

3-Way Kit Installation

Incandescent/Halogen Dimmer with IR Receiver
MIR-600M (600 W) 120 V~ 60 Hz

Infrared Wireless Transmitter with One-Touch Button
MIR-ITFS

Accessory Dimmer
MA-R (8.3 A Maximum) 120 V~ 60 Hz

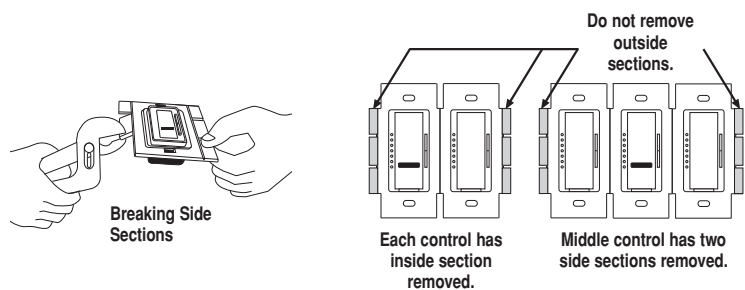
Important Notes

Please read before installing.

- Caution:** To avoid overheating and possible damage to other equipment, do not use to control receptacles, fluorescent lighting fixtures, motor-operated or transformer-supplied appliances.
- Install in accordance with all national and local electrical codes.
- When no "grounding means" exist within the wallbox then the NEC® 2002, Article 404-9 allows a dimmer without a grounding connection to be installed as a replacement, as long as a plastic, noncombustible wallplate is used. For this type of installation, cap or remove the green ground wire on the dimmer and use an appropriate wallplate such as Lutron's *Claro*® series wallplates.
- Do not paint Dimmers or Accessory Dimmers.
- Maestro IR* Dimmers are NOT compatible with standard 3-way switches. Use only with the Accessory Dimmers.
- Do not use where total lamp wattage is less than 60 W or greater than 600 W (see Dimmer Capacity Chart for details).
- Dimmer will not work with dioded lamps (Sylvania Designer 16™ or Philips PAR-16™).
- Operate between 0 °C (32 °F) and 40 °C (104 °F).
- Dimmer may feel warm to the touch during normal operation.
- Recommended wallbox depth is 2 1/2" (64 mm) minimum.
- Maximum wire length between the Dimmer and the Accessory Dimmer (MA-R) is 250 feet (76 m).
- 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 below). Using pliers, bend side sections up and down until they break off. Repeat for each side section to be removed. Removal of Dimmer side sections reduces maximum load capacity. Refer to the Dimmer Capacity Chart below.



Dimmer Capacity Chart

Model	Load		
	No Sides Removed	One Side Removed	Two Sides Removed
MIR-600M	600 W Max	500 W Max	400 W Max

The capacity of the MA-R is not reduced when sides are removed.

Technical Assistance

If you have questions concerning the installation or operation of this product, call the **Lutron Technical Support Center**. Please provide exact model number when calling.

U.S.A. and Canada (24 hrs/7days)
+1-800-523-9466
Other countries 8am – 8pm ET
+1-610-282-3800

Fax +1-610-282-3090

http://www.lutron.com

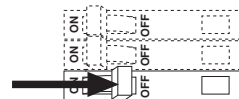
Limited Warranty

Lutron will, at its option, repair or replace any unit that is defective in materials or manufacture within one year after purchase. For warranty service, return unit to place of purchase or mail to Lutron at 7200 Suter Rd., Coopersburg, PA 18036-1299, postage pre-paid. THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES, AND THE IMPLIED WARRANTY OF MERCHANTABILITY IS LIMITED TO ONE YEAR FROM PURCHASE. THIS WARRANTY DOES NOT COVER THE COST OF INSTALLATION, REMOVAL OR REINSTALLATION, OR DAMAGE RESULTING FROM MISUSE, ABUSE, OR DAMAGE FROM IMPROPER WIRING OR INSTALLATION. THIS WARRANTY DOES NOT COVER INCIDENTAL OR CONSEQUENTIAL DAMAGES. LUTRON'S LIABILITY ON ANY CLAIM FOR DAMAGES ARISING OUT OF OR CONNECTION WITH THE MANUFACTURE, SALE, INSTALLATION, DELIVERY, OR USE OF THE UNIT SHALL NEVER EXCEED THE PURCHASE PRICE OF THE UNIT. This warranty gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitation on how long an implied warranty may last, so the above limitations may not apply to you. This product is covered under one or more of the following U.S. patents: 4,835,343; 5,017,837; 5,248,919; 5,399,940; 5,637,930; 5,798,581; 5,909,087; 6,169,377; 6,300,727; 6,380,696; D496,003 and corresponding foreign patents. U.S. and foreign patents pending. Lutron, Claro, Maestro, and Maestro IR are registered trademarks and FASS is a trademark of Lutron Electronics Co., Inc. NEC is a registered trademark of the National Fire Protection Association, Quincy, Massachusetts. © 2005 Lutron Electronics Co., Inc.

