Model TSTATG2111-2



### **1 Day Programmable Digital Thermostat** MultiStage 2+1

R

GREAT

RESIDENTIAL



Thank goodness for Goodman."



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

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





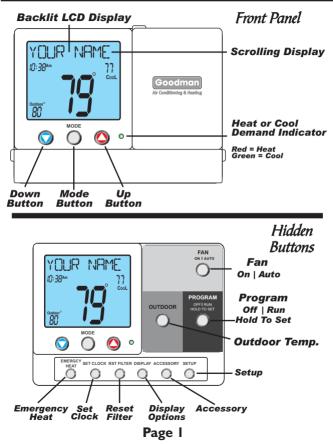
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# Glossary of Terms

- Auto-Changeover: A mode in which the thermostat will turn on the heating or cooling based on room temperature demand.
- **Cool Setpoint:** The warmest temperature that the space should rise to before cooling is turned on (without regard to deadband).
- **Deadband:** The number of degrees the thermostat will wait, once a setpoint has been reached, before energizing heating or cooling.
- **Differential:** The forced temperature difference between the *heat set- point* and the *cool setpoint*.
- **Heat Setpoint:** The coolest temperature that the space should drop to before heating is turned on (without regard to deadband).
- Icon: The word or symbol that appears on the thermostat display.
- **Mode:** The current operating condition of the thermostat (i.e. Off, Heat, Cool, Auto, Program On).
- **Non-Programmable Thermostat:** A thermostat that does not have the capability of running *Time Period Programming*.
- **Programmable Thermostat:** A thermostat that has the capability of running *Time Period Programming*.
- Temperature Swing: Same as Deadband.
- **Time Period Programming:** A program that allows the thermostat to automatically adjust the *heat setpoint* and/or the *cool setpoint* based on the time of the day.

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Display Features



The scrolling display will be used to help you easily navigate the setup screens in the thermostat

#### Clock

Indicates the current time. This clock is also used to program the time period schedule.



5

2

#### Mode Indicators

Selects the operational mode of the equipment.

HEAT - Indicates the heating mode.

COOL - Indicates the air conditioning mode.

HEAT & COOL - Indicates the system will automatically changeover between heat and cool modes as the temperature varies. OFF - Indicates heating and cooling is turned off.

#### Program icon

Indicates that Time Period Programming is running or is enabled to be set.

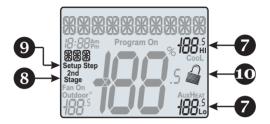
### Room Temperature Display

Indicates the current room temperature and displays the outdoor temperature when selected.

### 6 Outdoor icon

Indicates the temperature displayed is from the optional outdoor sensor. Page 2

### **Display Features**





7 Desired Set Temperature

Indicates desired room temperature(s). Also displays the highest and lowest temperatures for the day.



#### 8 2nd Stage icon

Indicates what stage of heating is currently energized.



#### 9 Setup Step icon

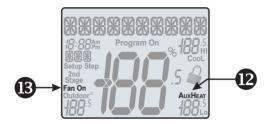
Indicates the step number when the thermostat is in the setup mode.



#### icon

Indicates the keypad has been locked.

### Display Features





### AuxHeat icon

Indicates 2nd stage electric strip heat is being used when the thermostat is programmed for Heat Pump operation.

#### B Fan On icon

Indicates constant, continuous fan operation. When Fan On is not lit - indicates the fan will only operate when necessary to heat or to cool.

**Ouick Start** 

### During Setup and Programming:

Press the UP or DOWN buttons to modify the selection. Press the MODE button to advance and <u>confirm</u> through the setup steps.

Setting the Clock



Press the SET CLOCK button. Adjust the clock using the UP or DOWN buttons. Press the SET CLOCK button to confirm settings.

**TIP**: To adjust the time by hours press and hold the FAN button while pressing the UP or DOWN buttons.

Selecting the Heat or Cool Mode

Select 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-Changeover) - AUTO will automatically select heat or cool based on room temperature demand.

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

**NOTE** - This thermostat has a fixed two degree deadband. With a Cool setpoint of 72 degrees Fahrenheit, cooling will energize at a room temperature of 74 degrees. With a Heat setpoint of 68 degrees Fahrenheit, heating will energize at 66 degrees.

