





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



CAUTION

NEVER PUT MORE THAN ONE JUMPER ON THE SAME MISC JUMPER BLOCK!

THIS MAY DAMAGE YOUR THERMOSTAT.



NOTE: Due to variations in environmental conditions, it is not always possible to achieve the desired humidification or dehumidification setpoint.

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.





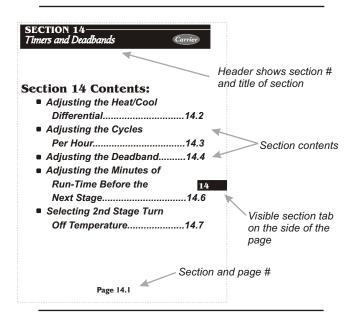
Page i

How to Use This Manual



The Table of Contents divides the thermostat features into sections making it easier to quickly find information.

The first page of each section contains a more detailed list of the contents withing that section, such as the example page shown below.



In addition, this manual also has an Index to help you find any information regarding this thermostat quickly.

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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.

Configurable Output Jumper: Using jumpers on the thermostat you can configure the MISC1, MISC2, and MISC3 terminals to control humidification, dehumidification, 2nd stage cooling, and 3rd stage heating.

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

Deadband: The number of degrees the thermostat will wait, once setpoint has been reached, before energizing heating or cooling.

Dehumidify: To reduce the amount of moisture in the air.

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

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

Humidify: To increase the amount of moisture in the air. **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 the *Time Period Programming*.

Programmable Thermostat: A thermostat that has the capability of running the *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 day.

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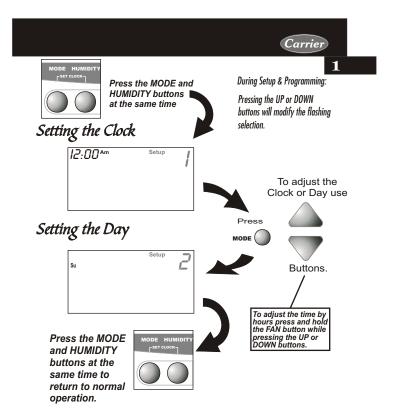


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Selecting the Heat or Cool	
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Note: Following the instructions in this section will allow you to operate your thermostat using the factory default settings. These settings are depicted in the illustrations throughout this manual.

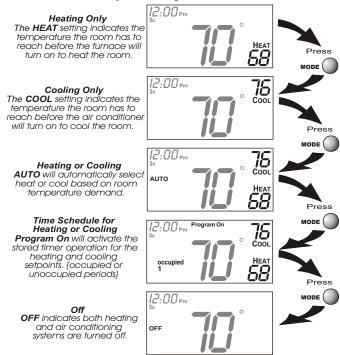


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1 Selecting the Heat or Cool Mode

Select Mode by Pressing the MODE Button



Page 1.3

Selecting Your Desired Temperature (adjusting the setpoints)

AUTO OR PROGRAM MODE

Pressing the UP or DOWN buttons in Auto $\underline{\mathbf{or}}$ Program mode will adjust **both** the heat and cool set temperatures simultaneously.



Adjust the desired set temperature with the



buttons.

HEAT OR COOL MODE

Pressing the UP or DOWN buttons in Heat \underline{or} Cool mode will adjust only the heat or cool set temperature.



Adjust the desired set temperature with the



buttons

Using the Fan Button



Press FAN

Fan On indicates constant fan operation. If Fan On is selected the fan will run continuously at all times, except in Off, and will only run if there is a heating or cooling demand in Unoccupied periods. Pressing the FAN button toggles this feature on or off.

Page 1.4

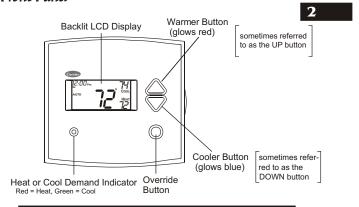
SECTION 2— Getting to Know Your Thermostat Carrier

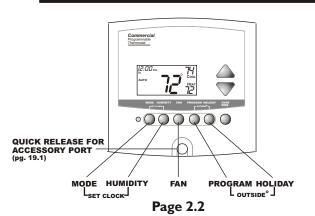
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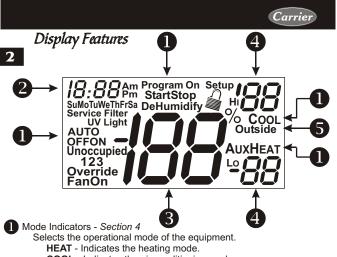
Sec	tion 2 Contents:	
•	Front Panel Buttons	2.2
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Front Panel







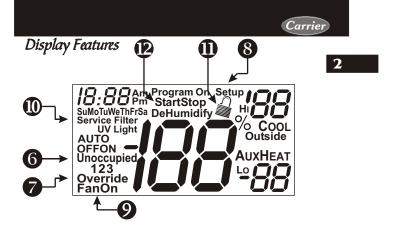
COOL - Indicates the air conditioning mode.

AUTO - Indicates the system will automatically changeover between heat and cool modes as the temperature varies.

OFF - Indicates heating and cooling is turned off.

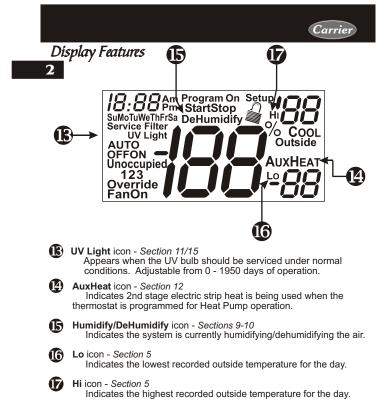
PROGRAM ON - Indicates the time period program is enabled to

- 2 Clock with Day of the Week Section 3 Indicates the current time and day. This clock is also used to program the timer periods.
- Room Temperature Display Section 5 Indicates the current room temperature and displays the outside temperature when selected.
- 4 Desired Set Temperature Section 4/5 Indicates desired room temperature(s). Also displays the daily highest and lowest outside temperatures.
- **Outside** icon Section 5 Indicates the temperature displayed is from the optional outside Page 2.3 sensor.



- 6 Occupied & Unoccupied icons Section 6
 - Indicates the program number: Occupied 1,2,3,or Unoccupied.
- Override icon Section 6
 Indicates the program is currently being overridden for up to 4 hours.
- **Setup** icon Sections 7-15 Indicates the thermostat is in the setup mode.
- Fan On icon Section 7 Indicates constant, continuous fan operation. When Fan On is not lit - indicates the fan will only operate when necessary to heat or to cool.
- Service Filter icon Section 15
 Appears when the filter should be serviced under normal conditions.
 Adjustable from 0 1950 hours of blower operation.
- icon Section 8 Indicates keypad has been locked.
- StartStop icon Section 6
 Appears when programming occupied time periods.

