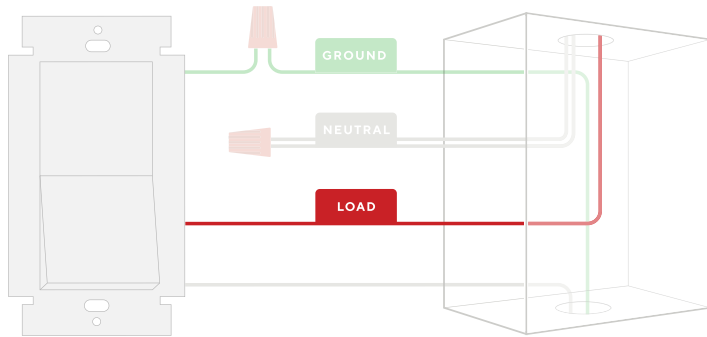
Use the included sticker to label all Neutral wire(s) **coming out of the wall.**

3 Label Ground Wire(s)

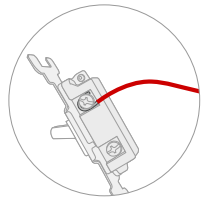


- Look for a **green** or **bare copper** single wire or group of wires.
- This wire may or may not be connected to the switch.
- Label all Ground wire(s) **coming out of the wall.**

4 Label Load Wire

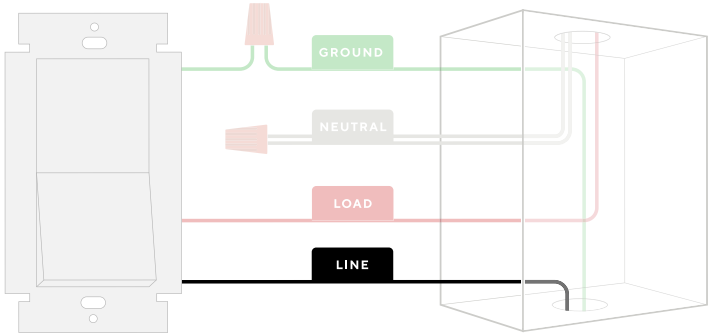


The load wire may be **red** or **black** and carries power out to your lights.

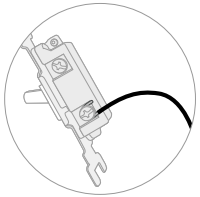


It is often connected to the top-half of your switch.

5 Label Line Wire



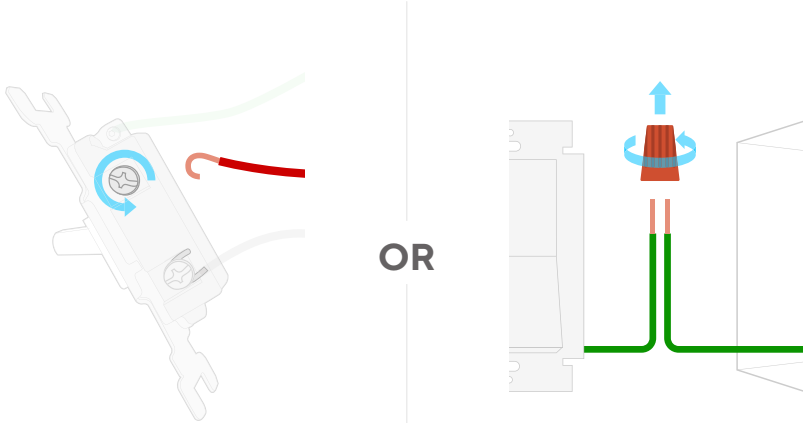
The Line wire is normally **black** and carries power into your switch.



It is often connected to the bottom-half of your switch. It is sometimes attached with a black screw.

