

decora smart™

LEVITON®

Leviton Decora Smart™ Dimmer with HomeKit™ Technology

Cat. No. DH1KD

Universal Incandescent, LED, CFL, Magnetic Low Voltage, or Fluorescent Dimmer

Rated: 120 VAC, 60 Hz
1000W Incandescent
1000VA Mark 10® Fluorescent
1000VA Magnetic Low Voltage
450W LED/CFL

INSTALLATION INSTRUCTIONS

Use Siri® or the Leviton Decora Smart Home app on your iPhone or iPad for home control



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DI-000-DH1KD-02A

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TECHNICAL SUPPORT

For additional information contact Leviton's Technical Support at: 1-800-824-3005 or visit Leviton's website at www.leviton.com

FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at **Leviton Manufacturing of Canada Ltd to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9** or by telephone at 1-800-405-5320.

LIMITED 5 YEAR WARRANTY AND EXCLUSIONS

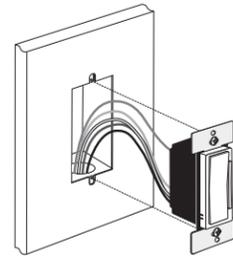
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DI-000-DH1KD-02A

Step 5 Testing your Dimmer prior to mounting in wall box:

NOTE: If using in a dimmable fluorescent or CFL application see Load Type Setup prior to testing the dimmer.



- Position all wires to provide room in outlet wall box for dimmer.
- Ensure that the word "TOP" is facing up on dimmer strap.
- Partially screw in mounting screws in wall box mounting holes.

NOTE: Dress wires with a bend as shown in diagram in order to relieve stress when mounting dimmer.

- Restore power at circuit breaker or fuse.
- Press pad until locator light is OFF. Lights should turn ON. If lights do not turn ON, press the TOP half of the DIM/BRIGHT Bar until the lights brighten.

If lights still do not turn ON, refer to the TROUBLESHOOTING section.

Step 6 Dimmer Mounting: TURN OFF POWER AT CIRCUIT BREAKER OR FUSE.

Installation may now be completed by tightening mounting screws into wall box. Attach wall plate.

Step 7 Restore Power: Restore power at circuit breaker or fuse. Installation is complete.

OPERATION

NOTE: At default the locator light will illuminate when the load is in the OFF position to facilitate access in the dark.

NOTE: If using the dimmer in a 3-way application, the lights will turn ON at brightness set on dimmer's DIM/BRIGHT bar. The lighting can be controlled from either the dimmer, the remote location or the Leviton Decora Smart Home app.

Rocker (Default settings)

Turn ON from OFF position: Tap TOP of Rocker: Lights turn ON to preset level.

Turn OFF from ON position: Tap BOTTOM of Rocker. Lights turn OFF.

DIM/BRIGHT Bar BRIGHTEN:

Tap the TOP half of the DIM/BRIGHT Bar – Lights will jump to the next brightness setting. Hold the TOP half of the DIM/BRIGHT Bar – Lights will brighten.

DIM:

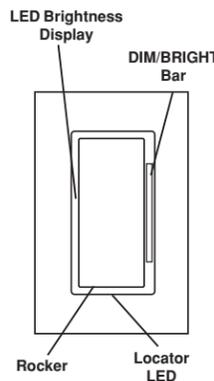
Tap the BOTTOM half of the DIM/BRIGHT Bar – Lights will jump to the next dim setting. Hold the BOTTOM half of the DIM/BRIGHT Bar – Lights will dim.

NOTE: When lights are OFF you can change the light level that the lights will turn ON to using the DIM/BRIGHT Bar. If there is a power outage, when the power is restored, the lights will return to the last setting before the power interruption.

AIR GAP

On the dimmer only, engage the air-gap switch by gently pulling out from the bottom of the DIM/BRIGHT Bar until the bottom of the bar lifts completely out of the frame and a click is heard (refer to Figure). LED's will turn OFF. This will stop power to the fixture to replace the bulb. After servicing is complete, press the DIM/BRIGHT Bar back into place for normal operation.

Cleaning: Clean with a damp cloth. **DO NOT** use chemical cleaners.



Gently pull out from bottom

SETUP

Leviton Decora Smart™ accessories are compatible with a variety of HomeKit-enabled apps. Leviton recommends using the Leviton Decora Smart Home app to add and configure Leviton HomeKit-enabled accessories and to access advanced features.