# Quick Start

# Selecting Your Desired Temperature

AUTO-CHANGEOVER MODE - Pressing the UP or DOWN buttons in Auto or Program mode will adjust <u>both</u> the heat and cool setpoints simultaneously. To adjust heat and cool setpoints individually, choose HEAT mode to adjust the heat setpoint and COOL mode to adjust the cool setpoint, then return to AUTO mode.

HEAT <u>OR</u> COOL MODE - Pressing the UP or DOWN buttons in Heat or Cool mode will adjust only the heat <u>or</u> cool setpoints individually displayed.

# Using the Fan Button

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.

FAN ON/AUTO

# Viewing the Outdoor Temperature Sensor

OUTDOOR TEMP - Press the OUTDOOR button to view the current outdoor temperature. Press the OUTDOOR button again to return to normal operation.

Note: If no outdoor sensor is connected, 2 dashes  $[\mbox{--}]$  will appear with the first button press.

## Using the Reset Filter Button

Reset Filter - Press the RST FILTER button to view the current filter runtime. Press the OUTDOOR button to reset the filter runtime counter to 0. Press the RST FILTER button again to return to normal operation.

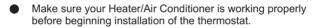




### Remove & Replace the Old Thermostat

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

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



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

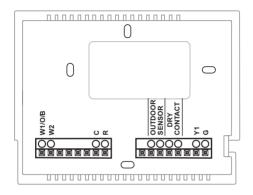
### Wire Connections

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

Wire from the old thermostat terminal marked	Function	Install on the new thermostat connector marked
G or F	Fan	G
Y1, Y or C	Cooling	Y1
W1, W or H	Heating	W1/O/B
Rh, R, M, Vr, A	Power	R
С	Common	С
O/B	Rev. Valve	W1/O/B*
W2	2nd Stage Heat	W2
Ck1	Dry Contact Switch	DRY CONTACT
CKGND	Dry Contact Switch	DRY CONTACT
S1, OUT -	Outdoor Sensor	OUTDOOR
S2, OUT +	Outdoor Sensor	OUTDOOR

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

### The TSTATG2111-2 Thermostat Backplate



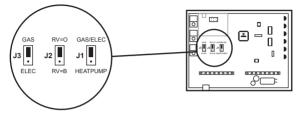
W1/O/B	1st stage heat/reversing valve
W2	2nd stage heat circuit
С	24 VAC common
R	24 VAC Return

OUTDOOR	Outdoor Sensor	
SENSOR	connections	
DRY	Dry Contact	
CONTACT	connections	
Y1	1st stage compressor	
G	Fan relay	

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

## Explanation of Thermostat Jumpers

Jumpers are located on the back of the thermostat



GAS/ELEC GAS/ELEC

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

\*For some commercial heat pumps, this jumper will need to be set for GAS/ELEC. Consult the commercial heat pump literature.



When J1 is configured to control a heat pump, this jumper (J2) must be set to control the appropriate reversing valve. If RV=O is chosen, the W11/O/B terminal will energize in cooling. If RV=B is chosen, the W11/O/B terminal will energize in heating.



#### When J1 is set for GAS/ELEC:

This jumper (J3) controls how the thermostat will control the Fan (G) terminal in heating mode. When <u>GAS</u> is chosen, the thermostat <u>will not</u> energize the Fan (G) terminal in heating. When <u>ELEC</u> is chosen the thermostat <u>will</u> energize the fan in heating.

# Sample Wiring Diagrams

**Conventional Heating and Cooling Systems** 

3 Wire, Heat Only Residential & Commercial 1 S with no Fan.	tage Heating	Resid		ol Only & Commercial 1 Stage Cooling.
R 24VAC Power C 24VAC Commo W1/O/B 1st Stage Heat		R C Y1 G		24VAC Power 24VAC Common 1st Stage Cool Fan
J1 = Gas/Elec J2 = O (not used) J3 = Gas		J2	= = =	Gas/Elec O (not used) Gas
5 Wire, 1 Stage Cooling, 1 Residential & Commercial 1 S with 1 stage Gas Heat.		5 Wire, 1 Stage Cooling, 1 Stage Heat Residential & Commercial 1 Stage Cooling, with 1 stage Electric Heat.		
R24VAC PowerC24VAC CommonW1/O/B1st Stage HeatY11st Stage CoolGFan		R C W1/O/ Y1 G	в	24VAC Power 24VAC Common 1st Stage Heat 1st Stage Cool Fan
J1 = Gas/Elec J2 = O (not used) J3 = Gas		J2	= = =	Gas/Elec O (not used) Electric

