

Comfort™ Non-Programmable Owner's Manual



Carrier

Turn to the Experts™

You will love this thermostat.

This Comfort™ non-programmable thermostat is an easy to use model that provides the most sought-after features for keeping your home comfortable. And with a slim profile, it is designed to be as smart – and smart-looking – as any of the other electronics in your home. Let this manual show you how easy it is to enjoy the newest experience in home comfort.

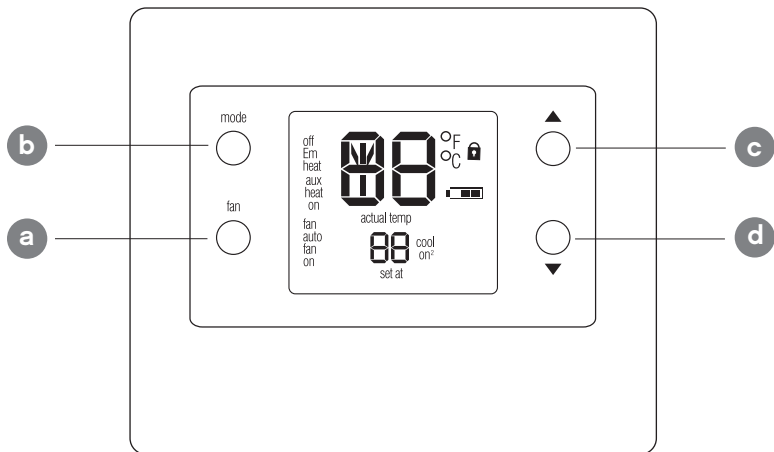
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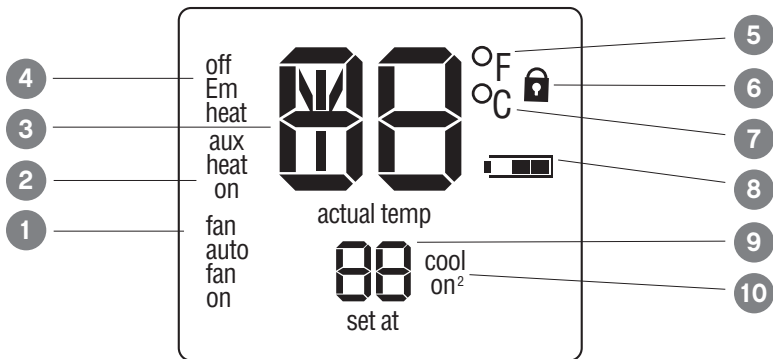
Button Identification



Button Identification

- a FAN** Selects whether the fan operates continuously (on) or only when needed for heating or cooling (auto)
- b MODE** Selects whether thermostat is set for heating, cooling, emergency heat (heat pump system only), auto (heat and cool as needed), or off
- c UP** Increases the temperature or adjusts the screen selection up when setting advanced features
- d DOWN** Decreases the temperature or adjusts the screen selection down when setting advanced features

On-Screen Indicators



On-Screen Indicators

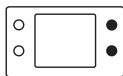
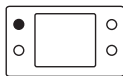
1. Fan mode – on or auto
2. System is in auxiliary (supplemental) mode
3. Current temperature
4. Thermostat mode is either off or using emergency heat
5. Fahrenheit
6. Keypad is locked (no padlock means unlocked)
7. Celsius
8. Battery strength indicator
9. Selected cooling set point; "on" indicates system is in cooling mode
10. Second stage of cooling is active

Operating the Thermostat

Setting the temperatures for heating and cooling

Your thermostat is installed with the heating set at 68° F and the cooling set at 72° F. You can use these or change them so your home is as warm or as cool as you would like it to be. These steps will hold the temperature where you set it.

1. To change the heating temperature, press the **mode** button on the left until the screen says *heat*.
2. Press the **up** or **down** button located on the right side of the display until you reach the desired temperature.
3. To change the cooling temperature, press the **mode** button on the left until the screen says *cool*.
4. Press the **up** or **down** button located on the right side of the display until you reach the desired temperature.