Page 2.4



Page 2.5

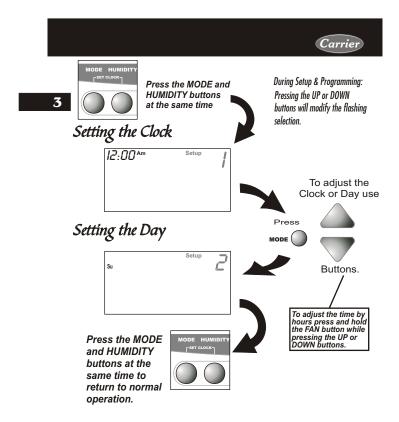
SECTION 3 Setting the Clock and Day Carrier

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Note: During setup & programming pressing the UP or DOWN buttons will modify the flashing selection.

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SECTION 4— Basic Operation Carrier

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Section 4 Contents:

Programming for Auto or	
Program Operation	4.2
Selecting the Proper	
Operating Mode	.4.3
Selecting Your Desired	
Temperature	4 8

Note: During setup & programming pressing the UP or DOWN buttons will modify the flashing selection.

Page 4.1



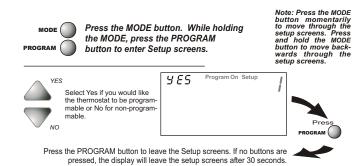
Programmable or Non-Programmable Thermostat



When the <u>very simplest</u> operation is desired, this thermostat may be configured to be non-programmable, with or without Auto-Changeover. Follow the step below.

If 'NO' is selected, the thermostat will lockout the Program On screen; only the Off, Heat, Cool, and Auto screens may be accessed by pressing the MODE button.

Select 'YES' if you would like your thermostat to be **programmable**, then the Program mode will be accessible through the use of the MODE button.



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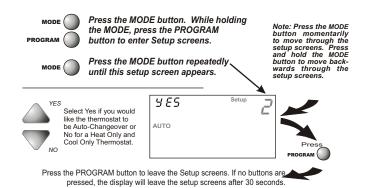


Manual or Auto-Changeover Thermostat

When the <u>very simplest</u> operation is desired, this thermostat may be configured to be a manual heat and cool thermostat, with or without time period programmability. Follow the step below.



The thermostat may be programmed to function as a Heat Only or Cool Only thermostat by selecting 'NO' in the setup screen below. This will lockout the Auto-Changeover screen and only allow the Off, Heat, Cool, and Program On screens to be accessed.



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NON-PROGRAMMABLE WITH MANUAL-CHANGEOVER - If the thermostat is configured to be a non-programmable thermostat with Manual-Changeover, the following screens will be available by pressing the MODE button.

Select the Mode by Pressing the MODE Button

Heating Only The HEAT setting indicates the temperature the room has to reach before the furnace will turn on to heat the room. Cooling Only The COOL setting indicates the temperature the room has to reach before the air conditioner will turn on to cool the room. Off OFF indicates both heating and air conditioning systems are turned off.

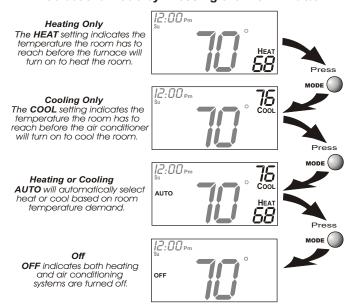
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NON-PROGRAMMABLE WITH AUTO-CHANGEOVER - If the thermostat is configured to be a non-programmable thermostat with Auto-Changeover, the following screens will be available by pressing the MODE button

4

Select the Mode by Pressing the MODE Button



Page 4.5



PROGRAMMABLE WITH MANUAL-CHANGEOVER - If the thermostat is configured to be a programmable thermostat with Manual-Changeover, the following screens will be available by pressing the MODE button.

Select the Mode by Pressing the MODE Button

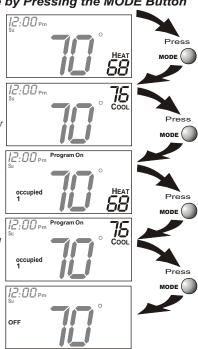
Heating Only
The HEAT setting indicates the temperature the room has to reach before the furnace will turn on to heat the room.

Cooling Only
The COOL setting indicates the temperature the room has to reach before the air conditioner will turn on to cool the room.

Time Schedule for Heating Only
The HEAT Program On setting
will activate the time period
program for the heating
setpoint ONLY (occupied or unoccupied periods).

Time Schedule for Cooling Only The COOL Program On setting Will activate the time period program for the cooling setpoint ONLY (occupied or unoccupied periods).

Off
OFF indicates both heating and air conditioning systems are turned off.



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PROGRAMMABLE WITH AUTO-CHANGEOVER - If the thermostat is configured to be a programmable thermostat with Auto-Changeover, the following screens will be available by pressing the MODE button.

Select the Mode by Pressing the MODE Button

Heating Only
The HEAT setting indicates the temperature the room has to reach before the furnace will turn on to heat the room.

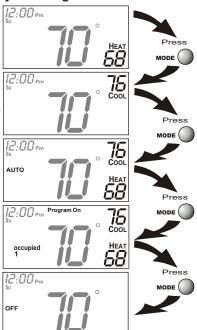
Cooling Only
The COOL setting indicates the temperature the room has to reach before the air conditioner will turn on to cool the room.

Heating or Cooling
AUTO will automatically select
heat or cool based on room
temperature demand.

Time Schedule for Heating or Cooling

Program On will activate the time period program for the heating and cooling setpoints. (occupied or unoccupied periods)

Off
OFF indicates both heating
and air conditioning
systems are turned off.



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Selecting Your Desired Temperature (adjusting setpoints)

AUTO OR PROGRAM MODEPressing the UP or DOWN buttons in Auto <u>or</u> Program modes will adjust **both** the heat and cool set temperatures simultaneously. For more information on this see page 13.2.



Adjust the desired set temperature with the



buttons.

HEAT OR COOL MODE

Pressing the UP or DOWN buttons in Heat $\underline{\mathbf{or}}$ Cool modes will adjust only the heat or cool set temperature.



Adjust the desired set temperature with the



buttons.

Note: Due to the Random Start feature there will be a 2 to 30 second delay before heating or cooling may be energized. This delay helps to keep multiple thermostats from energizing their outputs at the same time after a power outage.

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SECTION 5 Viewing the Temperature and Humidity Sensors Carrier

Section 5 Contents:	
Viewing the Outside	
Temperature	5.2
Viewing the Indoor	
Humidity	5 3



Viewing the Outside Temperature

Requires an outside sensor (optional accessory) to be installed. To read the temperature from the outside sensor, press the PROGRAM and HOLIDAY buttons. The display will then show the current outside temperature along with the highest and lowest temperatures for the day.

Press the PROGRAM button. While holding PROGRAM, press the HOLIDAY button to view the Outside temperature. High temperature for the day. The highest and lowest temperatures for the day will be displayed along with the current outside Current outside temperature. temperature. This reading is from the sensor connected to RS2. Low temperature for the day. Press the PROGRAM button. While holding PROGRAM, press the HOLIDAY button to leave the Outside temperature One wired remote sensor may be installed to read the outside temperature (RS2). The wired sensor can be connected to the thermostat with up to 150' of 18 ga., 300' of 20 ga., Or 450' of 22ga. Unshielded, thermostat wire. The wired sensor can be connected to the thermostat using a two or three wire installation. If a two wire installation is required, then RS+5 must be connected to RSGND (see diagram). lo This wire $\underline{\textit{MUST}}$ be completely separated from the thermostat or any other control wiring and must NOT be in the same conduit as high voltage wiring.