Re	6 Wire, 1 Stage Cooling, 2 Stage Heat Residential & Commercial 1 Stage Cooling, with 2 stage Gas Heat.				
R C W1/ W2 Y1 G	O/B	24VAC Power 24VAC Common 1st Stage Heat 2nd Stage Heat 1st Stage Cool Fan			
J1 J2 J3	= = =	Gas/Elec O (not used) Gas			

# Sample Wiring Diagrams

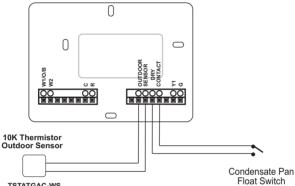
Heat Pump Systems

Residenti	Stage Cooling, 1 Stage Heat al & Commercial Heat Pump with sing Valve
R C W1/O/B Y1	24VAC Power 24VAC Common Reversing Valve 1st Stage Compressor (Cool or Heat)
G	Fan
J1 = J2 = J3 =	Heat Pump O Gas

6 Wire, 1 Stage Cooling, 2 Stage Heat Residential & Commercial Heat Pump with 'O' Reversing Valve					
R	24VAC Power				
с	24VAC Common				
W1/O/B	Reversing Valve				
Y1	1st Stage Compressor				
	(Cool or Heat)				
W2	Aux Heat				
G	Fan				
J1 =	Heat Pump				
J2 =	0				
J3 =	Electric				

# Sample Wiring Diagrams

### Dry Contact and Outdoor Sensor



TSTATGAC-WS

# Installation Instructions: Test Operation

This thermostat has a diagnostic feature that enables testing of all outputs. This feature is contained in **Technician Setup**.

To enter Technician Setup, press and hold the SETUP button for 5 seconds until all the icons appear. Follow the next steps to view settings and test equipment.

- 1. Press MODE to view the version numbers of the thermostat.
- 2. Press MODE again to view the jumper settings and current state of the Dry Contact terminals.
- 3. Press MODE again and the scrolling display will read "TURN ON EQUIPMENT?" Press UP for Yes or DOWN for No.

If Yes is chosen, press UP to turn on heat or DOWN to turn on Cooling. The scrolling display will read "NOTHING ON." Next:

Press UP to turn on and cycle up through the heating stages. Press DOWN to turn the heating stages off. Press MODE to exit.

Press DOWN to turn on and cycle down through the cooling stages. Press UP to turn the cooling stages off. Press MODE to exit.

 Press MODE until "CALIBRATE SENSORS?" appears on the scrolling display. Press UP for Yes or DOWN for No. Use UP or DOWN to modify your selection.

To exit Technician Setup at any time, press the SETUP button. Technician Setup will automatically exit after 10 minutes if no buttons are pressed.

# User Setup: Backlight Operation

### How to Change Settings in the Setup Screens

To enter Advanced Setup, press the SETUP button, then press MODE. Use the UP or DOWN buttons to adjust the value of your selection. Press MODE to advance to the next setup step. Press SETUP again to leave the setup screens.



# Backlight (Setup Step 3)

The thermostat backlight may be set to be always on, on temporarily with any button press, on throughout the evening, or always off. (For always off, see Backlight Level)

Press the SETUP button, then press MODE repeatedly until the Backlight setup step appears. Use the UP or DOWN buttons to make selection. Press MODE to advance to the next step. Press SETUP to leave the setup screens.

Backlight Off - Backlight turns on with any button press and turns off after 8 seconds.

Backlight On - Backlight is on continuously.

Backlight 6pm to 6am - Backlight turns on at 6pm and turns off at 6am.

### Backlight Level (Setup Step 4)

The backlight can be adjusted between always off and seven levels of brightness. Press the SETUP button, then press MODE repeatedly until the Backlight setup step appears. Use the UP or DOWN buttons to adjust the brightness. Press MODE to advance to the next step. Press SETUP to leave the setup screens.

## Language (Setup Step 16)

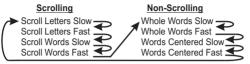
Setup step instructions on the scrolling display can be set for English, Spanish, or French.

Press the SETUP button, then press MODE repeatedly until the Language setup step appears. Use the UP or DOWN buttons to make selection. Press MODE to advance to the next step. Press SETUP to leave the setup screens.

