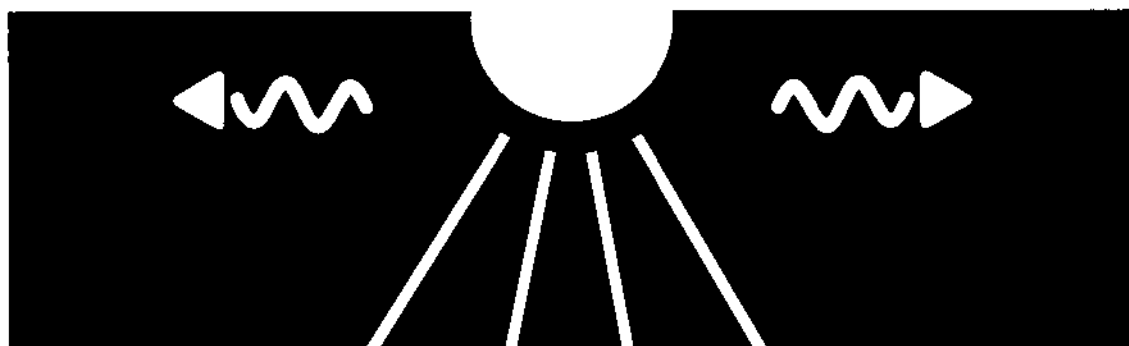

RadioRA®



Home Dimming System

Car Visor Upgrade

**Setup and Installation Guide for the Original
RadioRA® Dollhouse (RAD-H-1)**

**A Comprehensive Step-by-Step Guide for Installing and Programming
the Lutron RadioRA® Car Visor Set to the RadioRA® Dollhouse**

Notes on this Manual

The procedures to setup an original RadioRA[®] Dollhouse (RAD-H-1) with the enclosed Car Visor Set are contained in this manual. For more information on programming the remainder of your RadioRA[®] System, or for advanced features, refer to the original RadioRA[®] Setup Guide (P/N 044-001).

Important Installation Notes

1. Do not paint the Multi-Function Entry Master Control or Visor Control Transmitter.
2. Operate in ambient temperatures between 0°C (32°F) and 40°C (104°F).
3. Use only the AC adapter provided by Lutron with your Multi-Function Entry Master Control. Using an AC adapter not rated at the following specifications could damage the control and possibly overheat the AC adapter.
 - Input: AC 120V 60Hz
 - Output: AC 9V/500mA Class 2
4. The range and performance of the RadioRA[®] System is highly dependent on a variety of complex factors such as:
 - Distance between system components
 - Geometry of the home
 - Construction of walls separating system components
 - Electrical equipment located near system components

Consumer Information

Notice

This Visor Control System, consisting of a Multi-Function Entry Master Control and a Visor Control Transmitter, must only be used to operate **visible** means of barrier entry such as garage doors and motorized gates. Do not use this Multi-Function Entry Master Control with any garage door opener that lacks the safety stop and reverse feature as required by federal safety standards. (This includes any garage door opener model manufactured before April 1, 1982.) A garage door opener which cannot detect an object, signaling the door to stop and reverse, does not meet current federal safety standards. Using a garage door opener without these features increases risk of serious injury or death.

Warning

This RadioRA[®] system must not be used to control equipment, other than lighting, which is **not visible** from every master or local control location. It also must not be used to control equipment which could create hazardous situations such as entrapment if operated accidentally. Examples of equipment which must not be controlled by this RadioRA[®] system when **not visible** from a Multi-Function Entry Master Control or local control location include (but are not limited to) motorized gates, garage doors, industrial doors, and microwave ovens, heating pads, etc. It is the installer's responsibility to ensure that the equipment, other than lighting, being controlled is **visible** from every master or local control location and that only suitable equipment is connected to this RadioRA[®] system.

FCC Information

NOTE: 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 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Changes or modifications not expressly approved by Lutron Electronics Co. could void the user's authority to operate this equipment.