Note: If no sensors are connected 2 dashes [- -] will appear on the display.

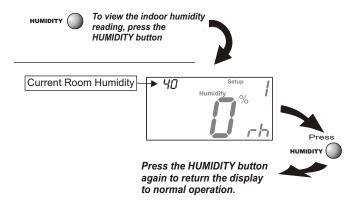
Page 5.2



Viewing the Indoor Humidity

Requires the Humidity Module (optional accessory) to be installed. To display the current humidity at the thermostat, press the HUMIDITY button of the thermostat. The display will then show the current indoor humidity along with the humidification setpoint (Section 9).

Note: The humidity reading will not appear unless the Humidity Module has been installed. If the Humidity Module has not been installed dashes will appear in place of the humidity reading.



NOTE: Due to variations in environmental conditions, it is not always possible to achieve the desired humidification or dehumidification setpoint.

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SECTION 6— Programming the Daily Schedule Carrier

Section 6 Contents:	
6 Programming a Daily	
Schedule	6.2
Overriding the Daily	
Schedule	6.6

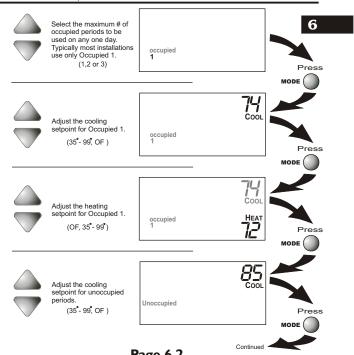


Programming a Daily Schedule

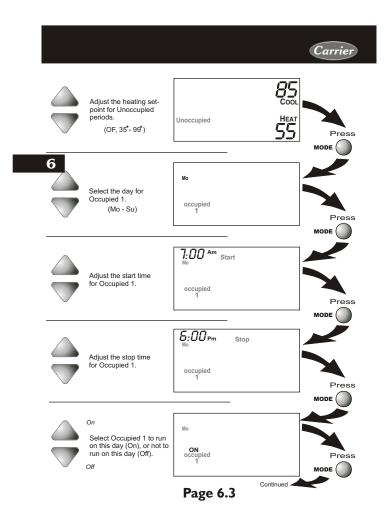
Press PROGRAM

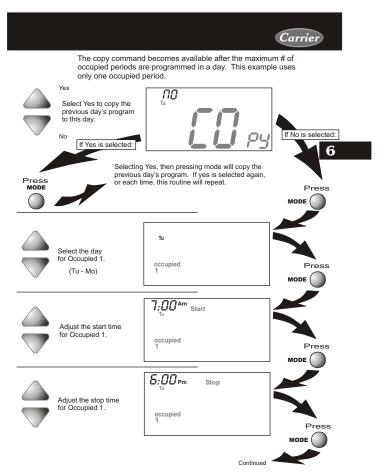
Press the PROGRAM button to enter time period programming.

Use the Programming Worksheet on the back cover to help with this section.

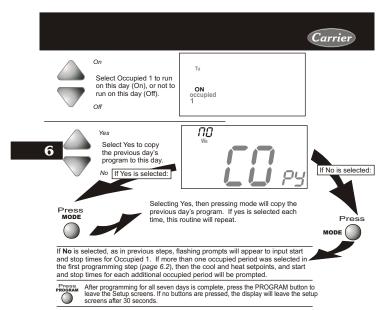


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PROGRAMMING TIPS

- If only the Occupied 1 period is selected in the first programming step (page 6.2), Occupied 2 & 3 programming steps are skipped. Further, if Occupied 2 is selected, Occupied 3 programming steps are skipped.
- Heat & Cool setpoints for Occupied 1 are the same for every day of the week. If desired, Heat & Cool setpoints for Occupied 2 & 3 can be adjusted differently for each day of the week.
- If the start time is set later in the day than the stop time, the program will run from the start time to midnight and from midnight to the stop time on the same day. For example: 9pm start, 8am stop, on Monday. In this example the program will run from 12am Monday to 8am Monday and again from 9pm Monday to 12am Tuesday.
- Unoccupied Operation: The unoccupied settings take effect at all times when: (1) the program is on and (2) the current time is outside a preset occupied period. For this reason start and stop times are not necessary for unoccupied time periods.
- If the same start and stop times are programmed for an occupied period, then it will run 24 hours.
- If one occupied period starts and stops within another occupied period the lower occupied # has priority. For example: If Occupied 3 is programmed to be on 24 hours, and Occupied 2 is programmed to run that day, then the Occupied 2 setting will take over for Occupied 3 between Occupied 2 start and stop times.
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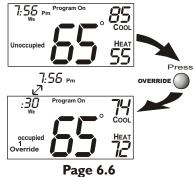


Overriding the Daily Schedule

The OVERRIDE button may be used to interrupt the normal time schedule programming of the thermostat. Override may only be used when the thermostat is running the time schedule, in Program On mode.

Unoccupied Operation - During programmed, unoccupied periods, pressing the OVERRIDE button will temporarily force the thermostat into Occupied 1 comfort settings for 30 minutes. The remaining Override time will alternate with the clock (refer to the second display below). The Override timer can be set up to a maximum of four (4:00) hours, in increments of 30 minutes. If the timer has been set for the maximum time, the next press of the OVERRIDE button will reset the timer, returning the thermostat to the correct time period program for the day.

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



SECTION 7— Programming the Fan Operation Carrier

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Using the Fan Butte	on7.2
7 • Smart Fan Operation	on7.2
Setting the Fan-Off	Time
Delav	7.3



Using the Fan Button

When the fan is set for automatic operation it will energize any time there is a call for heating or cooling, otherwise the fan will remain off. Pressing the FAN button will energize the fan and display the **FanOn** icon on the thermostat display. To operate the fan in the automatic mode, press the FAN button again and the FanOn icon will disappear.



Fan On indicates constant fan operation. If Fan On is selected the fan will run continuously at all times, except in Off, and will only run if there is a heating or cooling demand in Unoccupied periods. Pressing the FAN button toggles this feature on or off.

Smart Fan Operation

This feature allows the fan to run continuously during Occupied 1, 2 or 3 and automatically deenergize during Unoccupied, except when necessary to heat or cool. To use this feature, place the thermostat in the Program On mode. Next, press the FAN button to display the FanOn icon (see below).