- Download the Leviton Decora Smart Home app from the App Store.
- Ensure the Leviton accessory is properly wired and power is applied.
- Upon initial power-up the Locator LED will flash green to show the accessory is ready.
- If the Locator LED is no longer flashing green when you are ready to add the accessory proceed to the WAC Reset procedure.

ADDING AN ACCESSORY

HomeKit™ technology makes adding a HomeKit-enabled accessory to the home network quick and easy.

- When the accessory is ready for enrollment the Locator LED will flash green.
- If the Locator LED is not flashing green, proceed to the WAC Reset section to prepare the accessory for learning.
- Ensure the iPhone or iPad is joined to your wireless network before adding the accessory.
- During the initial installation follow app instructions or press + to add an accessory.

WAC RESET

In situations where a wireless access point or password is changed but the configuration of the dimmer needs to remain, use the following WAC Reset procedure. This procedure can also be used to place the accessory in ready mode with the locator LED flashing green:

- Hold the top of the paddle for 7 seconds.
 - After 7 seconds the Locator LED will blink amber.
- Release the top of the paddle and the dimmer will reset.
- Once the dimmer has reset the Locator LED will blink green.

FACTORY DEFAULT

In situations where a dimmer needs to be returned to factory default follow these steps:

- Hold the top of the paddle for a total of 14 seconds.
 - After the first 7 seconds the LED turns amber.
 - Continue to hold the top of the paddle until the Locator LED quickly flashes red/amber.
- Release the top of the paddle and the dimmer will reset.

LEVITON DECORA SMART™ FEATURES

Leviton Decora Smart™ products contain unique features which can be configured via the Leviton Decora Smart Home app.

Load Type Setup: Leviton Decora Smart™ Dimmers are compatible with different types of loads. Choosing the correct load type will increase compatibility and provide proper operation.

- Incandescent Loads
- LED Loads
- CFL Loads
- Mark 10® Loads

Locator LED Setup: Leviton Decora Smart™ Dimmers have a locator LED on the bottom of the paddle. The LED can be used to locate the dimmer in the dark, indicate the current load status or can be turned OFF at all times.

- **Status Mode:** Uses the LED to reflect the current state of the light. If the light is currently ON, the LED is ON, if the light is currently OFF, the LED is OFF.
- **Locator Mode:** Uses the LED to help find the switch in a dark room. If the light is currently OFF, the LED is ON, if the light is currently ON, the LED is OFF.
- **LED OFF:** Places the LED in a permanently OFF state.

LED Level Indicator Timeout

The LED indicators on the side of the dimmer can be programmed to be ON, OFF, or timeout after a predefined period of time.

- Level Indicators OFF
- Level Indicator Timeout (seconds)
- Levels Indicators Always ON

Fade Times

Adjusting the ON or OFF time will affect the speed that the lighting load will transition. Both ON and OFF times can be configured separately.

Light Levels

The dimmer can be set to allow a minimum or maximum lighting level. When using LED bulbs it is recommended to adjust the minimum light level to the lowest level possible when the load is illuminated without flicker.

Preset Light Level

The preset light level feature addresses how the dimmer behaves when turned ON. Default is memory dim, a feature that returns the dimmer to the last dim level. Alternatively, preset dim can be set which will place the dimmer to a level predefined by the app regardless of the last known state. In both modes the dim/bright bar can be used to select a dim level before turning the load ON.

TROUBLESHOOTING

- **Lights Flickering**
 - Lamp has a bad connection.
 - Wires not secured firmly with wire connectors of dimmer or terminal screws of remote.
 - If using in a dimmable fluorescent application see **Load Type Setup prior to testing the dimmer.**
- **Light does not turn ON and Locator LED does not turn ON**
 - Circuit breaker or fuse has tripped.
 - Lamp is burned out.
 - Neutral not wired to Dimmer (White wire).
 - Confirm that the dimmer is being supplied from a 120V AC, 60 Hz source ONLY.
- **Intermittent dimmer operation**
 - Confirm that the Load being controlled does not exceed the 1000VA dimmer limit.
- **Remote does not operate lights**
 - Ensure that total wire length does not exceed 300 ft.
 - Ensure wiring is correct.

FCC COMPLIANCE STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

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. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does 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 the 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.