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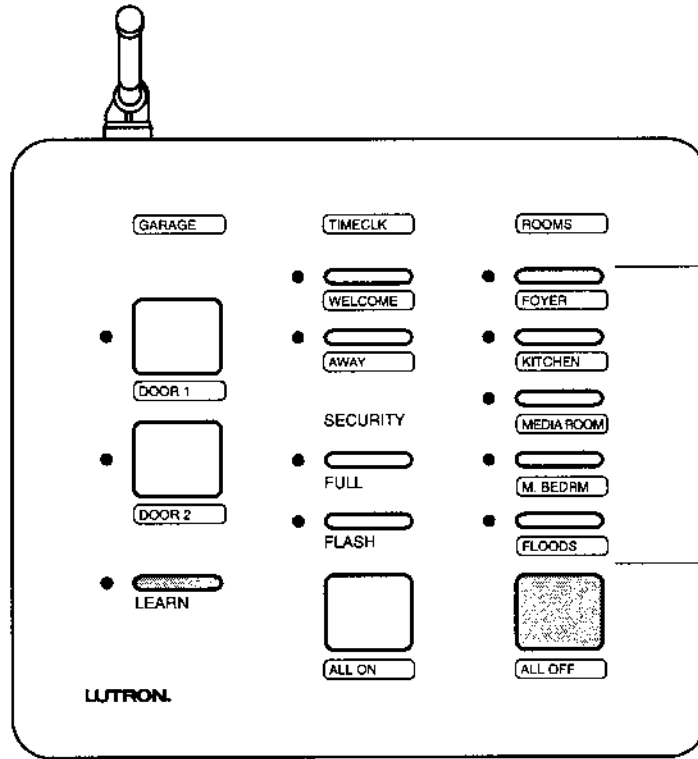
Visor Control Programming

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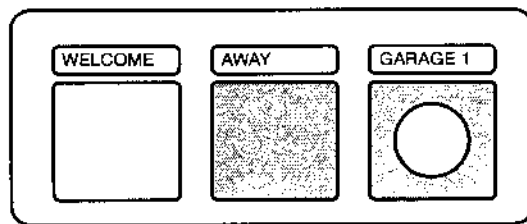
Adding the Car Visor Set

Labeling Controls

Using the enclosed labels, label the Entry Master Control and Visor Control. **Note:** Each control requires different label sheets because of their different sizes.



RAMC-MFE-WH



RA-VCTX-WH

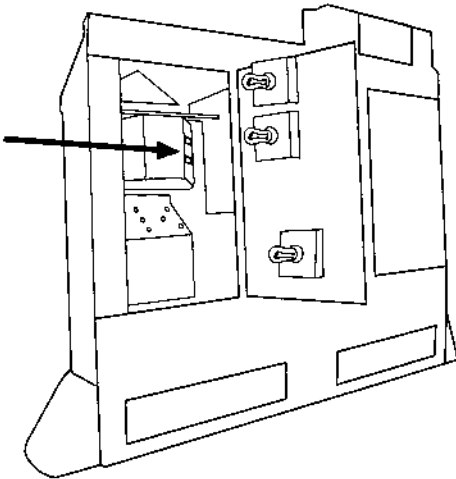
Adding the Car Visor Set

Installing the Entry Master Control in RadioRA® Dollhouse

Fasten the Entry Master Control into the RadioRA® Dollhouse the same way the RF Signal Repeater is fastened.

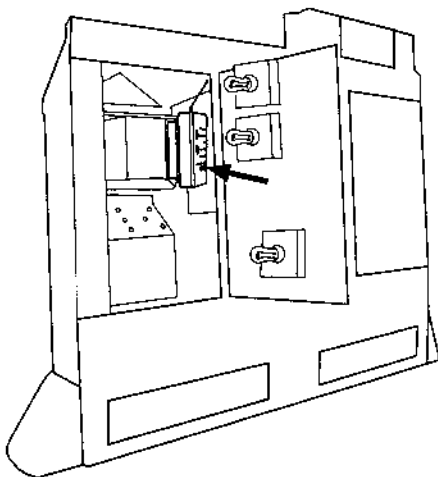
Step 1 Apply the double-sided foam tape

Using the RF Signal Repeater installation as an example, (behind right rear door) apply the double-sided foam tape to the side of the upper light box behind the left rear door of the Dollhouse.



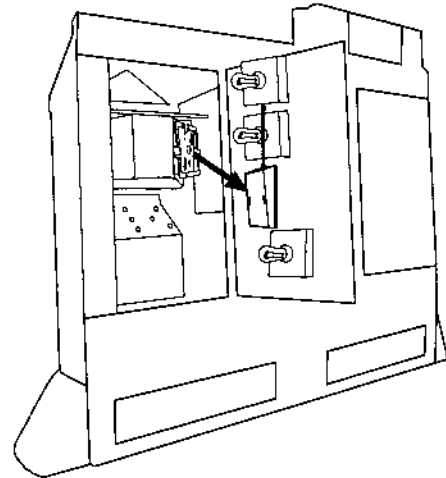
Step 2 Attach the Entry Master Control

With the Entry Master Control attached to its wall-mounting bracket, fasten it to the tape, making sure that there is room for the antenna. Apply firm pressure to ensure secure adhesion before proceeding to the next step.