Install Orro

1 Remove Old Switch



Screwed-In Wires

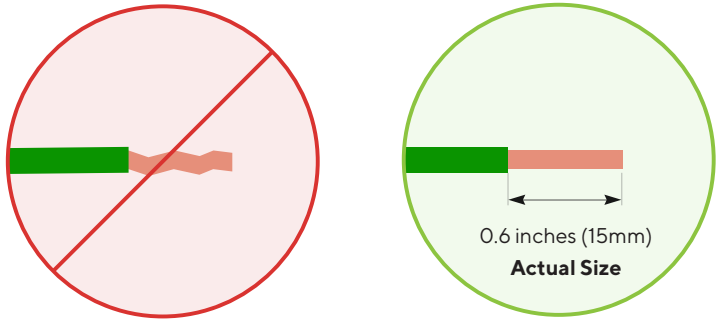
Built-In Wires

Possible Switch Configurations

Disconnect the wall wires from your switch. Depending on your switch type, either loosen the screws or remove the wire nuts. For wires inserted into ports, either remove the wires from the ports or cut the wires to remove them.

* If your wires are held in by screws, avoid removing the screws completely.

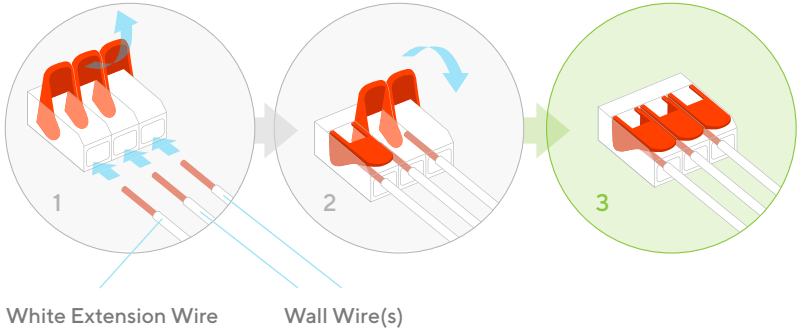
2 Strip and Straighten Wires



The wires coming out of your wall need to have straight and stripped ends for proper operation:

1. If the ends of the wires in your switch box are bent out of shape, use pliers to cut and discard them.
2. Strip the wire by removing the plastic casing. Make sure exposed wire ends are 0.6 inches (15mm) using the diagram above.
3. Use solid 12 or 14 AWG copper wire only.

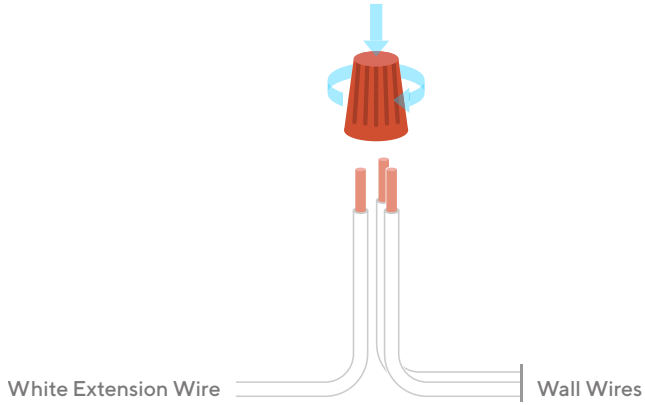
3 Connect All Neutral Wires



If you have one or two Neutral wires coming out of the wall, attach them to the provided white extension wire, using the provided 3-way wire connector.

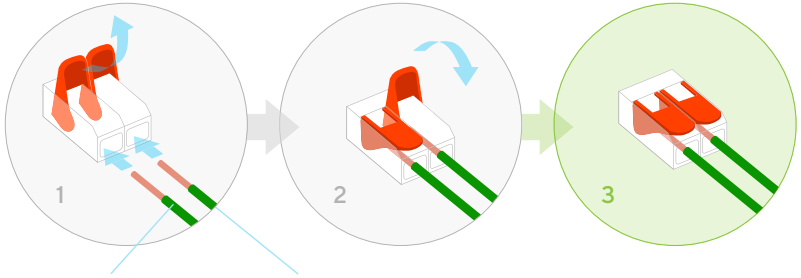
- **IF** you have one Neutral wire and it is long enough to reach outside the switch box, you can plug it directly into the Switch.
- **IF** you have a bundle of Neutral wires, connect the provided white extension wire to the bundle using the existing wire nut.

