



Installation Manual

Thanks for inviting Greenlite™ into your home. The setup process is easy. All you need to do is follow these simple steps and you'll be on your way to saving energy and making your home even more comfortable.



Greenlite offers installation and product videos

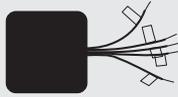
Please visit greenliteusa.com. To contact Greenlite Technical Support, please call 844.695.9090 or techsupport@greenliteusa.com.

1. START HERE

What's in the box?



Greenlite G²™



Power Bridge™



Trim Plate



Screws



Wall Anchors



Wiring Labels

Tools Needed



Phillips Screwdriver



Smartphone



Drill



Optional: Wire Stripper

Optional Tools

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Press the knob when the thermostat is idle to view the menu. Rotate the knob to select an option and press again to confirm.

 System Mode	 Installation Settings
 Fan Mode	 Network Connection
 Run Schedule	 System Preparing

For more information about installation settings, please visit greenliteusa.com

Behind Greenlite's Décor-snap® cover you will see a small, removable "quick guide" to installation and an icon-key label. The icons represent the display icons of your Greenlite Thermostat. You will also find important information for HomeKit® and WiFi setup.

This manual is a comprehensive guide to installation and wiring.

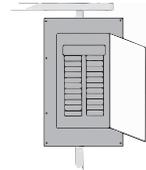
1. START HERE

If you wish to install this product in a manner not covered in this Installation Booklet you may violate the terms of the warranty. We recommend you contact Greenlite Technical Support to confirm that the installation you wish to perform is compatible with this product and your heating and cooling system.

Step 1.1: Download the free Greenlite Thermostat App to your mobile device and create an account.



Step 1.2: Set your phone aside and turn off the power at the circuit breaker to both your heating and cooling systems before performing any wiring.

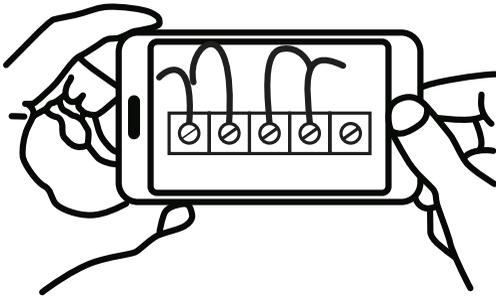


Step 1.3: Confirm that your heating and cooling system is powered down by changing the temperature on your thermostat.
Hint: Your system should not make any noise and you should not feel any air exiting your vents.

Step 1.4: Remove the front of your old thermostat from its base. If you see thick black wires, wire nuts, or any labels that say 120-240VAC or High Voltage, your system is not compatible with Greenlite G²™. Please contact Greenlite Technical Support at 844.695.9090 or techsupport@greenliteusa.com before proceeding with your installation. If you do not see any high voltage labels or wires, please continue with your installation.



Step 1.5: Use the included wire labels to mark which wire is connected to each terminal in your old thermostat. Take a picture of your current wiring layout – it may be helpful to reference this picture later.



Step 1.6: Confirm if you have a C-Wire. If you have a wire connected to a terminal labeled “C”, then you have a C-Wire. If you do not, please skip ahead to page 11.

Installing with a C-wire



Before starting

Turn off the power at the circuit breaker to both your heating and cooling systems before performing any wiring. You will not need the included Power Bridge.

Installation with C-wire

Step 2.1: Identify your system configuration (see wiring diagrams in appendix). Potential configurations include:

- Conventional 1H/1C (Y, G, W, R, C)
- Conventional 2H/1C (Y, G, W, W2, R, C)
- Heat Pump Single-Stage (Y, G, R, O/B, C)
- Heat Pump with auxiliary heat or dual fuel (Y, G, R, O/B, W, C)

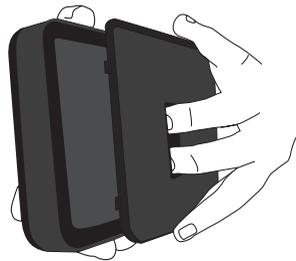
If you have only one R wire, please use the RH terminal. If you have a different configuration other than what is listed above, please call Technical Support for help with your installation.