Step 3 Detach the Entry Master Control

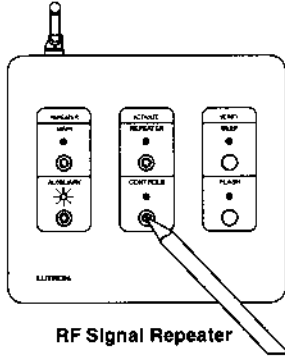
Unclip the Entry Master Control from its wall-mounting bracket to finish the programming in this setup guide.



Adding the Car Visor Set

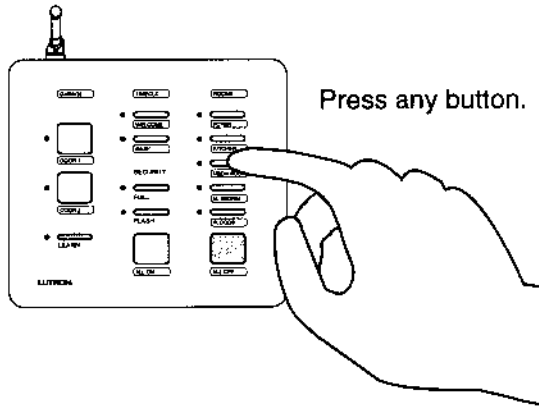
Activating the Entry Master Control

Step 1 Begin Control activation



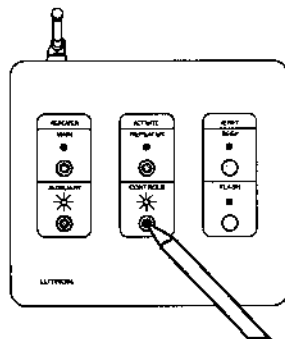
Press and hold button for 3 seconds.

Step 2 Activate Entry Master Control



Press any button.

Step 3 Complete Control activation



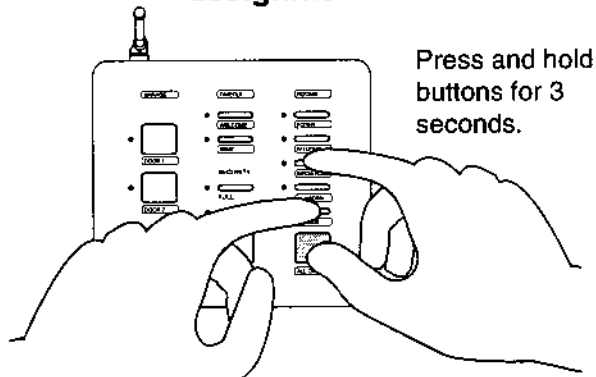
Press and hold button for 3 seconds.

? For more detailed information, refer to the RadioRA® Setup Guide (P/N 044-001)

