



Follow the <u>Installation Instructions</u> before proceeding. Set the thermostat mode to "OFF" prior to changing settings in setup or restoring Factory Defaults.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.





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# **Glossary of Terms**

**Auto-Changeover:** A mode in which the thermostat will turn on the heating or cooling based on room temperature demand.

**Cool Setpoint:** The warmest temperature that the space should rise to before cooling is turned on (without regard to deadband).

**Deadband:** The number of degrees allowed past setpoint, before energizing heating or cooling.

**Differential:** The forced temperature difference between the *heat set-point* and the *cool setpoint*.

**Heat Setpoint:** The coolest temperature that the space should drop to before heating is turned on (without regard to deadband).

**Icon:** The word or symbol that appears on the thermostat display.

**Mode:** The current operating condition of the thermostat (i.e. Off, Heat, Cool, Auto, Program On).

**Non-Programmable Thermostat:** A thermostat that does not have the capability of running *Time Period Programming*.

**Programmable Thermostat:** A thermostat that has the capability of running *Time Period Programming*.

Temperature Swing: Same as Deadband.

**Time Period Programming:** A program that allows the thermostat to automatically adjust the *heat setpoint* and/or the *cool setpoint* based on the time of the day. *Same as Schedule.* 

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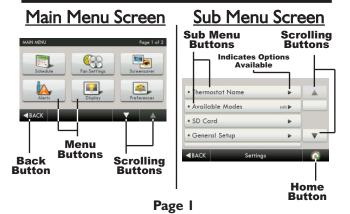
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# **Get To Know Your Thermostat**

# Home Screen Backlit Color Touchscreen Display With high & low temps for the day (If optional sensor is installed) Warmer Button Fan Button Warmer Button SD Card — Slot Footprof | South | Sout



# **Get To Know Your Thermostat**

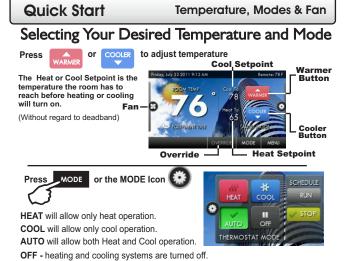
# Care and Use of Your Thermostat

Pencils, pens and other sharp objects should never be used on your ColorTouch thermostat; these may damage your touchscreen. Only use your finger tip to press the touchscreen buttons.



Use a soft, damp cloth to clean the screen.

DO NOT USE ABRASIVE CLEANERS OR CLEANERS THAT CONTAIN SOLVENTS. DO NOT SPRAY ANYTHING DIRECTLY ONTO THE THERMOSTAT.



 $\label{eq:schedule} \textbf{SCHEDULE RUN/STOP -} turns time period schedule on or off.$ 

**AUTO-CHANGEOVER MODE** - Pressing the WARMER or COOLER buttons in Auto mode will adjust **both** the heat and cool setpoints simultaneously. To adjust heat and cool setpoints individually, choose HEAT mode to adjust the heat setpoint and COOL mode to adjust the cool setpoint, then return to AUTO mode.

**HEAT OR COOL MODE** - Pressing the WARMER or COOLER buttons in Heat or Cool mode will adjust only the heat  $\underline{or}$  cool setpoints.

# Using the Fan Button

Press FAN or the FAN Icon

**FAN ON** fan runs constantly, except in OFF or Schedule Run Mode.

**FAN AUTO** fan only runs with a heating or cooling demand.

NOTE: FAN button is disabled during Program Run Mode.

ON FAN MODE

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# **Quick Start**

Override

# Using The Override Button

OVERRIDE

NOTE: Override may only be used when the thermostat is set to Program RUN or Holiday ON modes.



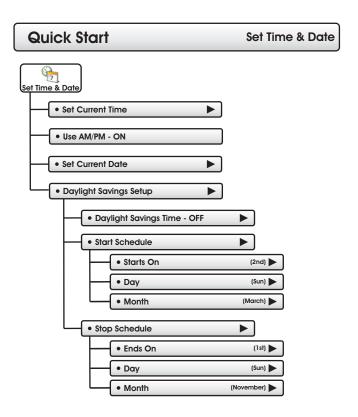
Override

Unoccupied Operation - During programmed, unoccupied periods, pressing the OVERRIDE button will force the thermostat into Occupied 1 settings. When the OVERRIDE button is pressed, a timer screen will appear and allow the user to choose from 30 minutes to up to 4 hours of override time.