# User Setup: Scrolling Screen and Display Options

Scrolling Display Method (Setup Step 17)

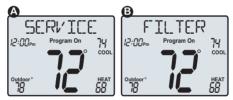
This option allows the user to choose how the scrolling text is displayed. Options are:



Press the SETUP button, then press MODE repeatedly until the Scrolling Method setup step appears. Use the UP or DOWN buttons to make a selection. Press MODE to advance to the next step. Press SETUP to leave the setup screens.



Example of "Whole Words Centered":

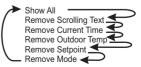


## Display

This option allows the user to "de-clutter" the thermostat display screen by removing icons from the main display. The room temperature will always be shown. Service information may also be viewed by pressing and holding the DISPLAY button.

Each press of the DISPLAY button will remove icons. Keep pressing DISPLAY to make icons reappear.

Press and hold DISPLAY for 5 seconds to view a name and phone number to call for service.



Any removed icons will be displayed temporarily when a setting change is made.

User Setup

Emergency Heat



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

To initiate the Emergency Heat feature, **Press and hold the EMERGCY HEAT button** for 2 seconds. During Emergency Heat operation the thermostat will turn on the fan and auxiliary stages of heat when there is a demand for heat. The 1st stage of heating and all stages of cooling will be unavailable. To exit Emergency Heat, press the EMERGCY HEAT button.



The ACCESSORY button allows the user to view wired and wireless sensors and "link" these and other wireless devices to the thermostat via an optional RF module. Press the ACCESSORY button to enter the Accessory setup screen. Press UP to view linked and wired accessories. Follow the instructions included with the wireless accessory to begin linking process. Next, press DOWN to enter the wireless linking mode. Press MODE to initiate linking. Press ACCESSORY to return to the main screen. **NOTE:** A wired outdoor sensor's temperature reading is updated once every minute; a wireless outdoor sensor's temperature reading is updated once every 5 minutes.

# User Setup: System Runtimes

These setup steps allow the user to monitor equipment runtimes and program service alerts.

Runtime hours or days appear in the clock display.



## Service Filter Runtime (Setup Steps 5-6, 12-13)

Press the SETUP button, then press MODE repeatedly until the desired setup step appears. Use the UP or DOWN buttons to make selection. Press MODE to advance to the next step. Press SETUP to leave the setup screens.



Current Service Filter Runtime Hours (Setup Step 5) - This counter keeps track of the number of hours of fan runtime in the Heating mode, Cooling mode, and in stand alone Fan operation. Press FAN to reset.

Current Service Filter Calendar Days (Setup Step 6) - This counter displays the total number of calendar days that have elapsed since the counter was reset to help the user track Fan runtime. Press FAN to reset.

Set Service Filter Runtime Hours (Setup Step 12) - This timer allows the user to specify the number of hours the fan will run before the "Replace Filter" alert will be displayed. Press DOWN continuously until OFF is displayed to disable this alert.

Set Service Filter Calendar Days (Setup Step 13) - This timer allows the user to specify the number of calendar days that will elapse before the "Replace Filter" alert will be displayed. Press DOWN continuously until OFF is displayed to disable this feature.

# UV Lamp Runtime (Setup Steps 10, 14)

Current UV Lamp Calendar Days (Setup Step 10) - This counter displays the total number of calendar days that have elapsed to help the user track UV lamp runtime. Press FAN to reset.

Set UV Lamp Calendar Days (Setup Step 14) - This timer allows the user to specify the number of calendar days the UV Lamp will operate before the "Replace UV Lamp" alert will be displayed. Press DOWN continuously until OFF appears to disable this alert. Page 18

# User Setup: Time Period Programming

To enter Time Period Programming screens, Press and hold PROGRAM until the scrolling prompt appears.

OFF - Time Period Program is off.

RUN - Time Period Program is running.

**HOLD TO SET -** Press and hold PROGRAM to make Time Period Programming changes.



HOLD TO SET



Programming a Daily Schedule



This thermostat features four programmable time periods per 24 hour day: Morning, Day, Evening, and Night. The start time for each time period is adjustable. The stop time for each time period is the start time for the next.

Select Morning Start Time - Press the UP or DOWN buttons to adjust the time of day desired. Press MODE to advance to the next step.

