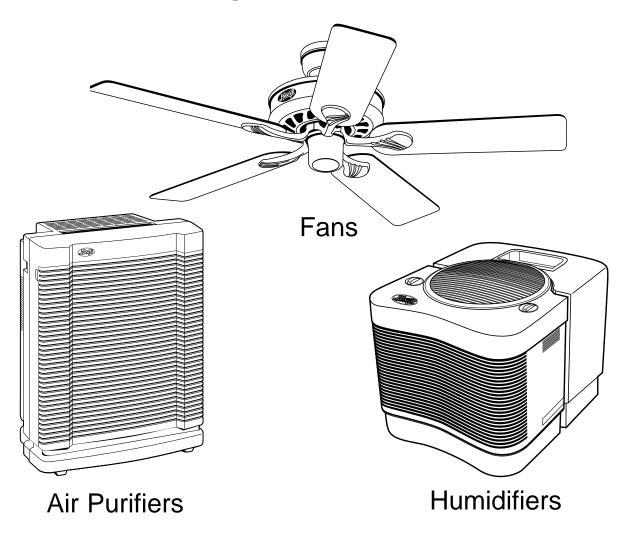
SINCE 1886	44100
Owner's Manual	

# **Other Quality Products from Hunter**



We are pleased you have selected one of our broad line of home comfort products. Our products are manufactured to high quality standards and are designed for years of service.

We hope you will be satisfied and thank you for buying a Hunter product.

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### **Read This Before Installing Thermostat**

#### IMPORTANT

**1** Read the entire installation section of this Owner's Manual thoroughly before you begin to install or operate your Hunter Thermostat.

• Remove the mylar label from the display window.

#### INSTALLATION

 $2^{\text{All installation is normally performed at your thermostat.}}$ 

#### PROGRAMMING

**3** You can practice programming before installing your thermostat by inserting and connecting the batteries and following the instructions on page 14. This can be done while you relax in your favorite chair and is a very good way to familiarize yourself with all the functions of your Hunter Thermostat.

#### OPERATION

4 Your Hunter Thermostat is designed to operate with most gas, oil, electric or 2-wire hot water heating, and air conditioning systems

that have 24-volt or millivolt control.

This Hunter Thermostat will not control multistage heating or cooling systems, 110/220 V systems, or 3 wire zone systems.

#### COMPRESSOR PROTECTION

**5** The thermostat provides a 4-minute delay after shutting off the compressor before it can be restarted. This feature will prevent damage to your air conditioner compressor caused by rapid cycling. It does not provide a delay when there are power outages.

#### TEMPERATURE RANGE

6 Your thermostat can be programmed between 40°F and 95°F (5°C and 35°C). However, it will display room temperatures from 32°F to 99°F (0°C to 37°C).

#### POWER FAILURE

**7**Whenever the main power is interrupted or fails, the battery power retains the programs and current time.

#### **BATTERY WARNING**

**8** When the batteries are low, "LOW BATT" indicator on the display will flash. When this happens, install new batteries immediately. Once the "LOW BATT" indicator appears, the thermostat will continue to operate for approximately 30 days. (Only alkaline batteries should be used in your thermostat. Rechargeable batteries have different properties which may cause the thermostat to not operate properly. Do not use old batteries.) The batteries should last one year.

CAUTION: The batteries are the only source of power used to operate your system. If you do not replace the batteries, the display will dim and your heating and cooling system will stop operation.

