



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.



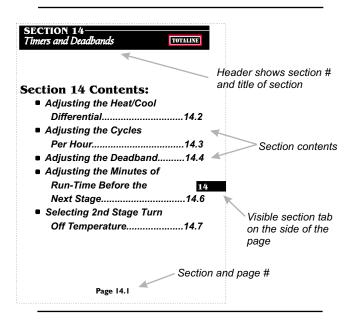


How to Use This Manual

TOTALINE

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 Contents of each 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

TOTALINE*

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 regards to deadband).

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

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.

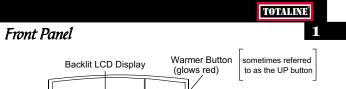
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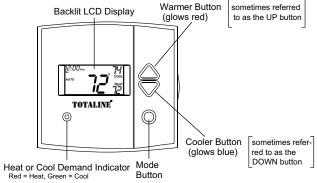
TOTALINE

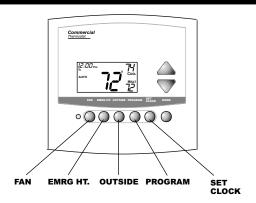
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SECTION 1 Getting to Know Your Thermostat TOTALINE 1

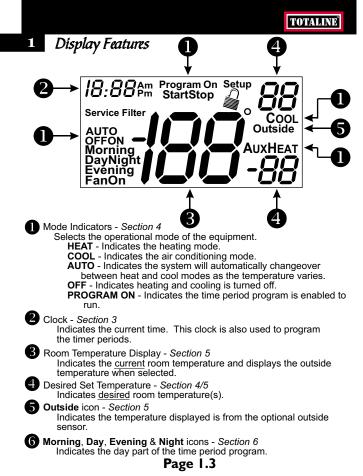
•	Front Panel Buttons	1.2
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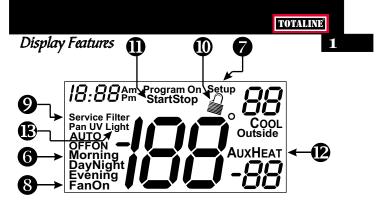






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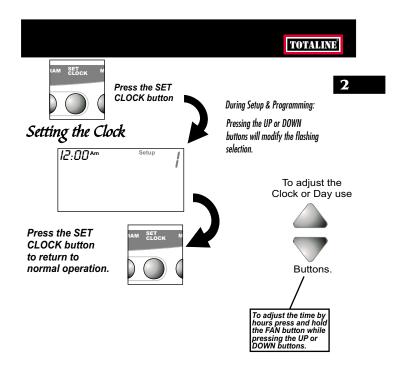


- Setup icon Sections 6-11
 Indicates the thermostat is in the setup mode.
- § Fan On icon Section 7 Indicates constant, continuous fan operation. When Fan On is not lit - indicates the fan will only operate when necessary to heat or to cool.
- Service Filter icon Section 9 Appears when the filter should be serviced under normal conditions. Adjustable from 0 - 1950 hours of blower operation.
- icon Section 8
 Indicates the keypad has been locked.
- StartStop icon Section 6
 Appears when programming timer functions.
- AuxHeat icon Section 10
 Indicates the Heat Pump is currently using 2nd stage electric strip heat.
- W Light icon Section 9
 Appears when the UV bulb should be serviced under normal conditions. Adjustable from 0 1990 days of operation.

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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.

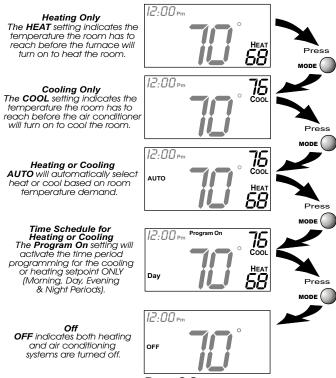


Page 2.2

Selecting the Heat or Cool Mode

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Select Mode by Pressing the MODE Button



Page 2.3

Selecting Your Desired Temperature (adjusting the setpoints)

AUTO OR PROGRAM MODE

Pressing the UP or DOWN buttons in Auto <u>or</u> Program mode will adjust <u>both</u> 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 \underline{or} cool set temperature.