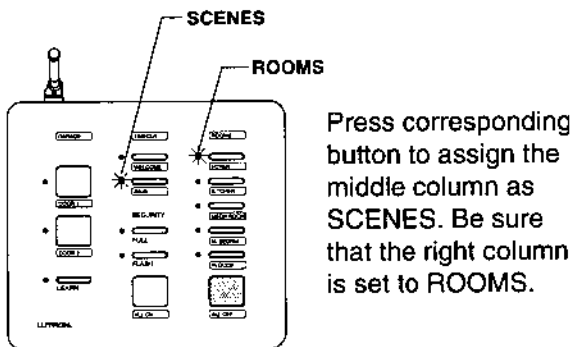
Entry Master Control Programming

Assigning the Column of Buttons

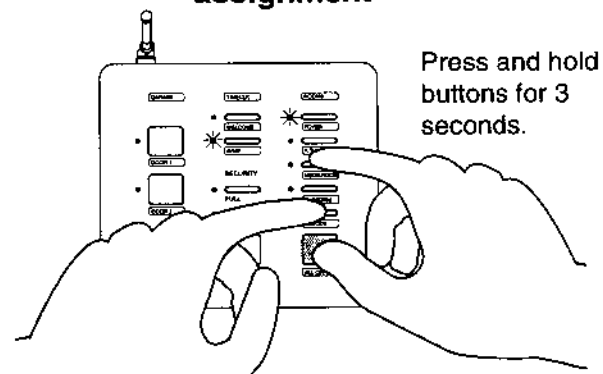
Step 1 Begin button column assignment



Step 2 Change button column assignment



Step 3 Complete ROOM/SCENE assignment

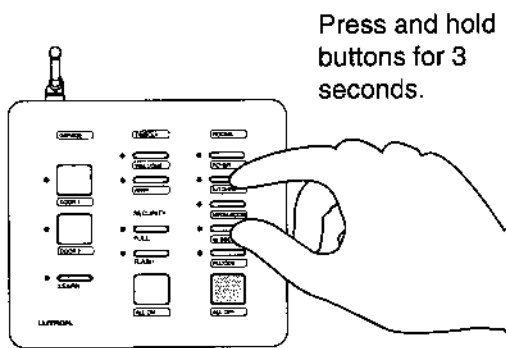


? For more detailed information, refer to the RadioRA® Setup Guide (P/N 044-001)

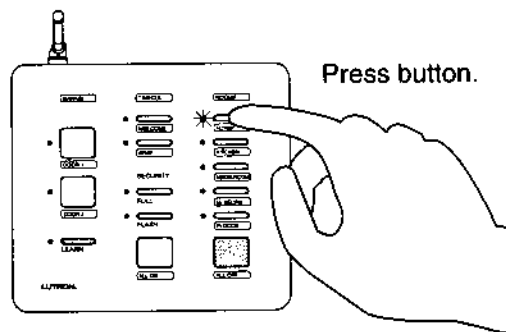
Entry Master Control Programming

Assigning Dimmers or Switches to Buttons

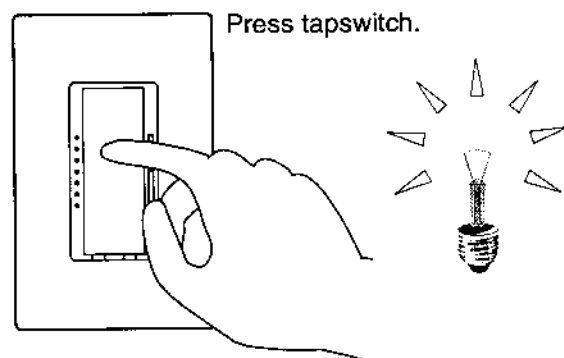
Step 1 Begin assigning



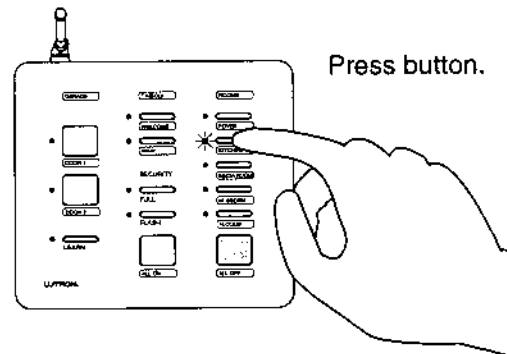
Step 2 Select a button



Step 3 Assign the corresponding Dimmer or Switch to the button

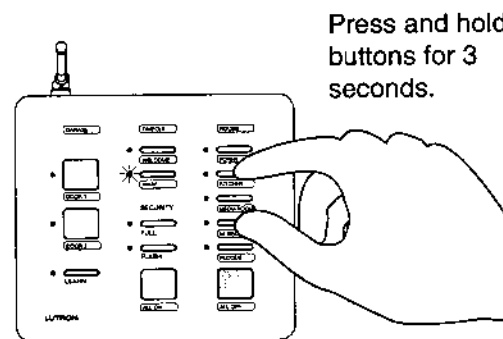


Step 4 Select next button



- Repeat Steps 2 and 3 for the remaining Master Control buttons to which you need to assign Dimmers and Switches.

Step 5 Complete assigning

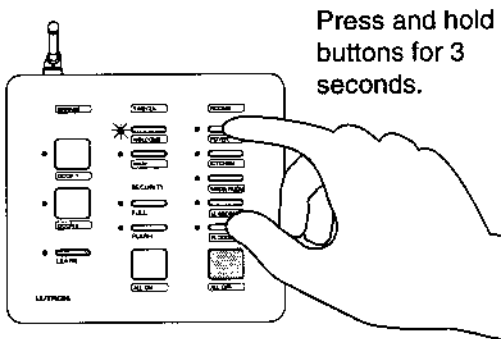


? For more detailed information, refer to the RadioRA® Setup Guide (P/N 044-001)