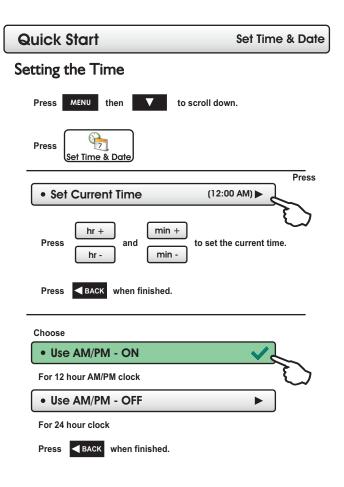
To turn off the override timer, press the **OVERRIDE** button and when the timer screen appears, press **CANCEL OVERRIDE**.

Occupied Operation - During programmed, occupied periods, pressing the OVER-RIDE button will force the thermostat into an unoccupied period for the rest of the day. During this forced unoccupied period the OVERRIDE button will operate as described above.

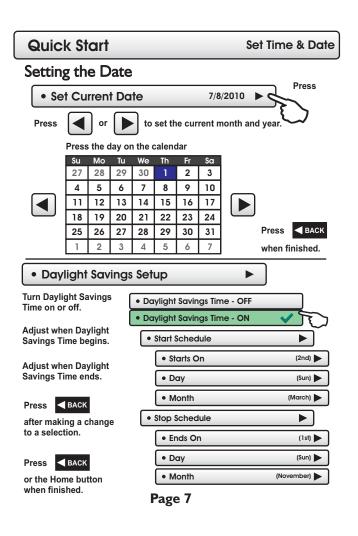
Holiday Operation - During Holiday Mode, pressing the OVERRIDE button will force the thermostat into Occupied 1 settings. When the OVERRIDE button is pressed, a timer screen will appear and allow the user to choose from 30 minutes to up to 4 hours of override time. To turn off the override timer, press the OVERRIDE button and when the timer screen appears, press CANCEL OVERRIDE.

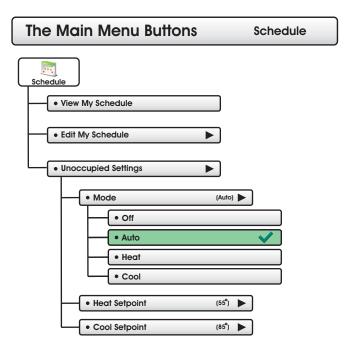


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Schedule



This thermostat features up to 3 Occupied time periods per 24 hour day.

# • View My Schedule

Press a day of the week to view its settings. This may be repeated for each day.



### Edit My Schedule

Press and select day(s) to program



#### Then press NEXT

Press and select a Time Period (Occupied 1, Occupied 2, or Occupied 3) to edit.

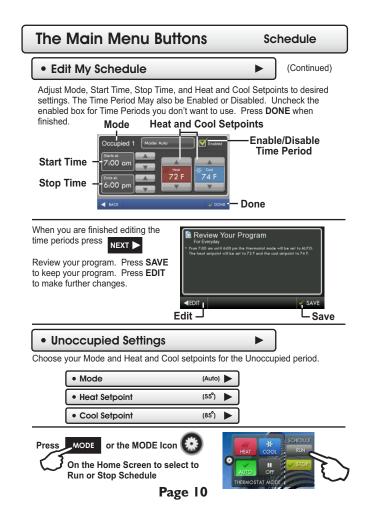
#### TIP:

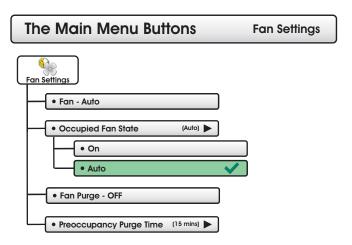
Occupied 2 will override
Occupied 1 and Occupied 3
will override Occupied 1 & 2.



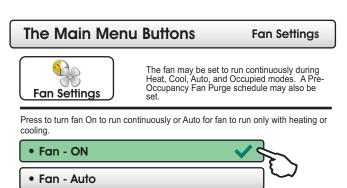
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Press to turn fan  ${\bf On}$  to run continuously during Occupied mode or  ${\bf Auto}$  for fan to run only with heating or cooling.

