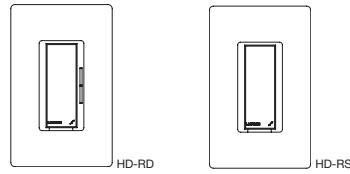


Installation Instructions
 Please Read Before Installing



Important Notes

Codes: Install in accordance with all local and national electrical codes.

Danger: These controls must not be used to control equipment which is not visible from every control location. They must also not be used to control equipment which could create hazardous situations such as entrapment if operated accidentally. Examples of such equipment which must not be operated by these controls include (but are not limited to) motorized gates, garage doors, industrial doors, microwave ovens, heating pads, etc. It is the installer's responsibility to ensure that the equipment being controlled is visible from every control location and that only suitable equipment is connected to these controls.

Overheat Damage: To reduce the risk of overheating and possibly damaging other equipment, do not install dimmer to control receptacles or motor-operated appliances.

Environment: Ambient operating temperature: 0-40 °C, 32-104 °F, 0-90% humidity, non-condensing. Indoor use only. It is normal for dimmers and switches to feel warm to the touch during operation.

Spacing: If mounting one control above another, leave at least 4-1/2 in. (114 mm) vertical space between them.

Load Specifications: Consult the Installation Instructions for the main Dimmer/Switch; -5NE, -6D, -6ND, -10D, -10ND, and -8ANS.

Wallplates: Lutron Claro® and Satin Colors™ wallplates are recommended for best color match and aesthetic appearance. Do not paint controls or wallplates.

Cleaning: To clean, wipe with a clean damp cloth. **DO NOT** use any chemical cleaning solutions.

Wallboxes: Lutron recommends using 3-1/2 in. (89 mm) deep wallboxes for easier installation. Several controls may be installed in one multigang wallbox - see Multigang Installations.

Remotes: Use Remote Dimmers (HD-RD) only with Lutron *HomeWorks Maestro* Dimmers (HWD/HRD-5NE, -6D, -6ND, -10D and -10ND). Use Remote Switches (HD-RS) only with Lutron *HomeWorks Maestro* Switches (HWD/HRD-8ANS). Up to 9 HD-RD or HD-RS controls may be used with a *HomeWorks RF/Wired Maestro* Dimmer or Switch. Mechanical 3- or 4-way switches will not work.

Multigang Installations

In multigang installations, several controls are grouped horizontally in one multigang wallbox.

- No derating is required for Remotes.
- When ganging Remotes with Dimmers or Switches in the same wallbox, derating is required for the Dimmers or Switches. See the Installation Instructions that came with the Dimmer or Switch for derating requirements.

Note: Remotes do not have fins that need to be removed for multigang installations.

Installation

Danger - Locate and remove fuse or lock circuit breaker in the OFF position before proceeding. Wiring with power ON may result in personal injury or property damage.

Short Circuit Check: Check the installation for short circuits before installing control(s). With power OFF, install standard mechanical switch(es) between Hot and load. Restore power. If lights do not work or a breaker trips, check wiring. Correct wiring and check again. Install control(s) only when short is no longer present. Warranty is void if control is turned ON with a shorted circuit.

1. Turn power OFF at fusebox or circuit breaker.
2. Prepare wires. When making wire connections, follow the recommended strip lengths and combinations for the supplied wire connector. Note: Wire connectors provided are suitable for copper wire only.

Wire Connector:

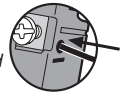
- Strip insulation 3/8 in. (9.5 mm) for 14 AWG (1.5 mm²) wire
- Strip insulation 1/2 in. (12.7 mm) for 16 or 18 AWG (1.0 mm² or 0.75 mm²) wire
- Use to join one 14 AWG (1.5 mm²) or 12 AWG (2.5 mm²) ground wire with one 18 AWG (0.75 mm²) control ground wire.



Twist wire connector tight.

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

Push-In Terminals: Insert wires fully. 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 *solid copper wire only*. DO NOT use stranded or twisted wire.



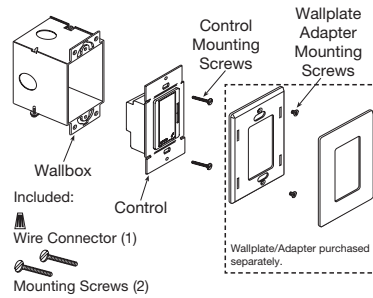
3. Wire controls as follows:
 - Multi-location installation:** See Wiring Diagrams 1 and 2. When using power boosters or interfaces, see Wiring Diagrams in the HomeWorks Technical Reference Guide (P/N 366-963). Up to nine HD-RD or HD-RS remotes may be connected to the -5NE, -6D, -6ND, -10D, -10ND, or -8ANS controls.