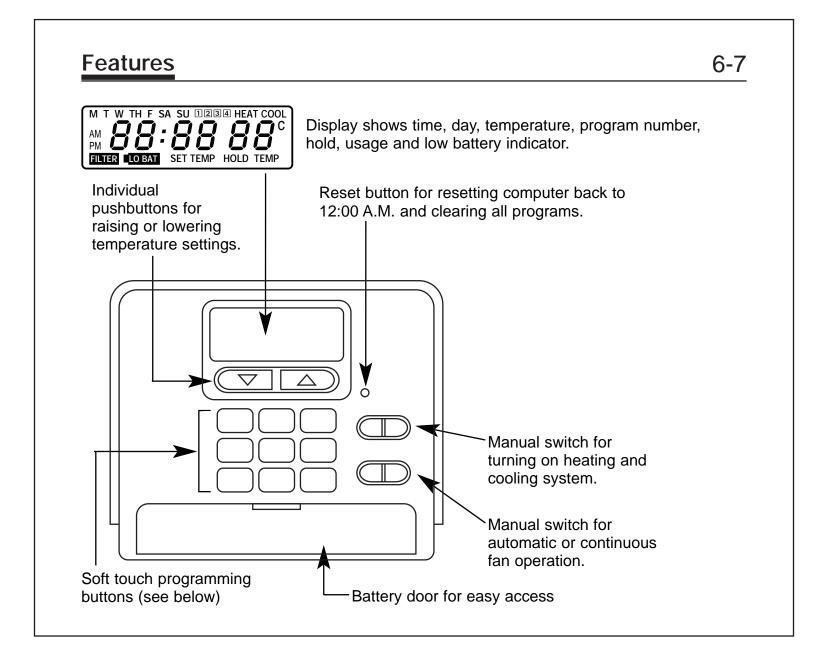
**NOTE:** If you plan to be away from the premises over 30 days, we recommend that you replace the old batteries with new alkaline batteries prior to leaving.

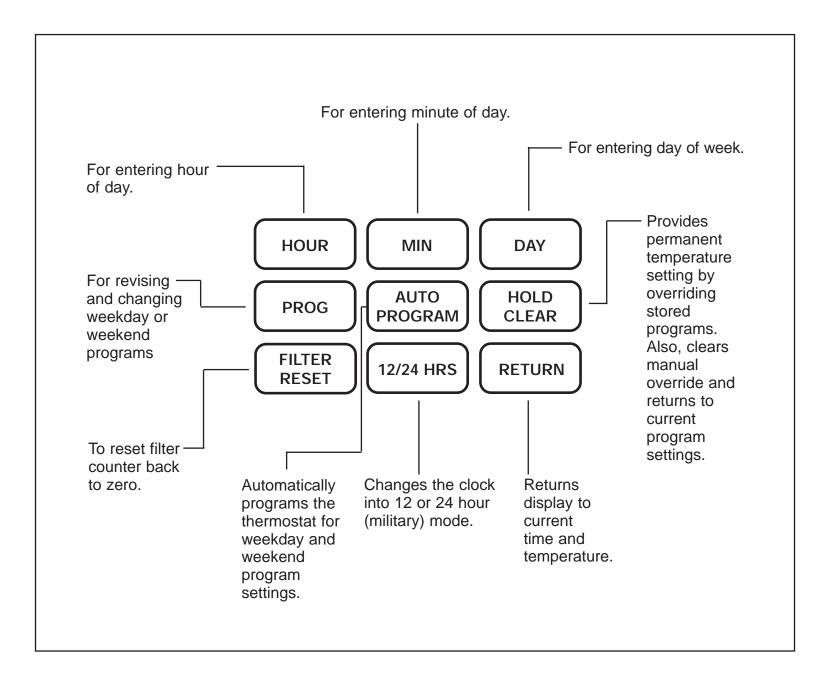
### How This Thermostat Works...And Saves You Money

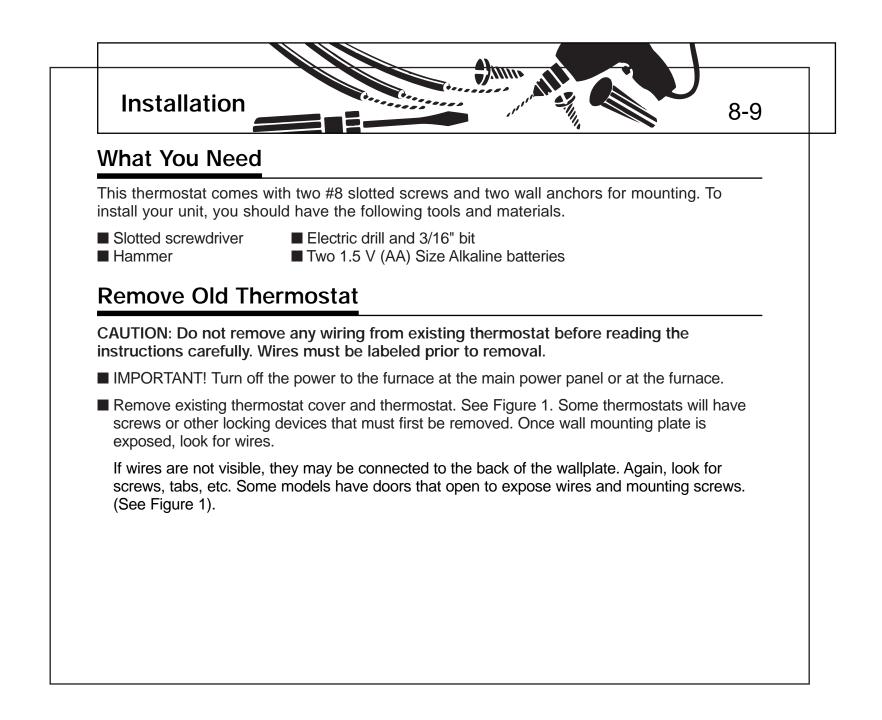
This thermostat is designed to optimize the use of your heating and cooling equipment. It does this by matching your comfort (the temperatures in your home) to your schedule.

