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Aprilaire touchscreen thermostat installation manual

Get a new smart thermostat? We understand if you don't want to pay extra to have it professionally installed when you can do it yourself. Installing a smart thermostat requires a bit of basic work with electrical wiring, but the average owner can usually tackle the task with the right guidance. Here's how to install and work your smart thermostat, with helpful tips and tricks you should know. Note: A screwdriver, drill and needle tip pliers are important tools you may need. Step 1: Check HVAC compatibility Ideally, everyone should check its compatibility with the HVAC system before even buying a smart thermostat. Not all smart thermostats are compatible with existing wiring, depending on the type of system you have (heat pump, oven, etc.) and how the previous thermostat was wired. Fortunately, Google offers an excellent compatibility checker for your Nest thermostat, and we suggest you visit and walk through the steps to check your wiring. This compatibility test should also work for most other smart thermostats on the market. Pay special attention to the quality and voltage of the cable, which can be circuit breakers for smart thermostats. Smart thermostats usually need a C-Wire for continuous energy, which is common in modern homes, but not guaranteed. C-Wire adapters are also available, but if you don't have a C-Wire, we suggest you contact an electrician to install one. The google route of wire labels will be very useful later when you are installing a new thermostat, so this is a great exercise, even if you are pretty sure that your smart thermostat will be compatible. Step 2: Turn off the thermostat power and access the thermostat wiring via Pikrepo Find your circuit breaker panel and look for switches labeled as HVAC, or sometimes heating and cooling (there may be more than one switch). Turn them over to turn off the thermostat power and turn off the system while working. If you go back to the thermostat and it's still on, it may have a backup battery. As a test, try significantly changing the temperature and see if your HVAC system turns on. Once the power is definitely turned off, remove the front plate from your old thermostat if you have not already done so in the previous steps. The front plate is usually disconnected when pulled, although sometimes a small screw or fastener holds it, so inspect the design carefully. If you can't figure out how to remove the front plate, look for your thermostat model online and see if there are specific instructions. Once the front plate is removed, you should see a number of connected to various terminals on the thermostat. Step 3: Completely disconnect the old thermostat, and take a smartphone photo of the wire positions and any labels for your old thermostat. This is not always necessary, but it can be a very useful reference later. Do you notice small letter labels on each connection? That's what you want to take note of, along with the color of each cable. Cable, multiple photos if necessary, and if the cables do not have light separate colors, you will need to label them with small labels before moving on. Fortunately, not all thermostat wiring is as confusing as the one shown above. Many have simpler configurations, like this: via: Redditi/beltranstreet These cables are typically held in place by tabs or screws. Gently unscrew and remove the cables. If the wiring looks a little scruffy, you can turn the cables back together in preparation for the new thermostat. If the wiring looks severely damaged or very frayed, it is better to bring in an electrician if you have no experience repairing cables. With the wiring undone, you can now remove the old thermostat completely from the wall. The bracket is usually screwed and can be unscrewed with a screwdriver if necessary. What's left should be a small hole with a number of wires coming, and a blank patch on the wall. Clean the wall if it is dirty under the thermostat. If your smart thermostat is smaller than the previous model, this is also a good time to paint the wall underneath if the wall colors don't match (that's why it's useful for keeping a can of interior paint from the house in storage). Step 4: Install the smart thermostat holder If you have not already done so, unpack your smart thermostat, remove the parts and find the bracket, sometimes called the clipping plate, or just the back (the clipping plate may be a separate part, but it is a good idea to install it as well). Again, these are designed to screw on the wall, so route the cables through the bracket and secure it. You may be able to use old screw holes if aligned correctly; otherwise, mark and drill a new hole for this process. If the old holes are still visible, you can always patch them later. An advantage of smart thermostats is that their supports tend to be clearly labeled for wiring and well designed. Above you can see an example of Nest Thermostat support. Below is an Ecobee 4 thermostat holder. You can view the slots and tabs to connect individual cables in the correct layout. Now it's time to focus on the details. Step 5: Connect the wiring to the smart thermostat This step will vary depending on the wiring of your old thermostat. If the cables are in good condition and labeled on the wiring itself, you can connect the cables to the corresponding tabs on the bracket without much problems. Make sure each cable is fully inserted and secure before proceeding. As you can see, needle-tipped pliers can help steer and tamp wires as you work. If your cables don't have labels, now's when you should bring your phone and look at the photos you took of the old wiring, so you can match the color of each cable with the correct tab. Step 6: Place the smart thermostat front plate When