(On)

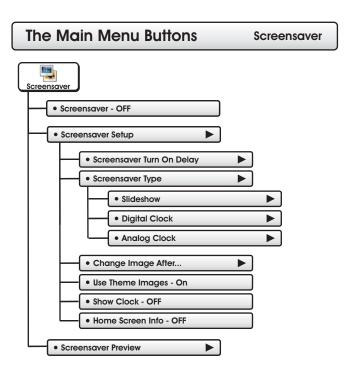


Occupied fan state

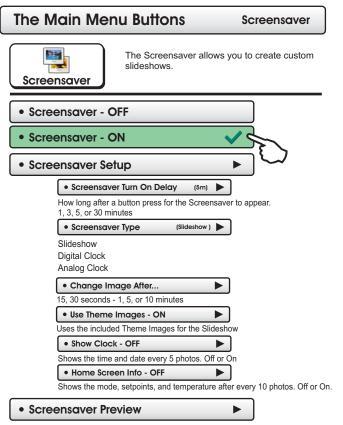
Press to turn on Preoccupancy Fan Purge. This feature allows the fan to run for a preset amount of time before Occupied 1 begins.

Preoccupancy Purge Time (15 mins) ▶

The Preoccupancy Fan Purge timer may be set from 15 minutes to 3 hours in 15 minute increments.



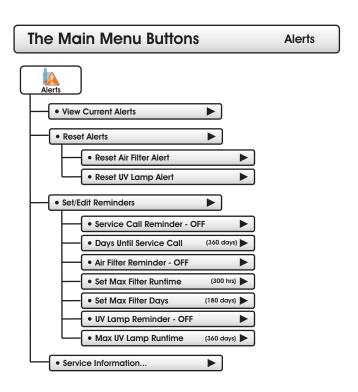
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Press this button to preview your screensaver operation before returning to the Home Screen.

After the preview, press anywhere on the screen to return to the sub menu.

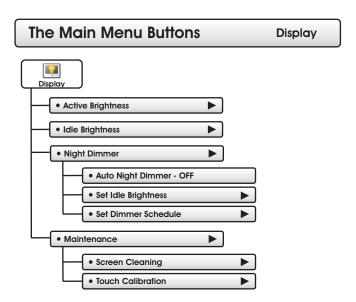
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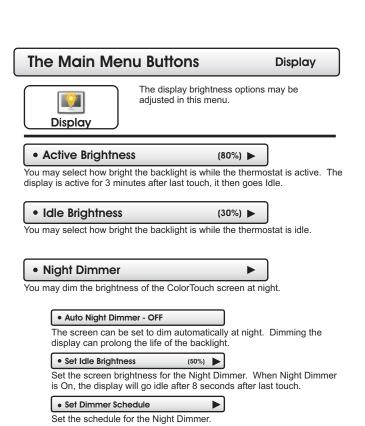
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Maintenance allows you to clean and calibrate the ColorTouch Screen.



Screen Cleaning Mode disables the touch feature for 15 seconds so the screen may be cleaned without altering any settings.

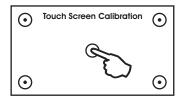


Use a soft cloth without solvents or abrasive cleaners



Under normal circumstances, the ColorTouch touchscreen should not need to be calibrated.

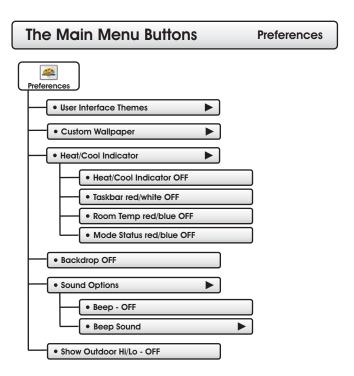
Touch the center of the targets as they appear on the screen.



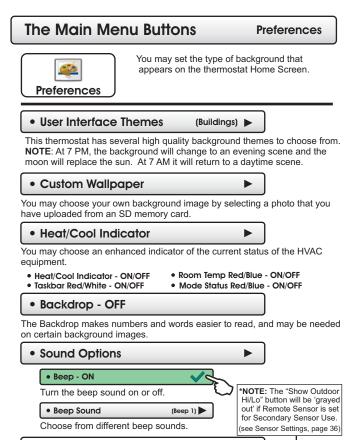
Press FINISH when done.

When calibration is complete, the thermostat will automatically restart and return to the Home Screen.

