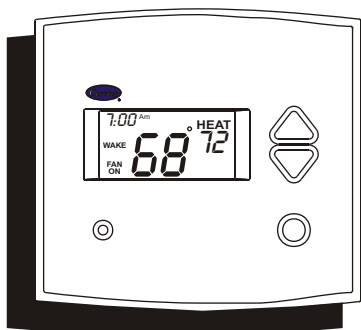




TSTATCCPSE01 PROGRAMMABLE

## DIGITAL THERMOSTAT

USER INFORMATION MANUAL FOR THE OPERATION AND MAINTENANCE OF YOUR NEW THERMOSTAT



• Heat Pump & Heat Cool

### PROGRAMMABLE DIGITAL THERMOSTAT

- Easy To Read Display
- Thermoglow™ Backlight
- Remote Sensor Ready
- Multi-Stage, **One for All**

• Meets California Title 24 Residential

NOTE TO INSTALLER: THIS MANUAL MUST BE LEFT WITH THE EQUIPMENT USER.

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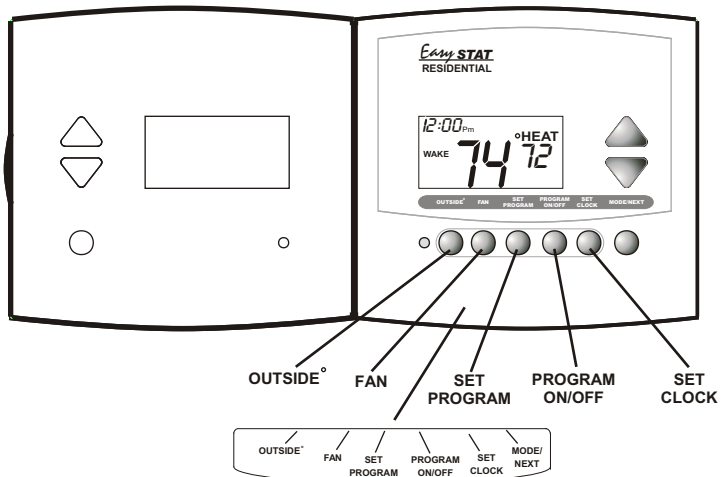
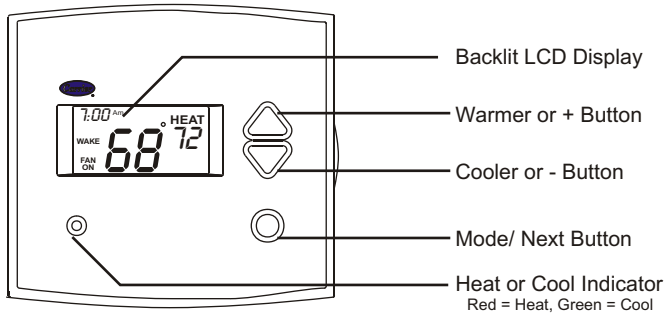
### **CAUTION**

Follow *Installation Instructions* before proceeding.

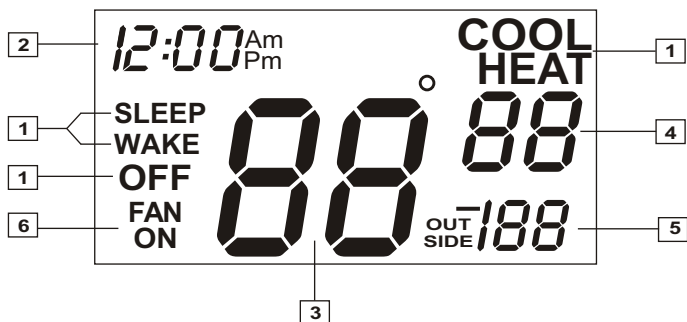
SET THERMOSTAT TO MODE "OFF" PRIOR TO  
CHANGING SETTINGS IN SETUP OR RESTORING  
FACTORY DEFAULTS.

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# Front Panel



This Big Letter label is also available for easy identification of the thermostat buttons.



## 1 Mode Indicators

Selects the operation mode of the equipment.

**WAKE/SLEEP** - indicates the stored program is running.

**HEAT** - indicates the heat mode.

**COOL** - indicates the air conditioning mode.

**OFF** - indicates the entire system is turned off.

## 2 Clock Display

Indicates the current time of day. *Page 4.*

## 3 Room Temperature Display

Indicates the current room temperature.