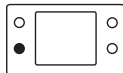
Operating the Thermostat

Using the fan

When the fan is on, it helps distribute air throughout your home for a more even temperature in all spaces. You can set the thermostat so that the fan runs only during your heating and cooling cycles (auto mode) or to run continuously.

The thermostat is set at the factory to run automatically as needed. Here's how to change the setting so it runs continuously.

1. Press the **fan** button on the left. The display message will change from *auto fan* to *fan on*.
2. To return the fan to auto mode, press the **fan** button again. You will see *fan auto* on the display.



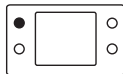
Using emergency heat (heat pump systems only)

Emergency heat is useful when the automatic auxiliary heat system can't keep up with demand. (Systems with heat pumps use “auxiliary heat” when it's too cold outside for the heat pump to heat the house without help. The display indicator for this is *aux heat on*.)

If the heat pump compressor that works with auxiliary heat fails, or if the heat pump isn't working at all, you can turn on the emergency heat for that extra help. (You'll know there's a problem if the house can't seem to get warm when it's very cold outside.) You want to avoid using emergency heat, though, because it's the most expensive option. And, of course, if you suspect a problem with your heat pump, call your heating and cooling dealer immediately.

Here's how to set your thermostat to use emergency heat.

1. Press the **mode** button repeatedly until you see *Em heat* in the upper left of the display.
2. To turn off emergency heat, press the **mode** button again to select *heat*, *cool* or *auto*.



Operating the Thermostat

Installing or replacing the batteries

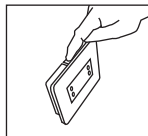
You can install batteries in your thermostat so that if the power goes out, the display will still show the indoor temperature.

In some situations, batteries are also the power source. Then, two AA batteries should last about one year. When the batteries have lost about one-third of their power, a battery icon appears on the display. Two-thirds of it will be black. As the batteries get weaker, the icon goes down to one black bar and then none. When the icon is empty, you will begin to lose thermostat functions when it is battery powered. When the batteries are completely dead, you won't be able to use the thermostat.

When using batteries for power, we recommend that you replace the batteries at the one bar level with two AA alkaline batteries. They're in the back of the thermostat, so you'll have to remove it from the wall.

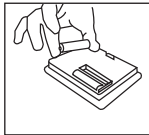
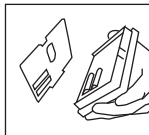
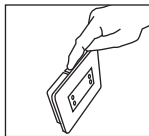
Here's how to both install and replace batteries.

1. Locate the **latch** at the top of the thermostat. It's at the center of the top rim.



Operating the Thermostat

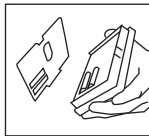
2. Press it down. This will disconnect the thermostat from the top of the wall plate.
3. Remove the thermostat from the **wall bracket** completely by bringing it slightly toward you and lifting it up and off the **lip** on the lower edge of the **wall bracket**.
4. Set the thermostat face down on a flat surface. You will see the batteries in the lower right corner.
5. Remove and discard the old batteries.
6. Install new batteries by matching the “plus” and “minus” ends of the batteries with the “plus” and “minus” indicators you’ll see outside the two white battery shapes in the space where the batteries sit.
7. Snap the batteries into place.
8. Put the thermostat back on the **wall bracket** by lining up the **slot** on the bottom edge of the back of the thermostat with the



Operating the Thermostat

lip on the **wall bracket**. You will feel the **slot** fit over the lip.

9. With the bottom of the thermostat attached to the bottom of the **wall bracket**, bring the thermostat back to the wall. Line up the **latch** at the top of the thermostat with the corresponding **lip** on the wall bracket.

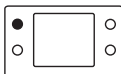


10. Lightly push the thermostat toward the wall. When the **latch** and **lip** are lined up properly, you will hear the thermostat snap into place.
11. Close the door.

Operating the Thermostat

Using the thermostat to turn the heating and cooling system off

To use the thermostat to turn the heating and cooling system off, press the **mode** button on the left repeatedly until the display shows *off* in the upper left.




Auto changeover

The thermostat uses one of five modes: heat, cool, Em heat (heat pump version only), auto, and off. When the mode selection is auto, the thermostat is in auto changeover mode. This allows the system to switch from heating to cooling – or from cooling to heating – to maintain the temperatures you've set. It does this automatically.

