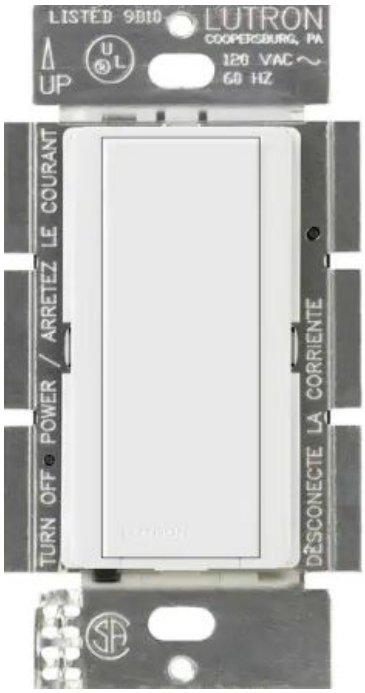
LUTRON MA-AS-WH Maestro 8 Amp Multi Location Companion Switch User Manual

Contents

LUTRON®

LUTRON MA-AS-WH Maestro 8 Amp Multi Location Companion Switch



Product Information: Electronic Switch for Light Fixtures

The Electronic Switch is a device that replaces traditional wall-mounted switches for controlling light fixtures. It is designed to work with single, two, or three or more location control setups. The switch uses insulated wire connections and is compatible with 14 AWG (1.5 mm2) to 12 AWG (2.5 mm2) solid copper wires.

Installation Instructions

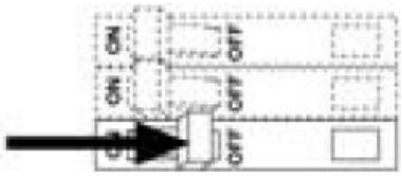
1. Turn off power at circuit breaker or remove the fuse before installing the unit.
2. Remove the wall plate and switch mounting screws carefully, without removing the wires.
3. Identify the circuit type based on the number of switches controlling the light fixture:
    1. Single Location Control: The switch will be a single-pole with insulated wires connected to two screws of the same color plus a green ground screw.
    2. Two-Location Control: Both switches will be 3-way with insulated wires connected to three screws plus a green ground screw. One of these wires is connected to a screw of a different color (not green) or labeled COMMON. Tag this wire on both switches to identify when rewiring.
    3. Three or More-Location Control: Two switches will be 3-way and any others will be 4-way. Tag the two 3-way switches as in the Two-Location diagram above. The 4-way switch will have insulated wires connected to four screws plus a green ground screw. Tag the two same-color insulated wires that are connected to opposite colored screws. Follow this procedure for each 4-way switch.
4. Before disconnecting the switch wires, tape any two wires attached to the same screw together. When rewiring, connect wires to the Electronic Switch the same way they were connected to the switch.
5. When making wire connections, follow these steps:
    1. Trim or strip wall box wires to the length indicated by the strip gauge on the back of the Electronic Switch.
    2. For joining 14 AWG (1.5 mm2) or 12 AWG (2.5 mm2) ground wire to 18 AWG (0.75 mm2) Electronic Switch ground wire, use a wire connector provided with the switch. Twist the wire connector tight.
    3. For push-in terminals, insert wires fully. Note: Push-in terminals are for use with 14 AWG (1.5 mm2) solid copper wire only. DO NOT use stranded or twisted wire.
    4. For screw terminals, tighten securely. Note: Screw terminals are for use with 12 AWG (2.5 mm2) or 14

AWG (1.5 mm2) solid copper wire only. DO NOT use stranded or twisted wire.

6. For Single-Location Control, connect black wire to the brass screw and green wire to the green screw. For Two-Location and Three or More-Location Control, follow the tagging procedure mentioned earlier.