Step 2.2: Remove each wire from its terminal – make sure that they do not fall down back into the wall.

Step 2.3: Remove the mounting screws from the base of the old thermostat. Remove the base from the wall.

Step 2.4: If you would like to use the trim plate or wall anchors, you can install them now.

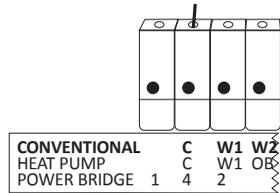
Step 2.5: Separate Greenlite G²™ from its base. Pull the wires from your wall through the center hole of the Greenlite G²™ base. Secure the base to the wall using the included mounting hardware.



INSTALLATION WITH 2. C-WIRE

Option 1 - Conventional (Furnace) Systems:

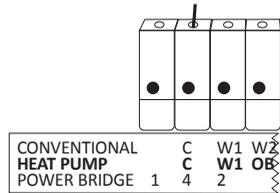
Step 2.6f: Following the terminal labels marked “Conventional” on the thermostat base, press the lever and insert each labeled wire into the top hole of the corresponding terminal.



Step 2.7f: If you have both an RC and RH wire present, then remove the red cap next to the reset button. You can now skip ahead to step 2.8.

Option 2 - Heat Pump Systems:

Step 2.6hp: Following the terminal labels marked “Heat Pump” on the thermostat base and referencing your wiring photo, press the lever and insert each labeled wire into the top hole of the corresponding terminal.



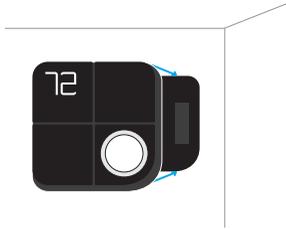
If your old thermostat did not have a W1 wire but did have a W2 wire, please insert the W2 wire into the W1 terminal.

Step 2.7hp: If you have both an O wire and a B wire (i.e. in a Trane system), please install the B wire to the “C” terminal.

For more detailed directions, please see the wiring diagrams in the appendix or call Technical Support.

Installation with C-wire

Step 2.8: Securely fasten Greenlite G²™ onto its base. Once it has clicked into place, return power to your heating and cooling system.



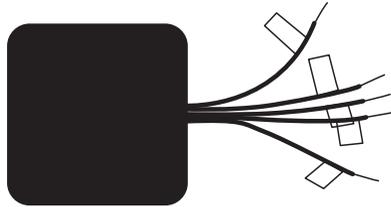
Step 2.9: After your thermostat powers up, you are ready to configure Greenlite G²™ for your heating and cooling system and connect to a wireless network.

Please skip ahead to the “Connecting to the Network” section of this manual on page 15.

Installing without a C-Wire Using the Included Power Bridge



1. Install and wire
your G²™



2. Install Power Bridge
at your furnace

For installation without C-wire,
you will need to access your furnace.



Before starting

Turn off the power at the circuit breaker to both your heating and cooling systems before performing any wiring.

Installation without C-wire

Hint: Helpful videos showing how to wire a thermostat with the Power Bridge are available at greenliteusa.com

Step 3.1: Starting at your thermostat, confirm that you have one of the system configurations listed below:

- Conventional 1H/1C (Y, G, W, R)
- Conventional 2H/1C (Y, G, W1, W2, R)

If you have a different configuration than what is listed above, please contact Technical Support 844.695.9090 or techsupport@greenliteusa.com for help with your installation.

Step 3.2: Remove each wire from its terminal – make sure that they do not fall down back into the wall.

Step 3.3: Remove the mounting screws from the base of the old thermostat. Remove the base from the wall.

Step 3.4: If you would like to use the trim plate or wall anchors, you can install them now.

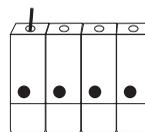
INSTALLATION WITHOUT
3. C-WIRE

Step 3.5: Separate Greenlite G²™ from its base. Pull the wires from your wall through the center hole of the Greenlite G²™ base. Secure the base to the wall using the included mounting hardware.