Installation

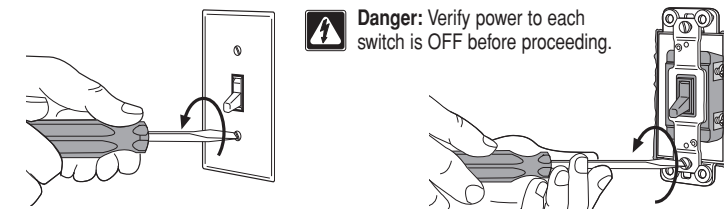
1 Turning Off Power.

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



2 Removing Wallplates and Switches.

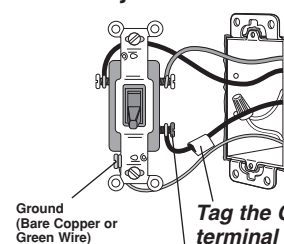
- Remove the wallplate and switch mounting screws.
- Carefully remove switches from wall (do not remove wires).



3 Tagging the Wire on the "COMMON" Terminal of the Switches.

- Before removing wires from the switches you must identify the COMMON terminal.

3-Way Switch

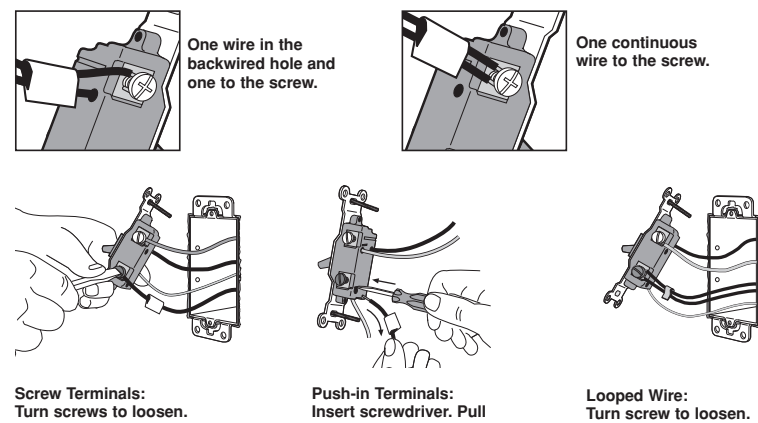


The "COMMON" terminal is the different colored screw (not green) or the terminal marked common. Tag this wire on each switch to identify it in Step 6.

Note: If more than 2 switches control the same light, additional Accessory Dimmers are required. Please call the **Lutron Technical Support Center** at +1-800-523-9466 for details.

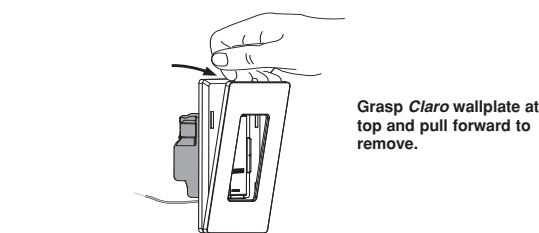
4 Disconnecting Switch Wires.

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.



5 Removing Wallplate.

- Dimmer and Accessory Dimmer have a pre-installed Lutron *Claro* wallplate. Remove the wallplate before proceeding with installation. This will expose mounting holes in adapter, and prevent wallplate damage while installing.

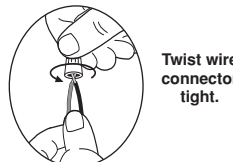


Important Wiring Information

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.

Wire Connector:

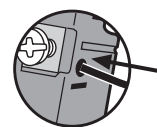
Use to join 14 AWG or 12 AWG ground wire to 18 AWG dimmer ground wire.



Trim or strip wallbox wires to the length indicated by the strip gauge on the back of the dimmer

Push-in Terminals: Insert wires fully.

NOTE: Push-in terminals are for use with 14 AWG *solid copper wire only*; DO NOT use stranded or twisted wire.