Advanced options display codes chart

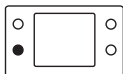
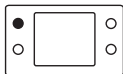
You can customize a few features of your thermostat. This chart shows which features you can change and the codes associated with them. The codes will be shown on the display when you follow the instructions.

Feature	Configuration Code	Change Indication
Fahrenheit to Celsius	U1	F or C
backlighting	U2	On or Of
keypad lockout	U3	Of, On, padlock 

Changing from Fahrenheit to Celsius

Your thermostat is preset to display the temperature in degrees Fahrenheit. You can change this to Celsius.

1. Press and hold the **mode** button for about three seconds. The display will show *U1* and the letter *F* in the center.
2. Press the **up** or **down** button on the right to change it from *F* (Fahrenheit) to *C* (Celsius).
3. Press the **fan** button on the left to exit this screen.

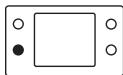
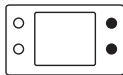


Turning on the continuous backlighting

The thermostat display lights up for a few seconds after you press any button. This is backlighting. It will go dark after a few seconds.

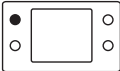
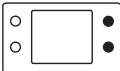
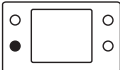
If the thermostat is powered by electricity, it is possible to have a constant low level amount of backlighting until you press any button, which increases the lighting temporarily. Here's how to turn on the constant backlight when your thermostat is powered by electricity.

1. Press and hold the **mode** button for about three seconds. The display will show *U1* and the letter *F* in the center.
2. Press the **mode** button twice. The display will show *U2* and *Off*.
3. Press the **up** or **down** button on the right to change it from *Off* to *On*.
4. Press the **fan** button on the left to exit this screen.



Keypad lockout

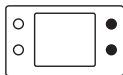
The keypad lockout feature lets you “lock” the thermostat so nobody can change the temperature – or make any other changes – by pressing buttons. Keypad lockout is not activated when the thermostat is installed. Here’s how to activate it.

1. Press and hold the **mode** button for about three seconds. The display will show *U1* and the letter *F* in the center.
2. Press the **mode** button until the display shows *U3* and *Of*.
3. Press the **up** or **down** button on the right to change it from *Of* to *On*. You will also see a padlock, which indicates the keypad is locked.
4. Press the **fan** button on the left to exit this screen.

Unlocking the keypad

Here's how to temporarily unlock the keypad.

1. Press and hold the **up** and **down** buttons on the right simultaneously for about five seconds.
2. The *padlock icon* will disappear. This means the keypad is unlocked and can be used. The keypad will revert back to the locked state after you've stopped pushing buttons for two minutes.



The battery icon is displayed

The battery icon appears on the display only when the battery starts to lose power. Replace it when one-third of the icon is black. If your thermostat is battery powered and you wait until the icon is just a silhouette with no black bars, you will slowly lose thermostat functions until it doesn't work at all.

“Aux heat on” is displayed (heat pump systems only)

Aux heat on is auxiliary heat. It applies only to the heat pump version. If it is on, you will see *aux heat on*. When it is displayed, it means the system has determined that it's too cold outside for your heat pump to heat the house without help, so it's getting help from the electric heaters. This happens automatically.

“Em heat” is displayed (heat pump systems only)

Em heat is the display term for emergency heat and applies only to the heat pump version. You have to turn on emergency heat manually – it doesn't happen automatically – so if you see *Em heat* on the display, it means somebody has turned it on.

There is a power outage

If you lose electricity and have batteries installed, the thermostat will continue to display the indoor temperature because it has a battery backup power source. This means that even though your heating and cooling system doesn't work, you will still be able to monitor your home's temperature.

You get a system error message

Here are the possible system error messages and what they mean:

- The room air sensor reports that the room air temperature is above 150° or below -50°.
- E4 The memory has failed and the thermostat will return to the default factory settings. Call your heating and cooling dealer.

Auto changeoverpage 14

This feature automatically switches your system from heating to cooling – or from cooling to heating – whenever necessary.