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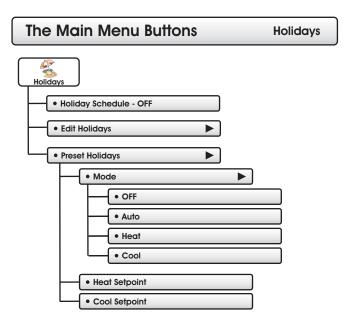


Choose to display or hide the high and low outdoor temperatures of the day on

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Show Outdoor Hi/Lo - OFF

the Home Screen.



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# The Main Menu Buttons

# **Holidays**



The Holiday Schedule allows the ColorTouch to follow a fully customizable preset, weekly, monthly, and yearly holiday program. The thermostat will stay in Unoccupied settings while Holiday is active.

#### • Holiday Schedule - OFF

Press to turn Holiday Schedule On or Off.

#### Edit Holidays

Start by selecting a Holiday.

You may continue to select more holidays or you can press the **Repeat** button for recurring holidays.

Pressing a selected holiday will deselect that holiday.

# 

# Using the Repeat Button

Choose to repeat the holiday every week, month or year. Or, press **CANCEL** to go back.

If you choose to repeat the holiday every week, you will be prompted to confirm the day of the week to be repeated.



# Using the Info Button

Press the **Info** button to view how non-holidays, holidays, and exceptions to repeating holidays will appear on the Holiday calendar.

# The Main Menu Buttons

**Holidays** 

### • Edit Holidays

(Continued)

### **Deselecting Holidays**

You may deselect a holiday simply by pressing on it.

Press **BACK** to save your changes and return to the Holiday menu.

If you choose to deselect a holiday that is part of a Custom Repeating Program, the screen below will appear.



#### **Marking Non-Holidays**

You will now be prompted to mark this day only as a non-holiday or edit All repeating holidays that affect this day.

Press **SAVE** to mark only this day as a non-holiday.



If you choose to edit repeating holidays that affect this day, press **NEXT** and the next screen will appear.

#### **Editing Repeating Holidays**

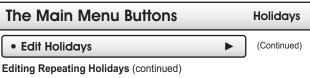
If, for example, you choose to repeat the holiday every month, the following screen will appear:

You may now choose to repeat the holiday:

- On the 25th of every month
  On the 4th Monday of every month
  On the last Monday of every month



Press SAVE to save your changes and return to Holiday programming.



You may now delete all repeating custom holidays in this group by pressing the ON box to uncheck your selection. Press **SAVE** to return to Holiday editing screens.





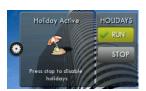
You may choose from several standard preset holidays to observe. When the preset holidays are set to  $\mathbf{ON}$ , they will be observed every year on that

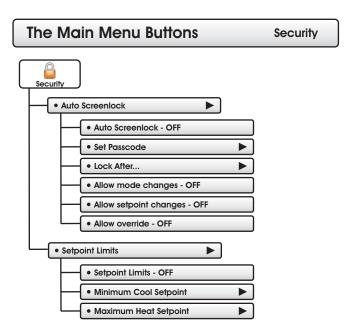
## **Overriding Holiday Mode**

You may override Holiday Mode by pressing the OVERRIDE button and choosing the amount of override time desired.

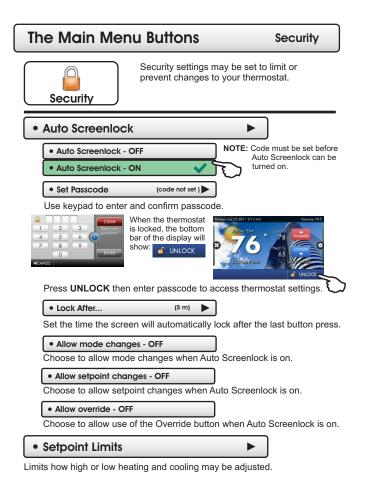
# Turning Off Holiday Mode From The Homescreen

You may turn off Holiday Mode by pressing the **MODE** button and then pressing the Holiday **STOP button**.