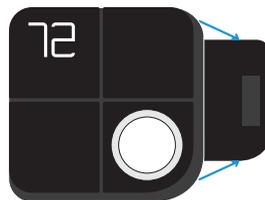


Step 3.6: Following the terminal labels marked “Power Bridge” on the thermostat base, press the lever and insert each labeled wire into the top hole of the corresponding terminal. Connect as follows:

- Y Wire → Terminal 1
- W Wire → Terminal 2
- R Wire → Terminal 3
- G Wire → Terminal 4
- W2 Wire → Terminal Conventional W2 (if W2 wire is present)



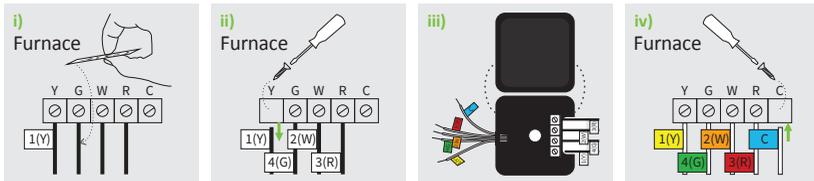
CONVENTIONAL	C	W1	W2
HEAT PUMP	C	W1	OB
POWER BRIDGE	1	4	2



Step 3.7: Securely fasten Greenlite G²™ onto its base.

Step 3.8: Go to your furnace – remove the door or panel and locate your control board or transformer. In most cases, there should be four wires running from the furnace to your thermostat – Y, G, W, and R. If you have additional wires, leave them as is.

- Step 3.9:**
- i) Matching the letters, label the wires connected to your furnace with the included white Power Bridge wire labels. Take a picture of the wiring at your control board.
 - ii) Disconnect these wires from the control board.
 - iii) Open the Power Bridge and insert each of your old wires into the corresponding numbered terminals in the Power Bridge.
 - iv) Finally, insert the Power Bridge wires (with the colored labels) into the corresponding terminals on your furnace control board.



Step 3.10: Secure the Power Bridge to your furnace. If you had to remove a panel or door to access your control panel, replace it now.

Step 3.11: Return power to your heating and cooling system. If your system, including your thermostat, does not power up please call Technical Support.

After Greenlite G²™ powers up, you are ready to configure it for your heating and cooling system and connect to a wireless network.

Connecting to the Network

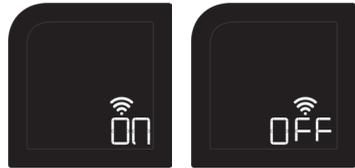
Step 4.1: After your Greenlite G²™ thermostat powers up, it will guide you through the initial system configuration. Use the knob to change options and press the knob to confirm your selection.

First you will need to set your system type	
(F) for Furnace or Boiler	(HP) for Heat Pump
Set the fan type to Gas (most common), Electric (for systems without gas or oil), or Boiler (no fan)	Set the valve type to O or B – look at the photo of your wiring to see which you have

Note: For advanced settings, please visit greenliteusa.com or call Greenlite Technical Support.

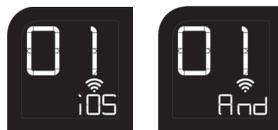
Step 4.2: After confirming your system settings, Greenlite G²™ will ask if you would like to connect to the network. Select “ON” to begin connection or “OFF” to connect later. If you wish to

connect, please make sure that you have downloaded the Greenlite Thermostat App to your smartphone and created an account.



Hint: If you are having trouble, please see our instructional video at greenliteusa.com

Step 4.3: After selecting “ON”, Greenlite G²™ will display “01”. You will then need to select “iOS” if you are using an Apple® device or “And” if you are using an Android® device.



Step 4.4: After selecting “iOS” or “And”, your thermostat will display a large “02”, then “03”. Remove your Décor-snap® cover.