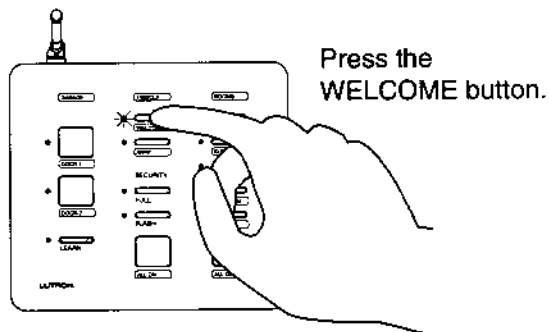
Entry Master Control Programming

Setting Light Levels for Buttons

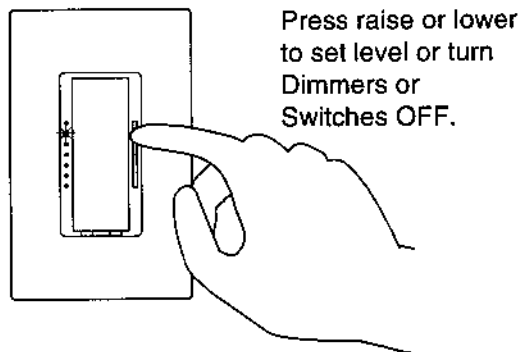
Step 1 Begin setting light levels



Step 2 Select button to adjust



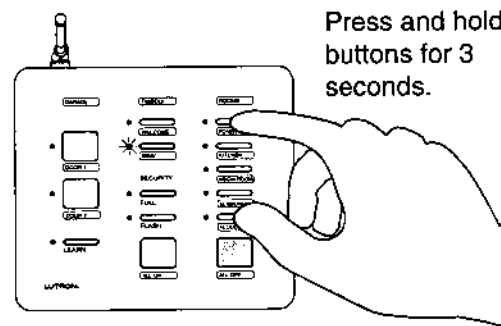
Step 3 Adjust light levels for Dimmers or Switches as per chart



Scene Button	Dimmer or Switch				
	Foyer	Kitchen	Floods	M. Bedrm	Media
Welcome	6th LED	6th LED	ON	OFF	4th LED
Away	4th LED	OFF	ON	OFF	OFF

- Press the AWAY button and repeat Step 3 for the AWAY button.

Step 4 Complete setting light levels



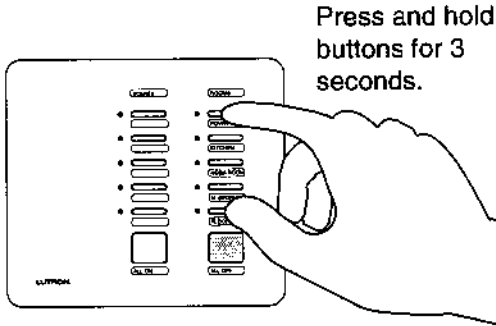
? For more detailed information, refer to the RadioRA® Setup Guide (P/N 044-001)

Entry Master Control Programming

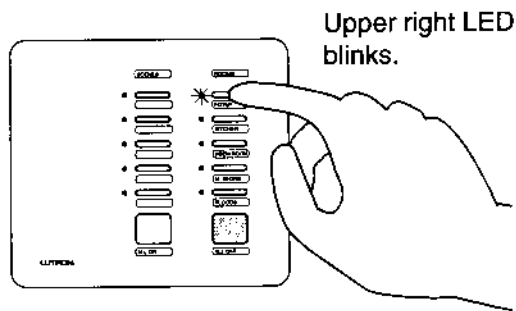
Copying the Entry Master Control Buttons to the Master Control

Note: Skip this Step if your Master Controls are correctly programmed.

