

Power Extender Kit User Manual

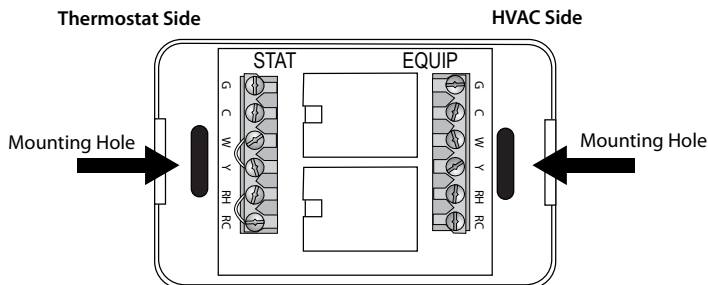
A common wire (C) is required for 5-wire thermostats. If there are only 4 wires to your existing thermostat (i.e. there is no C wire), you can use the ecobee Power Extender Kit to power your thermostat.

Step 1. Install Wiring Harness

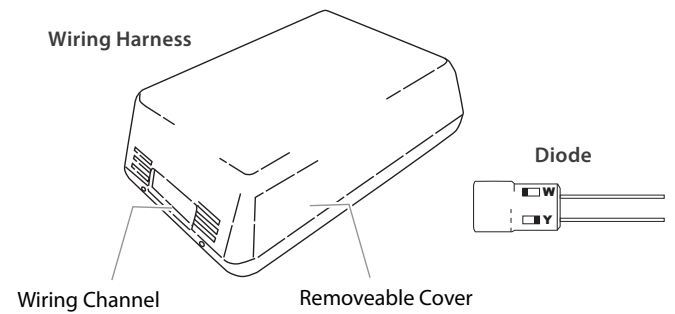
The Power Extender wiring harness must be installed in an indoor, dry location, near the HVAC equipment. When choosing a location, the distance between the wiring harness and the HVAC equipment must not exceed 24 inches (0.6 m).

⚠ This equipment is sensitive to electrostatic discharge (ESD). Before starting, discharge your body of static electricity by touching a grounded metal object. Always hold the devices by their edges and do not touch any of the internal components.

1. Power off the HVAC equipment.
2. Remove the top cover of the wiring harness by gently squeezing its sides.
3. Use 2 #6 pan-head screws or double-sided adhesive to attach the wiring harness to a flat surface (for example, the furnace casing).



Power Extender Kit

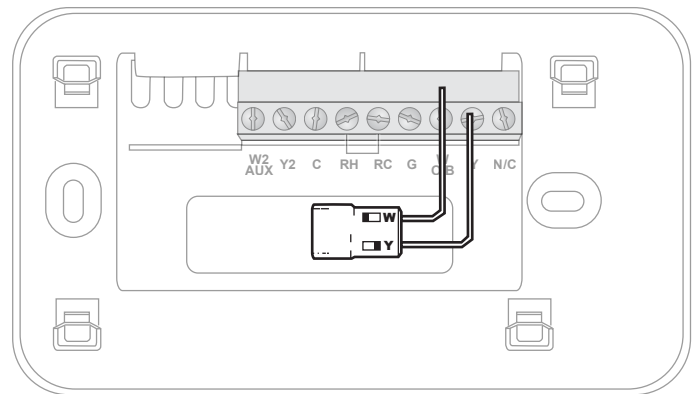


Step 2. Install Diode

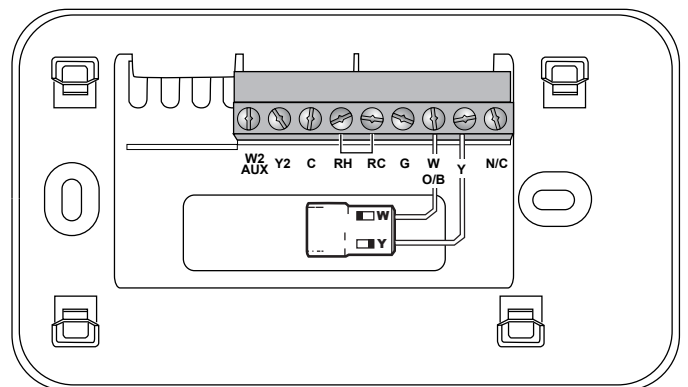
The diode is designed to be installed behind the thermostat, within the thermostat's backpanel wire opening.

1. Use your fingers to gently pry the thermostat away from its base.
2. Using the thermostat's backpanel wire opening as a guide, gently bend the diode wires 90 degrees so that they can be inserted into the W O/B and Y terminals:

The diode itself should stay within the wire opening.