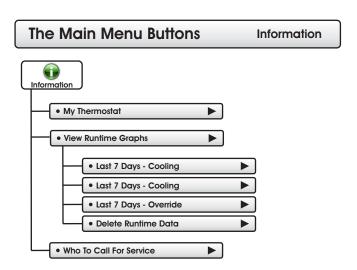


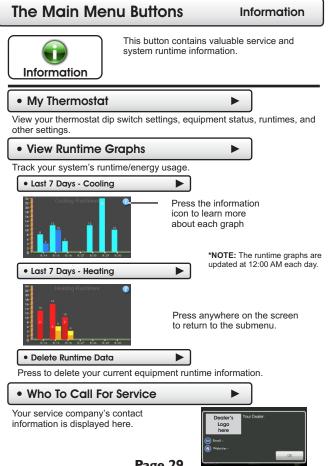


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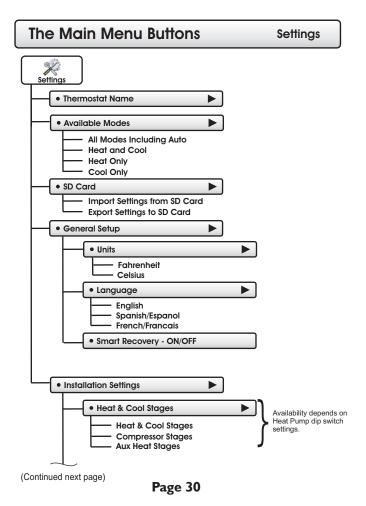


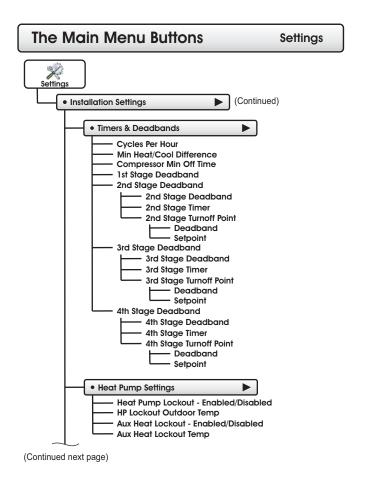
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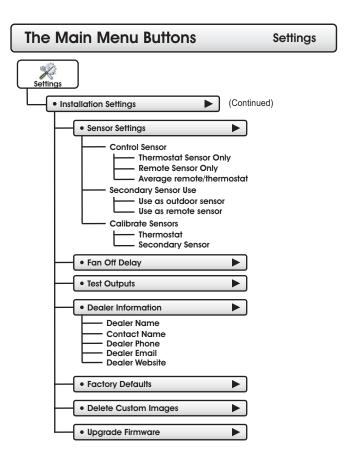


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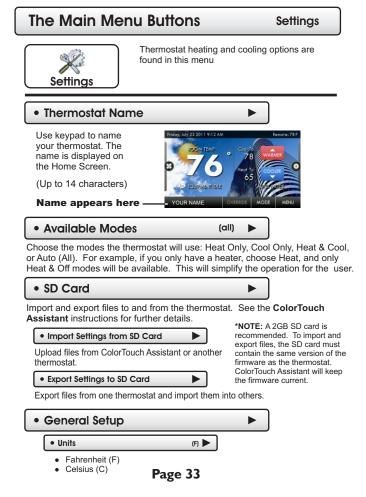


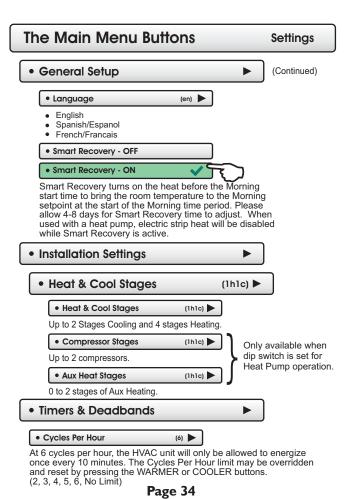


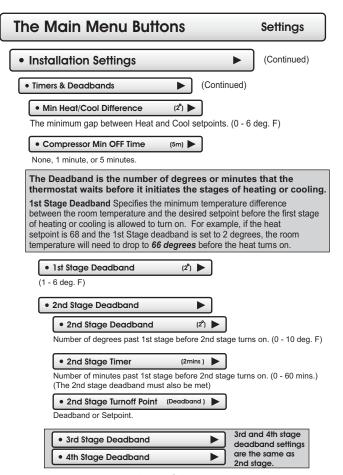
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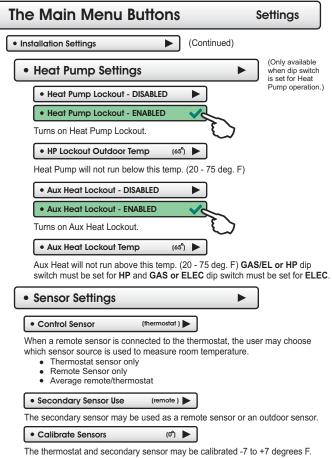
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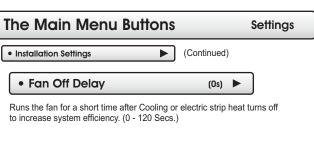




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Test Outputs

The installer or service technician can use this feature to test the functions without any time delays of the thermostat and heating and cooling equipment.