How to Use Wire Nuts



1. Hold the ends of the wires parallel together.
2. Screw on the wire nut clockwise until secure.
3. Tug each wire to ensure that the wire nut is secure.

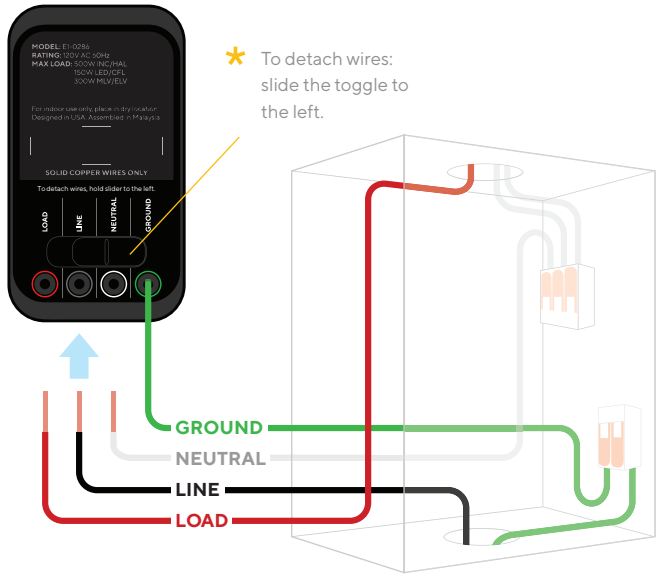
4 Connect All Ground Wires



Using the provided wire connector, attach the Ground wire coming from the wall to the provided green extension wire.

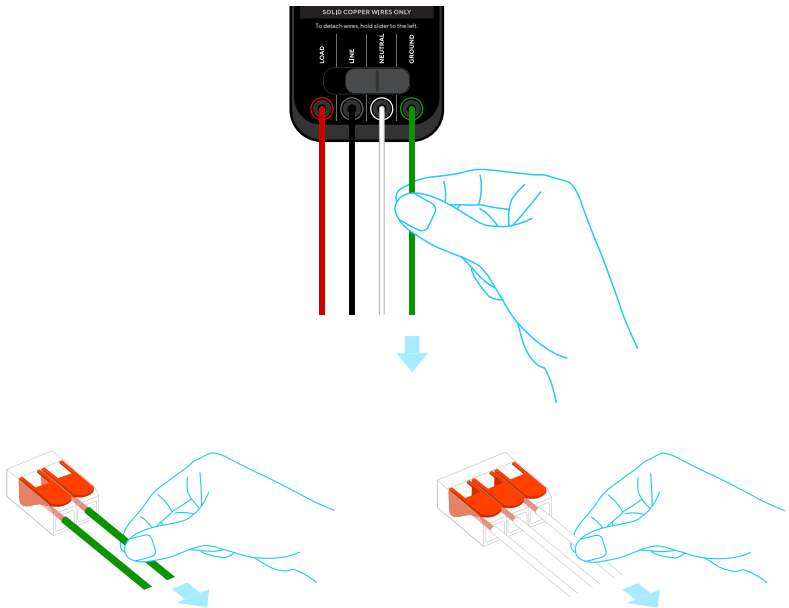
- **IF** you have one Ground wire and it is long enough to reach outside the switch box, you can plug it straight into the Switch.
- **IF** you have a group of Ground wires, connect the provided green extension wire to the bundle using the existing wire nut.

5 Plug Wires into Switch



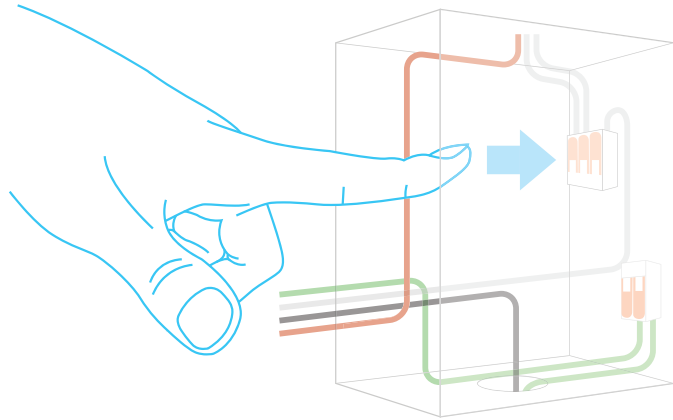
Simply plug in the wires from your wall to the corresponding ports on the back of the Orro Switch **(wires will lock in automatically)**.