Select Morning Cool Setpoint - Press the UP or DOWN buttons to adjust the cool setpoint desired. Press MODE to advance to the next step.

Select Morning Heat Setpoint - Press the UP or DOWN buttons to adjust the heat setpoint desired. Press MODE to advance to the next step.

Repeat Start Time and Setpoint programming for Day, Evening, and Night.

Press the PROGRAM or MODE Button to exit Time Period Programming

## Installer Setup

## How to Change Settings in the Setup Screens

To enter Advanced Setup, press the SETUP button, then press MODE. Use the UP or DOWN buttons to adjust the value of your selection. Press MODE to advance to the next setup step. Press SETUP again to leave the setup screens.



# Selecting Your Program Mode (Setup Step 1)

This thermostat may be configured to be programmable or non-programmable.

Non Program - No advanced time period programming available.

**1 Day Program -** Allows one 24 hour day to be programmed. This same schedule will be repeated everyday the program is set to run.

# Selecting Your Available Modes (Setup Step 2)

Auto-Changeover - Allows the thermostat to turn on heating or cooling based on room temperature demand. Also allows the manual selection of HEAT only or COOL only and OFF.

Heat and Cool - Allows the thermostat to turn on heating or cooling depending on which one has been manually selected. Auto-Changeover is not available when this is selected.

Heat Only - Allows the thermostat to only turn on HEAT or OFF modes.

Cool Only - Allows the thermostat to only turn on COOL or OFF modes.

# Installer Setup

# Cycles Per Hour (Setup Step 21)

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. Settings are No Limit, 2, 3, 4, 5, or 6.

# Compressor Minimum Off Minutes (Setup Step 22)

This feature allows the user to set a minimum off time for the compressor. Settings are 5 mins., 3 mins., or 0 mins.

# Minimum Heat/Cool Setpoint Difference(Setup Step 23)

This feature allows the user to set the minimum gap between Heat and Cool setpoints in **AUTO** mode. Select from 0 to 6. If setup step 2 is not set for **AUTO-CHANGEOVER**, this step will not appear.

## Fahrenheit or Celsius (setup step 57)

This feature allows the thermostat to display temperature in Fahrenheit or Celsius.

# Dry Contact Operation(setup step 71)

Dry Contact Polarity (Setup Step 71)

'Idle'

**Open (Normally Open) -** The dry contact is open until the connected device closes the circuit.

ry tact	$\odot$
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'Active'

**Closed (Normally Closed) -** The dry contact is closed until the connected device opens the circuit.



tact	$\odot$	
Con	۲	

'Active'

When the dry contact is active, the thermostat will lockout the compressor terminal(s) and "SERVICE DRAIN PAN" will appear on the display.

# Press Fan To Clear All Messages (setup step 76)

This feature allows the user to clear all current error messages from the display.

## Installer Setup

## Resetting the Thermostat to the Factory Default Settings (for default values see page 25)

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.



Press and hold SETUP for 5 seconds. All icons will appear on the display.



Keep pressing the SETUP button until you see this screen.





2

After all the icons appear, release SETUP. Press and hold FAN for 5 seconds. DEFAULTS will appear on the display.



Keep pressing the FAN button until you see this screen.

DEFRULTS

B

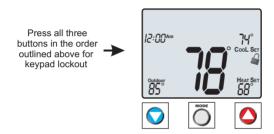
After DEFAULTS appears, release FAN. Press SETUP to return to normal operation.



Installer Setup

# Locking/Unlocking the Keypad

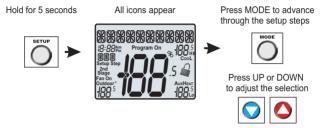
To prevent unauthorized use of the thermostat, the front panel buttons may be disabled. To disable, or 'lock' the keypad, press and hold the MODE button. While holding the MODE button, press the UP and DOWN buttons together. The  $\varDelta$  icon will appear on the display, then release the buttons.



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.

## Technician Setup

To enter Technician Setup, press and hold the SETUP button for 5 seconds. After all the icons appear, press MODE. The version number of the thermostat will appear in the scrolling text. Press MODE to advance to the next step. Use the UP or DOWN buttons to adjust the value of your selection. To leave Technician Setup, press SETUP.



Technician Setup is for diagnostic and testing purposes and is intended for use by a qualified technician. See page 14 for more detailed instructions.