Adjust the desired set temperature with the



Buttons.

Using the Fan Button

FanOn





Fan On indicates constant fan operation. You may turn the fan on even if the thermostat is in the Off mode. Pressing the FAN button toggles this feature on or off.

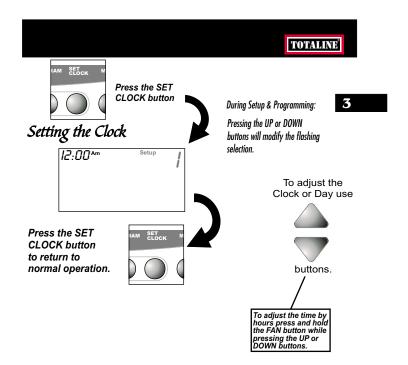
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Section 3	Contents:	
Setting	the Clock	3.2

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



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Section 4 Contents:

	Programmable or Non-	
	Programmable Thermostat	4.2
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	Thermostat	4.3
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Note: During setup & programming pressing the UP or DOWN buttons will modify the flashing selection.

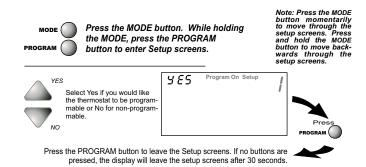
Programmable or Non-Programmable Thermostat

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. This is the default, factory setting.



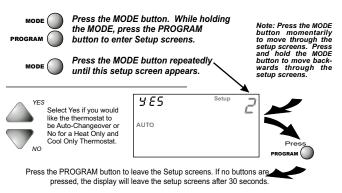
Page 4.2

Manual or Auto-Changeover Thermostat

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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.



Page 4.3

Operating Mode when the Thermostat is Configured to be:

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

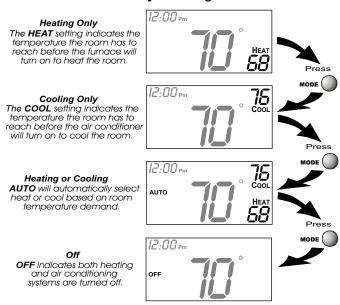
12:00 Pm Heating Only The **HEAT** setting indicates the temperature the room has to reach before the furnace will turn on to heat the room. 12:00 Pm 75 COOL **Cooling Only** The COOL setting indicates the temperature the room has to reach before the air conditioner will turn on to cool the room. 12:00 pm Off **OFF** indicates both heating and air conditioning systems are turned off.

Page 4.4

Operating Mode when the Thermostat is Configured to be:

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

Select the Mode by Pressing the MODE Button



Page 4.5

Operating Mode when the Thermostat is Configured to be:

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

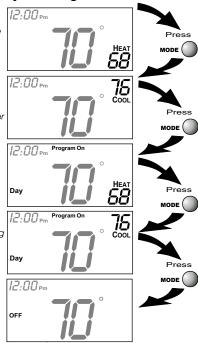
Heating Only
The HEAT setting indicates the temperature the room has to reach before the furnace will turn on to heat the room.

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 (Morning, Day, Evening & Night Periods).

Time Schedule for Cooling Only
The COOL Program On setting will activate the time period program for the cooling setpoint ONLY (Morning, Day, Evening & Night Periods).

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



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Operating Mode when the Thermostat is Configured to be:

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

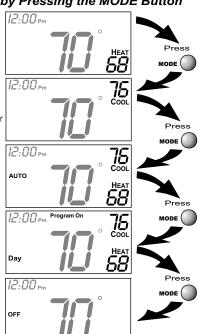
Heating Only
The HEAT setting indicates the temperature the room has to reach before the furnace will turn on to heat the room.

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 The Program On setting will activate the time period programming for the cooling or heating setpoint ONLY (Morning, Day, Evening & Night Periods).

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



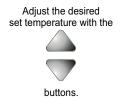
Page 4.7

Selecting Your Desired Temperature (adjusting setpoints)

AUTO OR PROGRAM MODE

Pressing the UP or DOWN buttons in Auto or Program modes will adjust both the heat and cool set temperatures simultaneously. For more information on this see page 11.2.