Installation

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



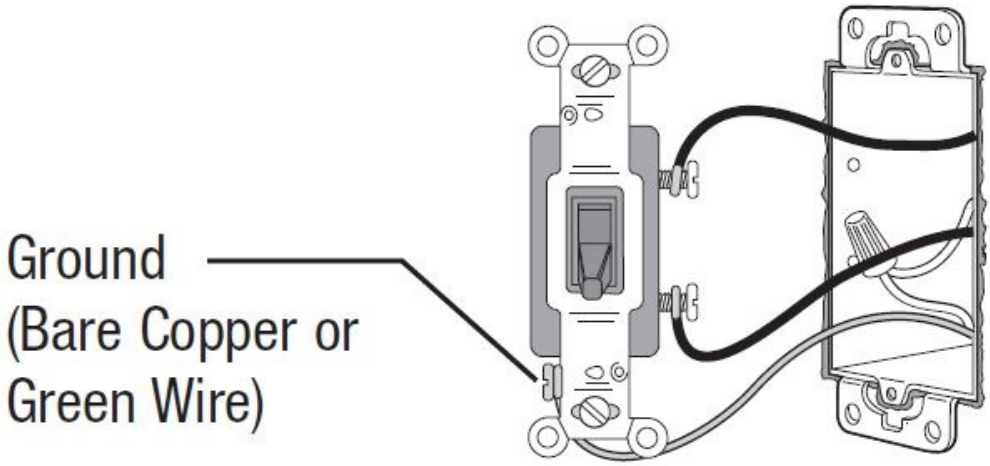
WARNING
Shock Hazard. May result in serious injury or death. Turn off power at circuit breaker before installing the unit.

Removing Wallplate and Switch
Remove the wallplate and switch mounting screws. Carefully remove the switch from the wall (do not remove the wires).

Identifying the Circuit Type and Tagging the Wire on the COMMON Terminal of the Switches

Single Location Control

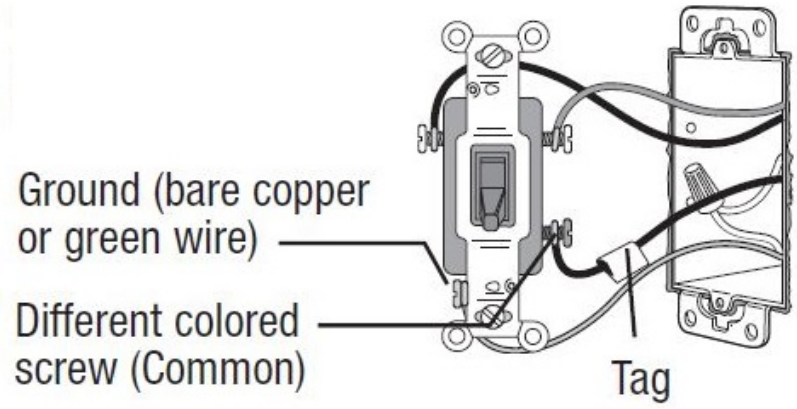
- **One switch controlling a light fixture:**
  This switch will be a single-pole. The switch will have insulated wires connected to two screws of the same color plus a green ground screw.



Two-Location Control

Note: Screw placement may be different on the switch.

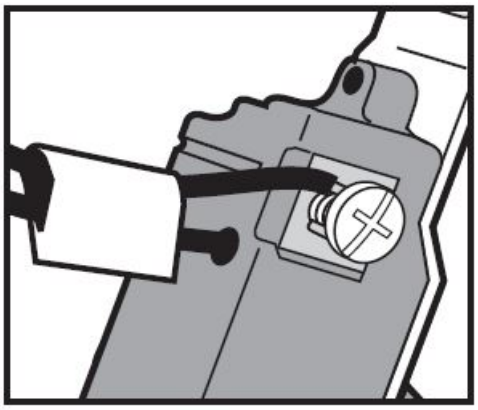
- **Two switches controlling a light fixture:**
  Both switches will be 3-way. Each switch will have insulated wires connected to three screws plus a green ground screw. One of these wires is connected to a screw of a different color (not green) or labeled COMMON. Tag this wire on both switches to identify when rewiring.