OR

Screw Terminals: Tighten securely.

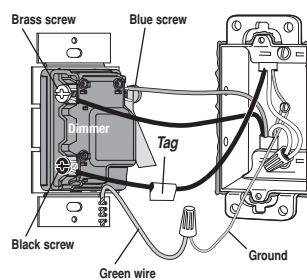
Screw terminals are for use with 12 or 14 AWG *solid copper wire only*; DO NOT use stranded or twisted wire.



6 Wiring.

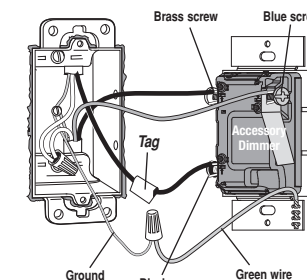
- For installations involving more than one control in a wallbox, refer to Multigang Installations before beginning.
- Use the screw or push-in terminals when making connections on the Dimmer or Accessory Dimmer.
- Make sure to wire both controls before mounting either to the wallbox.

3-Way Wiring



Wiring the Dimmer (MIR-600M):

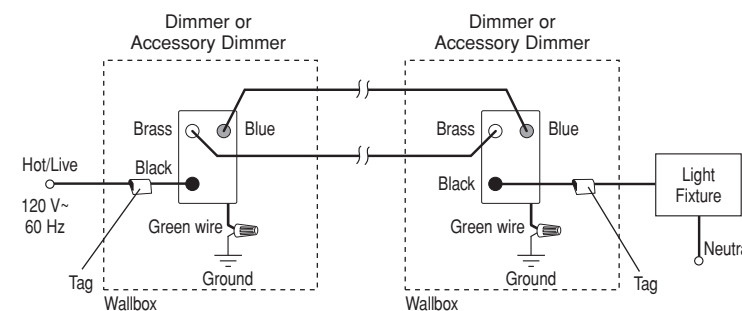
- Using the wire connector provided, connect the **green** ground wire on the Dimmer to the **bare copper** or **green** ground wire in the wallbox. Do not connect to any other wire. (See Important Note 3.)
- Connect the tagged wire removed from the switch in Step 3 to the **black** screw terminal on the Dimmer. If your switch had two wires attached to the same terminal, connect both wires to the Dimmer terminal.
- Connect one of the remaining wires removed from the switch to the **brass** screw terminal on the Dimmer.
- Connect the remaining wire removed from the switch (note wire color) to the **blue** screw terminal on the Dimmer.



Wiring the Accessory Dimmer (MA-R):

- Using the wire connector provided, connect the **green** ground wire on the Accessory Dimmer to the **bare copper** or **green** ground wire in the wallbox. Do not connect to any other wire. (See Important Note 3.)
- Connect the tagged wire removed from the switch in Step 3 to the **black** screw terminal on the Accessory Dimmer. If your switch had two wires attached to the same terminal, connect both wires to the Accessory Dimmer terminal.
- Connect the same color wire connected to the **blue** screw terminal on the Dimmer (wire color noted above) to the **blue** screw terminal on the Accessory Dimmer.
- Connect the remaining wire removed from the switch to the **brass** screw terminal on the Accessory Dimmer.

Reference Wiring Diagram



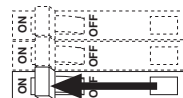
7 Mounting Dimmer and Accessory Dimmer to Wallbox.

- Form wires carefully into the wallbox, mount and align Dimmer (and Accessory Dimmer).
- Replace *Claro* wallplates.