## 4 Desired Set Temperature

Indicates desired room temperature. *Page 7.*

## 5 Outside Indication

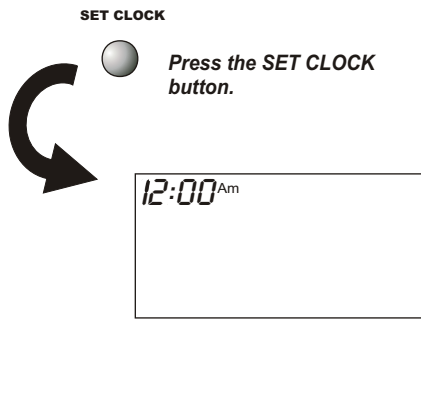
Indicates the temperature displayed is from the optional outside sensor.

## 6 Fan Operation Indication

**Fan On** - indicates constant, continuous fan operation

When **Fan On** is not lit - indicates the fan will only operate when necessary to heat or to cool.

## Quick Start *Set the Clock and Go*



*During Setup & Programming:*

*Pressing the Up and Down buttons will modify the flashing selection.*

*(Represented in dark black)*

To adjust the clock use



buttons.

To adjust just the Hours; hold the Fan button in while pressing the Up or Down buttons.

**Press the SET CLOCK button as above to return to normal operation, after setting the clock.**

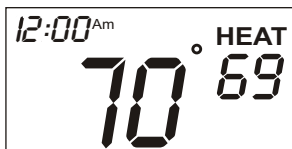
**SET CLOCK**



This thermostat is preprogrammed from the factory to operate 1 or 2 Stage equipment without the need for further programming. To optimize the installation of this thermostat follow the instructions in the Advanced Setup section.

## Basic Operation

### Select Desired Temperature



In any mode, adjust the desired Set Temperature with

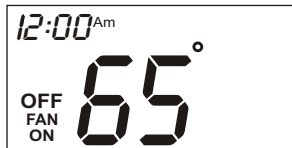


buttons.

Pressing the up/down buttons in Heat or Cool modes will adjust only the heat or cool set temperature.

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### Fan Operation



**Fan On** indicates constant fan operation. This feature is active even if the thermostat is set to **Off**.

## Basic Operation

### Select Mode

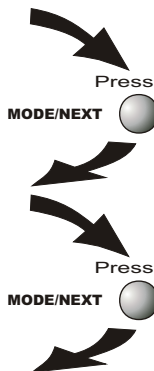
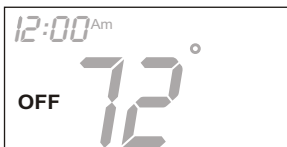
The **HEAT** setting indicates the temperature the room has to reach before the furnace will turn on to heat the room.



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



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



**NOTE:** WHEN THE THERMOSTAT IS IN THE **OFF** MODE, YOU MAY TURN THE THERMOSTAT BACK ON BY PRESSING THE **MODE/NEXT**, **UP**, OR **DOWN** BUTTONS.



The thermostat must be in the Heat mode to access these setup steps.

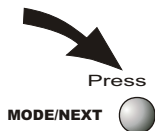
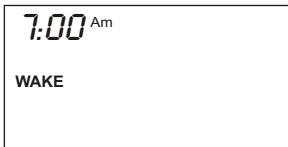
**SET PROGRAM**



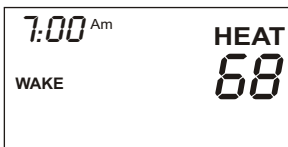
Press the Set Program button.



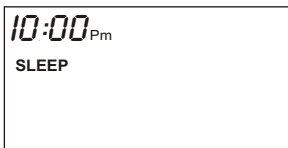
Select the start time for Wake.



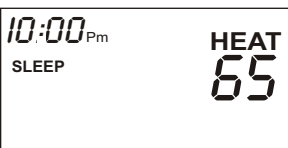
Adjust the heating setpoint for Wake.  
(35 - 99°)



Select the start time for Sleep.



Adjust the heating setpoint for Sleep.  
(35 - 99°)



Press the Program Set or Mode/Next button to leave setup and return to normal operation



OR

Press the Program On / Off button to leave setup and start running the updated program.



**NOTE:** If no buttons are pressed the thermostat will leave setup and return to normal operation after 60 seconds.



The thermostat must be in the Cool mode to access these setup steps.

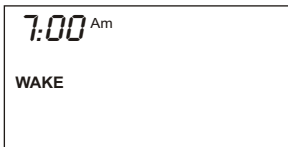
**SET PROGRAM**



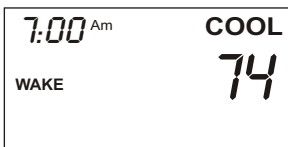
Press the Set Program button.



