



**Learning Thermostat**  
Installation Guide

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## 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, G2, G3)
- 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:

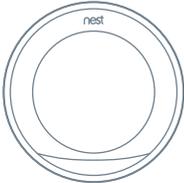
- Dual fuel systems (heat pump with furnace)
- Whole-home humidifiers and dehumidifiers

## Watch the video

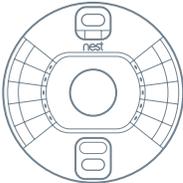
To see how it's done, watch our installation video at [nest.com/support/thermostat](https://nest.com/support/thermostat)

¿Prefieres leer esto en español? Visita [nest.com/es-guide](https://nest.com/es-guide)

In the box



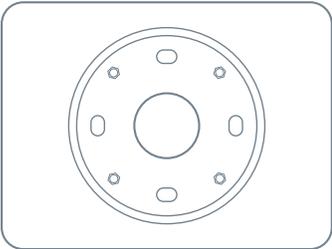
Display



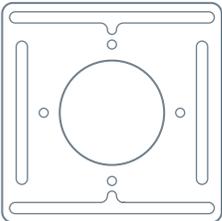
Base



Screwdriver



Optional trim plate



Optional steel plate



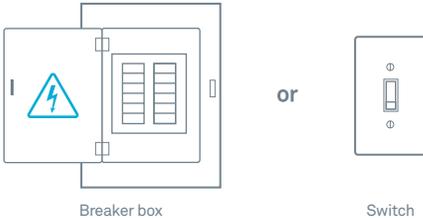
Wall screws



Optional steel plate screws

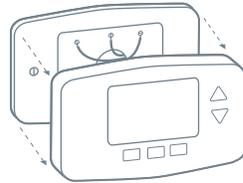
## 1. Switch off power

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.



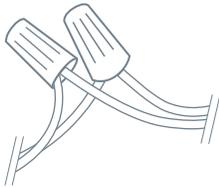
## 2. Remove cover

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



## 3. Check your system

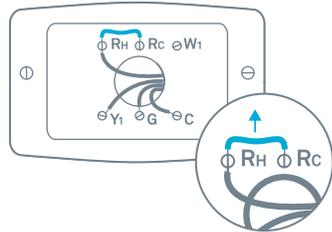
If your old thermostat is labeled 120V or 240V or has thick wires with wire nuts, your system is high voltage. Not sure? Contact support.



**⚠ 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.

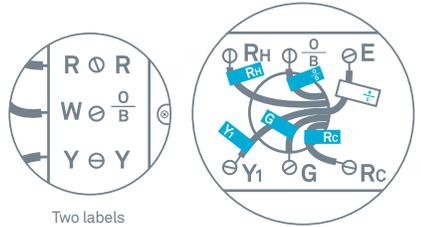


## 5. Label wires

Peel off the labels below and attach them to the thermostat's matching wires.

Use the white labels for any W3, E, HUM or DEHUM wires. The \* connector can only connect to one of these wires.

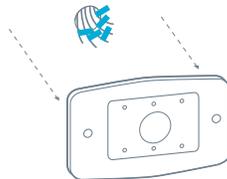
See two names for each connector on your old thermostat's backplate? Visit [nest.com/2labels](https://nest.com/2labels) for help.



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

## 6. Disconnect wires and remove base

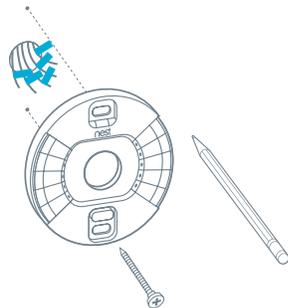
After removing the base, we recommend gently wrapping the wires around a pen or pencil to ensure they don't fall back into the hole in the wall.



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.