6 Check Wire Connection



Gently tug on each wire to ensure that connection to the Switch and each connector is secure.

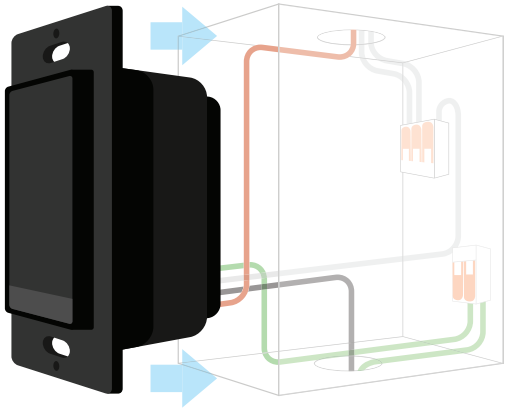
7 Push Wires Deep into Switch Box



Make room for the Orro Switch by pushing each wire as far as possible into the back of the switch box.

Do not use tools to push wires in. They may damage the wires.

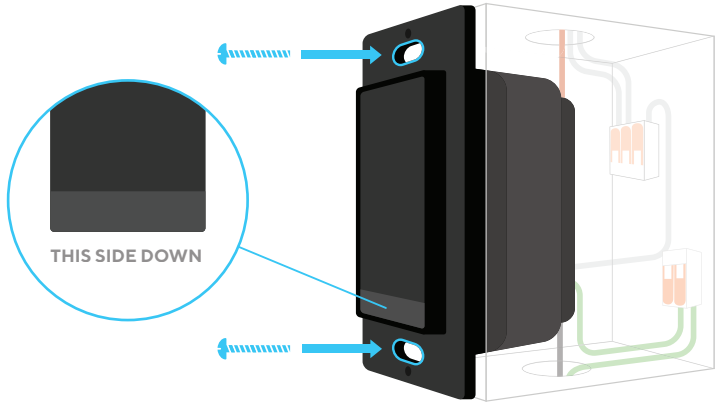
8 Check Switch Fit



- With light pressure, push your Orro Switch into the switch box.
- The Switch should sit flush against the wall – if not, pull the Switch out and try rearranging the wires.

Please do NOT force the Switch into the wall.

9 Secure Switch to Box

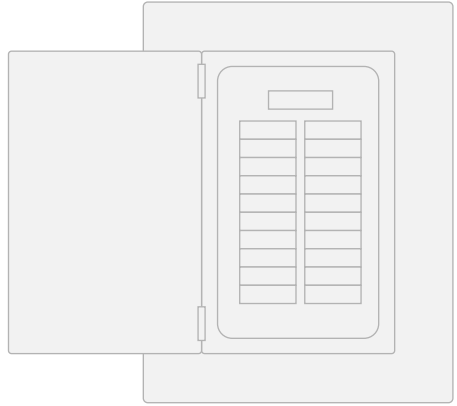


- Mount the Switch to the switch box using the **long** mounting screws. The screws should go through the oval holes.
- Before fully tightening the screws, check that the Switch is level and flush against the wall.

* The longer screws are used to mount the Switch to the wall.

Set Up Orro

1 Turn On Power

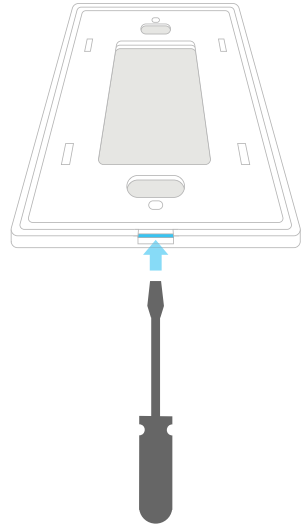


Once installation is complete, go to your circuit breaker and turn the power back on.