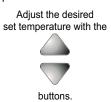




HEAT OR COOL MODE

Pressing the UP or DOWN buttons in Heat <u>or</u> Cool modes will adjust only the heat <u>or</u> cool set temperature.





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SECTION 5— Viewing the Outside Temperature

TOTALINE

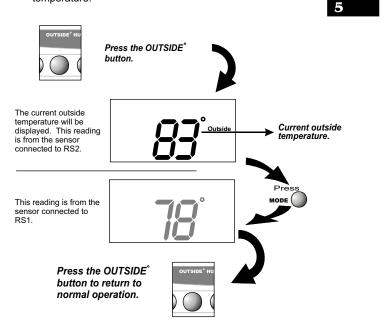
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Section 5 Contents:

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Viewing the Outside Temperature

This requires an outside sensor (optional accessory) to be installed. To read the temperature from the Outside Sensor, press the OUTSIDE° button. The display will then show the current outside temperature.



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

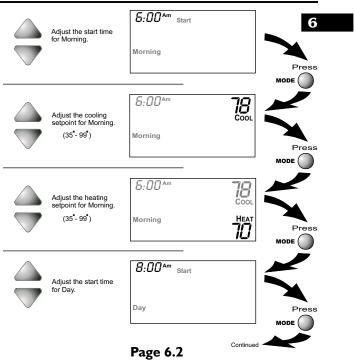
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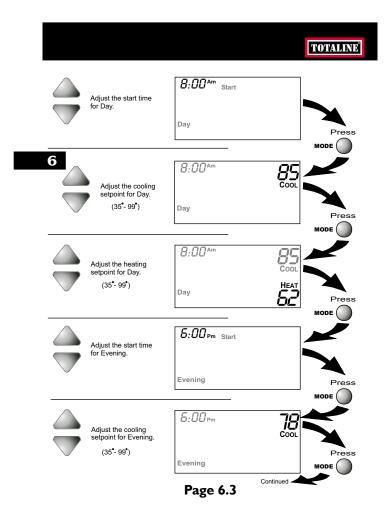
SECTION 6— Programming the Daily Schedule TOTALINE

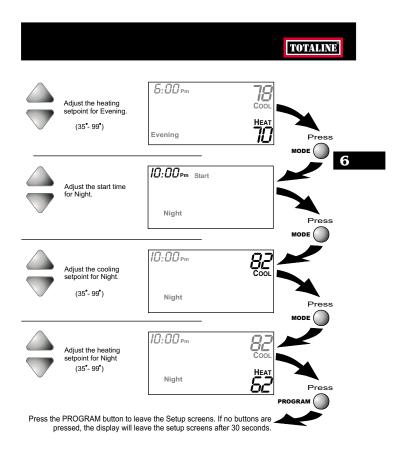
Programming a Daily Schedule

Press PROGRAM

Press the PROGRAM button to enter time period programming.







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SECTION 7— Programming the Fan Operation TOTALINE

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7	■ Using the Fan Button7	'.2
	Setting the Fan-Off Time	
	■ Delav7	' .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.



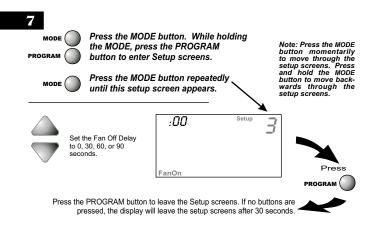
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Fan On indicates constant fan operation. You may turn the fan on even if the thermostat is in the Off mode. Pressing the FAN button toggles this feature on or off.

Setting the Fan-Off Time Delay

To increase the 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.



Page 7.3

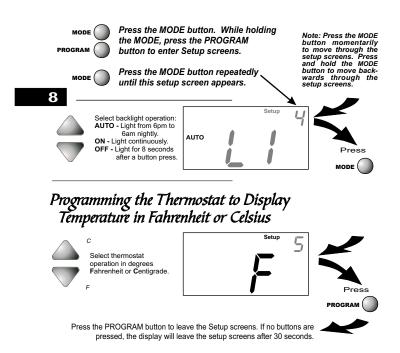
SECTION 8— Thermostat Display Options TOTALINE

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	to Display Temperature in	
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•	Locking/Unlocking the	
	Keypad8.3	



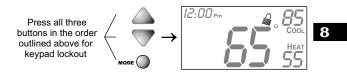
Turning On/Off the Backlight



Page 8.2

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 $\widehat{\mathscr{A}}$ icon will disappear from the display, then release the buttons.