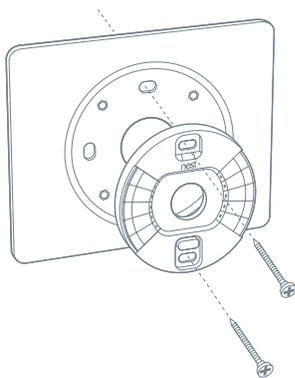
Optional in most homes

## 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.

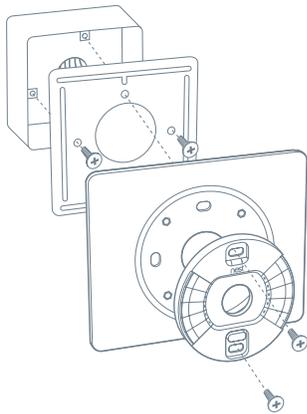


Optional in most homes

## Mounting on an electrical box

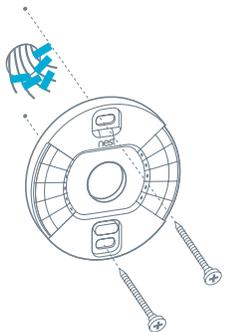
Electrical boxes aren't common, but if you have one, secure the steel plate to the electrical box with two of the short steel plate screws. Insert the screws into the long slots on the steel plate.

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



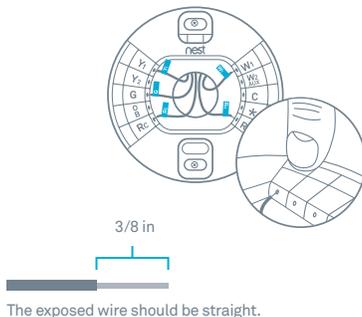
## 8. Attach the Nest base

Pull the wires through the center of the base, then attach it to the wall with the screws.



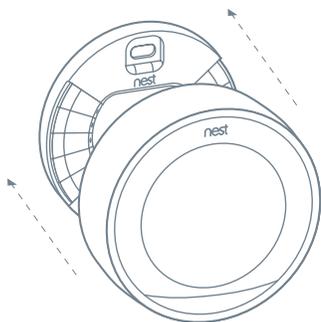
## 9. Connect wires

After all the wires are securely connected, push them down to make sure they're flush with the base.

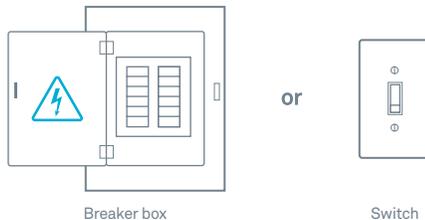


## 10. Attach the display

Press the display onto the base until it clicks.



## 11. Switch the 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 to create a Nest Account. The app will show you how to connect your Nest Account and thermostat.



Remember, you can download the free Nest app from the App Store® or Google Play.™ Weather data is provided by The Weather Channel.™

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

# Nest Labs, Inc. Limited Warranty Learning Thermostat

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

Need help? Contact us at [nest.com/support](https://nest.com/support)

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[nest.com/legal/fcc-compliance-notice](https://nest.com/legal/fcc-compliance-notice)



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## **1. WHAT THIS LIMITED WARRANTY COVERS; PERIOD OF COVERAGE**

Nest Labs, Inc. ("Nest Labs"), 3400 Hillview Avenue, 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 from the date of delivery following the original retail purchase, and if a Nest Pro sells and installs the Product and enters a valid Nest Pro ID during setup, an additional three (3) years, resulting in a warranty period of five (5) years for that Product (collectively, 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, at Nest Labs' sole discretion, replace the Product with a similar product of similar function. 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 (a) ninety (90) days from the date of delivery of the repaired Product or replacement Product, or (b) 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 making a claim under this Limited Warranty, the owner of the Product must (a) notify Nest Labs of the intention to claim by visiting [nest.com/support](https://nest.com/support) during the Warranty Period and providing a description of the alleged failure, and (b) comply with Nest Labs' return shipping instructions. Nest Labs will have no warranty obligations with respect to a returned Product

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