Step 1 Begin copying button programming

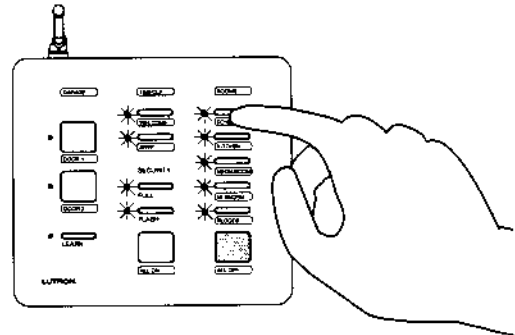


Step 2 Select the first button to program

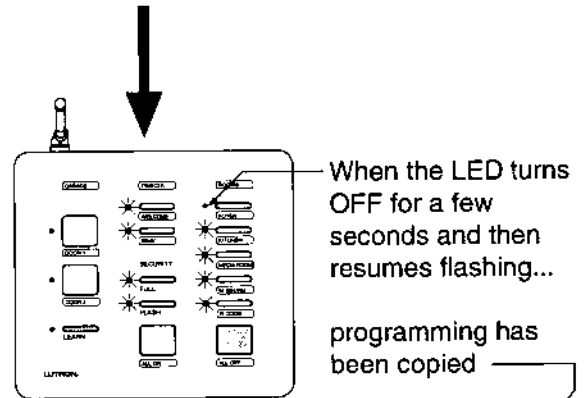


Step 3 Select the button you want to copy

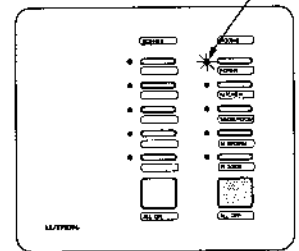
On a previously programmed Entry Master Control, press the corresponding button that you want to copy until its LED turns OFF (approximately 3 seconds).



Previously Programmed Entry Master Control



Previously Programmed Entry Master Control



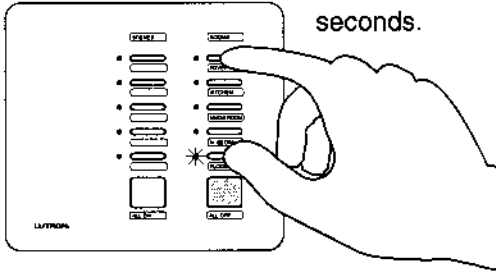
Newly Programmed Master Control

- Repeat Steps 2 and 3 for the remaining Master Control buttons to which you need to copy programming.
- Continued on next page.

Entry Master Control Programming

Step 4 Complete copying button programming

Press and hold buttons for 3 seconds.



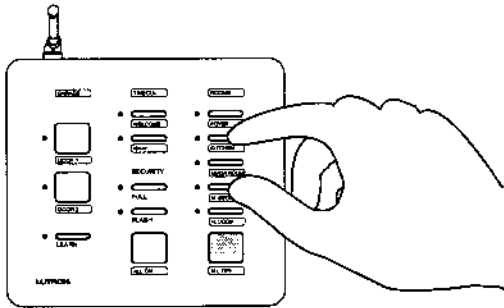
Entry Master Control Programming

Programming the FULL and FLASH Buttons

Section 2 - Start-Up

Step 1 Begin FULL and FLASH button programming

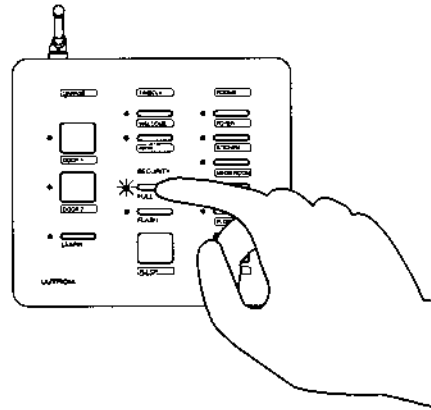
Simultaneously press and hold the 2nd and 4th buttons in the right most column until the upper right LED begins to flash (approximately 3 seconds).



Upper right LED flashes.

Step 2 Select the FULL Button

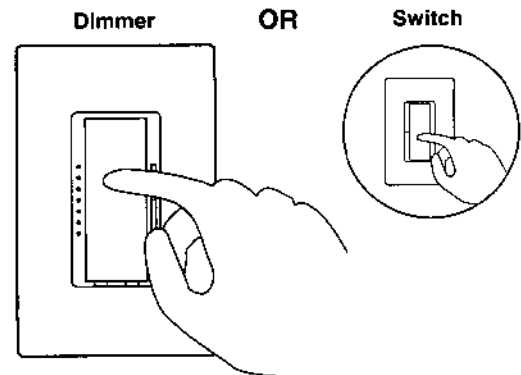
Press the FULL button.




FULL LED will begin to flash.

Step 3 Assign Dimmers and Switches to the FULL button

Turn ON all Dimmers and Switches **EXCEPT** the Switch that controls the outdoor floodlights (FLOODS) and the Dimmer that controls the foyer (FOYER).



 If you assign the wrong light to the FULL button, turn the light OFF to unassign it.

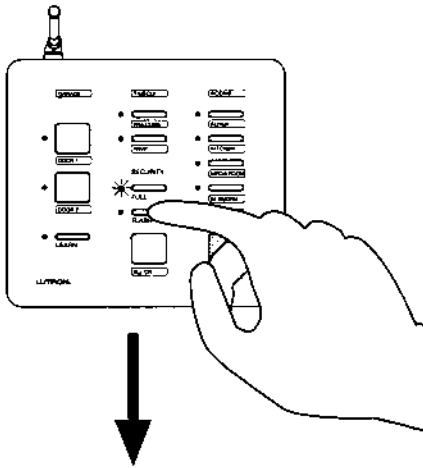


• Continued on next page.