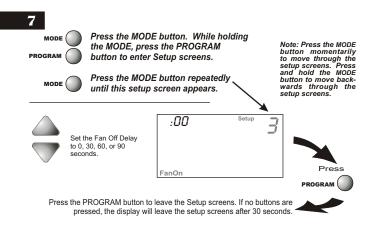


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Setting the Fan-Off Time Delay

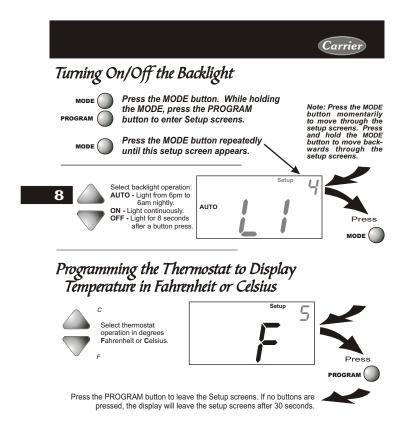
To increase cooling efficiency of your unit, the thermostat may be programmed to continue running the fan after a call for cooling has been satisfied. This delay may be set for 30, 60, or 90 seconds. If the Fan Off Delay is set for zero seconds, the fan will not energize after a call for cooling has been satisfied.



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SECTION 8— Thermostat Display Options Carrier

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Fahrenheit or Celsius8	3.2
Locking/Unlocking the	
Keypad8	3.3
 Programming a Security 	
	0 1



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Locking/Unlocking the Keypad

To prevent unauthorized use of the thermostat, the front panel buttons may be disabled. To disable, or 'lock' the keypad, press and hold the MODE button. While holding the MODE button, press the UP and DOWN buttons together. The icon will appear on the display, then release the buttons.

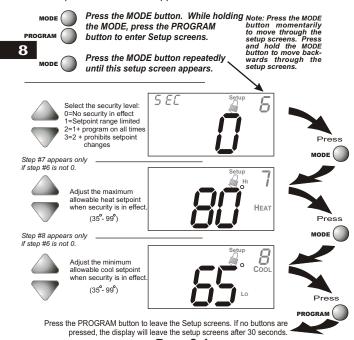


To *unlock* the keypad, press and hold the MODE button. While holding the MODE button, press the UP and DOWN buttons together. The icon will disappear from the display, then release the buttons.



Programming a Security Level

When a security level has been programmed, the thermostat will allow limited adjustment to the setpoints (*steps #7 and 8*). In security levels 2 and 3, the thermostat is forced into the Program On mode. To disable the security feature, set the value in step #6 to 0; this will cause steps # 7 and 8 not to appear.



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SECTION 9- *Humidification* Carrier

Section 9 Contents:

Installing the Humidity	
Module	9.2
Setting a Thermostat Jumper	9
for Humidity Operation	.9.3
Adjusting the Humidification	
Setpoint	9.4

NOTE: The humidification functions described in this section will only be available if a Humidity Module has been properly installed.

Disclaimer:
The manufacturer of this thermostat cannot be liable for misinstallation, improper connection or improper programming of the humidity functions of this thermostat that may result in water damage or mold growth.

Additionally, the manufacturer of this thermostat is not responsible for the fitness of the humidifier and/or installation of said humidifier connected to this thermostat. Furthermore, the maintenance of the humidifier components, including but not limited to, the filters and pads are not the responsibility of the thermostat manufacturer.

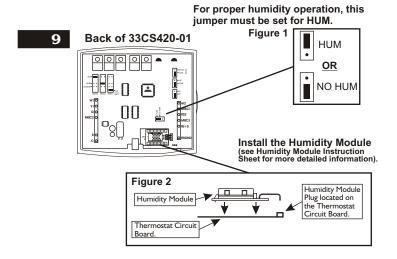
The Humidifier Service icon is only a suggestive reminder and should not take the place of the humidifier manufacturer's required maintenance requirements and schedule.

Page 9.1



Installing the Humidity Module

To install the Humidity Module the thermostat must be detached from the back plate. Plug the Humidity Module into the Humidity Module connector as shown in Figure 2 below. Follow the detailed instructions included with the Humidity Module accessory. Once the Humidity Module has been installed, you must adjust the Humidity jumper setting to HUM as shown in Figure 1 below. This will allow you to access the humidification and dehumidification setup steps.

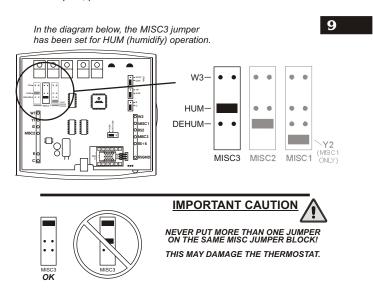


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Setting a Thermostat Jumper for Humidity Operation

To control a MISC outputs for humidification, place the MISC1, MISC2, or MISC3 jumper on the terminal labeled HUM (see diagram below). This will supply 24VAC to the selected MISC terminal based on the humidification programming in the following pages. Only one of the three outputs (MISC1, MISC2, or MISC3) is required to have this jumper. For more information regarding the MISC1, MISC2, and MISC3 outputs, please see section 17.



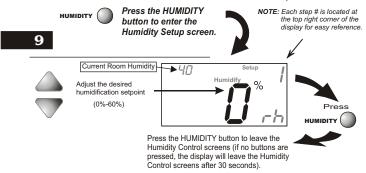
Page 9.3



Adjusting the Humidification Setpoint

If your HVAC unit is equipped with a humidification system and the Humidity Module has been installed, the thermostat will provide power to the appropriate terminal on the backplate of the thermostat when the humidity in the building falls below the setpoint you have chosen. The value for this setpoint ranges from 0% to 60%.

NOTE: Due to variations in environmental conditions, it is not always possible to achieve the desired humidification or dehumidification setpoint.



Humidification Notes: Press the button to set the humidity setpoint to 0% for no humidification operation.

You cannot set the dehumidify setpoint any lower than the humidify setpoint; a 5% differential is forced between the humidify and dehumidify setpoints.

Section 10 Contents:

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Using the DEHUM
Terminal10.5

NOTE: The dehumidification functions described in this section will only be available if a Humidity Module has been properly installed. For instructions on installing the Humidity Module please see page 9.2.

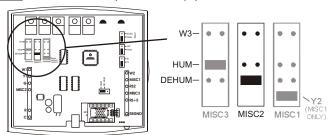
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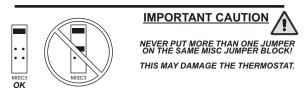


Setting a Thermostat Jumper for Dehumidification Operation

To control a MISC outputs dehumidification, install the Humidity Module and place the Humidity Jumper on HUM (see page 9.2). Then place the MISC1, MISC2, or MISC3 jumper on the terminal labeled DEHUM (see diagram below). This will supply 24VAC to the selected MISC terminal based on the programming in the following pages. Only one of the three outputs (MISC1, MISC2, or MISC3) is required to have a jumper. For more information regarding the MISC1, MISC2, and MISC3 outputs, please see section 17.