Technician Setup contains the following options:

- View the version number of the thermostat.
- View the jumper setting of J1 (Gas/Electric or Heat Pump), J2 (Reversing Valve: RV=O or RV=B), and J3 (Fan: Gas or Electric) jumpers located on the back of the thermostat. (Remove thermostat from backplate for access)
- View the state of the Dry Contact terminal.
- Turn on equipment outputs for testing.
- Calibrate thermostat sensor.

# Advanced Setup Table

### Df = Factory Default Setting

Ste	o# Description	Pg#	Range	Df
1	Prog Mode	20	Non,1	1
2	Available Modes		Heat/Cool/Auto/Off, Heat/Cool/Off,Heat/Off, Cool/Off	Heat/Cool/ Auto/Off
3	Backlight		On,Off,6pm-6am	Off
4	Backlight Level		Off-7 levels of brightness	Level 5
5	Current Service Filter Runtime Hours		0-1999	0
6	Current Service Filter Calendar Days		0-1999	0
10	Current UV Lamp Calendar Days		0-1999	0
12	Set Service Filter Runtime Hours		0-1950	0
13	Set Service Filter Calendar Days	18	0-720	0
14	Set UV Lamp Calendar Days	18	0-720	0
16	Language	15	English, Espanol, Francais	English
17	Scrolling Method		Whole Word L Fast, Whole Word Ctr Slow, Whole Word Ctr Fast	Word Ctr Fast
21	Cycles Per Hour		No Limit,2,3,4,5,6	6
22	Compressor Minimum Off Minutes		0,3,5	5
23	Minimum Heat/Cool Setpoint Difference		0-6	2°
57	F/C		Fahrenheit,Celsius	F
71	Dry Contact Polarity		Open,Closed	Open
76	Press Fan To Clear All Messages	21	N/A	N/A

# TroubleShooting

- SYMPTOM: The air conditioning does not attempt to turn on. CAUSE: The compressor timer lockout may prevent the air conditioner from turning on for a period of time. <u>REMEDY:</u> Consult the Owner's Manual in the Installer Setup section to defeat the Cycles Per Hour (page 21).
   SYMPTOM: The display is blank.
- <u>SYMPTOM</u>: The display is blank.
  <u>CAUSE</u>: Lack of proper power.
  <u>REMEDY</u>: Make sure the power is on to the furnace and that you have 24vac between R & C.
- <u>SYMPTOM</u>: The air conditioning does not attempt to turn on.
  <u>CAUSE</u>: The cooling setpoint is set too high.
  <u>REMEDY</u>: Lower the cooling setpoint.
- <u>SYMPTOM</u>: The heating does not attempt to turn on.
  <u>CAUSE</u>: The heating setpoint is set too low.
  <u>REMEDY</u>: Raise the heating setpoint.
- <u>SYMPTOM</u>: When controlling a residential heat pump, and asking for cooling, the heat comes on.
   <u>CAUSE</u>: The thermostat reversing valve jumper is set for "B".
   <u>REMEDY</u>: Set the reversing valve jumper for "O".
- **<u>SYMPTOM</u>**: When calling for cooling, both the heat and cool come on.

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

**REMEDY:** Set the equipment jumper for "Gas".

<u>SYMPTOM</u>: When the Program button is pressed, the display reads "DISABLED".
 <u>CAUSE</u>: Program mode is set to "NON PROGRAM".
 <u>REMEDY</u>: Set Program Mode (Setup 1) to 1 Day.
 See Selecting Your Program Mode (page 20).

Index



Alerts see Runtime Accessory, 17

#### Auto

adjust temperature, 6 changeover, 6, 20 fan, 6 mode, 5, 20 **AuxHeat icon, 4** 



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# Warranty

Five-Year Warranty - This Product is warranted to be free from defects in material and workmanship. If 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.

LIMITATIONS OF WARRANTES – ALL IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTES 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 CHANCED 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.
- Damage or repairs required as a consequence of faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
- Failure to start due to voltage conditions, blown fuses, open circuit breakers or other 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.
- 5. 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 Canada.
- Electricity or fuel costs or increases in electricity or fuel costs for any reason whatsoever including additional or unusual use of supplemental electric heat.
- ANY SPECIAL INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER. Some states do not allow the exclusion of incidental or consequential damages, so the above may not apply to you.

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



