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Learning Thermostat  
Installation Guide

## Compatibility

Based on Nest's online compatibility checker data, the Nest Thermostat works with most 24V systems, including gas, electric, oil, forced air, variable speed, heat pump and radiant. It can control:

- Heating: one, two and three stages (W1, W2, W3)
- Cooling: one and two stages (Y1, Y2)
- Heat pump: with auxiliary and emergency heat (O/B, AUX, E)
- Fan (G)
- Power (C, Rh, Rc)
- Humidifier or dehumidifier (HUM, DEHUM)

The Nest Thermostat's \* connector can accept only one of these wires: W3, E, HUM or DEHUM.

The Nest Thermostat is designed to work even if your home doesn't have a common C wire. Rarely, installing a new C wire may be required.

Professional installation recommended for:

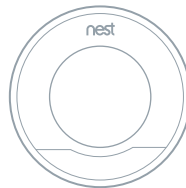
- Dual fuel systems (heat pump with furnace)
- Whole-home humidifiers and dehumidifiers

Go to [nest.com/works](https://nest.com/works) to make sure the Nest Thermostat will work in your home and find out if you need professional installation.

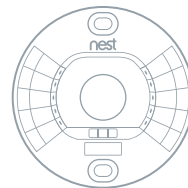
## Watch the video

Before you start, watch our installation video at [nest.com/support](https://nest.com/support)

## Contents



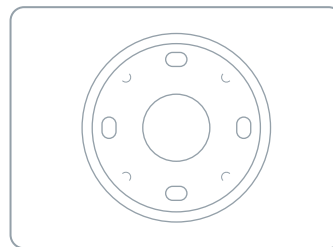
Display



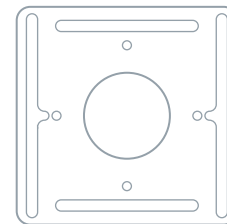
Base



Screwdriver



Optional trim plate



Optional steel plate



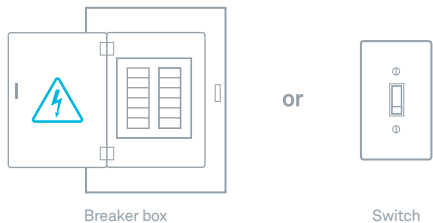
Wall screws



Optional steel plate screws

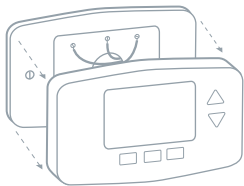
## 1. Switch off power

This protects you and avoids blowing a fuse in your equipment. Adjust the temperature on your old thermostat to make sure your system is off.



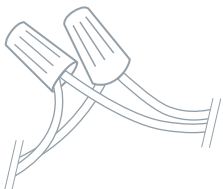
## 2. Remove cover

Some covers pop off, while others need to be unscrewed.



## 3. Check your system

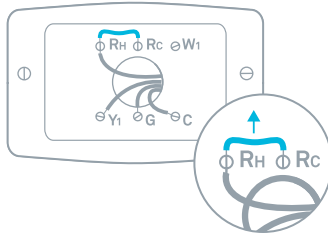
If your old thermostat is labeled 120V or 240V or has thick wires with wire nuts, your system is high voltage. Not sure? Contact support.



**⚠ CAUTION:** Do not connect Nest to high voltage wires.

## 4. Remove any jumper wires

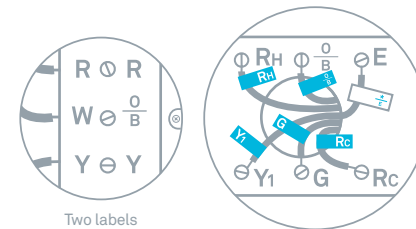
Jumper wires are short wires between two connectors. You won't need them. An R wire can go into either Rc or Rh.



## 5. Label wires

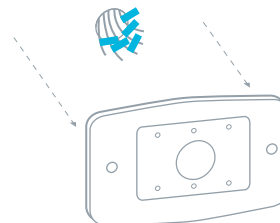
Peel off the blue labels and attach them to your wires. Use the white labels if you have a E, W3, HUM or DEHUM wire. You can connect only one of these wires to the \* connector.

See two labels for each connector?  
Visit [nest.com/2labels](https://nest.com/2labels) for help.



Tip: Take a picture of the wires on your old thermostat to help you remember.

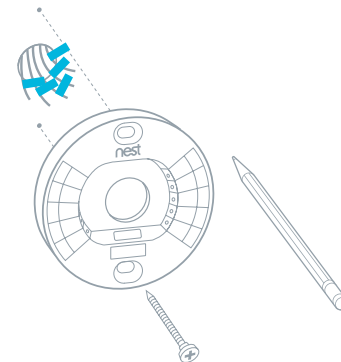
## 6. Disconnect wires and remove base



**⚠ Remember, the power to your HVAC system must be off to avoid blowing a fuse in your equipment.**

## 7. Mark where screws will go

Use the bubble level to make sure the Nest Thermostat is level.



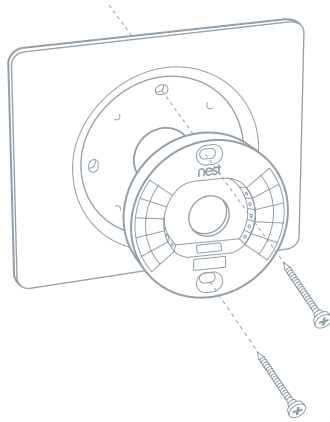
Optional in most homes

## Use trim plate if needed

You can cover up holes or marks left by your old thermostat with the optional trim plate.

Snap the base and trim plate together, then screw them to the wall.