10 In the diagram below, the MISC2 jumper has been set for DEHUM (dehumidification) operation.





Page 10.2



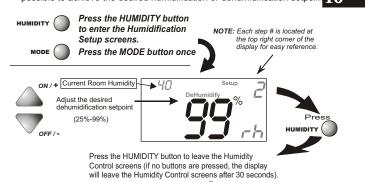
Adjusting the Dehumidification Setpoint

Dehum Terminal: If a MISC terminal is selected for DEHUM operation (see page 10.2), then the thermostat will provide power to this terminal when the humidity in the building is above the setpoint you have chosen. See page 10.6 for detailed programming instructions. To utilize this feature your HVAC unit must be equipped with a DEHUM terminal.

Cool to Dehumidify: If the thermostat is programmed for Cool to Dehumidify operation, then the thermostat will energize the cooling system any time the humidity in the building is above the setpoint you have chosen. See page 10.4 for detailed programming instructions.

In each case, when the indoor humidity falls below the setpoint you have selected, Cool to Dehumidify and the MISC terminal will be de-energized. The value for this setpoint ranges from 25% to 99%.

NOTE: Due to variations in environmental conditions, it is not always possible to achieve the desired humidification or dehumidification setpoint 10



Dehumidification Notes: Press the abutton to set the dehumidification setpoint to 99% for no dehumidification operation. This will lockout Advanced Setup steps 9 and 10 (see page 10.4).

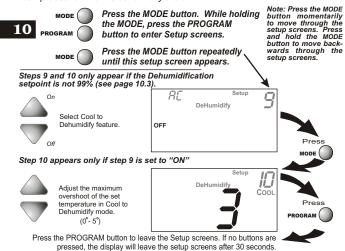
You cannot set the dehumidify setpoint any lower than the humidify setpoint; a 5% differential is forced between the humidify and dehumidify setpoints.

Page 10.3



Using Your Air Conditioner to Dehumidify

If Cool to Dehumidify is on and the Humidity Module is installed, the thermostat has the ability to initiate a cooling cycle for advanced dehumidification operation. When the thermostat detects the humidity percentage is above the setpoint for dehumidification, and heating or cooling is not on, the thermostat will force the compressor to run with the fan, thus reducing moisture in the air. The green LED will blink once very eight seconds to indicate this is taking place. This feature will also allow you to adjust the cooling overshoot of the setpoint, from 0° to 5° (adjustable in step #10). For Example: If the cooling overshoot is set for 3°F and the cooling setpoint is set for 74°F, then as long as the room temperature reads between 71°F and 74°F this feature will energize the compressor and fan to dehumidify the air.



Dehumidification Notes: The thermostat must be in the Cool, Auto, or Program On mode for the Cool to Dehumidify feature to be available.

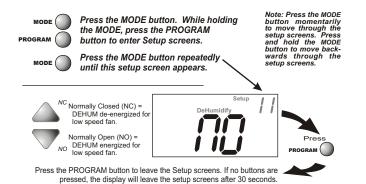
Page 10.4



Using the Dehum Terminal

If you configure a MISC output jumper for DEHUM, it may be programmed to operate in one of two ways:

- Normally Closed (NC): The thermostat will de-energize the DEHUM terminal to allow the fan to run in low speed when there is a call for 1st stage cooling and the room humidity is greater than the dehumidification setpoint.
- 2) Normally Open (NO): The thermostat will energize the DEHUM terminal to allow the fan to run in low speed when there is a call for 1st stage cooling only and the room humidity is greater than the dehumidification setpoint.



Dehumidification Notes: The DEHUM terminal will "release" and allow the fan to operate normally if there is call for 2nd stage cooling or if the call for Cooling and/or Cool to Dehumidify has been satisfied.

Page 10.5

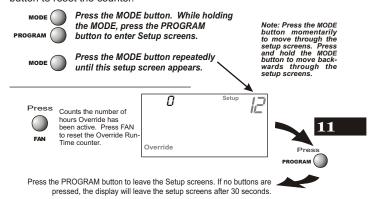
SECTION 11 Viewing Equipment Run-Times Carrier

Section 11 Contents:	
Viewing the Override	
Run-Time	11.2
Viewing the Humidifier	
Run-Time	11.3
■ 11 Viewing the UV Light	
Run-Time	11 1



Viewing the Override Operation Run-Time

This display will track the number of hours that your thermostat has been operating in the Override mode (see page 6.6). Press the FAN button to reset the counter.

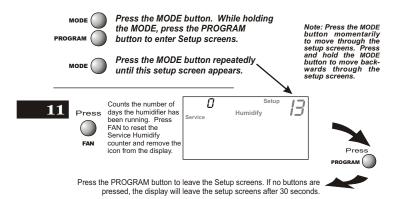


Page 11.2



Viewing the Humidification Run-Time

After your humidification system has been operating for the number of days set in step #13 below, the Service Humidify icon will appear. This counter keeps track of the number of days since the Service Humidify icon was reset.

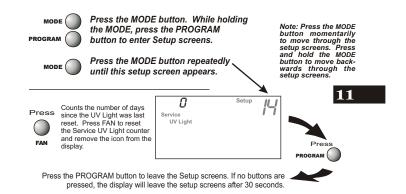


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Viewing the UV Light Run-Time

After the UV light has been operating for the number of days set in step #14 below, the Service UV Light icon will appear. This counter keeps track of the number of days since the UV light icon was last reset.



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SECTION 12 Electric Heat and Heat Pump Operation



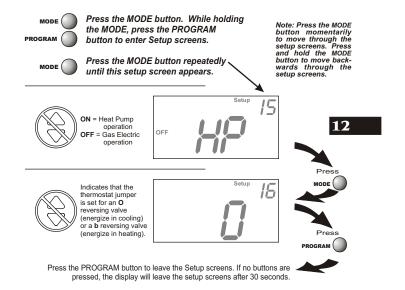
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Section 12 contents.	
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Reversing Valve Jumper	
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Viewing the Electric Heat	
Jumper Setting12	2.3
■ 12 ■ Using Emergency Heat12	2.4



Viewing the Heat Pump and Reversing Valve Jumper Settings

Steps 15 and 16 are 'Read Only' and may only be set with the jumpers on the circuit board of the thermostat.



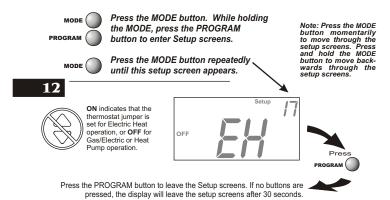
Page 12.2



Viewing the Electric Heat Jumper Setting

Placing the jumper on ELEC will cause the thermostat to turn on the fan immediately any time there is a heat demand. Since most gas furnaces control the fan, this feature should be off unless it is necessary for the thermostat to energize the fan with first stage heat.

Step 17 is 'Read Only' and may only be set with the jumpers on the circuit board of the thermostat.

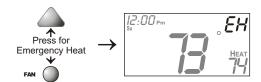


Page 12.3



Using Emergency Heat

ENTER EMERGENCY HEAT: Only available if you have a Heat Pump installed. To initiate the Emergency Heat feature, press the FAN button. While holding the FAN button press the UP button. The Cool setpoint display will read 'EH' (emergency heat).



OPERATION: During Emergency Heat operation the thermostat will turn on the fan and the 2nd stage of heat when there is a demand for heat. Also during Emergency Heat the 1st stage of heating or cooling will be unavailable.