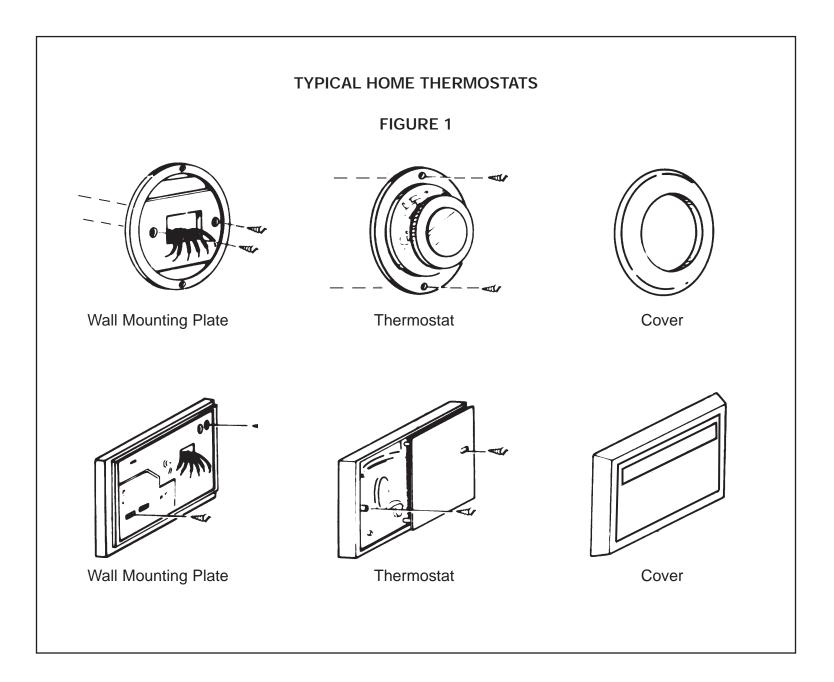
An example:

- 6am You wake up. Program 1 has the heat set to 70° (21°C).
- 7:30am You leave for work. The second program turns the heat back to 62° (17°C) while you are away.
- 5:00pm You come home. The third program has already warmed your house back to 70° (21°C).
- 10:00pm You go to bed. A half hour later, program 4 turns the heat back to 64° (18°C) to save energy while you are under the blankets.









# Installation

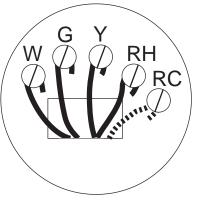
### Label Wires

Each wire coming from the wall to the existing thermostat is connected to a terminal point on that thermostat. Each of these terminal points is usually marked with a code letter as shown in Table A on page 11.