With a 1st stage cooling call, Y1 and G are active -

# The Main Menu Buttons

Settings

#### • Dealer Information

The Dealer may enter their company contact information for the customer to use when they need service. This will appear in the "Who To Call For Service" button is pressed in the Information Menu.

Press the buttons below and use the keyboard to enter your information





Please use ColorTouch Assistant to add Dealer's logo. (See Page 40)

#### Factory Defaults

Press to reset the thermostat back to the factory settings. This will also delete all of the custom images.

# • Delete Custom Images

Press to delete the custom photos you uploaded to the thermostat.

# Upgrade Firmware

Press to upgrade the thermostat firmware. The SD Card must be in the thermostat SD Card reader and contain the valid firmware. If an error message appears, confirm with ColorTouch Assistant that firmware is up to date or simply try reinserting the SD card.

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## The Main Menu Buttons

#### **Emergency Heat**



The Emergency Heat function is only available if your thermostat is set to control a Heat Pump.

To initiate the Emergency Heat feature, Press the Emergency Heat button. During Emergency Heat operation the thermostat will turn on the fan and auxiliary stages of heat when there is a demand for heat. The 1st stage of heating and all stages of cooling will be unavailable. To exit Emergency Heat, press the Emergency Heat button.



# **ColorTouch Assistant**

ColorTouch Assistant may be downloaded at no charge at:

www.venstar.com/thermostats/colortouch/assistant/



Every time the user runs the ColorTouch Assistant software, it automatically connects to Venstar's ColorTouch Web site in the background and updates the software and firmware (the operating system for ColorTouch) at no cost.

The ColorTouch Assistant allows you to use your computer to:

- Upload photos for background and slideshow images
- Program a time period schedule
- Configure installation settings
- Upload dealer and service contact information and company logo
- Update thermostat firmware

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# The ColorTouch Assistant

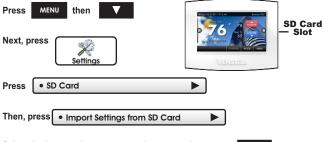
#### **Uploading Photos and Settings to your thermostat**

When you are finished adding and editing photos and settings, click on **Save to SD**. When prompted, remove the SD card from the SD card reader on your computer.



#### At the thermostat:

Insert the SD card into the SD Card Slot.



Select the items to import to your thermostat then press NEXT >

Your thermostat will automatically save your new photos and settings in it's internal memory. When finished, you may remove the SD card. It is not needed for normal thermostat operation.

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## Remove & Replace the Old Thermostat

To install the thermostat properly, please follow these step by step instructions. If you are unsure about any of these steps, call a qualified technician for assistance.

Assemble tools: Flat blade screwdriver, wire cutters and wire strippers.

- Make sure your Heater/Air Conditioner is working properly before beginning installation of the thermostat.
- Carefully unpack the thermostat. Save the screws, any brackets, and instructions.
- Turn off the power to the Heating/Air Conditioning system at the main fuse panel. Most residential systems have a separate breaker for disconnecting power to the furnace.
- Remove the cover of the old thermostat. If it does not come off easily, check for screws.
- Loosen the screws holding the thermostat base or subbase to the wall and lift away.
- Disconnect the wires from the old thermostat. Tape the ends of the wires as you disconnect them, and mark them with the letter of the terminal for easy reconnection to the new thermostat.
- Keep the old thermostat for reference purposes, until your new thermostat is functioning properly.