FCC CAUTION

Any changes or modifications not expressly approved by Leviton Manufacturing Co., Inc., could void the user's authority to operate the equipment.

IC COMPLIANCE STATEMENT

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

WEB VERSION

WARNINGS AND CAUTIONS

- **TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER** at circuit breaker or fuse and test that power is off before wiring!
- **TO AVOID FIRE, PERSONAL INJURY OR PROPERTY DAMAGE, DO NOT** install to control a receptacle, a motor, or a transformer operated appliance.
- To be installed and/or used in accordance with electrical codes and regulations.
- If you are unsure about any part of these instructions, consult an electrician.
- Use with magnetic low voltage transformers, incandescent, or 120V halogen fixtures only. Use a Leviton electronic low voltage dimmer to control electronic (solid state) low voltage transformers.
- Use **ONLY** with the appropriate Advance Transformer 120V Mark 10® *Powerline* or Lutron Tu-Wire® electronic ballasts for controlling the specific fluorescent lamps in Fluorescent Mode.
- When retrofitting Mark 10® *Powerline* dimming ballasts into fixtures that originally had Instant Start ballasts, the sockets **MUST** be replaced with Rapid Start sockets to allow proper dimmer operation and prevent damage to the dimmer ballast. Refer to the instructions provided with the ballast.
- The Decora Smart™ DH1KD dimmer is not compatible with standard 3-way or 4-way switches. It must be used with up to 4 Decora® Digital DD00R-DL remotes for multi-location dimming.
- Maximum wire length from dimmer to all installed remotes cannot exceed 300 ft.
- Save this instruction sheet. It contains important technical data along with testing and troubleshooting information which will be useful after installation is complete.

WARNINGS AND CAUTIONS

- Dimmer may feel warm to the touch during normal operation.
- When magnetic low voltage circuits are operated at a dim level, with all lamps inoperative, excess current may flow through the transformer. To avoid possible transformer failure due to over current, use a transformer that incorporates thermal protection or a fuse at the primary windings.
- Recommended minimum wall box depth is 2-3/4".
- Use this dimmer **with copper or copper clad wire only**.
- Use with compatible dimmable LED, CFL bulbs, incandescent or 120V halogen fixtures only. For a list of compatible LED and CFL bulbs refer to www.leviton.com.
- **DO NOT** mix bulb types when multiple bulbs are used with one dimmer. All bulbs shall be either LED; CFL or incandescent. Using the same make/model of each bulb will enhance dimmer performance.
- Leviton HomeKit-enabled accessories rely on Wi-Fi® communication. Increasing the number of Wi-Fi® accessories can affect Wi-Fi® performance. Consult the network's wireless access point specifications to determine the maximum number of supported Wi-Fi® accessories. For installations with a large number of Leviton HomeKit Wi-Fi® accessories, a high performance wireless access point capable of supporting a large number of accessories may be required.

INTRODUCTION

Leviton's Decora Smart™ accessories are designed to streamline home control with other HomeKit-enabled accessories. Apple HomeKit™ technology provides an easy, secure way to control HomeKit-enabled accessories using Siri voice control on your iPhone or iPad. After installing your Decora Smart™ Dimmer, configure it from the Leviton Decora Smart Home app with just a few simple steps.

WARNING: TO AVOID FIRE, PERSONAL INJURY OR DEATH DO NOT USE the remote for the control of high power heating appliances such as portable heaters. There can be some unexpected consequences if not used with care. For example, an empty coffee pot can be remotely turned on. If that should happen, your coffee pot could be damaged from overheating. If an electric heater is turned on by remote control while clothing is draped over it, a fire could result. This device will not control lighting that is used with electronic low-voltage and high frequency power supply transformers, nor high pressure discharge lamps (HID lighting). This includes mercury-vapor, sodium vapor and metal halide lamps. Decora Smart™ accessories are ideal for living rooms, bedrooms, kitchens, dining rooms, home offices, outdoor lighting or anywhere full control of lighting is desired.