2 Check Screen

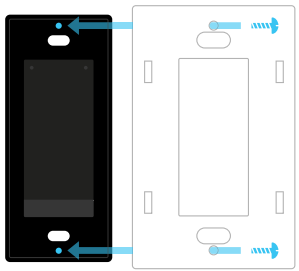
1. Give your Switch 30 seconds to power on. The lights may stay off during this process.
2. Check to see that the screen lights up.
3. If your Switch does not turn on, go to pg. 39 for troubleshooting.

3 Detach Mount from Faceplate

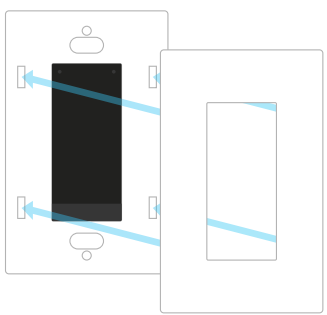


Push a flathead screwdriver into the slot at the bottom of the faceplate until it separates from the mount. Gently pry apart the two pieces.

4 Attach Faceplate

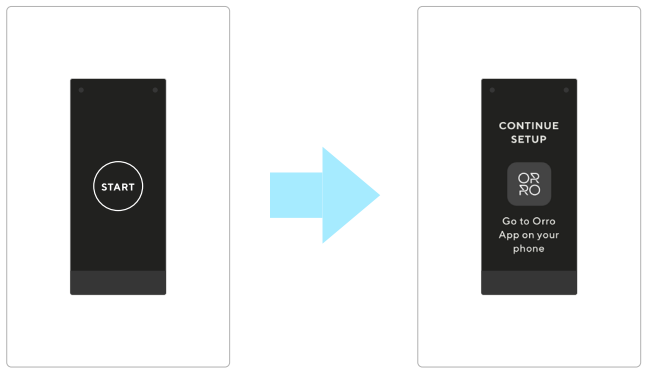


Use the **short** screws to attach the faceplate mount.



Push faceplate onto the mount and snap it into place.

5 Follow Switch Instructions

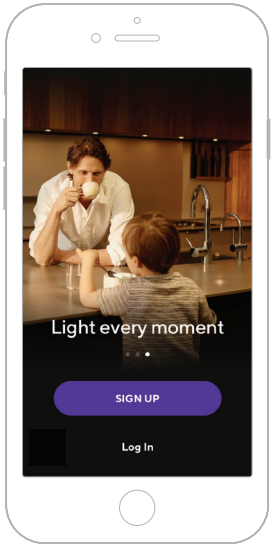


Tap “START” on the Switch and complete all on-screen instructions to begin setup.

6 Get the App

Install the Orro App from the Apple App Store.

7 Complete Setup



Sign up and complete setup in the app.

Troubleshooting

If after installation, your Switch does not turn on:

1. Turn off the circuit breaker.
2. Make sure all wires are securely connected to correct Switch ports.
3. Turn on the circuit breaker and wait a minute to see if the Switch powers on.

If your Switch *still* does not turn on:

1. Turn off the circuit breaker.
2. Try swapping your Line and Load wires.
3. Turn on the circuit breaker and wait a minute to see if the Switch powers on.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: 1) Reorient or relocate the receiving antenna; 2) Increase the separation between the equipment and receiver; 3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected; 4) Consult the dealer or an experienced radio/TV technician for help.

WARNING: Any changes or modifications not expressively approved by Edison Labs, Inc. could void the user's authority to operate this equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Warranty: One year limited warranty included. Visit www.getorro.com/policy for more details.

Need Help?

We're ready to assist you.

Installation FAQ:	**getorro.com/setupfaq**
General support:	**support@getorro.com**
Urgent issues:	**(747) 253 0608**
Support hours:	**Weekdays 7am-7pm (PT)** **Weekends 10am-6pm (PT)**

D-ART-0016-02 Rev B