NOTE: Greenlite G²™ cannot be used with a 5GHz WiFi network. Please ensure that your wireless network is set to 2.4GHz and that the security settings are set to open or WPA2. For more information about how to check your network settings, please check your router’s documentation or sticker.



Step 4.5: Open the Greenlite Thermostat App. If you are adding your first device, select the G²™ shaped icon. If you are adding an additional device, start from the App Home Menu (House Icon) and select the +/- icon in the top right corner of the “Thermostats” panel within your current location.



iOS (iPhone® or iPad®)

Open your Greenlite Thermostat App, tap the + icon to add a new accessory, then select the accessory ID that starts with G²™ Smart Thermostat to start the connection process.

Follow the instructions in the App.

If you need to cancel the joining process at any time, simply press and hold the knob for 5 seconds.

Locate your thermostat's HomeKit Setup Code under the Décor-snap cover. When prompted, use your iPhone or iPad's camera to scan the code.

After the App scans the code, your App and thermostat will handle the remaining steps in the connection process.



When you see the thermostat's idle screen, it means you are connected. You can now replace the Décor-snap cover.

ANDROID®

Open your Greenlite Thermostat App, tap the + icon to add a new thermostat. When prompted by the Greenlite Thermostat App, please use your phone's Wifi settings to join your Greenlite G²™'s Wifi network. The network name and password can be found under the Décor-snap cover.

After connecting your thermostat to the network, please return to the App and select your home Wifi network from the list and enter your password.

Please make sure your phone reconnects to your home Wifi network and then return to the Greenlite Thermostat App. From this point your thermostat and App will handle the remaining steps in the connection process.

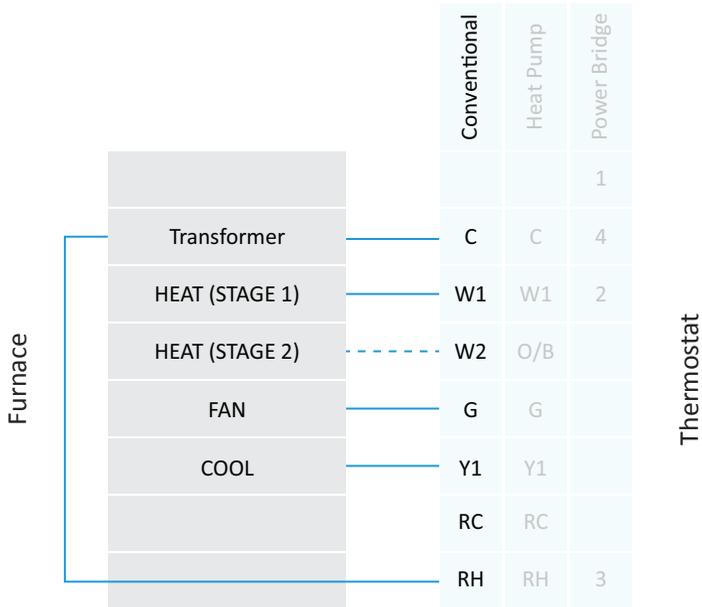


When you see the thermostat's home screen, it means you are connected. You can now replace the Décor-snap cover.

Congratulations!

Installation is complete and your G²™ Thermostat is ready to go. Now let's save some energy and make your home more comfortable!