RATINGS

- Incandescent - 1000W - 120VAC, 60Hz
- LED/CFL - 450W - 120VAC, 60Hz
- Mark 10® - 1000VA - 120VAC, 60Hz

FEATURES

- The Leviton Decora Smart™ Dimmer is HomeKit-enabled using Wi-Fi® technology for residential applications
- Compatible with Leviton Decora Smart Home app as well as other HomeKit-enabled apps
- Soft fade ON/OFF
- ON/OFF LED and Brightness level LED
- Over The Air (OTA) firmware updates via Leviton Decora Smart Home app
- Single pole or three way compatible
- Ease of installation - No new wiring

REQUIRED

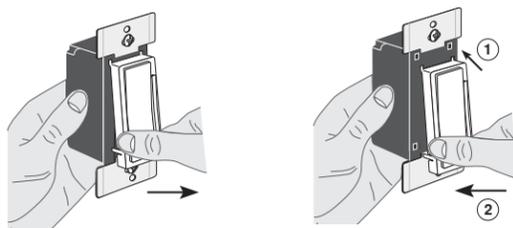
- Wi-Fi® Network
- Free Leviton Decora Smart Home app
- Controlling this HomeKit-enabled accessory away from home requires an Apple TV (3rd generation or later) with Apple TV software 7.0 or later and an iPhone or iPad with iOS 8.1 or later

TOOLS NEEDED TO INSTALL YOUR DIMMER

- Slotted/Phillips Screwdriver
- Electrical Tape
- Pliers
- Pencil
- Cutters
- Ruler

Changing the color of your Dimmer:

Your dimmer comes with two color options. To change color of the face proceed as follows:



Push in sides at bottom tabs and pull outward to release

Insert top tabs and press in bottom tabs to attach

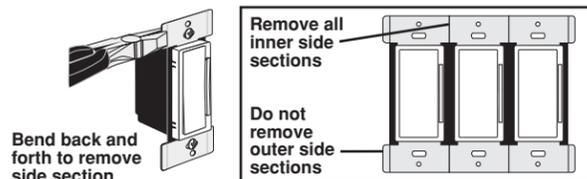
INSTALLING DIMMER BY ITSELF OR MULTI-GANG

If installing the dimmer in a single gang application, proceed with the **INSTALLING YOUR DIMMER** section. If installing dimmer in a multi-gang application, proceed as follows:

MULTI-DIMMER APPLICATION

In multi-dimmer installations, the reduction of the dimmer's capacity may be required. Refer to the chart for maximum load per dimmer.

NOTE: No derating is required for LED or CFL bulb applications.



MAXIMUM LOAD PER DIMMER FOR MULTI-GANG			
Load	Single	Two Gang	More than 2 Gang
Incand	1000W	800W	700W
Mag LV	1000VA	800VA	700VA

MAXIMUM BULB WATTAGE

Low-voltage dimmers are rated in Volt-Amps (VA). The maximum bulb wattage is determined by the efficiency of the transformer in the low-voltage lighting system. Transformer efficiencies will vary from different manufacturers; consider 80% efficient as average. Use the chart to determine maximum bulb wattage for typical transformer efficiency ratings.

MAXIMUM BULB WATTAGE AT 75% EFFICIENCY			
Rating	Single	Two Gang	More than 2 Gang
1000VA	800W	640W	560W

MAXIMUM BULB WATTAGE

Mark 10® *Powerline* dimmers are rated in Volt-Amps (VA). The maximum bulb wattage is determined by the efficiency of the Mark 10® *Powerline* ballast. The following table shows the maximum number of ballasts that can be connected to a single dimmer for different Mark 10® *Powerline* ballasts. Also note that the table shows maximum ballasts for multi-gang installations.

Cat. No. DH1KD, 120V, For use with Advance Transformer 120V Mark 10® *Powerline* Electronic Ballasts