Entry Master Control Programming

Step 4 Select FLASH button

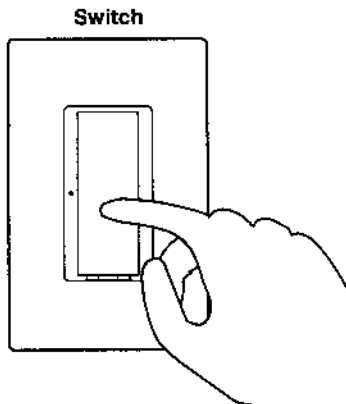
Press the FLASH button.



FLASH LED will begin to flash.

Step 5 Assign outdoor floodlight Switch to the FLASH button

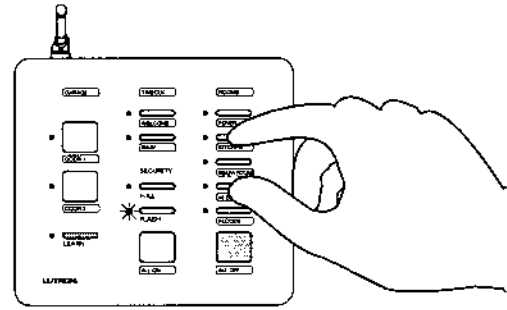
Turn ON the Switch that controls the outdoor floodlights (FLOODS) and the Dimmer that controls the foyer (FOYER).



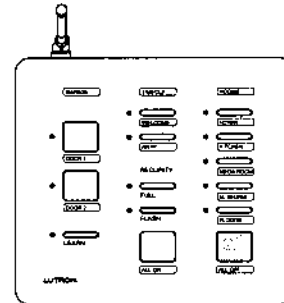
If you assign the wrong light to the FLASH button, turn the light OFF to unassign it.



Step 6 Complete FULL and FLASH button programming



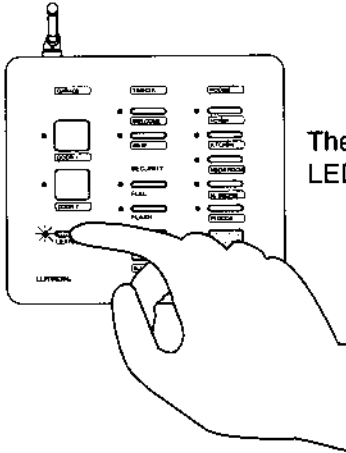
Simultaneously press and hold the 2nd and 4th buttons in the right most column until all the LEDs begin to flutter (approximately 3 seconds).



Assigning Visor Control Buttons to Entry Master Control Functions

Step 1 Enter LEARN Mode

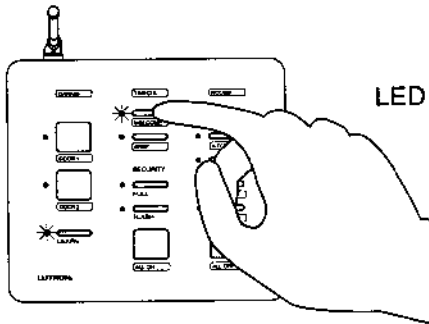
Press and hold the LEARN button on the Entry Master Control until the green LEARN LED turns ON (approximately 3 seconds).



The green LEARN LED turns ON.

Step 2 Select the WELCOME button

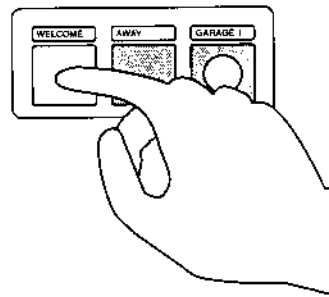
Press and release the WELCOME button on the Entry Master Control; its LED will turn ON.



LED turns ON.

Step 3 Press the WELCOME button on the Visor Control

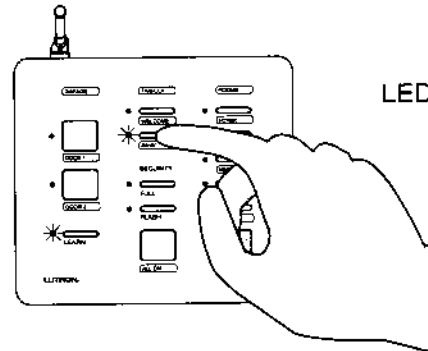
Press and hold the WELCOME button on the Visor Control until the orange LED next to the WELCOME button on the Entry Master Control flashes (approximately 3 seconds). The LEARN LED will also flash while the Visor Control button is pressed.



