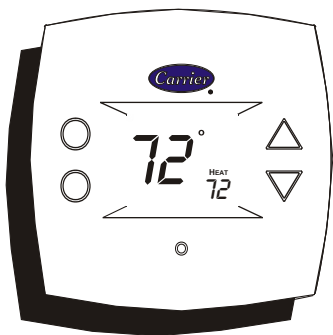




TSTATCCN2W01 NON-PROGRAMMABLE

DIGITAL THERMOSTAT

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



• Heat only, or Cool only

NON-PROGRAMMABLE DIGITAL THERMOSTAT

- 2 - Wire Operation
- No Batteries Required
- Large, Easy To Read Display
- Thermoglow™ Backlight
- Keypad Lock

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

Table Of Contents

FRONT PANEL	2
DISPLAY	3
BASIC OPERATION	4
ADVANCED SETUP	6
ABOUT ADVANCED OPERATION	9
WARRANTY	12



CAUTION

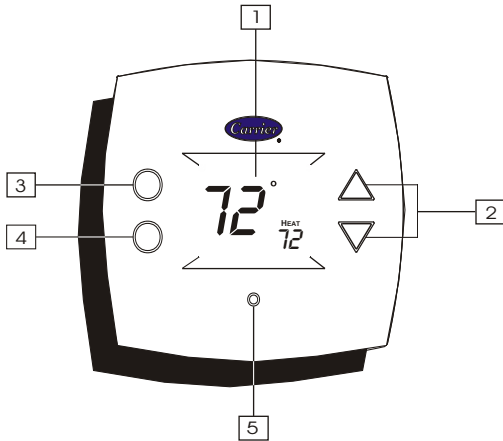
Follow *Installation Instructions* before proceeding.

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

Residential Light Commercial Systems © Carrier Corporation 4/01

TSTATCCN2W01

Front Panel



1 **Liquid Crystal Display**
with Thermoglow™

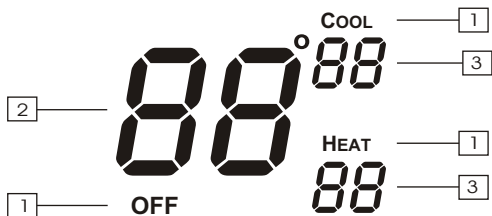
2 **Up/Down Buttons**

3 **On/Off Button**

4 **Outside Button**

5 **Heat or Cool Indicator**
Heat = Red, Cool = Green

Display



1 Mode Indicators

Selects the operation mode of the equipment.

HEAT - indicates the heat mode.

COOL - indicates the air conditioning mode.

OFF - indicates the entire system is turned off.

Page 6.

2 Room Temperature Display

Indicates the current room temperature.

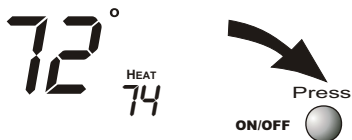
3 Desired Set Temperature

Indicates desired room temperature(s). *Page 7.*

Basic Operation

Select Mode

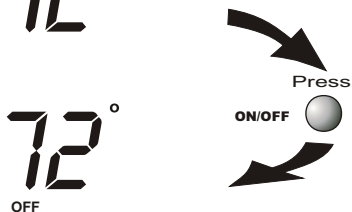
The **HEAT** setting indicates the temperature the room has to reach before the furnace will turn on to heat the room.



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: The operating mode of this thermostat may be changed from the factory default HEAT operation, to COOL operation in the Advanced Setup Section.

In the following pages Cool operation may be substituted for Heat operation if the factory default is changed in Advance Setup Step #3.

Basic Operation

Select Desired Temperature



Adjust the
desired Set Temperature
with



buttons.

Pressing the Up or Down buttons in Heat or Cool will adjust only the Heat or Cool set temperature.

Outside Temperature





This feature is only available if an optional wired, or wireless Outside Sensor is connected to the thermostat.




Pressing the Outside button will display the outside temperature. A subsequent press of the Outside button will return the display to the previous screen. Normal operation will continue while the Outside temperature is being displayed.


Advanced Setup

ON/OFF  **Press the On/Off button.**
OUTSIDE  **While holding the On/Off button, press the Outside button for 2 seconds to enter Setup screens.**

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

 **COOL**


Select HEAT or COOL operation.

 **HEAT**


 **2**

Adjust the deadband from 1 - 6 degrees.

 **db**

 **3**

Select the cycles per hour limit.
 d=cycles per hour limit defeated.
 d1=d + defeat 5 min.
 Compressor lockout, lockout is for Cool operation.

 **6**

(d, d1, 2 - 6)

cy



1

HEAT

Press

ON/OFF 

2

2

db

Press

ON/OFF 

3

6

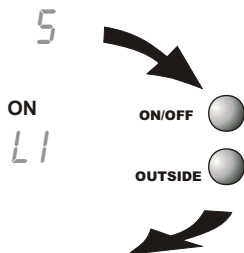
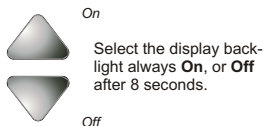
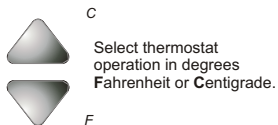
cy

Press

ON/OFF 

Continued

Advanced Setup



***Press the On/Off button.
While holding the On/Off press the
outside button to leave the Setup screens.
If no buttons are pressed, the display will
leave the setup screens after 60 seconds.***

Advanced Setup Table

Step #	Description	Range	Factory Default
1	Operating Mode - Heat or Cool	Heat / Cool	Heat
2	Deadband or Temperature swing	1 - 6	2
3	Cycles per hour	d, d1, 2 - 6	6
4	Fahrenheit or Centigrade	F / C	F
5	Thermoglow backlight	Off / On	On

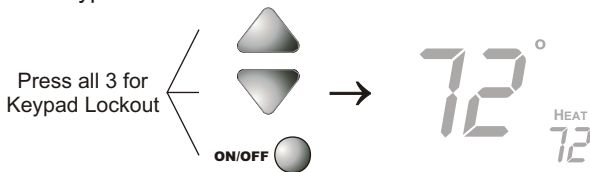
OUTDOOR SENSOR

An outdoor temperature sensor may be connected to this thermostat. Toøline offers wired or wireless models. Compatible models include: P474-0401RF/REC & P474-0400.