Advance Mark 10® <i>Powerline</i> Part No.	Lamp	Max. # Ballasts/Dimmer for Multi-gang		
		Single Gang	Two Ganged	More than 2 Gang
REZ-2Q18-M2-LD	CFM18W/GX24Q	23	18	15
REZ-1T32	CFM26W/GX24Q	32	25	20
REZ-2Q26	CFM26W/GX24Q	17	13	11
REZ-1T32	CFM32W/GX24Q	26	20	16
REZ-1T42	CFM42W/GX24Q	20	16	13
REZ-1Q18-M2-BS	CFQ18W/G24Q	46	37	30
REZ-1Q18-M2-LD	CFQ18W/G24Q	46	37	30
REZ-2Q18-M2-BS	CFQ18W/G24Q	23	18	15
REZ-1T32	CFQ26W/G24Q	32	25	20
REZ-1T42-M2-BS	CFQ26W/G24Q	32	25	20
REZ-1T42-M2-LD	CFQ26W/G24Q	32	25	20
REZ-2Q26	CFQ26W/G24Q	17	13	11
REZ-2Q26-M2-BS	CFQ26W/G24Q	17	13	11
REZ-2Q26-M2-LD	CFQ26W/G24Q	17	13	11
REZ-1Q18-M2-BS	CFTR18W/GX24Q	46	37	30
REZ-1Q18-M2-LD	CFTR18W/GX24Q	46	37	30
REZ-2Q18-M2-BS	CFTR18W/GX24Q	23	18	15
REZ-2Q18-M2-LD	CFTR18W/GX24Q	23	18	15
REZ-1T42-M2-BS	CFTR26W/GX24Q	32	25	20
REZ-1T42-M2-LD	CFTR26W/GX24Q	32	25	20
REZ-2Q26-M2-BS	CFTR26W/GX24Q	17	13	11
REZ-2Q26-M2-LD	CFTR26W/GX24Q	17	13	11
REZ-1T42-M2-BS	CFTR32W/GX24Q	26	20	16
REZ-1T42-M2-LD	CFTR32W/GX24Q	26	20	16
REZ-2T42-M3-BS	CFTR32W/GX24Q	13	10	8

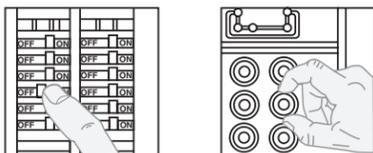
Lutron Tu-Wire®:

To determine total ballast load, add the line current found on the ballast label for all ballasts in the circuit. This will indicate the total load for the control.

INSTALLING YOUR DIMMER

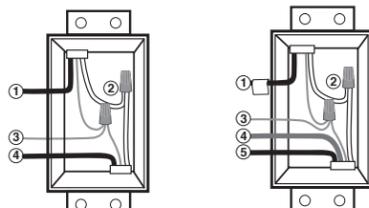
NOTE: Use check boxes when Steps are completed.

Step 1 **WARNING: TO AVOID FIRE SHOCK OR DEATH; TURN OFF POWER** at circuit breaker or fuse and test that power is off before wiring!



Step 2 **Identifying your wiring application (most common):**

NOTE: If the wiring in your wall box does not resemble any of these configurations, consult an electrician.



Single Pole

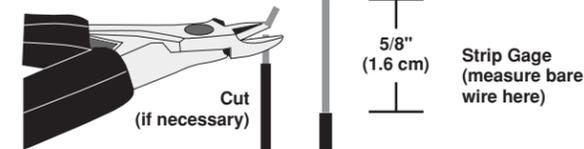
1. Line (Hot)
2. Neutral
3. Ground
4. Load

3-Way

1. Line or Load (see important instruction)
2. Neutral
3. Ground
4. First Traveler – note color
5. Second Traveler – note color

IMPORTANT: For 3-Way applications, note that one of the screw terminals from the old switch being removed will usually be a different color (Black) or labeled Common. Tag that wire with electrical tape and identify as the Common (Line or Load) in both the dimmer wall box and remote wall box.

Step 3 **Preparing and connecting wires:**

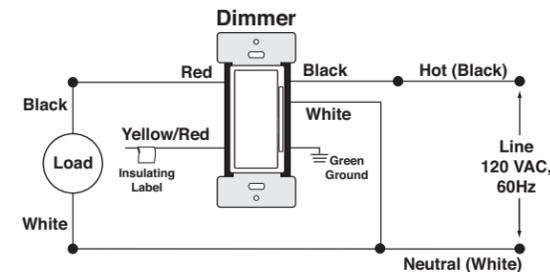
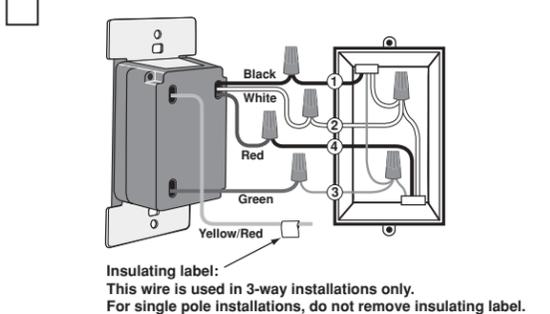