- To verify that the Entry Master Control button has learned the Visor Control button, press the Visor Control button again. The orange LED on the Entry Master Control will flash.

Step 4 Select the AWAY button

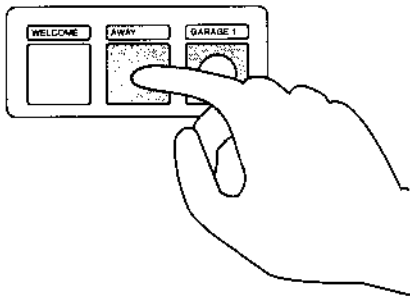
Press and release the AWAY button on the Entry Master Control; its LED will turn ON.



LED turns ON.

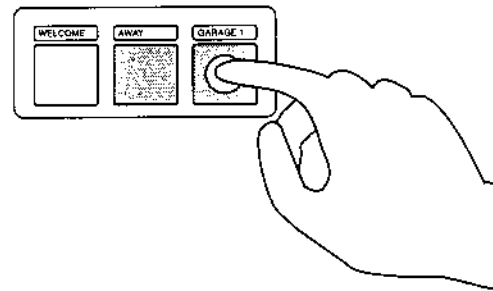
Step 5 Press the AWAY button on the Visor Control

Press and hold the AWAY button on the Visor Control until the orange LED next to the AWAY button on the Entry Master Control flashes (approximately 3 seconds). The LEARN LED will also flash while the Visor Control button is pressed.



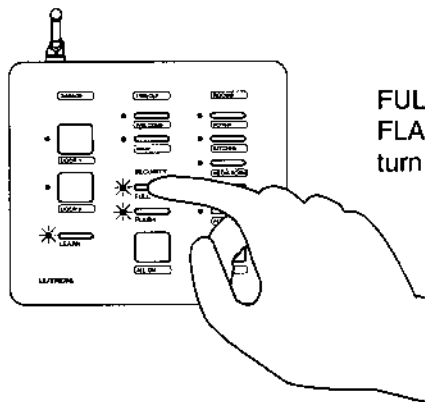
Step 7 Press the GARAGE 1 button on the Visor Control

Press and hold the GARAGE 1 button on the Visor Control until the orange LED next to the FULL and FLASH buttons on the Entry Master Control flashes (approximately 3 seconds). The LEARN LED will also flash while the Visor Control button is pressed.



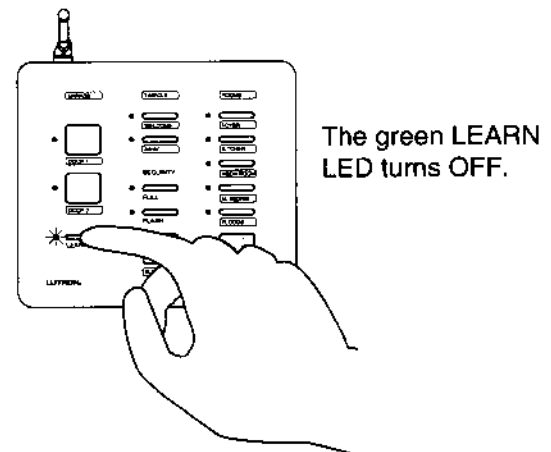
Step 6 Select the FULL button

Press and release the FULL button on the Entry Master Control; the FULL and FLASH LEDs will turn ON.



Step 8 Exit LEARN Mode

Press the LEARN button.



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 Electronics Co., Inc. 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 IN CONNECTION WITH THE MANUFACTURE, SALE, INSTALLATION, DELIVERY, OR USE OF THE UNIT SHALL NEVER EXCEED THE PURCHASE PRICE OF THE UNIT.

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This product may be covered under one or more of the following U.S. patents: 4,835,343; 4,954,768; 5,248,919; 5,399,940; 5,637,930; 5,736,965; 5,798,581; 5,838,226; 5,848,054; 5,905,442; 5,982,103; DES 353,798; DES 378,814; DES 389,461; DES 389,805; DES 395,037; DES 404,013; DES 422,969; DES 428,855; DES 436,579; DES 439,220 and corresponding foreign patents. U.S. and foreign patents pending.

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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.

(800) 523-9466 (U.S.A., Canada, and the Caribbean)

Other countries call (610) 282-3800

Fax (610) 282-3090

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