Incandescent / Halogen 120 V~ Dimmer

Rated at 120 V~ 60 Hz

- **Easy-to-follow Instructions**

Important Notes Please read before installing.

1. **CAUTION:** To avoid overheating and possible damage to other equipment, do not use to control receptacles, fluorescent lighting fixtures, motor-driven appliances, or transformer-supplied appliances.
2. Install in accordance with all national and local electrical codes.
3. Only one dimmer can be used in a 3-way circuit.
4. Recommended minimum load is 40 W.
5. It is normal for the dimmer to feel warm to the touch during operation.
6. **Clean dimmer with a *soft damp cloth only.*** Do not use any chemical cleaners.

Multigang Installations

When installing more than one control in the same wallbox, it may be necessary to remove all inner side sections prior to wiring (see diagram).

Technical Assistance

If you have questions concerning the installation or operation of this product, call *Larson Electronics.* Please provide exact model number when calling.
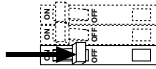
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http://www.larsonelectronics.com

Limited Warranty

Contact Larson Electronics for warranty and return information.

LARSON ELECTRONICS

Larson Electronics, LLC
9419 US-HWY 175
Kemp, TX 75143, U.S.A.
EXP-DRW

Installation
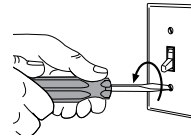
1 Turning OFF Power.
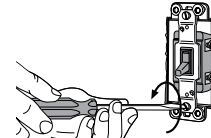- Turn power OFF at circuit breaker (or remove fuse).

WARNING: Shock Hazard. May result in serious injury or death. **Turn off power at circuit breaker before installing the unit.**
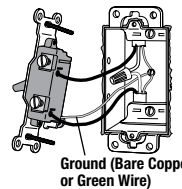
2 Removing Plate and Switch.
- Remove front plate and switch mounting screws.
- Carefully remove switch from box **(do not remove wires).**

Caution: Verify power is OFF to switch before proceeding.
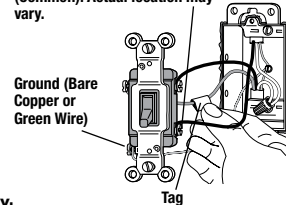
3 Identifying the Type of Circuit.

OR

Different-colored screw (Common). Actual location may vary.

Ground (Bare Copper or Green Wire)

Ground (Bare Copper or Green Wire)

Tag

SINGLE-POLE:
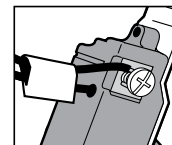Insulated wires connected to two screws of the same color. Replace with a SINGLE-POLE dimmer. **See Step 5a.**
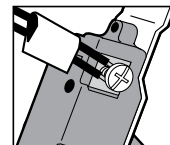
OR

3-WAY:
Insulated wires connected to three screws. One of these wires is connected to a screw of a different-color (not green) or labeled COMMON. **MARK** or **TAG** this wire to identify it when wiring. Replace with a 3-WAY dimmer. **See Step 5b.**

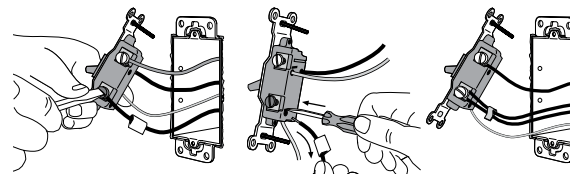### 4 Disconnecting Switch Wires.

Important Note: Your wall switch may have two wires attached to the same screw (see illustrations below for examples). Tape these two wires together before disconnecting. If your switch has two wires attached to the same terminal, connect both wires to the Dimmer terminal in **Step 5**.

One wire in the backwired hole and one to the screw.

One continuous wire to the screw.

Screw Terminals:
Turn screws to loosen.

Push-in Terminals:
Insert screwdriver. Pull wire out.

Looped Wire:
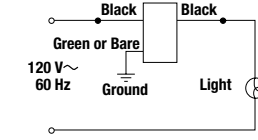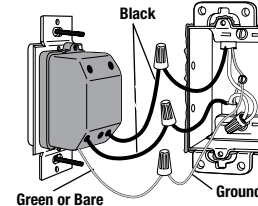Turn screw to loosen.

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5 Wiring the Dimmer.
- For installations involving more than one control in a wallbox, refer to the section on Multigang Installations before beginning.

NOTE: Dimmer wire location may vary by model number. Reference wires by color, not backcover location.

5a - Single-Pole Wiring

Black

Green or Bare   **Ground**

Black **Black**
Green or Bare
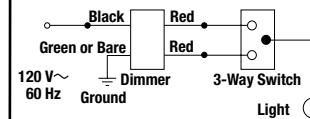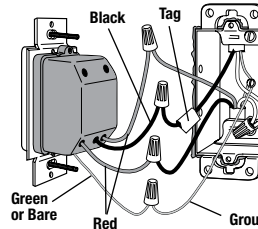**120 V~ 60 Hz** **Ground** **Light**

- Connect the **green or bare** dimmer ground wire to the green or bare copper ground wire in the wallbox. (See Important Note 4.)
- Connect one of the **black** dimmer wires to either of the wires removed from the switch.
- Connect the remaining **black** dimmer wire to the other wire removed from the switch.

Note: To use a 3-Way dimmer (one black and two red wires) in a single-pole application, cap off one of the red wires and follow instructions for single-pole wiring. (If the on/off switch works backwards, switch the red wires.)
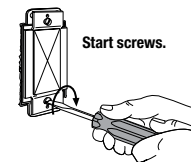
5b - 3-Way Wiring

Black **Tag**

Green or Bare **Red** **Ground**

Black **Red**
Green or Bare **Red**
120 V~ 60 Hz **Dimmer** **Ground** **3-Way Switch** **Light**

- **NOTE:** Only one dimmer can be used in a 3-WAY circuit.
- Connect the **green or bare** dimmer ground wire to the green or bare copper ground wire in the wallbox. (See Important Note 4.)
- Connect the **black** dimmer wire to the wire removed from the different-colored screw on the switch (marked or tagged wire).
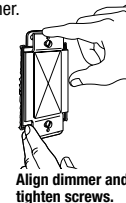- Connect one of the **red** dimmer wires to either of the remaining wires removed from the switch.
- Connect the remaining **red** dimmer wire to the remaining wire removed from the switch.

6 Mount Dimmer to Wallbox.
- Form wires carefully into the wallbox, mount and align dimmer.
- Install wallplate.

Start screws.

Align dimmer and tighten screws.

7 Turning ON Power.
- Turn power ON at circuit breaker (or replace fuse).