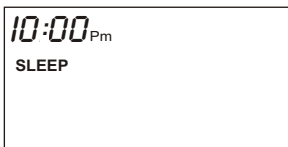
Select the start time for Wake.



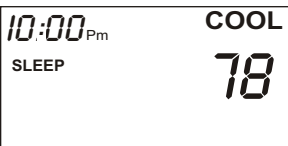
Adjust the cooling setpoint for Wake.  
(35 - 99°)



Select the start time for Sleep.



Adjust the cooling setpoint for Sleep.  
(35 - 99°)



Press the Program Set or Mode/Next button to leave setup and return to normal operation



OR

Press the Program On / Off button to leave setup and start running the updated program.



**NOTE:** If no buttons are pressed the thermostat will leave setup and return to normal operation after 60 seconds.

# Advanced Setup

MODE/NEXT



PROGRAM ON / OFF



**Press the Mode/Next button. While holding the Mode/Next, press the Program On / Off button to enter Setup screens.**

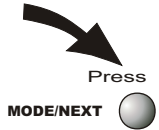
**NOTE:** Each step # is located at the bottom right corner of the display for easy reference.



Yes

Select Yes to have the backlight always on, No to have the backlight turn off after 8 seconds after a key press.

No



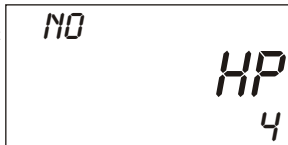
Select whether the thermostat will be straight heat, or straight cool, or both heat and cool.



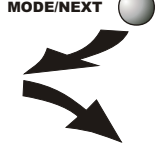
Yes

Select Yes if the thermostat is controlling a heatpump, No for all other types of equipment.

No



Select the reversing valve polarity for Heat Pump, O or B. (Step 5 only appears if step 4 is Yes for heat pump).



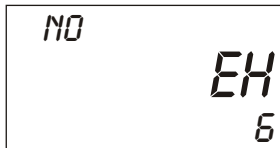
Continued

## Advanced Setup



Yes  
Select Electric Heat Yes  
if the strip heater is your  
**First Stage** of heat. (Step 6  
only appears if step 4 is Yes for  
heat pump).

No



MODE/NEXT



Adjust the deadband  
from 1 - 6 degrees.

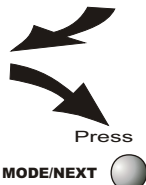


MODE/NEXT



Select the cycles per  
hour limit.  
d=cycles per hour  
limit defeated.  
d1=d + defeat 5 min.  
Compressor lockout.

(d, d1, 2 - 6)



MODE/NEXT



C  
Select thermostat  
operation in degrees  
Fahrenheit or  
Centigrade.

F



Press  
PROGRAM  
ON / OFF

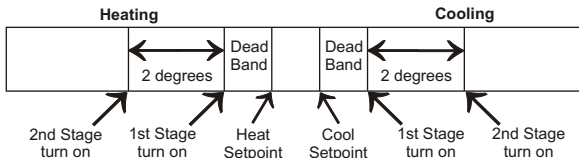
To Exit

## Advanced Setup Table

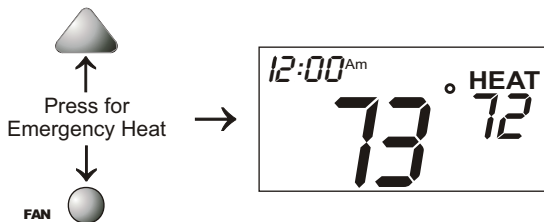
Step #	Description	Range	Factory Default
1	Time of day clock set	24 hour	12:00 Am
2	Thermoglow backlight	Yes/No	Yes
3	Heat Cool	Heat/Cool	Heat/Cool
4	Configure for Heat Pump	Yes/No	No
5	Reversing Valve polarity	O / B	O
6	Electric Heat	Yes/No	No
7	Deadband, Temperature swing	1 - 6	2
8	Cycles per hour	d, d1, 2 - 6	6
9	Fahrenheit or Centigrade	F / C	F

## About Advanced Features & Operation

- \* **MEMORY BACKUP** - In the event of a power loss, the thermostat will retain the stored program settings without external power or batteries.
- \* **2 STAGE OPERATION** - The 2nd Stage of heat or cool is turned on when (1) the 1st Stage has been on for a minimum of two minutes, **and** (2) the temperature spread from the setpoint is equal to or greater than: *the setpoint plus the deadband, plus 2 degrees.*



- \* **EMERGENCY HEAT** - Is a feature available to Heat Pump installations. To turn on Emergency Heat press in the Fan button. While holding the Fan button press the Up button. You must be in HEAT mode to activate emergency heat.