Conventional System With C-Wire Wiring Diagram

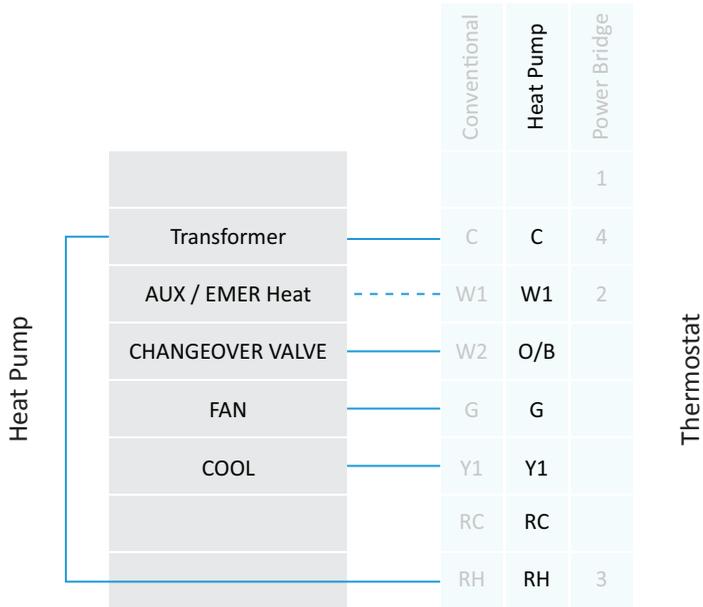


Notes:

- The W2 terminal is used for 2 stage heating systems only
- If you have both an RH and RC wire, please remove the red cap from the back of the thermostat

5.APPENDIX

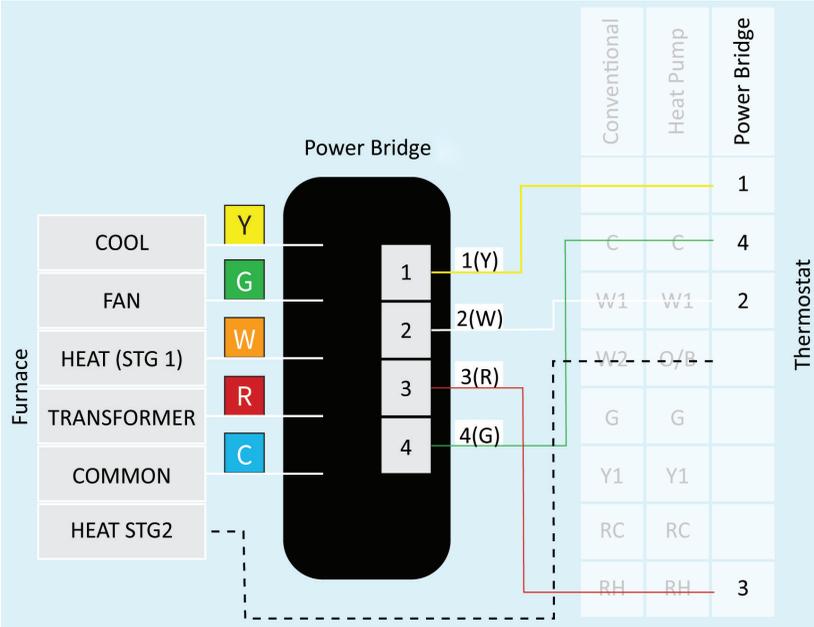
Heat Pump System With C-Wire Wiring Diagram



Notes:

- The W1 terminal is used for Auxiliary/Emergency heat or on Dual Fuel systems

Power Bridge Wiring Diagram



Notes:

- If you have a heat pump or dual transformer system, please call Tech support.
- If you have any wires on your furnace not shown here, please leave them as is.

Apple HomeKit™

Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

FCC Part 15C

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 communications.

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 receiver.

License Agreement (Including ARM Limited and ST Microelectronics)

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IC RSS 210

This device contains license-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

If you wish to install this product in a manner not covered in this Installation Booklet you may violate the terms of the warranty. We recommend you contact Greenlite Technical Support to confirm that the installation you wish to perform is compatible with this product and your heating and cooling system.

If this unit fails because of defects in materials or workmanship within three years of the date of original purchase, Greenlite will, at its option, repair or replace it. This warranty does not cover damage by accident, misuse, or failure to follow installation instructions. Implied warranties are limited in duration to three years from the date of original purchase. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Please refer to Technical Support at 844.695.9090 or techsupport@greenliteusa.com for all warranty claims. Purchaser assumes all risks and liability for incidental or consequential damage resulting from installation and use of this unit. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state. Applicable in the U.S.A. only.



GREENLITE LIGHTING CORPORATION

Irvine, CA 92606 USA

greenliteusa.com

Designed in Philadelphia