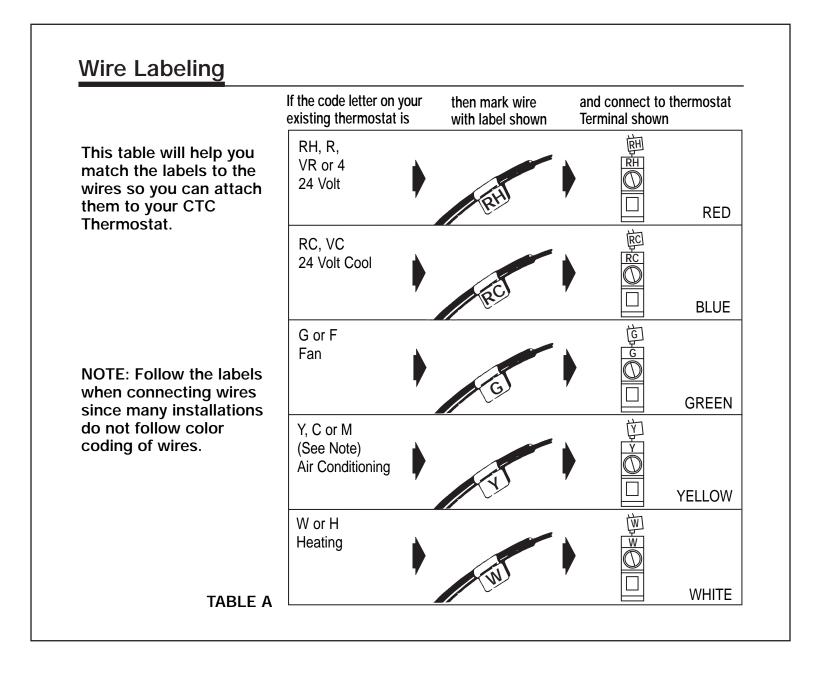
The number of wires in your system can be as few as two (for heat only systems), as many as eight, or any number in between. If you follow the labeling procedures correctly, you do not have to be concerned about how many wires there are.

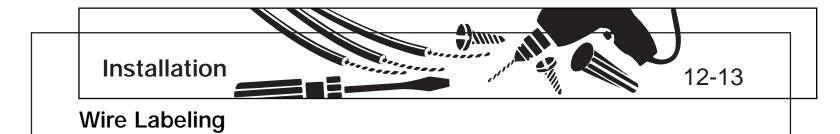
There is often no terminal marking on the existing thermostat of two wire, heat only systems. Do not worry, just connect either of the wires to the RH terminal, then connect the other wire to the W terminal to complete the circuit.

- IMPORTANT! <u>BEFORE DISCONNECTING ANY WIRES, APPLY THE SELF-ADHESIVE</u> <u>LABELS PROVIDED TO THE WIRE AS SHOWN IN TABLE A ON PAGE 11</u>. (For example, attach the label marked W to the wire which goes to the W or H terminal on your existing thermostat.) <u>IGNORE THE COLOR OF THE WIRES</u> since these do not always comply with the standard.
- After labeling wires, disconnect them from the existing thermostat terminals.
- Remove existing wallplate. To make sure wires do not fall back into wall opening, you may want to tape them to the wall.
- If hole in wall is larger than necessary for wires, seal this hole so that no hot or cold air can enter the back of the thermostat from the wall. This air could cause a false thermostat reading.



10-11





NOTE: If your thermostat has one wire marked R or RH (4-wire system), then leave the jumper wire between the RH and RC terminals. Otherwise, if you have separate RH and RC wires (5-wire system), then remove the jumper wire between the RH and RC terminals.

NOTE: Do not connect a "Common" wire (sometimes labelled "C") to any terminal on this thermostat. Tape up the wire and do not use. This wire provides electricity to non-battery powered thermostats.

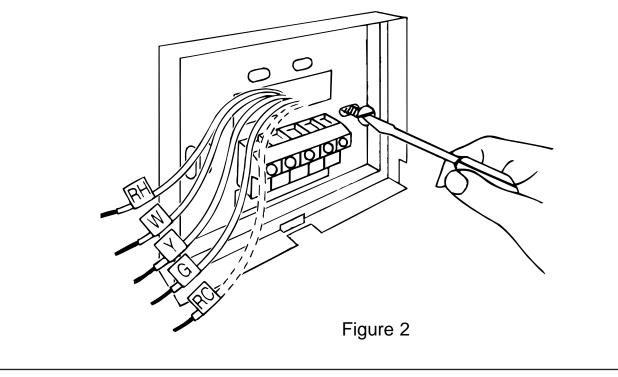
### Mount Wallplate and Thermostat

Snap open the wallplate from your thermostat by pressing the release tab on the bottom of the thermostat.