8 Turning On Power.

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



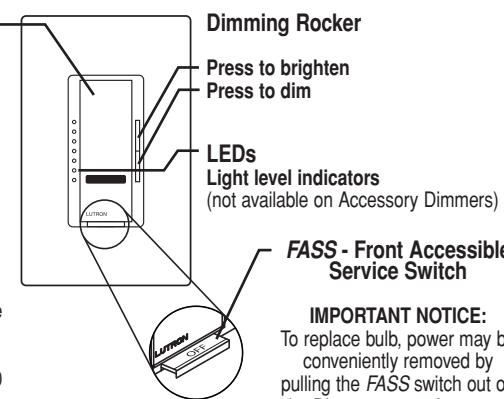
Troubleshooting

Symptom	Possible Cause
Light does not turn ON or no LEDs turn ON.	<ul style="list-style-type: none"> Front Accessible Service Switch (FASS™) on Dimmer or Accessory Dimmer is pulled out to the OFF position. Light bulb(s) burned out. Breaker is OFF or tripped. Wiring error, call Lutron Technical Support Center at +1-800-523-9466.
Light turns ON and Dimmer works, but Accessory Dimmer does not work.	<ul style="list-style-type: none"> Wire connected to the blue screw terminal on Dimmer is not the same wire connected to the blue screw terminal on Accessory Dimmer.
Light does not remain ON, LEDs glow dimly or blink.	<ul style="list-style-type: none"> Blue screw terminal miswired to neutral wire or touching ground.
Tap switch on Accessory Dimmer does not work when light is at brightest level.	<ul style="list-style-type: none"> Load is less than 60 W.
Light does not respond to infrared wireless transmitter.	<ul style="list-style-type: none"> Transmitter batteries installed incorrectly. Transmitter batteries are dead. Transmitter not aimed directly at dimmer. Transmitter outside operating range. Dimmer has already received and responded to command.

Dimmer Operation

Tap Button Options

- Tap once when unit is off** - Lights brighten smoothly to preset intensity.
- Tap once when unit is on** - Lights dim smoothly to off.
- Tap twice quickly** - Lights brighten rapidly to full intensity.
- Press and hold when unit is on** - Each time dimmer is turned off delayed fade to OFF can be activated. As the tap button is held, the LEDs will begin to flash. The first flashing LED represents a 10 second fade to OFF. Each additional flashing LED represents an additional 10 seconds of delay before lights fade to OFF (up to 60 seconds of delay).



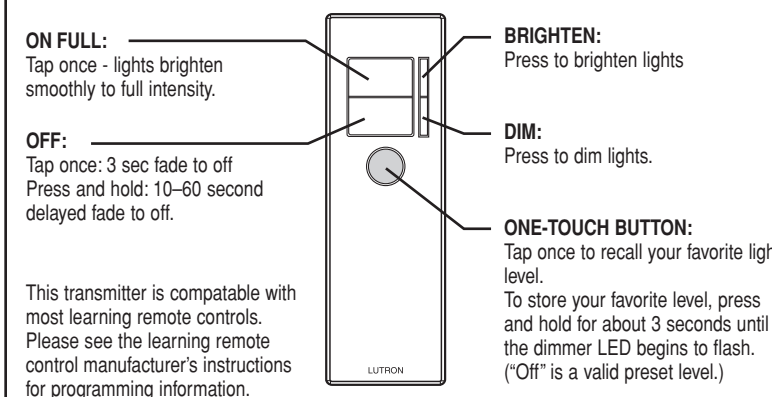
IMPORTANT NOTICE: To replace bulb, power may be conveniently removed by pulling the FASS switch out on the Dimmer or any Accessory Dimmer.

For any procedure other than routine bulb replacement, power must be disconnected at the main electrical panel.

To learn about the **Advanced Features** of *Maestro* Dimmers including locked preset and adjustable fade times, please visit: <http://www.lutron.com/maestro/advfeatures> or call the **Lutron Technical Support Center** at +1-800-523-9466

Infrared Wireless Transmitter Operation

Point the transmitter at the *Maestro IR* Dimmer(s), then use the buttons as outlined below.



This transmitter is compatible with most learning remote controls. Please see the learning remote control manufacturer's instructions for programming information.

Multiple Gang Application

If multiple *Maestro IR* Dimmers are installed in the same location they will perform as below:

- Pressing the ON FULL button will cause each dimmer to fade to full brightness, regardless of whether some are on and some are off.
- Pressing the OFF button will cause all dimmers to fade off.
- Pressing the BRIGHTEN or DIM buttons will change the light level on all units at the same rate until the button is released or the lights are at min or max level. If any units are off when the BRIGHTEN button is pressed they will turn on at the min brightness level.
- To save your favorite light level, adjust all the dimmers to the desired level then press and hold the ONE-TOUCH button for about 3 seconds until the dimmer LED begins to flash. Once your favorite light level is set, pressing the ONE-TOUCH button will cause each dimmer to return to your favorite light level.

- Easy-to-follow Instructions
- Directives Faciles à Suivre



030-863-03 a

- Easy-to-follow Instructions
- Directives Faciles à Suivre

Battery Replacement

The Infrared Wireless Transmitter uses 2 AAA batteries that are pre-installed. For best results use alkaline batteries. Do not use NiCad or NiMH batteries.

To replace batteries:

- Remove the battery cover (see diagram).
- Replace with 2 size AAA batteries as shown. **Note:** Incorrect installation will cause batteries to drain.
- Replace the battery cover.