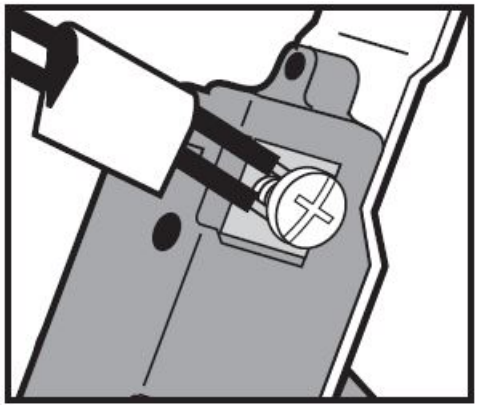
Three or More-Location Control
Note: Screw placement may be different on the switch.

- **Three or more switches controlling a light fixture:**
  Two switches will be 3-way and any others will be 4-way. Tag the two 3-way switches as in the Two-Location diagram above. The 4-way switch will have insulated wires connected to four screws plus a green ground screw. Tag the two same-color insulated wires that are connected to opposite colored screws. Follow this procedure for each 4-way switch.

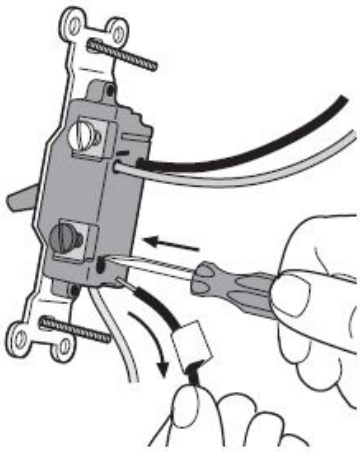
Disconnecting the Switch Wires
Important Note: The wall switch may have two wires attached to the same screw (see illustrations below for examples). Tape these two wires together before disconnecting. When rewiring, connect wires to the Electronic Switch the same way they were connected to the switch.



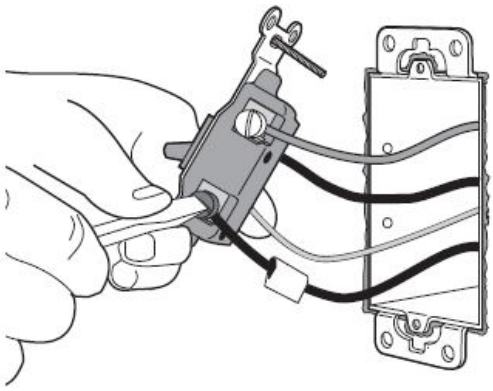
One wire in the back wired hole and one to the screw.



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



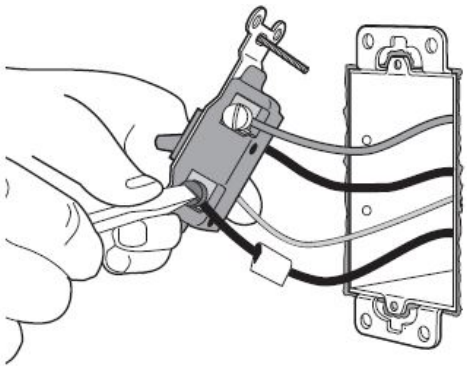
Looped Wire:
Turn screw to loosen.



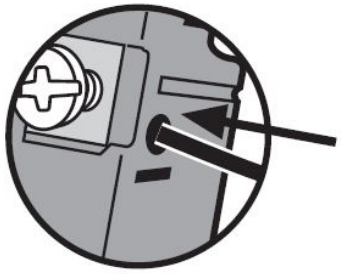
Wiring
When making wire connections, follow the recommended strip lengths and combinations for the supplied wire connector. Note: All wire connectors provided are suitable for copper wire only. For aluminum wire, consult an electrician.

Trim or strip wallbox wires to the length indicated by the strip gauge on the back of the Electronic Switch.