# **Wire Connections**

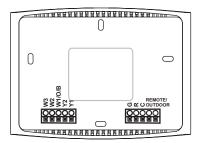
If the terminal designations on your old thermostat do not match those on the new thermostat, *refer to the chart below or the wiring diagrams that follow.* 

Wire from the old thermostat terminal marked	Function	Install on the new thermostat connector marked
G or F	Fan	G
Y1, Y	Cooling	Y1
W1, W or H	Heating	W1/O/B
Rh, R, M, Vr, A	Power	R
С	Common	С
O/B	Rev. Valve	W1/O/B*
W2	2nd Stage Heat	W2
Y2	2nd Stage Cooling	Y2
W3	3rd Stage Heat	W3
OUT -	Outdoor Sensor	REMOTE/OUTDOOR
OUT +	Outdoor Sensor	REMOTE/OUTDOOR
S1	Remote Sensor	REMOTE/OUTDOOR
S2	Remote Sensor	REMOTE/OUTDOOR

<sup>\*</sup> O/B is used if your system is a Heat Pump.

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# The Color Touch Thermostat Backplate

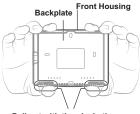


NOTE:
The backplate does not fully cover a full size vertical junction box. The ACC-WPLWH ColorTouch Wallplate or a single-gang, horizontally mounted junction box would be needed for that type of installation.

### To remove the thermostat backplate:

Using the Finger Pull Areas, pull the front housing away from the backplate.





Look for these tabs to locate the pull areas

Pull out with thumbs in these areas

W3	3rd stage heat circuit/2nd stage aux heat
W2	2nd stage heat circuit/1st stage aux heat
W1/	O/B 1st stage heat circuit/reversing valve
Y2	2nd stage compressor relay
<u>Y1</u>	1st stage compressor relay

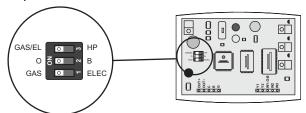
G	Fan relay
R	24 VAC return
С	24 VAC common
REMOTE/	Remote/Outdoor
OUTDOOR	sensor connections

IMPORTANT: This thermostat requires <u>both</u> R (24 VAC Return) and C (24 VAC Common) be connected to the backplate terminals.

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# **Explanation of Thermostat Dip Switches**

Dip switches are located on the back of the thermostat





This dip switch configures the thermostat to control a conventional gas/electric system or a heat pump. If your system is anything other than a heat pump, leave this switch set for GAS/EL.\*

\*For some commercial heat pumps, this switch may need to be set for GAS/EL. Consult the commercial heat pump literature.



When the <u>GAS/EL or HP</u> dip switch is configured for HP, this dip switch (O or B) must be set to control the appropriate reversing valve. If O is chosen, the W1/O/B terminal will energize in cooling. If B is chosen, the W1/O/B terminal will energize in heating.



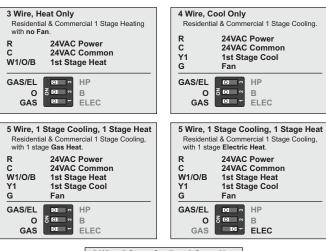
#### \*When GAS/EL or HP is set for GAS/EL:

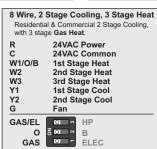
This switch (GAS or ELEC) controls how the thermostat will control the Fan (G) terminal in heating mode. When GAS is chosen, the thermostat will not energize the Fan (G) terminal in heating. When ELEC is chosen the thermostat will energize the fan in heating.

\*When GAS/EL or HP is set for HP:
This switch (GAS or ELEC) defines the Aux Heat type.
When GAS is chosen, the auxiliary heat will not be
allowed to run during heat pump operation.
When ELEC is chosen, up to two stages of auxiliary
strip heat will be allowed to run.

# Sample Wiring Diagrams with Dip Switch Positions

**Conventional Heating and Cooling Systems** 

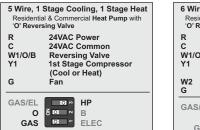


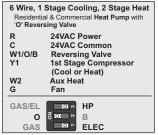


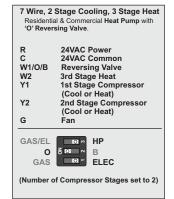
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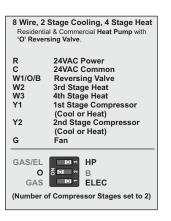
# Sample Wiring Diagrams with Dip Switch Positions

#### **Heat Pump Systems**







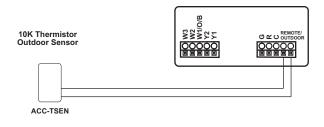


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# Sample Wiring Diagrams

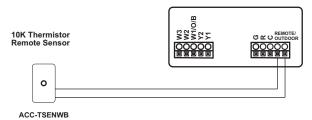
**Outdoor Sensor: ACC-TSEN Temperature Sensor** 10K ohm sensor at 77F/25C. Negative Temperature Coefficient.