You'll find the trim plate in the bottom of the box.

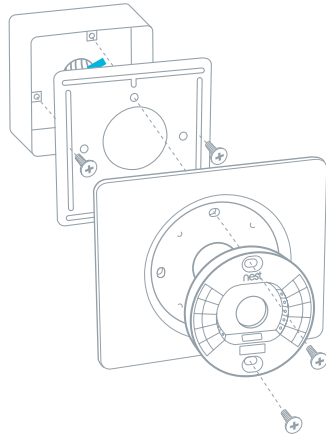


Optional in most homes

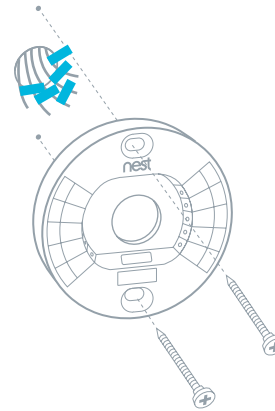
## Mounting on an electrical box

Electrical boxes aren't common, but if you have one, secure the steel plate to the electrical box with two of the short steel plate screws. Insert the screws into the long slots on the steel plate.

Use the other two short screws to attach the Nest base and trim plate to the steel plate.

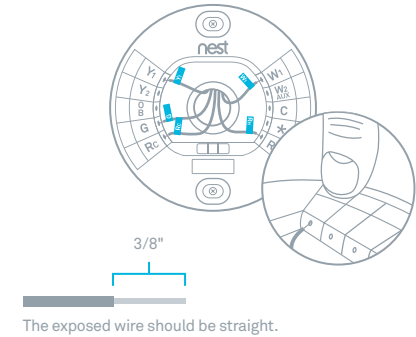


## 8. Attach base



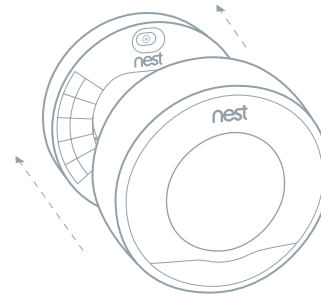
## 9. Connect wires

After all the wires are connected, make sure they're flush with the wall.

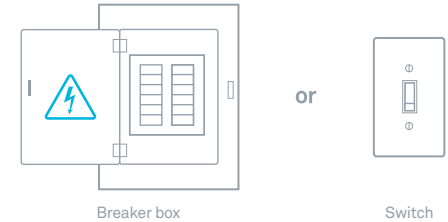


## 10. Attach display

Press the display until it clicks into place.



## 11. Switch power back on



## 12. Setup and Nest Account

The Nest Thermostat will turn on and walk you through setup. Just turn the ring and press to select. During setup, you can connect the thermostat to Wi-Fi.

Go to [nest.com/account](https://nest.com/account) or download the Nest app and create a Nest Account. Your thermostat will connect to your account automatically.

Questions about adding a thermostat to your Nest Account? Visit [nest.com/pairing](https://nest.com/pairing)



## Nest Labs, Inc. Limited Warranty Learning Thermostat

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**1. WHAT THIS LIMITED WARRANTY COVERS; PERIOD OF COVERAGE**  
Nest Labs, Inc. ("Nest Labs"), 900 Hansen Way, Palo Alto, California USA, warrants to the owner of the enclosed product that the product contained in this box ("Product") will be free from defects in materials and workmanship for a period of two (2) years [one (1) year for Factory Refurbished Products] from the date of delivery following the original retail purchase (the "Warranty Period"). If the Product fails to conform to this Limited Warranty during the Warranty Period, Nest Labs will, at its sole discretion, either (a) repair or replace any defective Product or component; or (b) accept the return of the Product and refund the money actually paid by the original purchaser for the Product. Repair or replacement may be made with a new or refurbished product or components, at Nest Labs' sole discretion. If the Product or a component incorporated within it is no longer available, Nest Labs may replace the Product with a similar product of similar function, at Nest Labs' sole discretion. This is your sole and exclusive remedy for breach of this Limited Warranty. Any Product that has either been repaired or replaced under this Limited Warranty will be covered by the terms of this Limited Warranty for the longer of ninety (90) days from the date of delivery or the remaining Warranty Period. This Limited Warranty is transferable from the original purchaser to subsequent owners, but the Warranty Period will not be extended in duration or expanded in coverage for any such transfer.

### 2. TOTAL SATISFACTION RETURN POLICY

If you are the original purchaser of the Product and you are not satisfied with this Product for any reason, you may return it in its original condition within thirty (30) days of the original purchase and receive a full refund.

### 3. WARRANTY CONDITIONS; HOW TO GET SERVICE IF YOU WANT TO CLAIM UNDER THIS LIMITED WARRANTY

Before being able to claim under this Limited Warranty, the owner of the Product must (a) notify Nest Labs of the intention to claim by visiting <http://support.nest.com> during the Warranty Period and providing a description of the alleged failure, and (b) comply with Nest Labs' return shipping instructions, and (c) ship the Product at



For more information visit [nest.com](https://nest.com)

You can also find answers in the Nest Community at [nest.com/community](https://nest.com/community)



Recycle your old thermostat: see [nest.com/responsibility](https://nest.com/responsibility)

Please recycle Nest's 100% recyclable packaging.

owner's cost (except where prohibited by applicable law) to Nest Labs for repair or replacement. Nest Labs will have no warranty obligations with respect to a returned Product if it determines, in its reasonable discretion after examination of the returned Product, that the Product is an Ineligible Product (defined below). Nest Labs will bear all costs of return shipping to owner, except with respect to any Ineligible Product, for which owner will bear all shipping costs.

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