Wire connector:
Use to join 14 AWG (1.5 mm2) or 12 AWG (2.5 mm2) ground wire to 18 AWG (0.75 mm2) Electronic Switch ground wire.



Push-in terminals:
Insert wires fully.
Note: Push-in terminals are for use with 14 AWG (1.5 mm2) solid copper wire only. DO NOT use stranded or twisted wire.



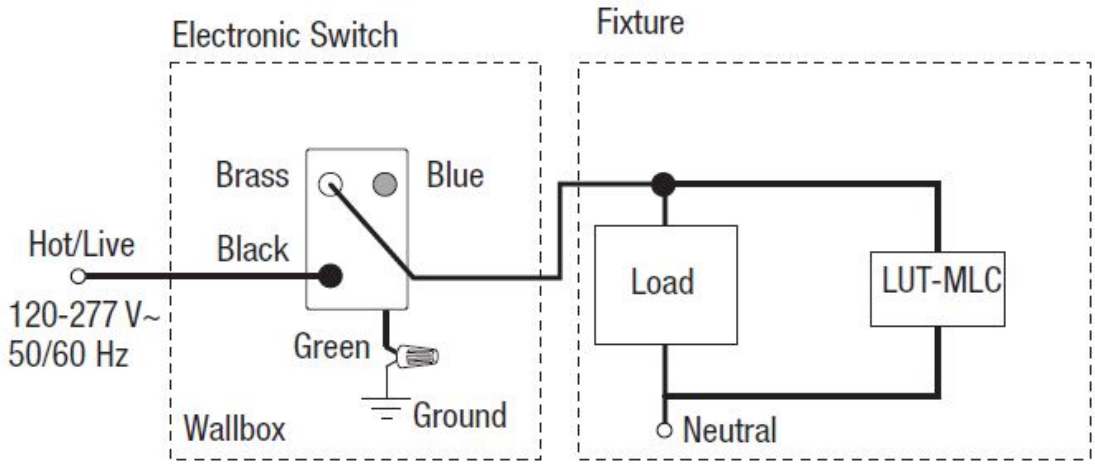
Screw terminals:
Tighten securely.
Note: Screw terminals are for use with 12 AWG (2.5 mm2) or 14 AWG (1.5 mm2) solid copper wire only. DO NOT use stranded or twisted wire.

- For installations involving more than one control in a wallbox, refer to Multi gang Installations before beginning.
- Use the screw or push-in terminals when making connections on the Electronic Switch or Companion Switch.
- Wire all controls before mounting.

Single-Location Control

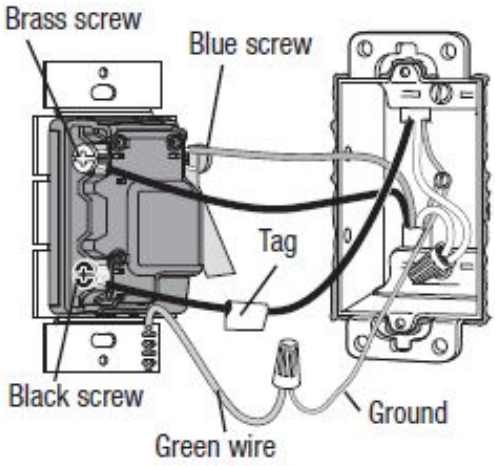
Install the Electronic Switch:

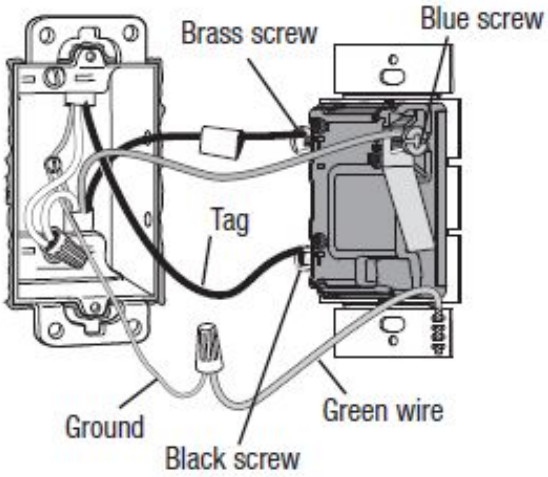
- Connect the green ground wire on the Electronic Switch to the bare copper or green ground wire in the wall box. (See Important Note 3 on other side.)
- Connect either of the wires removed from the switch to the black screw terminal on the Electronic Switch.
- Connect the remaining wire removed from the switch to the brass screw terminal on the Electronic Switch.
- Tighten the blue screw terminal on the Electronic Switch. It is not used in a single-pole circuit.
- Install LUT-MLC when applicable. Refer to “Wiring the LUT-MLC” instruction sheet for installation procedure.



Single Location Wiring Diagram

Two-Location Control
One location will be replaced with an Electronic Switch and the other with a Companion Switch.
Important: In any 120 V~ 3-way circuit use MA / MSC-AS Companion Switch. In any 277 V~ 3-way circuit use MA / MSC-AS-277 Companion Switch.





Install the Electronic Switch:

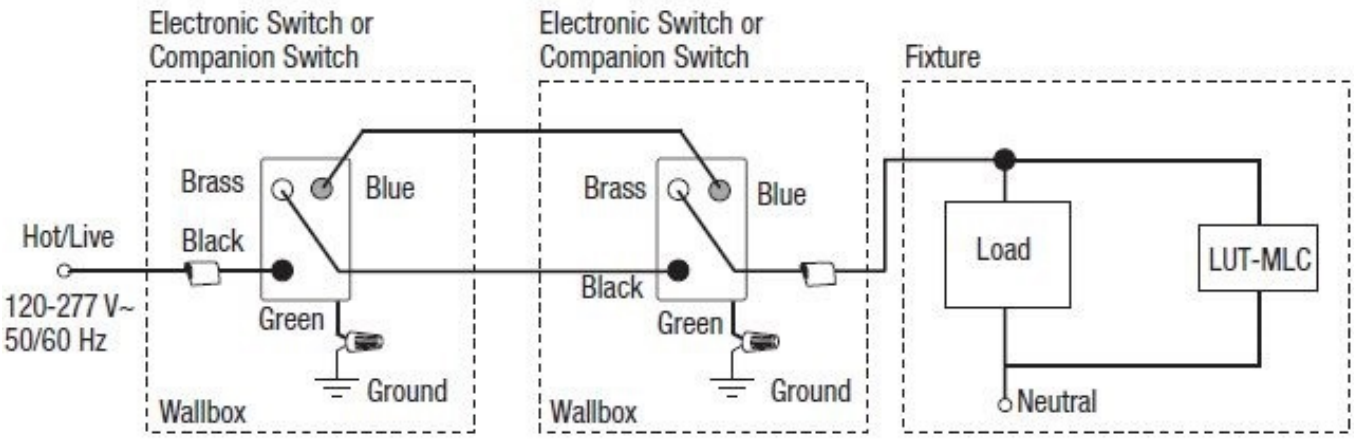
- Connect the green ground wire on the Electronic Switch to the bare copper or green ground wire in the wall box. (See Important Note 3 on other side.)
- Connect the tagged wire removed from the switch in step 3b to the black screw terminal on the Electronic

Switch.

- Connect one of the remaining wires removed from the switch to the brass screw terminal on the Electronic Switch.
- Connect the remaining wire removed from the switch (note wire color) to the blue screw terminal on the Electronic Switch.