Consult the remote sensor instruction sheet for wiring connections.

About Advanced Features & Operation

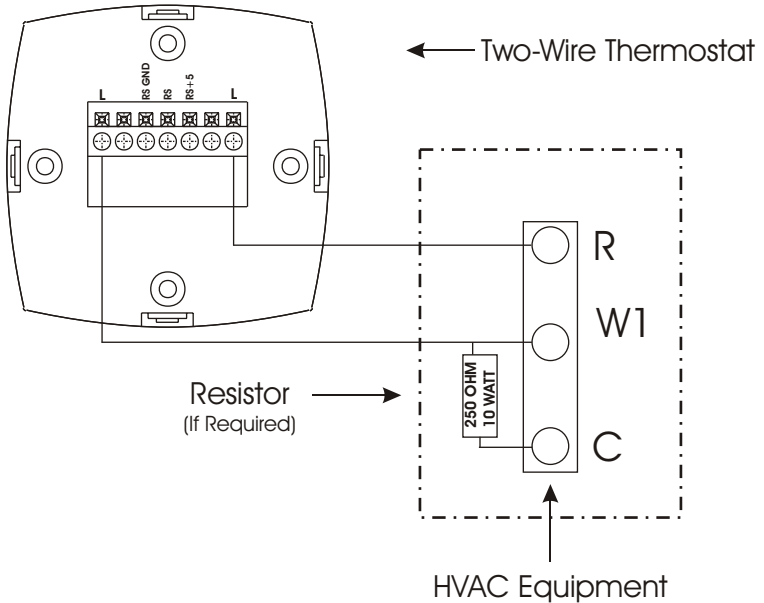
- * **KEYPAD LOCK** - To prevent unauthorized use of the thermostat, the front panel buttons may be disabled. To disable, or 'lock' the keypad, press and hold in the On/Off button. While holding the On/Off button in, press the Down button, while holding the Down button in press the Up button. The keypad is now locked.



To **unlock** the buttons, again press and hold in the On/Off button. While holding the On/Off button in, press the Down button, while holding the Down button in press the Up button. The keypad is now unlocked.

- * **FACTORY DEFAULTS** - If, for any reason it is desirable to return all stored settings back to the factory default settings, press the On/Off button. While holding the On/Off button in, press the Down button for 5 sec. All icons will appear. Press and hold in the Outside button until **Fd** appears. This resets all factory settings. **To calibrate room temperature**, press the On/Off button once more. At this point use the Up and Down buttons to calibrate room temperature, if needed. Press the On/Off button to return to normal operation. **NOTE CAUTION ON PAGE 1.**

TWO-WIRE THERMOSTAT INSTALLATION WIRING



If the Two-Wire thermostat is losing time or showing PF or P- it may be necessary to install the 10 watt 250 ohm resistor that is supplied with the thermostat.



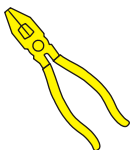
Proper installation of the thermostat will be accomplished by following these step by step instructions. If you are unsure about any of these steps, call a qualified technician for assistance.



Assemble tools as shown below.



*Flat Blade
Screwdriver*



*Wire cutter
& Stripper*



*Drill with 3/16
inch Drill Bit
(when not using
j-box)*



Make sure your Heater/Air Conditioner is working properly before beginning installation of the thermostat.



Carefully unpack the thermostat. Save the screws, wall anchors, and instructions.



Turn off the power to the Heating/Air Conditioning system at the main fuse panel. Most residential systems have a separate breaker for disconnecting power to the furnace.



Remove the cover of the old thermostat. If it does not come off easily check for screws.



Loosen the screws holding the thermostat base or subbase to the wall, and lift away.

Disconnect the wires from the old thermostat. Tape the ends of the wires as you disconnect them, and mark them with the letter of the terminal for easy reconnection to the new thermostat.



Keep the old thermostat for reference purposes, until your new thermostat is functioning properly.



Remove the backplate connector from the rear of the thermostat. Install wires as directed below. When finished, snap thermostat on to backplate.



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

Wire from the old thermostat terminal marked	Function	Install on the new thermostat connector marked
G or F	Fan	G
Y1, Y or C	Cooling	Y1
W1, W or H	Heating	W1,O,B
Rh, R, M, Vr, A	Power	R
C	Common	C *
O/B	Rev. Valve	W1,O,B**
Y2	2nd Stage Cool	Y2
W2	2nd Stage Heat	W2
RS+5	Remote Sensor +5vdc	
RS	Remote Sensor Signal	
RS G	Remote Sensor Ground	
CK1	Dry Contact Switch 1	
CK2	Dry Contact Switch 2	

* C may not be used on all systems.

** O/B is used if your system is a Heat Pump.

Warranty

Five-Year Warranty - This Product is warranted to be free from defects in material and workmanship. If defect appears within five years from the date of original installation, whether or not actual use begins on that date, then the product does 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 owners 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 88-310

Form No. OMTSTAT-35
Catalog No. 03TS-TA49