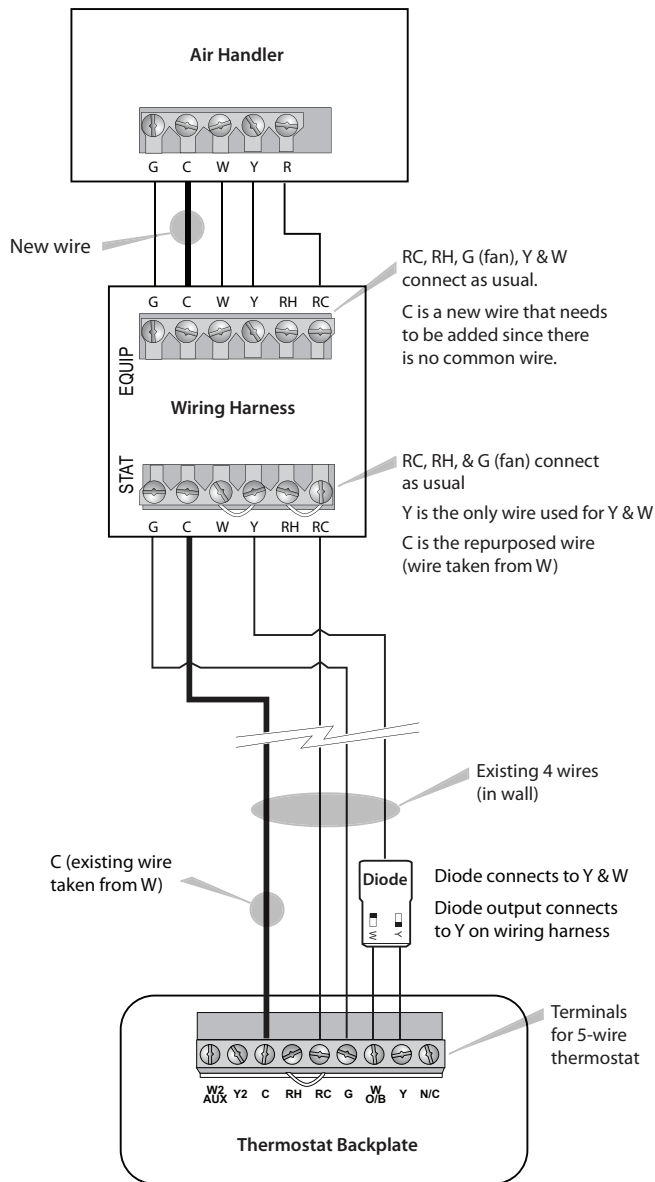
3. Clip the diode legs so that you can insert them into the W and Y terminals. DO NOT over clip the legs.
4. Connect the diode legs to the W O/B and Y terminals.



Step 3. Connect the Wires

The next step is to connect the wires between the thermostat, diode, wiring harness, and HVAC equipment.

1. Connect the C wire coming from the thermostat to the C terminal on the STAT side of the wiring harness. You can repurpose the wire that would have been connected to W on a 4-wire thermostat.
2. Connect the RC/RH and G wires from the thermostat to the RC/RH and G terminals on the STAT side of the wiring harness.
3. Connect the output from the diode to the Y terminal on the STAT side of the wiring harness. You can re-use the wire that would have been connected to Y on a 4-wire thermostat.
4. Connect the RC/RH, G (fan), Y, C, and W wires on the EQUIP side of the wiring harness to the matching terminals on your air handler.



Step 4. Power On the System

After you have completed the wiring, you can power on and test the system.

1. Re-attach the thermostat to the backplate. Ensure that the pins on the thermostat align with the terminal block on the backplate.
2. Power on the HVAC equipment. The thermostat should automatically power on.
3. Test your wiring by alternately adjusting the set temperature and running the different heat, cool, and fan modes.
4. Once you are satisfied the wiring is correct, re-attach the wiring harness's front cover. Make sure the wires exit the module via the wire channel.
5. Re-attach any cover panels that you previously removed on the HVAC equipment

Need Help?

Contact us at:

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Product Specifications

Environmental

For indoor use only

Temperature: -40°F to 160°F (-40°C to 70°C)

Humidity: 5-95% RH (non-condensing)

Dimensions

3.3 x 2.0 x 1.0 inches (84 x 52 x 26 mm)

Electrical

Input: 18 to 30 VAC (50 or 60 Hz), 30mA@24V

Output: 18 to 30 VAC (50 or 60 Hz) 2A per terminal

3-Year Limited Warranty

ecobee warrants that for a period of three (3) years from the date of purchase by the consumer ("Customer"), the ecobee Power Extender Kit (the "Product") shall be free of defects in materials and workmanship under normal use and service. During the warranty period, ecobee shall, at its option, repair or replace any defective products, at no charge. Any replacement and/or repaired device are warranted for the remainder of the original warranty or ninety (90) days, whichever is longer.

If the product is defective, contact the supplier from whom the product was purchased to obtain an equivalent replacement product, provided the supplier determines that the returned Product is defective and the Customer is otherwise eligible to receive a replacement product;

This warranty does not cover removal or reinstallation costs and shall not apply if the damages were found to be caused by something other than defects in materials or workmanship, including without limitation, if the product:

- was operated/stored in abnormal use or maintenance conditions;
- is repaired, modified or altered, unless ecobee expressly authorizes such repair, modification or alteration in writing;
- was subject to abuse, neglect, electrical fault, improper handling, accident or acts of nature;
- was installed improperly.

ecobee's sole responsibility shall be to repair or replace the Product within the terms stated above. ECOBEE SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND, INCLUDING ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY, FROM ANY BREACH OF ANY WARRANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT. Some US states and Canadian provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. ecobee's responsibility for malfunctions and defects in materials and workmanship is limited to repair and replacement as set forth in this warranty statement. All express and implied warranties for the product, including but not limited to any implied warranties and conditions of merchantability and fitness for a particular purpose, are limited to the three-year duration of this limited warranty. No warranties, whether express or implied, will apply after the limited warranty period has expired. Some US states and Canadian provinces do not allow limitations on how long an implied warranty lasts, so this limitation may not apply. ecobee neither assumes responsibility for nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product. This warranty gives you specific rights, and you may also have other rights which vary from jurisdiction to jurisdiction. If you have any questions regarding this warranty, please write ecobee Customer Service, 477 Richmond St West 2nd Floor, Toronto ON M5V 3E7, Canada or contact customer service at 1-877-932-6233 or email at support@ecobee.com.