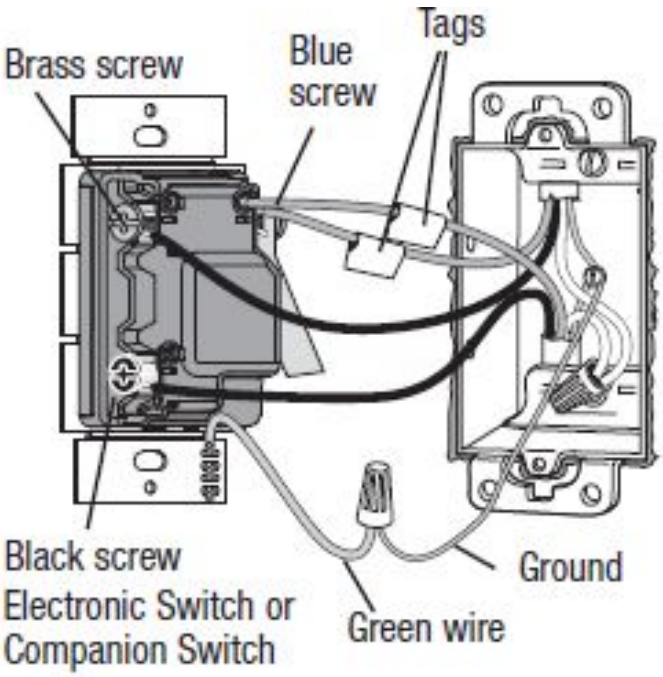
Install the Companion Switch
(MA / MSC-AS or MA / MSC-AS-277):

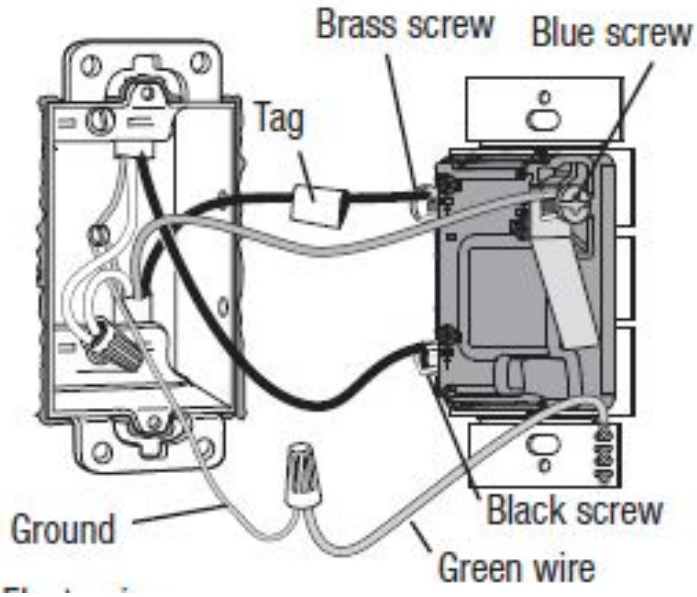
- Connect the green ground wire on the Electronic Switch to the bare copper or green ground wire in the wall box. (See Important Note 3 on other side.)
- Connect the wire tagged in step 3b to the brass screw terminal on the Companion Switch.
- Connect the same color wire connected to the blue screw terminal on the Electronic Switch (wire color noted above) to the blue screw terminal on the Companion Switch.
- Connect the remaining wire removed from the switch to the black screw terminal on the Companion Switch.
- Install LUT-MLC when applicable. Refer to “Wiring the LUT-MLC” instruction sheet for installation procedure.



Two-Location Wiring Diagram

Three or More-Location Control
One location will be replaced with an Electronic Switch and the others with Companion Switches. Only one Electronic Switch can be used with up to nine Companion Switches. Important: In any 120 V~ 3-way/4-way circuit use MA / MSC-AS Companion Switches. In any 277 V~ 3-way/4way circuit use MA / MSC-AS-277 Companion Switches.