all cables are connected, place them carefully on the stand. Now connect the front plate of the smart thermostat, which is usually more of a computer with a connected display. The front plate should naturally be hooked assembly as long as there are no cables on the road. Make sure it's level and not upside down, even round thermostats like Nest should be installed the right way. Step 7: Turn on your smart thermostat and connect it to Wi-Fi Now, you are ready to start on the software side of the installation. Return to the switch panel and turn the HVAC system power back on. Check your smart thermostat: It must be turning on and starting now. When you're done, the thermostat should guide you through a few basic steps to connect it to your home Wi-Fi network, so have your Wi-Fi name and password handy. You should also be able to do this directly from the thermostat app, which you should download now if you haven't already. After it is connected, the thermostat will make you choose a number of settings to heat and cool your home. Follow the instructions in the application/thermostat to customize your temperatures, how the thermostat behaves and what information it displays. Now you're ready. It's a good idea to explore unknown smart features in the coming days so you know how they work and how to take advantage of them. Recommendations from Home House & Components Systems Heating & Cooling System Today editors smart thermostats are not just control panels for your heating and air conditioning. These thermostats are equipped with Wi-Fi, sensors, advanced algorithms and more. This is how these new features benefit you as a home owner, and why you should consider upgrading to your own smart thermostat. 1/11 REDPIXEL.PL/ShutterstockA smart thermostat is accurate and informative. Using the manual and power-saving tips provided by smart thermostats, you can create a schedule with the right temperature zones to save money on energy bills. Nest Thermostat predicts it will save between 10 and 12% in heating costs and 15% in cooling costs. Ecobee says you'll save about 23% on both heating and cooling. Other smart thermostats have similar projections. In addition: Install a programmable thermostat for energy saving 2 / 11 Olivier Le Moal / ShutterstockThe smart thermostat is equipped with sensors that detect when people are active and active in the house. This allows them to record the times when you and your family are at home (mornings, nights, etc.) and when you are gone, which helps with programming. In addition: How to install a 3/11 Family Handyman Thermostats programmable thermostat as the Nest Smart Thermostat have built-in learning features. In combination with their sensors, they can learn when people are active and when heating/cooling needs to be on, then change their own schedules in This helps save time when first scheduled, and by changing schedules as seasons change. This is just one of the benefits of nest thermostats. Click on the link above to learn more. Also: Does the thermostat not work? 4/11 Handyman Family However, a smart thermostat comes with branded apps that are downloaded to mobile devices. As a result, these applications to check the thermostat anywhere you have a data connection/Wi-Fi, and change the temperature if necessary. A wi-fi thermostat is very useful if you need to make changes while at work or on vacation. 5/11 Syda Productions/ShutterstockIn addition to long distance control, smart thermostats also allow you to create heating/cooling schedules directly from the app. As a result, not only is it easier than pressing buttons on a control, but also allows for deeper temperature management from week to week. In addition: Do It Your Furnace Maintenance 6/11 Andrey_Popov/ShutterstockA Smart Thermostat also provides energy reports on the amount of energy you are using. In addition, they show how your energy consumption has changed over time and how much this is likely to cost you. As a result, these reports are often included with tips on how to adjust temperatures to save money as well. In addition: DIY Air Conditioner Repair 7/11 Family HandymanGoja a look at the design of smart thermostats, and you will notice large temperatures and clearly stylized. And simple interfaces that you can read at a glance. There is no more squinting at small numbers on poorly lit screens or bewildering which buttons to press. Also: Learn how to install electrical cables by upgrading your thermostat 8/11 Alexander Kirch/ShutterstockSmart device platforms continue to grow in compatibility. And that means your smart thermostat can connect and exchange information with an increasing number of other home devices. Smart humidifiers and air purifiers, for example, can be controlled with the thermostat if they are on compatible platforms. In addition: All about repairing the 9/11 arsten Neglia/ShutterstockThancy oven to support voice command technology, such as Amazon's Alexa, a smart thermostat can also be controlled with your voice. And commands like, Alexa, lowering the temperature to 68 degrees allow you to make changes on the spot. Also: Do I need a new oven? 10/11 pandpstock001/ShutterstockAn energy profile is a profile of your home. And its size, location, heating/cooling methods and so on contribute to your energy profile scores. Therefore, you can program a smart thermostat with these details for energy efficiency. And this is an automated process that makes HVAC management a little easier. In addition: How to heat a garage 11/11 thermostats like Ecobee's latest can track the latest local weather reports and make proper changes in temperature if the heat is picking up or a cold front is coming in. And that's just some of the smart features of this thermostat. Plus: Oven Maintenance Guide Photo: Ecobee originally published: May 24, 2019 2019 2019