Use 18-22 gauge thermostat wire.



Indoor Remote Sensor with Override Button: ACC-TSENWB Temperature Sensor 10K ohm sensor at 77F/25C. Negative Temperature Coefficient. (see page 36 for sensor setup instructions)

Use 18-22 gauge thermostat wire.



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## **Troubleshooting**

➤ <u>SYMPTOM</u>: The thermostat touchscreen buttons are not responsive. <u>CAUSE</u>: The touchscreen is out of calibration.

<u>REMEDY</u>: Remove the thermostat from the backplate. Push the thermostat back onto the backplate, while keeping your finger pressed firmly against the center of the touchscreen, until the Calibration screen appears. Re-calibrate the Touchscreen.

➤ <u>SYMPTOM</u>: The display is blank.

<u>CAUSE</u>: Lack of proper power.

<u>REMEDY</u>: Make sure the power is on to the furnace and that you have 24vac between R & C.

SYMPTOM: The air conditioning does not attempt to turn on. CAUSE: The cooling setpoint is set too high. REMEDY: Lower the cooling setpoint or lower the cooling setpoint limit. See Setpoint Limits (page 27).

SYMPTOM: The heating does not attempt to turn on. CAUSE: The heating setpoint is set too low. REMEDY: Raise the heating setpoint or raise the heating setpoint limit. See Setpoint Limits (page 27).

SYMPTOM: When controlling a residential heat pump, and asking for cooling, the heat comes on.
CAUSE: The thermostat reversing valve dip switch is set for "B".
REMEDY: Set the reversing valve dip switch for "O".

► <u>SYMPTOM:</u> When calling for cooling, both the heat and cool come on.

<u>CAUSE:</u> The thermostat equipment dip switch is configured for "HP" and the HVAC unit is a Gas/Electric.
<u>REMEDY:</u> Set the equipment dip switch for "Gas".

➤ <u>SYMPTOM:</u> Air handler control board fuse blows when thermostat is attached to backplate with power on, but does not blow until the thermostat is placed onto the backplate.

**<u>CAUSE:</u>** The Outdoor/Remote sensor and/or sensor wiring is shorted.

REMEDY: Check/replace Outdoor/Remote sensor and/or sensor wiring.

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## Warranty

One-Year Warranty - This Product is warranted to be free from defects in material and workmanship. If it appears within one year from the date of original installation, whether or not actual use begins on that date, that the product does not meet this warranty, a new or remanufactured part, at the manufacturer's sole option to replace any defective part, will be provided without charge for the part itself provided the defective part is returned to the distributor through a qualified servicing dealer.

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. Such costs may be covered by a separate warranty provided by the installer.

THIS WARRANTY APPLIES ONLY TO PRODUCTS IN THEIR ORIGINAL INSTALLATION LOCATION AND RECOMES VOID LIPON REINSTALLATION

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

ALL WORK UNDER THE TERMS OF THIS WARRANTY SHALL BE PERFORMED DURING NORMAL WORKING HOURS. ALL REPLACEMENT PARTS, WHETHER NEW OR REMANUFACTURED, ASSUME AS THEIR WARRANTY PERIOD ONLY THE REMAINING TIME PERIOD OF THIS WARRANTY.

THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR:

- Normal maintenance as outlined in the installation and servicing instructions or owner's manual, including filter cleaning and/or replacement and lubrication.
- Damage or repairs required as a consequence of faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
   Failure to start due to voltage conditions, blown fuses, open circuit breakers or other
- Failure to start due to voltage conditions, blown fuses, open circuit breakers or other damages due to the inadequacy or interruption of electrical service.
- Damage as a result of floods, winds, fires, lightning, accidents, corrosive environments or other conditions beyond the control of the Manufacturer.
- Parts not supplied or designated by the Manufacturer, or damages resulting from their use.
   Manufacturer products installed outside the continental U.S.A., Alaska, Hawaii, and
- Manufacturer products installed outside the continental U.S.A., Alaska, Hawaii, and Canada.
- Electricity or fuel costs or increases in electricity or fuel costs for any reason whatsoever including additional or unusual use of supplemental electric heat.
- 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 may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.



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