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EXIT EMERGENCY HEAT: Follow the same steps as entering Emergency Heat by pressing the FAN and UP buttons. During Emergency Heat, only OFF and HEAT modes are available by pressing the MODE button.

SECTION 13— Timers and Deadbands



Section 13 Contents:	
Adjusting the Heat/Cool	
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Adjusting the Cycles	
Per Hour	13.3
 Adjusting the Deadband 	13.4
• Adjusting the Minutes of	
Adjusting the Minutes of Run-Time Before the	
Next Stage	13.6

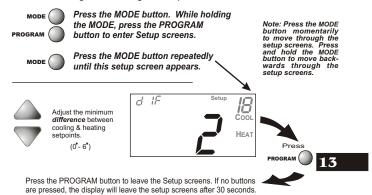
■ Selecting 2nd Stage Turn

Off Temperature......13.7



Adjusting the Heat/Cool Differential

The Heat and Cool setpoints will not be allowed to come any closer to each other than the value in this step. This minimum difference is enforced during Auto-Changeover operation.



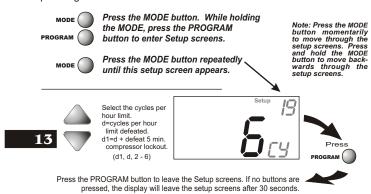
Note: To increase the spread between the heating and cooling setpoints, press the MODE button until only the heat setpoint is displayed. Adjust the desired setpoint. Wait two seconds after adjusting the set point so the thermostat can accept the change. Press the MODE button until only the cool setpoint is displayed. Adjust the desired setpoint. Wait two seconds after adjusting the set point so the thermostat can accept the change. Press the MODE button again to enter the Auto-Changeover mode where both the heat and cool setpoints are displayed.

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Adjusting the Cycles Per Hour

The Cycles Per Hour setting may limit the number of times per hour your HVAC unit may energize. For example, at a setting of 6 cycles per hour the HVAC unit will only be allowed to energize once every 10 minutes. The Cycles Per Hour limit may be overridden and reset by pressing the UP or DOWN buttons on the thermostat.



Page 13.3



Adjusting the Deadband

MULTI-STAGE OPERATION - Controls up to three Heat and two Cool stages.

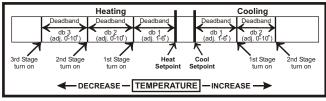
The 2nd Stage of heat or cool is turned on when:

(A) The 1st Stage has been on for the time required (step #23, page 13.6). It is adjustable from 0-60 minutes and the default

And

(B) The temperature spread from the setpoint is equal to or greater than: the setpoint plus the 1st stage deadband (step #20, next page), plus the 2nd stage deadband (step #21, next page). This 2nd stage deadband is adjustable from 0-10 degrees and the default is two degrees.

- The **3rd Stage** of Heat is turned on when: **(A)** The 2nd stage has been on for the time required (*step #24*, page 13.6). It is adjustable from 0-60 minutes and the default is two minutes.
 - **(B)** The temperature from the setpoint is equal to or greater than: the setpoint plus the 1st stage deadband (step #20, next page), plus the 2nd stage deadband (step #21, next page) plus the 3rd stage deadband (step #22, next page). This 3rd stage deadband is adjustable from 0-10 degrees and the default is two degrees.



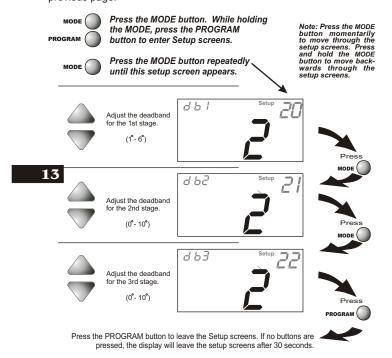
The above figure assumes the minimum on time for the prior stage has been met to allow the next stage to turn on, once the deadbands have been exceeded.

Page 13.4

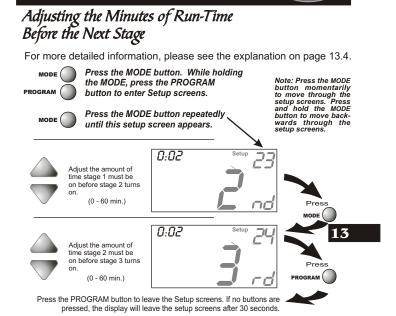


Adjusting the Deadband

For more detailed information, please see the explanation on the previous page.



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Carrier

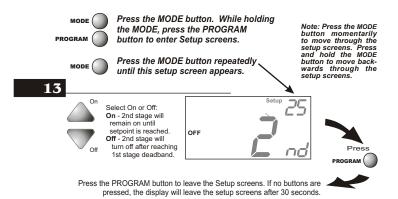
Page 13.6



Selecting 2nd Stage Turn Off Temperature

If ON is selected, the second stage of cooling or heating will remain energized until the thermostat reaches the setpoint on the thermostat display.

If OFF is selected, the second stage of cooling or heating will turn off after reaching the 1st stage deadband (see page 13.4 for more information).



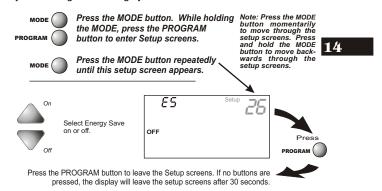
Page 13.7



How to Use the Energy Save Feature

If the thermostat is configured to be programmable (Section 4), and Energy Save has been selected in step #26 (below), the room will attempt to reach the selected comfort temperature at the exact time programmed into the thermostat. Energy Save, more commonly known as Smart Recovery, only works when the thermostat enters Occupied 1 from Unoccupied. For example, if the Unoccupied program is set for 6pm at 55°F heating and 85°F cooling, and the Occupied 1 program is set for 8am at 72°F heating and 75°F cooling, the thermostat will turn the system on before 8am in an effort to bring the temperature to its correct setting at exactly 8am.

The 33CS420-01 learns from experience, so please allow 4-8 days after a program change or after initial installation to give Energy Save time to adjust to local weather, the construction of your business, and your heating and cooling system.



Page 14.1

SECTION 15 — Programming Run-Time Alerts Carrier

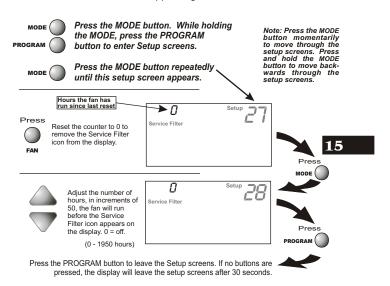
Section 15 Contents:

Setting and Resetting the
Service Filter (Fan Run-Time)
Alert15.2
Setting and Resetting the UV
Light Run-Time Alert15.3
Setting and Resetting the
Humidify Run-Time Alert15.4



How to Set and Reset the Service Filter (Fan Run-Time) Alert

This counter keeps track of the number of hours of fan run-time whether the fan is energized in the Heating or Cooling modes, or in stand alone fan operation. The Service Filter icon will appear after the preset number of hours of fan run-time in step #28 (below) has been achieved. Setting this counter to zero in step #28 will prevent the Service Filter icon from ever appearing.