Position wallplate on wall and pull existing wires through large opening. Then level for appearance. Mark holes for plastic anchors provided if existing holes do not line up with Hunter Thermostat holes.

Drill holes with 3/16" bit and gently tap anchors into the holes until flush with wall.

Reposition wallplate to wall, pulling wires through large opening. Insert mounting screws provided into wall anchor and tighten. (See Figure 2.)



### Selector Switches

Installation

The heating system selector and the  $F^{\circ}/C^{\circ}$  selector switches are located on the Printed Circuit Board.

#### Heating system selector

The heating system selector is a switch on the Printed Circuit Board on the inside of the thermostat. The switch is at "HG" position. Leave it in this position if you have a gas furnace or an oil burner.

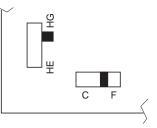
If you have an electric furnace, test to see whether the heat and fan come on as expected. Leave the switch in the "HG" position. If the fan does not come on when the thermostat calls for heat, change the switch position to "HE."

The system selector has no effect in the cooling mode.

NOTE: "HG" position is for gas and most other systems. "HE" position is for certain electric systems having a fan relay.

#### ■ F°/C° selector (Fahrenheit/Centigrade)

Your thermostat is set for  $F^{\circ}$  mode from the factory. In order to change to  $C^{\circ}$  mode, slide the switch to  $C^{\circ}$  and press reset button on the front of the thermostat with a paper clip. The reset button is located near the display.

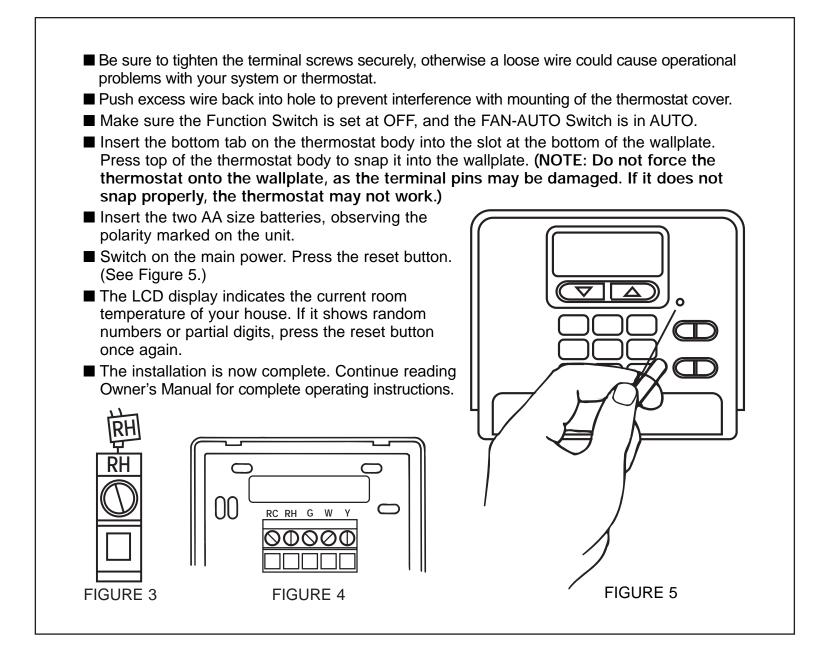


14-15

NOTE: Unless reset button is pressed, the thermostat will not change the mode.

### **Connect Wires and Mount Thermostat Cover to Wall Plate**

Match and connect the labeled wires to the appropriate coded terminal screws on the mounting plate. (See Figure 3, 4.) Ignore any wires which may be present, but which were not connected to the old thermostat.



#### Programming

### 16-17

Remove mylar label covering display window.

2 When the heating or cooling system is actually operating, "HEAT" or "COOL" will appear on the display.

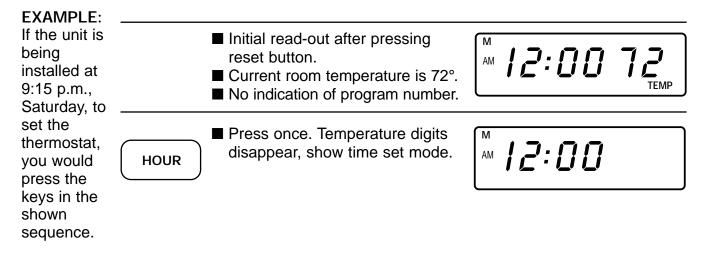
3 If power is interrupted the batteries will keep all programs.