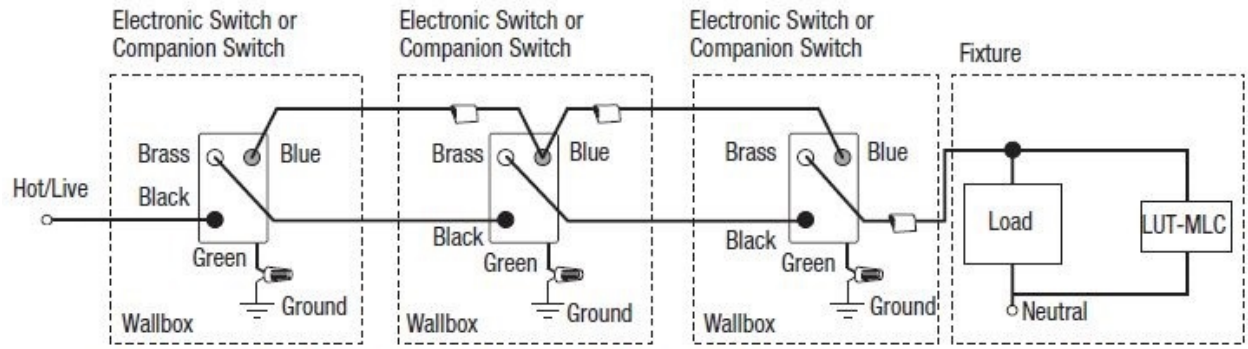


Replace the 4-way switch(es):
Note: 4-way switches may be replaced with either an Electronic Switch or a Companion Switch.

- Connect the green ground wire on the Electronic Switch or Companion Switch to the bare copper or green ground wire in the wallbox.
  (See Important Note 3 on other side.)
- Connect both of the wires tagged in step 3c (noting their color) to the blue screw terminal on the Electronic Switch or Companion Switch (one wire to the screw and the other to the push-in terminal).
- Connect one of the remaining wires removed from the switch to the brass screw terminal on the Electronic Switch or Companion Switch.
- Connect the remaining wire removed from the switch to the black screw terminal on the Electronic Switch or Companion Switch.

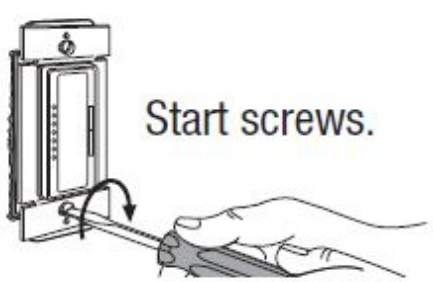
Replace the 3-way switches:

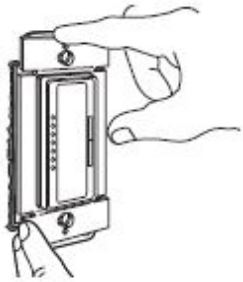
- Connect the green ground wire on the Electronic Switch or Companion Switch to the bare copper or green ground wire in the wallbox. (See Important Note 3 on other side.)
- Connect the wire tagged in step 3b to the brass screw terminal on the Electronic Switch.
- Connect the same color wire connected to the blue screw terminal on the Electronic Switch (wire color noted above) to the blue screw terminal on the Companion Switch.
- Connect the remaining wire removed from the switch to the black screw terminal on the Electronic Switch or Companion Switch.
- Install LUT-MLC when applicable. Refer to “Wiring the LUT-MLC” instruction sheet for installation procedure.



Three or More Location Wiring Diagram

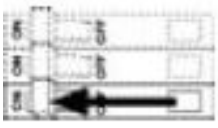
Mounting Switches to Wall box
Form wires carefully into the wall box, mount and align Electronic Switch (and Companion Switches). Attach Claro® or Satin Colors® Wallplate(s) (sold separately).





Align Electronic Switch and tighten screws

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



Documents / Resources

	LUTRON MA-AS-WH Maestro 8 Amp Multi Location Companion Switch [pdf] User Manual MA-AS-WH Maestro 8 Amp Multi Location Companion Switch, MA-AS-WH, Maestro 8 Amp Multi Location Companion Switch, Multi Location Companion Switch, Location Companion Switch, Companion Switch