- Pull off pre-cut insulation from dimmer leads.
- Make sure that the ends of the wires from the wall box are **straight (cut if necessary)**.
- Remove insulation from each wire in the wall box as shown.
- **For Single-Pole Application, go to Step 4a.**
- **For 3-Way Matching Remote (w/LEDs) Application, go to Step 4b.**

For non-standard wiring applications, refer to Wire Connector and Conductor Size Chart

WIRE CONNECTOR / # OF COND. COMBINATION CHART	
1 - #12 w/ 1 to 3 #14, #16 or #18	
2 - #12 w/ 1 or 2 #16 or #18	
1 - #14 w/ 1 to 4 #16 or #18	
2 - #14 w/ 1 to 3 #16 or #18	

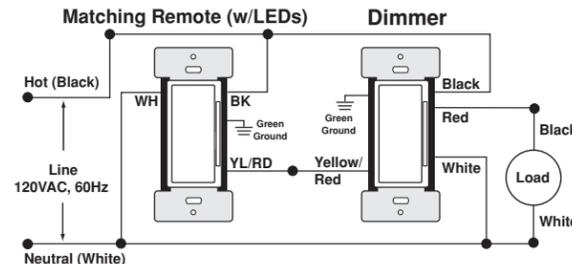
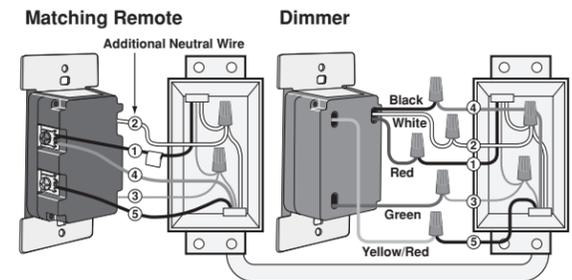
Step 4a **Single Pole Wiring Application:**



WIRING DIMMER: Connect wires per **WIRING DIAGRAM** as follows: **WARNING:** CONNECT A MAGNETIC LOW-VOLTAGE DIMMER ONLY TO THE PRIMARY (HIGH-VOLTAGE) SIDE OF A MAGNETIC LOW-VOLTAGE TRANSFORMER.

- NOTE:** The DH1KD dimmer requires a Neutral wire connection.
- Green or bare copper wire in wall box to Green dimmer lead.
 - Line Hot wall box wire to Black dimmer lead.
 - Load wall box wire to Red dimmer lead.
 - Line Neutral wall box wire to White dimmer lead.
 - Yellow/Red dimmer lead should have Red insulation label affixed.
 - **NOTE:** If insulating label is not affixed to Yellow/Red dimmer lead, use electrical tape to cover.
 - **Proceed to Step 5.**

Step 4b **3-Way Wiring with DD00R Matching Remote (w/LEDs) Application:**



WIRING DIMMER (wall box with load connection): Connect wires per **WIRING DIAGRAM** as follows:

- NOTE:** The DH1KD dimmer **must** be installed in a wall box that has a Load connection and a Neutral connection.
- Green or bare copper wire in wall box to Green dimmer lead.
 - Load wall box wire identified (tagged) when removing old switch to Red dimmer lead.
 - First Traveler Line Hot to Black dimmer lead.
 - Remove Red insulating label from Yellow/Red dimmer lead.
 - Second Traveler wall box wire (**note color as above**) to Yellow/Red dimmer lead. This traveler from the dimmer must go to the terminal screw on the remote marked "YL/RD".
 - Line neutral wall box wire to White dimmer lead.

WIRING MATCHING REMOTE (wall box with line hot connection): Connect wires per **WIRING DIAGRAM** as follows:

- NOTE:** The matching remote must be installed in a wall box with a Line Hot connection and a Neutral connection. A Neutral wire to the matching remote needs to be added as shown.
- NOTE:** Maximum wire length from dimmer to all installed remotes cannot exceed 300 ft (90 m).
- Green or bare copper wire in wall box to Green terminal screw.
 - Line Hot (common) wall box wire identified (tagged) when removing old switch and First Traveler to Remote terminal marked "BK".
 - Second Traveler wall box wire from dimmer to remote terminal screw marked "YL/RD" (**note wire color**). This traveler from the remote must go to Yellow/Red dimmer lead.
 - Line Neutral wall box to remote terminal screw marked "WH".
 - **Proceed to Step 5.**

WEB VERSION