SECTION 9 — Setting and Resetting Equipment Run-Times

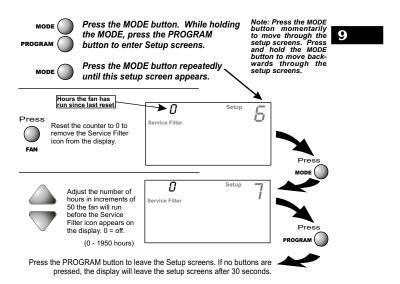
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Section 9 Contents:

	Setting and Resetting the	
	Service Filter (Fan Run-Time)	
9	Alarm	.9.2
	Setting and Resetting the UV	
	l ight Run-Time Alarm	9 :

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

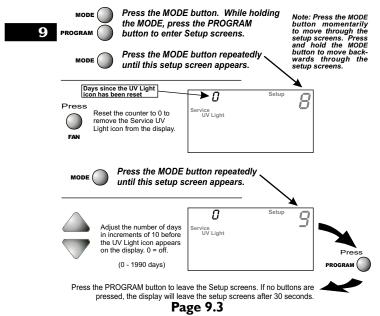
This counter keeps track of the number of hours of fan run-time whether the fan is energized in the Heating or Cooling modes, or in stand alone fan operation. The Service Filter icon will appear after the preset number of hours of fan run-time in step #7 (below) has been achieved. Setting this counter to zero in step #7 will prevent the Service Filter icon from ever appearing.



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

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 #9 (below). Setting the counter to zero in Step #9 will prevent the Service UV Light icon from ever appearing.



SECTION 10 Electric Heat and Heat Pump Operation

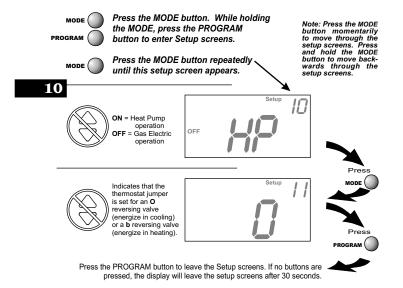
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	Reversing Valve Jumper	10
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	Jumper Setting	10.3
•	Using Emergency Heat	10.4

Viewing the Heat Pump and Reversing Valve Jumper Settings

Steps 10 and 11 are 'Read Only' and may only be set with the jumpers on the circuit board of the thermostat.

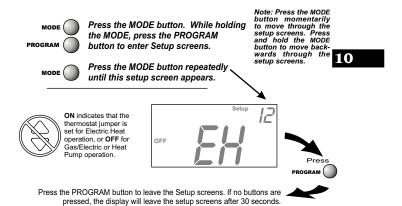


Page 10.2

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 the heater is only electric.

Step 12 is 'Read Only' and may only be set with the jumpers on the circuit board of the thermostat.



Page 10.3

Using Emergency Heat

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



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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.

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

SECTION 11— Timers and Deadbands Totaline

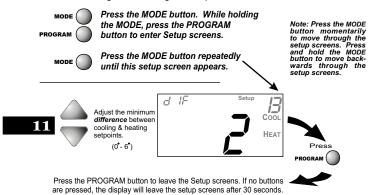
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Per Hour	11.3
 Adjusting the Dead 	dband11.4
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Adjusting the Heat/Cool Differential

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.



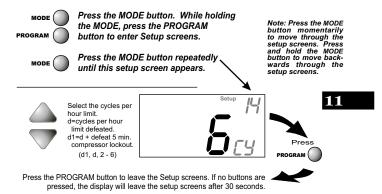
Note: To increase the spread between the heating and cooling setpoints, press the MODE button until only the heat setpoint is displayed. Adjust the desired setpoint. Press the MODE button until only the cool setpoint is displayed. Adjust the desired setpoint. Press the MODE button again to enter the Auto-Changeover mode where both the heat and cool setpoints are displayed.

Page 11.2



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 any button on the thermostat.