During Emergency Heat the thermostat will not attempt to energize the 1st stage compressor. When there is a heat demand, the thermostat engages the 2nd stage of heat along with the fan. Exiting Emergency Heat is the same as entering. During Emergency Heat only OFF and HEAT are available.

## About Advanced Features & Operation

- \* **ELECTRIC HEAT** - Selecting Electric Heat on, *page 9, step 6*, will cause the thermostat to turn on the fan immediately any time there is a heat demand. Since all gas furnaces control the fan, this feature should be off unless the heater is only electric.
- \* **FACTORY DEFAULTS** - If, for any reason it is desirable to return all stored settings back to the factory default settings, press the Mode/Next button. While holding the Mode/Next button in, press the Fan button for 5 sec. All icons will appear. Press and hold in the Fan button until **Fd** appears. This resets all factory settings. To return to normal operation, press the Mode/Next button once more.
- \* **OUTSIDE SENSOR (Optional Accessory)** - When connected to terminals RS+5, RS, & GND on the back of the thermostat, the thermostat will read the temperature from the Outside Sensor when asked to. This thermostat will not control to this sensor, it is only to read outside temperature.

To read the temperature from the Outside Sensor, press the Outside button. The display will then show Outside temperature ( two dashes will appear if no sensor is connected --). Pressing the Outside button will then return the display to normal the display.

The Outside Sensor is available in a wired or wireless version. The wired sensor can be connected to the thermostat with **up to 500' of 20 ga. or 300' of 18 ga. Unshielded, thermostat wire.**

*See the Outside Sensor instructions for further details.*

## About Advanced Features & Operation

- \* The most common way to program the EasyStat thermostat is to program it just as you would an alarm clock. You program the stat in the HEATING MODE, normal winter operation, and you can also program it in the COOLING MODE, normal summer operation. It will keep these set points stored and use them any time that the program is on, (WAKE/SLEEP -shown on display). It will only use the COOLING set points when the mode is in cooling and only use the HEATING set points when the mode is heating.

To program the thermostat, just put it in the HEATING or COOLING MODE, press the SET PROGRAM button, and then the WAKE TIME will flash. Use the UP and DOWN keys to select the time that you wish to have the temperature turned up in the morning. You should probably set the time for about 15 minutes before you awake for air conditioning or gas heat, and about 30 minutes ahead of when you wake for heat pump operation. Press the MODE/NEXT button again and simply use the UP and DOWN keys to select the temperature you wish the next morning.

Press the MODE/NEXT key again and do the same adjustments as above for the SLEEP period. This will be for the normal operation where you wish to have the temperature set back when you go to bed at night and then set up to a comfortable temperature when you get up in the mornings.

Another way to program this thermostat is for those who wish to set the temperature back manually before they go to bed at night, but wish to wake to a comfortable room and also wish to set the temperature back when they leave for work, but wish to return to a comfortable house. Simply think of the SLEEP period as a RETURN period. Set the WAKE period for a comfortable temperature when you wake in the mornings and the SLEEP period for a comfortable temperature for when you return from work.

## About Advanced Features & Operation

Simply turn the thermostat down when you go to bed at night and then you wake up to a comfortable temperature. Turn the thermostat down when you leave for work and you will return to a comfortable temperature when you get home, at the same time receive the large energy savings, up to 30%, of not having your house heated or cooled when you are not there.

On Saturdays and Sundays, since you are there all day long, you do not set the temperature back so the house is maintained at a comfortable temperature all day.

This thermostat is so easy to set, you can easily change the SLEEP/RETURN temperature. Let's say you were going to the mall for two or three hours and wish to save energy, just set the SLEEP/RETURN time to when you expect to return from the mall and set the temperature down when you leave from the house. You get the energy savings and also a nice warm or cool house when you return.

# 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 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 MANY 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:

1. Normal maintenance as outlined in the installation and servicing instructions or owner's manual including filter cleaning and/or replacement and lubrication.
2. Damage or repairs required as a consequence of faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
3. Failure to start due to voltage conditions, blown fuses, open circuit breakers or other damages due to the inadequacy or interruption of electrical service.
4. Damage as a result of floods, winds, fires, lightning, accidents, corrosive environments or other conditions beyond the control of the Manufacturer.
5. 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 from any reason whatsoever including additional or unusual use of supplemental electric heat.
8. ANY SPECIAL INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER. Some states do not allow the exclusion of incidental or consequential damages, so the above 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.

P/N 88-315

Catalog No. 03TS-TA36/Form No. OMTSTAT-23