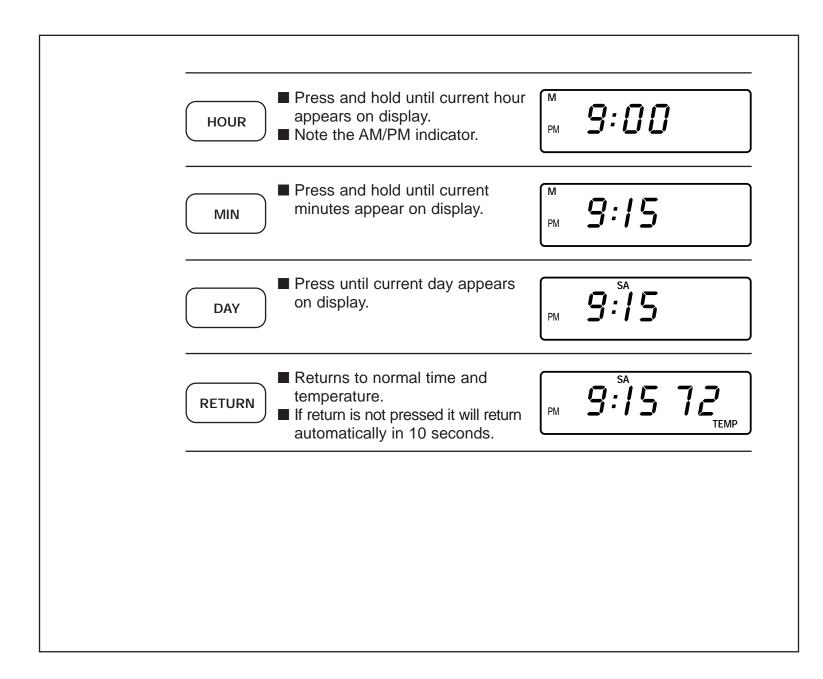
**4** If "LOW BATT" indicator appears on the display replace the batteries.

### Setting the Time and Day of Week

When you first install the two AA batteries, the thermostat automatically sets the day and time to Monday, 12:00 a.m., shows the current room temperature and is programmed for 68° in heat mode and 78° in cool mode. Press the reset button after installing new batteries.

The first data you should enter is the current time and day of week. As the keys are pressed, the display will show the data being entered.





### Programming

### 18-19

#### Typical Suggested Summer and Winter Programs for Maximum Savings

Studies conducted by the Department of Energy estimate that setting your thermostat back 10°F for two 8-hour periods during winter can reduce your fuel bill by as much as 30%. By setting your thermostat up 5° for two 8-hour periods during summer you can reduce your fuel bill up to 25%.

Your thermostat is capable of holding up to 4 separate programs for heat or cool for weekdays and 4 separate programs for each weekend day.

A typical set of programs is shown in Table 1.

	- )		(
Weekday Program	1	6:00am	Winter 69°F (21°C)
Weekday Program	2	8:30am	Winter 60°F (16°C)
Weekday Program	3	3:00рм	Winter 68°F (20°C)
Weekday Program	4	11:00рм	Winter 58°F (14°C)
TABLE 1			

Weekdav Program (Mon. – Fri.)

NOTE: The thermostat program will NOT take effect immediately after programming of your thermostat but at the next programmed time/temperature change. The thermostat is pre-set to 68°F (20°C) for heat and 78°F (25°C) for air conditioning. So if you want a temperature other than 68°F or 78°F (20°C or 25°C) right away, use the temporary manual override feature (described on page 26) to enter your desired temperature setting.

When your program becomes effective at the next time/temperature setting, the appropriate corresponding program number will appear on the display.