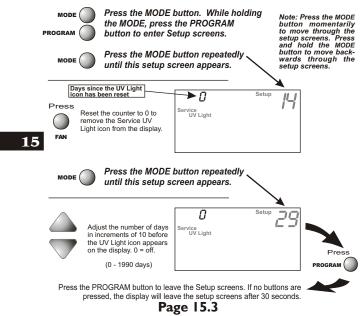


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How to Set and Reset the UV Light Run-Time Alert

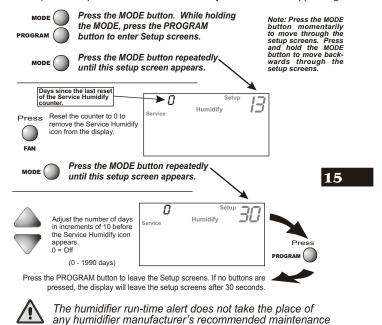
This counter keeps track of the number of days since the UV Light counter has been reset. The UV Light icon will appear after the number of days has been achieved, as shown in step #29 (below). Setting the counter to zero in Step #29 will prevent the Service UV Light icon from ever appearing.





How to Set and Reset the Humidifier Run-Time Alert

This counter keeps track of the number of days since the Service Humidify icon was last reset; this icon will appear after the number of days set in step #30 (*below*) has elapsed. Setting this counter to zero in step #30 will prevent the Service Humidify icon from ever appearing.



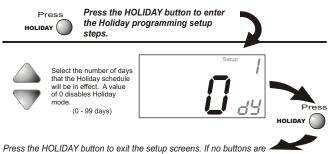
plán; it only serves as a helpful reminder. **Page 15.4**



When the thermostat is programmed for a Holiday mode, it will take effect at 12:00 am of the next day. The thermostat must be in the Program On mode for Holiday mode to take effect.

The thermostat will control to the Unoccupied cooling and heating setpoints set in Section 6, pages 6.2 and 6.3.

Holiday setpoints will be enforced for the number of days specified in step #1 (0 - 99 days).



press the HOLIDAY button to exit the setup screens. If no buttons are pressed, the display will leave the setup screens after 30 seconds.

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Programming Holiday Mode (continued)

HOLIDAY DISPLAY - When the thermostat is placed into the Holiday mode, the thermostat will display the screen shown below.



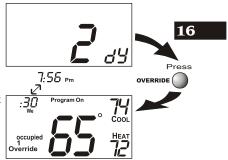
To return the thermostat to normal operation from Holiday mode, press the HOLIDAY button and adjust the number of days in step #1 to zero (see previous page).

Press the HOLIDAY button to return to normal operation.

Overriding the Holiday Mode

Pressing the OVERRIDE button during Holiday Mode will temporarily force the thermostat into Occupied 1 comfort settings for 30 min. The remaining Override time will alternate with the clock display (below).

The Override timer can be set up to a maximum of four (4:00) hours, in increments of 30 minutes. If the timer has been set for the maximum time, the next press of the OVERRIDE button will reset the timer, returning the thermostat to the correct time period program for the day.



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SECTION 17 — Configuring the MISC Outputs Carrier

Section 17 Contents: • Configuring the Jumpers......17.2

Explanation of JumperSettings......17.3

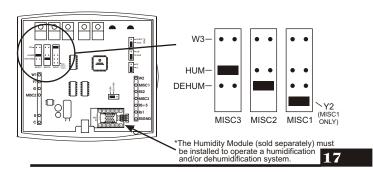


Configuring the Jumpers

For additional flexibility, your thermostat has three configurable outputs. These outputs are designed to have different functions depending on how the jumpers are set (*below*). Each output, labeled MISC1, MISC2, and MISC3 may be set for one

of the four choices available.

In the diagram below, the MISC3 jumper has been set for HUM* (humidification) operation, the MISC2 jumper has been set for DEHUM* (dehumidification) operation, and the MISC1 jumper has been set for Y2 (second stage cooling) operation.





NEVER PUT MORE THAN ONE JUMPER ON THE SAME MISC JUMPER BLOCK!

DOING SO MAY DAMAGE YOUR THERMOSTAT.





Page 17.2



Explanation of Jumper Settings

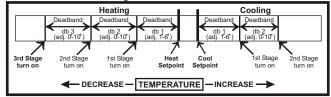
W3 JUMPER SETTING

If the jumper for MISC1, MISC2, or MISC3 is set to W3, the corresponding MISC screw terminal on the backplate will control a third stage of heat.

W3 MULTI-STAGE OPERATION EXPLAINED - SECTION 13.4

The 3rd Stage of Heat is turned on when:

- (A) The 1st and 2nd stages have been on for the time required (steps 23 and 24, page 13.6). It is adjustable from 0-60 minutes and the default is two minutes.
- (B) The temperature from the setpoint is equal to or greater than: the setpoint plus the 1st stage deadband (step #20, 13.5), plus the 2nd stage deadband (step #21, 13.5) plus the 3rd stage deadband (step #22, 13.5). This 3rd stage deadband is adjustable from 0-10 degrees and the default is two degrees.



HUM JUMPER SETTING

If the jumper for MISC1, MISC2, or MISC3 is set to HUM, the corresponding MISC screw terminal on the backplate will control a humidification system.

HUMIDIFICATION OPERATION - SECTION 9

If your HVAC unit is equipped with a humidification system and the Humidity Module (sold separately) has been installed, the thermostat will provide power to the MISC1, MISC2, or MISC3 terminal of the thermostat when the humidity in the home falls below the humidity setpoint you have chosen. The value for this setpoint ranges from 0% to 60%. If no humidity is desired or if a humidification system has not been installed, set the value to 0%.

Page 17.3



Explanation of Jumper Settings (continued)

DEHUM JUMPER SETTING

If the jumper for MISC1, MISC2, or MISC3 is set to DEHUM, the corresponding MISC screw terminal on the backplate will be connected to the dehumidification terminal of a furnace board. NOTE: Not all furnaces have a dehumidification terminal.

DEHUMIDIFICATION OPERATION - SECTION 10

If your HVAC unit is equipped with a dehumidification system the thermostat will operate in one of two ways.

- Normally Closed (NC): The thermostat will de-energize the MISC1, MISC2, or MISC3 terminal of the thermostat (this MISC terminal is connected to the DEHUM terminal on your furnace) to allow the fan to run in low speed when the humidity in the home is above the dehumidify setpoint you have chosen and there is a call for 1st stage cooling.
- 2) Normally Open (NO): The thermostat will energize the MISC1, MISC2, or MISC3 terminal of the thermostat (this MISC terminal is connected to the DEHUM terminal on your furnace) to allow the fan to run in low speed when the humidity in the home is above the dehumidify setpoint you have chosen and there is a call for 1st stage cooling.