4. Push all wires back into the wallbox and loosely fasten the control to the wallbox using the control mounting screws provided. Do not pinch the wires.

5. Attach Lutron Claro® or Satin Colors™ wallplate adapter and wallplate.
 - a. Loosely install control mounting screws.
 - b. Tighten wallplate adapter mounting screws snug.
 - c. Tighten control mounting screws until wallplate adapter is flush to wall (do not over-tighten).
 - d. Snap wallplate onto wallplate adapter, and verify that control is not submerged.
 - e. If control is submerged, loosen mounting screws appropriately.

6. Restore power. Check for correct local operation (see Local Operation).

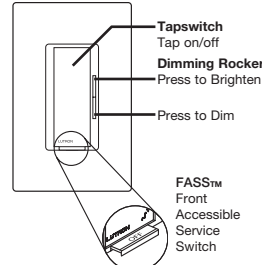
Mounting Diagram



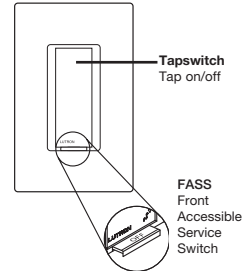
Local Operation

Pressing the Tapswitch on any Dimmer, Switch, or Remote will alternately turn the lights ON and OFF. For HD-RD, the ON level will be the level previously set using the Dimming Rocker. Press and hold the top or bottom of the Dimming Rocker to raise or lower the light level. Double-tapping the Tapswitch on the HD-RD will turn the lights ON to full. Pressing and holding the Tapswitch for 1/2 second (while ON) activates a 10-second long fade-to-off.

Remote Dimmer



Remote Switch



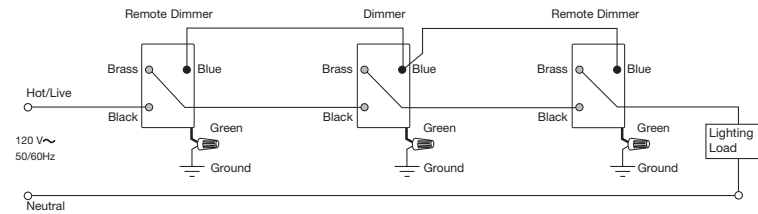
Lamp Replacement

For routine lamp replacement, remove power from the fixture(s) by pulling the FASS™ switch out on both the Dimmer/Switch and all Remote Dimmers/Switches.

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

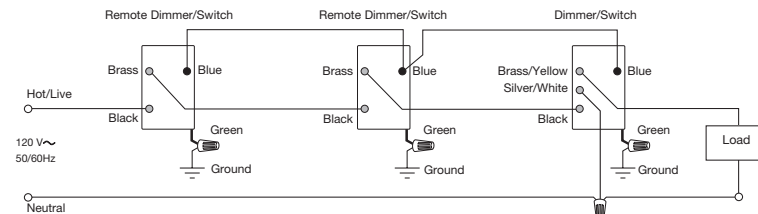
Wiring Diagram 1

Multi-Location Installation'
 -6D, -10D with HD-RD



Wiring Diagram 2

Multi-Location Installation with Neutral^{1,2}
 -5NE, -6ND, -10ND with HD-RD, -8ANS with HD-RS



- 1 Up to 9 *HomeWorks Maestro* Remote Dimmers/Switches may be connected to the *HomeWorks Maestro* Dimmer/Switch. Total Blue screw terminal wire length may be up to 250 ft. (76 m).

- 2 Neutral wire Dimmers/Switches must be connected on the Lighting Load side of a multi-location installation.

LIMITED WARRANTY

Subject to the exclusions described below, for a period of eight years after the date of shipment by Lutron, Lutron warrants each new HomeWorks system (the "System") to be free from manufacturing defects. Lutron will, at its option, repair the defective part or issue a credit, based on the prorating schedule below, against the cost of comparable replacement parts purchased from Lutron so long as Customer promptly notifies Lutron of the defect within the eight year warranty period and, if requested, returns the defective component to Lutron:

Number of Years from Date of Shipment	Percentage of Cost of Replacement Parts Credited by Lutron
Up to 2	100%
More than 2 but not more than 5	50%
More than 5 but not more than 8	25%
More than 8	0%

EXCLUSIONS TO LIMITED WARRANTY

This Warranty does not cover, and Lutron and its suppliers are not responsible for:

1. Damage, malfunction or inoperability diagnosed by Lutron or a Lutron approved third party as caused by normal wear and tear, abuse, misuse, incorrect installation, neglect, accident, or interference from radio frequency or infrared sources or obstacles, such as, but not limited to (a) use of incorrect line voltages, fuses or circuit breakers; (b) failure to install, maintain and operate the System pursuant to the operating instructions provided by Lutron and the applicable provisions of the National Electrical Code and of the Safety Standards of Underwriter's Laboratories; (c) use of incompatible devices or accessories; (d) failure to maintain equipment under specified ambient temperature; (e) unauthorized repairs or adjustments; (f) vandalism; and (g) an act of God, such as fire, lightning, flooding, tornado, earthquake, hurricane or other problems beyond Lutron's control.
2. On-site labor costs to diagnose issues with, and remove, repair, replace, adjust, reinstall and/or reprogram the System, at Lutron's option, all of which will be paid by Customer at the then current service price.
3. Where applicable, components and equipment external to the System, such as, lamps; non-Lutron ballasts, sockets, and fixtures; fixture wiring between ballasts and lamps; building wiring between dimmers or dimmer panels and lamps and between controls and controls, dimmers or dimmer panels; and other manufacturers' equipment not provided by Lutron, such as time clocks; audio-visual equipment; motion detectors; photosensors; driveway sensors; pressure pads; shades; and spas.
4. The cost of repairing or replacing other property that is damaged when the System does not work properly, even if the damage was caused by the System.

THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES. ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM THE DATE OF SHIPMENT.

NO LUTRON AGENT, EMPLOYEE OR REPRESENTATIVE HAS ANY AUTHORITY TO BIND LUTRON TO ANY AFFIRMATION, REPRESENTATION OR WARRANTY CONCERNING THE SYSTEM. UNLESS AN AFFIRMATION, REPRESENTATION OR WARRANTY MADE BY AN AGENT, EMPLOYEE OR REPRESENTATIVE IS SPECIFICALLY INCLUDED HEREIN, OR IN STANDARD PRINTED MATERIALS PROVIDED BY LUTRON, IT DOES NOT FORM A PART OF THE BASIS OF ANY BARGAIN BETWEEN LUTRON AND CUSTOMER AND WILL NOT IN ANY WAY BE ENFORCEABLE BY CUSTOMER.

IN NO EVENT WILL LUTRON OR ANY OTHER PARTY BE LIABLE FOR EXEMPLARY, CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO DAMAGES FOR PERSONAL INJURY, FAILURE TO MEET ANY DUTY, INCLUDING OF GOOD FAITH OR REASONABLE CARE, NEGLIGENCE, OR ANY OTHER LOSS WHATSOEVER), NOR FOR ANY REPAIR WORK UNDERTAKEN WITHOUT LUTRON'S PRIOR WRITTEN CONSENT ARISING OUT OF OR IN ANY WAY RELATED TO THE INSTALLATION, DEINSTALLATION, USE OF OR INABILITY TO USE THE SYSTEM OR OTHERWISE UNDER OR IN CONNECTION WITH ANY PROVISION OF THIS WARRANTY, EVEN IN THE EVENT OF THE FAULT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, BREACH OF CONTRACT OR BREACH OF WARRANTY OF LUTRON OR ANY SUPPLIER, AND EVEN IF LUTRON OR ANY OTHER PARTY WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

NOTWITHSTANDING ANY DAMAGES THAT CUSTOMER MIGHT INCUR FOR ANY REASON WHATSOEVER (INCLUDING, WITHOUT LIMITATION, ALL DIRECT DAMAGES AND ALL DAMAGES LISTED ABOVE), THE ENTIRE LIABILITY OF LUTRON AND OF ALL OTHER PARTIES UNDER THIS WARRANTY ON ANY CLAIM FOR DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE MANUFACTURE, SALE, INSTALLATION, DELIVERY, USE, REPAIR, OR REPLACEMENT OF THE SYSTEM, AND CUSTOMER'S SOLE REMEDY FOR THE FOREGOING, WILL BE LIMITED TO THE AMOUNT PAID BY CUSTOMER FOR THE SYSTEM. THE FOREGOING LIMITATIONS, EXCLUSIONS AND DISCLAIMERS WILL APPLY TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW, EVEN IF ANY REMEDY FAILS ITS ESSENTIAL PURPOSE.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

WARRANTY CLAIMS, TECHNICAL ASSISTANCE AND WARRANTY INFORMATION

Contact the Lutron Technical Support Center at the numbers provided below or your local Lutron sales representative with questions concerning the installation or operation of the System or this Warranty, or to make a warranty claim. Please provide the exact model number when calling.

USA and Canada (24 hrs/7days)
 +1.800.523.9466
 Other countries (8 a.m. - 8 p.m. ET)
 +1.610.282.3800
 Fax +1.610.282.3090
<http://www.lutron.com>