Auxiliary heat (heat pump systems only)page 10

Most heat pump systems can't heat a home sufficiently when it gets very cold outside so they use a supplemental heating source called auxiliary heat. The system knows when to use this help and does so automatically. If it's using auxiliary heat, the display will show *aux heat on*. You have no control over the auxiliary heat function.

Backlightingpage 17

Backlighting illuminates your display when you push a button.

Emergency heat (heat pump systems only)page 10

You can manually set the thermostat to use emergency heat but it is the most expensive option. If it's using emergency heat, the display will show *Em heat*.

Modepage 14

This term refers to the type of operation your system is performing. The options are heat, cool, emergency heat, auto, and off.

Thermostat Limited Warranty

FOR SERVICE OR REPAIR, FOLLOW THESE STEPS IN ORDER:

FIRST: Contact the installer. You may find their name on the furnace or in your Homeowner's Packet. If the installer's name is not known, call your builder or home retailer if yours is a new residence.

SECOND: Contact the nearest distributor. (See yellow pages.)

THIRD: Contact:
Carrier Corporation
Consumer Relations
P.O. Box 4808
Syracuse, New York 13221
Phone: 1-800-428-4326

Model No. _____

Unit Serial No. _____

Date of Installation _____

Installed by _____

Name of Owner _____

Address of Installation _____

THERMOSTAT LIMITED WARRANTY

FIVE-YEAR LIMITED WARRANTY – Carrier Corporation (hereinafter referred to as “Company”) warrants this product to be free from defects in material and workmanship. If a defect is found within five years from date of original installation of product (whether or not actual use begins on that date) Company will provide a new or remanufactured part, at Company's sole option, to replace any defective part, without charge for the part itself.

This warranty does not include labor or other costs incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts or replacement parts.

WARRANTY CONDITIONS:

1. Warranties apply only to products in their original installation location.
2. Installation, use, care, and maintenance must be normal and in accordance with instructions contained

Thermostat Limited Warranty

- in the Owner's Manual and Company's service information.
3. Defective parts must be returned to the distributor through a registered servicing dealer for credit.
 4. All work shall be performed during normal working hours.

LIMITATIONS OF WARRANTIES – ALL IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) ARE HEREBY LIMITED IN DURATION TO THE PERIOD FOR WHICH THE LIMITED WARRANTY IS GIVEN AND APPLIES. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESSED WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON, WHATSOEVER.

COMPANY WILL NOT BE RESPONSIBLE FOR:

1. Normal maintenance as outlined in the installation and servicing instructions or Owner's Manual, including filter cleaning and/or replacement and lubrication.
2. Damage or repairs required as a consequence of faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
3. Failure to start due to voltage conditions, blown fuses, open circuit breakers, or damages due to the inadequacy or interruption of electrical service.
4. Damage as a result of floods, winds, fires, lightning, accidents, corrosive environments or other conditions beyond the control of Company.
5. Parts not supplied or designated by Company, or damages resulting from their use.
6. Company products installed outside the continental U.S.A., Alaska, Hawaii, and Canada.
7. Electricity or fuel costs, or increases in electricity or fuel costs from any reason whatsoever, including additional or unusual use of supplemental electric heat.
8. **ANY SPECIAL INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER.** Some states do not allow the exclusion of incidental or consequential damages, so the above limitation 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.



Infinity™ Air Purifier Offers Healthier Air for the Entire Home

The Infinity™ Air Purifier is Carrier's premier air purification solution. It's ideal for homeowners with allergy concerns, those susceptible to airborne germs – such as infants and the elderly – and those sensitive to the effects of molds, pollen, pets and more. And, it is an integral component to Carrier Healthy Home Solutions.

- The Infinity Air Purifier's patented technology is so effective it even captures and kills airborne pathogens such as bacteria, viruses and mold.
- Its exclusive technology is also trusted to protect secure government facilities and hospital room patients.
- The Infinity Air Purifier cleans over 100 times more air than some of the popular portable units – and can clean your entire home.
- It's convenient -- no cleaning is required. Simply remove and replace the media cartridge periodically to maintain peak performance.



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OM-TCNHP-2CA

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