Explanation of Jumper Settings (continued)

Y2 JUMPER SETTING

If the jumper for MISC1 is set to Y2 the MISC1 screw terminal on the backplate will control a second stage of cooling.

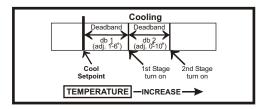
Y2 OPERATION - SECTION 13.4

Control up to two Cool stages.

The **2nd Stage** of heat or cool is turned on when:

(**A**) The 1st Stage has been on for the time required (*step #23*, page 13.6). It is adjustable from 0-60 minutes and the default is two minutes.

(B) The temperature spread from the setpoint is equal to or greater than: the setpoint plus the deadband (step #24, page 13.6), plus the 2nd deadband (step #21, page 13.5). This 2nd deadband is adjustable from 0-10 degrees and the default is two degrees.



SECTION 18 -

Factory Defaults, Calibration, and Sensors



Section 18 Contents:

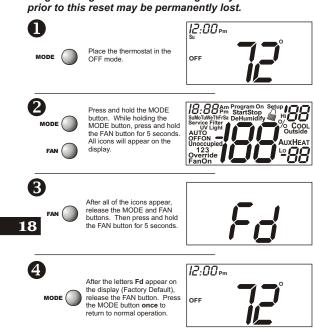
- Resetting the Thermostat to the Factory Default Settings......18.2
- Calibrating the Temperature and Humidity Sensors.......18.3



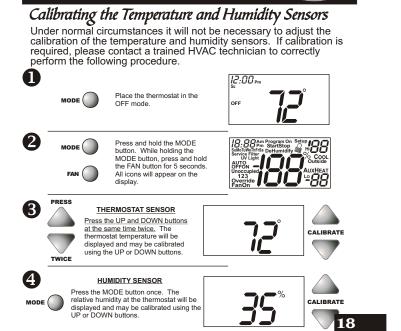
Resetting the Thermostat to the Factory Default Settings (for default values see page 20.1)

If, for any reason, you desire to return all the stored settings back to the factory default settings, follow the instructions below.

WARNING: This will reset all Time Period and Advanced Programming to the default settings. Any information entered prior to this reset may be permanently lost.



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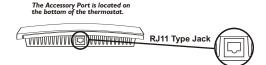


Carrier

After calibration is complete, press the MODE button to return to normal operation.



ACCESSORY PORT - The RJ11 Jack is used to connect the 33CS420-01 to the IR Receiver P/N 33CSIRRCVR-01 for wireless communication or the EZ Programmer P/N 33CSPGMR-01 for easy downloading or uploading of thermostat information.



IR RECEIVER / REMOTE CONTROL (optional accessory) - When the IR Receiver is connected, the thermostat can be controlled using an IR Remote Control. The thermostat may also interface with other wireless systems in your home. For more information see the instruction sheet for the IR Receiver (33CSIRRCVR-01).

EZ PROGRAMMER (optional accessory) - When the EZ Programmer is connected, the thermostat Time Period Programming and Advanced Setup Programming can be stored into the EZ Programmer's memory. This information can then be uploaded to other 33CS420-01 thermostats. For more information see the instruction sheet for the EZ Programmer P/N 33CSPGMR-01.

	SECTION Advanced S			le			(Carrier	
Ste	p# Description	Pg#	Range	Df*	Ste	p# Description	Pg#	Range	Df*
1	Programmable Thermostat	4.2	Yes/No	Yes	17 18	Electric Heat Minimum Heat/Cool	12.3 13.2	read only	 2°
2	Auto-Changeover Thermostat	4.3	Yes/No	Yes	19	Differential Cycles Per Hour	13.3	d1. d. 2-6	6
3	Fan Off Delay	7.3	0, 30, 60, 90	0	20	Deadband/Temp. Swing 1st Stage	13.5	1°-6°	2°
4	Thermoglow Backlight	8.2	Auto/On/ Off	Au- to	21	Deadband/Temp. Swing 2nd Stage	13.5		2°
5 6	F or C Security Level	8.2 8.4	F/C 0 - 3	F 0	22	Deadband/Temp. Swing 3rd Stage	13.5	0°- 10°	2°
7	Max Heat Setpoint Min Cool Setpoint	8.4 8.4	35°- 99° 35°- 99°	80° 55°	23	Minutes Between Stage 1 & 2	13.6	0-60min	2
9 10	Cool to Dehumidify Maximum Dehum	10.4 10.4	On/Off	Off 3°	24	Minutes Between Stage 2 & 3	13.6	0-60min	2
11	Overshoot DEHUM Terminal	10.5		NC	25	2nd Stage turn off at setpoint	13.7	On/Off	On
l''I	Polarity	10.5	INO/INC	INC	26	Energy Save	14.1		Off
12 13	Override Run-Time Reset Service	11.2 11.3	read only read only		27	Reset Service Filter	15.2	read only	
	Humidify Icon		,		28	Service Filter Run Time Set	15.2	0 - 1950	0
14 15	Reset UV Light Icon Heatpump Jumper Setting	11.4 12.2	read only read only		29	UV Light Run-Time Set	15.3	0 - 1990	0
16		12.2	read only		30	Service Humidify Run-Time Set	15.4	0 - 1990	0

*Df = Factory Default Setting

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Section 22 Warranty

Five-Year Warranty - This Product is warranted to be free from defects in material and workmanship. If it appears within five years 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 BECOMES VOID UPON REINSTALLATION.

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WHAISOLEVEIK.

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.
- 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 other
- Tailure is stain due to Votinge containins, blown trusts, open circum breakes of other damages due to the inadequacy or interruption of electrical service.
 Damage as a result of floods, winds, fires, lighthing, 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.
- 6. Manufacturer products installed outside the continental U.S.A., Alaska, Hawaii, and Canada.
- 7. Electricity or fuel costs or increases in electricity or fuel costs for 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 may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which may vary

Programming Worksheet

see Section 6

DAY	PERIOD	START	TIME	COOL	HEAT	
м	Unoccupied					
	Occupied 1					
ON DAY	Occupied 2					
Y	Occupied 3					
I	Unoccupied					Copy Mon→Tue
TUESDAY	Occupied 1					☐ No
D	Occupied 2					☐ Yes
Ÿ	Occupied 3					
W	Unoccupied					Copy Tue→Wed
E	Occupied 1					□No
YHDZHWD4Y	Occupied 2					☐ Yes
Ą	Occupied 3					
Ţ	Unoccupied					Copy Wed→Thu
THURSDAY	Occupied 1					□No
S D	Occupied 2					☐ Yes
Ŷ	Occupied 3					
F	Unoccupied					Copy Thu →Fri
F R <u>I</u>	Occupied 1					☐ No
D A Y	Occupied 2					☐ Yes
Ľ	Occupied 3					
S A	Unoccupied					Copy Fri → Sat
SATURDAY	Occupied 1					☐ No
D	Occupied 2					☐ Yes
Ŷ	Occupied 3					
S	Unoccupied					Copy Sat →Sun
SUNDAY	Occupied 1					☐ No
Ą	Occupied 2					☐ Yes
`	Occupied 3					

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