Page 11.3

Adjusting the Deadband

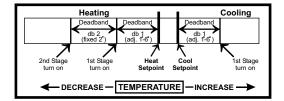
MULTI-STAGE OPERATION - Controls up to two Heat and one Cool stages.

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

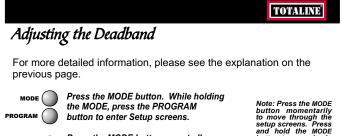
 (A) The 1st Stage has been on for a minimum of two minutes.

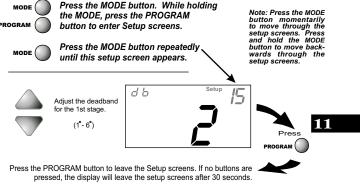
 And

 (B) The contract of the contract
- - (B) The temperature spread from the setpoint is equal to or greater than: the setpoint plus the 1st stage deadband (step #15, next page), plus two degrees.



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SECTION 12 — Factory Defaults and Calibration

TOTALINE

Section 12 Contents:

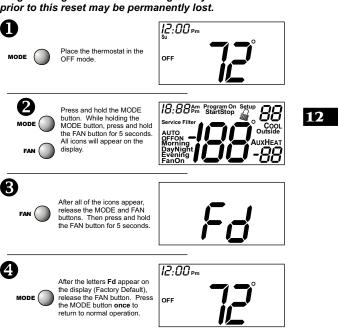
•	Resetting the Thermostat to the
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Resetting the Thermostat to the Factory Default Settings (for default values see page 14.1)

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

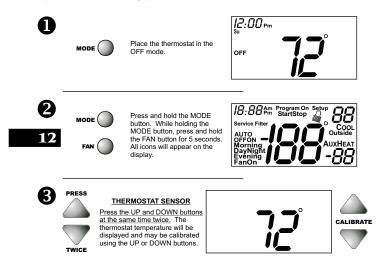
WARNING: This will reset all Time Period and Advanced Programming to the default settings. Any information entered prior to this reset may be permanently lost.



Page 12.2

Calibrating the Temperature and Humidity Sensors

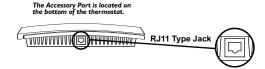
Under normal circumstances it will not be necessary to adjust the calibration of the temperature and humidity sensors. If calibration is required, please contact a trained HVAC technician to correctly perform the following procedure.



After calibration is complete, press the MODE button ${\bf once}$ to return to normal operation.



ACCESSORY PORT - The RJ11 Jack is used to connect the P374-1700 to the IR Receiver (P374-0431) for wireless communication or the EZ Programmer (P374-0432) 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 P/N P374-0431.

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 thermostats. For more information see the instruction sheet for the EZ Programmer P/N P374-0432.

WEB KIT (optional accessory) - The P374-1700 Thermostat is capable of communication via the World Wide Web and phone by installing the optional Web Kit. Heating and cooling functionality may be accessed and controlled through the phone or internet. For more information contact your dealer.

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	SECTION 14 — TOTALINE TOTALINE								
Ste	p# Description	Pg#	Range	Df*	Ste	p# Description	Pg#	Range	Df*
1	Programmable Thermostat	4.2	Yes/No	Yes	8	Reset UV Light Icon UV Light Run-Time	9.3 9.3	 0-1990	 0
2	Auto-Changeover Thermostat	4.3	Yes/No	Yes	10	Set Heatpump Jumper	10.2		
3	Fan Off Delay	7.3	0, 30, 60, 90	0	11	Setting Reversing Valve	10.2		
4	Thermoglow Backlight	8.2	Auto/On/ Off	Auto	12	Jumper Setting Electric Heat	10.3		
5	F or C Reset Service Filter	8.2 9.2	F/C	F	13	Minimum Heat/Cool Differential	11.2	0°-6°	2°
Ů	Icon				14	Cycles Per Hour	11.3	d1, d, 2-6	
7	Service Filter Run Time Set	9.2	0 - 1950	0	15	Deadband/Temp. Swing	11.5	1°-6°	2°

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*Df = Factory Default Setting

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TOTALINE SECTION 15



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SECTION 15 TOTALINE



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SECTION 16 Warranty

TOTALINE®

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 BECOMES VOID UPON 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 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.

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
- 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
- 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.
- 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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