Weeken	d Pro	ogram	(Sat – Sun)
Weekday Program	1 7:0	)0am	Winter 69°F (21°C)
Weekend Program	2 6:0	0PM	Winter 65°F (18°C)
Weekend Program	3 8:0	)0pm	Winter 68°F (20°C)
Weekend Program	4 11:0	)0pm	Winter 58°F (14°C)

### Programming

### 20-21

### Personal Program Schedule

Before programming or changing the program, use this Personal Program Schedule to determine which times and temperature settings will best satisfy both your comfort and energy saving requirements. Use a pencil so you can revise your records each time you change your temperature settings.

#### FOR WINTER

PROGRAM NUMBER	WAKE 1	LEAVE 2	RETURN 3	SLEEP 4
MON. thru FRI.	TIME TEMP	TIME TEMP	TIME TEMP	TIME TEMP
SAT. and SUN.	TIME TEMP	TIME TEMP	TIME TEMP	TIME TEMP

#### FOR SUMMER

PROGRAM NUMBER	WAKE 1	LEAVE 2	RETURN 3	SLEEP 4
MON. thru FRI.	TIME TEMP	TIME TEMP	TIME TEMP	TIME TEMP
SAT. and SUN.	TIME TEMP	TIME TEMP	TIME TEMP	TIME TEMP

### **Programming Your Thermostat**

Your thermostat can be programmed in two different ways.

- 1. Autoprogram method
- 2. Manual method

Before programming, position the Heat/Off/Cool selector to the mode to be programmed.

#### Autoprogram method

In autoprogram method, you can program your thermostat instantly for the entire week by simply pressing "Auto Prog." key once. When this key is pressed, standard program gets activated and your thermostat is programmed automatically. The standard program is shown in table 3.

If you wish to change this program to suit your life style, you can do so by changing the time and the temperatures of those programs which you want to be different than standard programs. The method is explained in the manual method of programming.



Your thermostat will be programmed automatically according to Table 3

PROGRAM NUMBER	TIME	TEMP II	N F° (C°)
		HEAT	COOL
1	5:00AM	68 (20)	78 (25)
2	7:00AM	60 (15)	85 (29)
3	3:00PM	68 (20)	78 (25)
4	10:00PM	62 (16)	82 (27)

#### TABLE 3

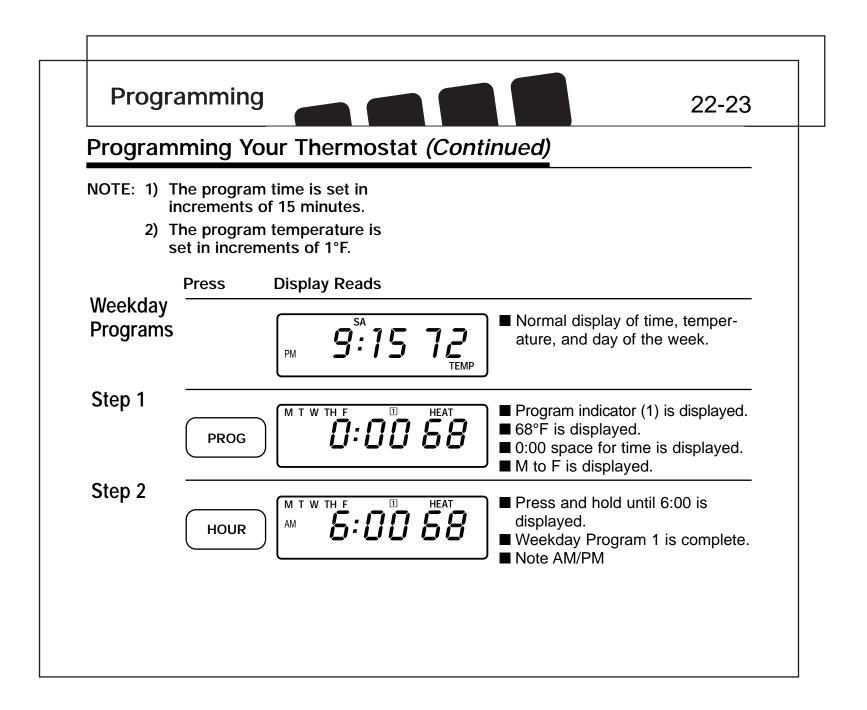
(If the slide switch is in the heat mode, only heat program is effective. In order to activate cool program, slide the switch to cool mode and press "Auto Prog.")

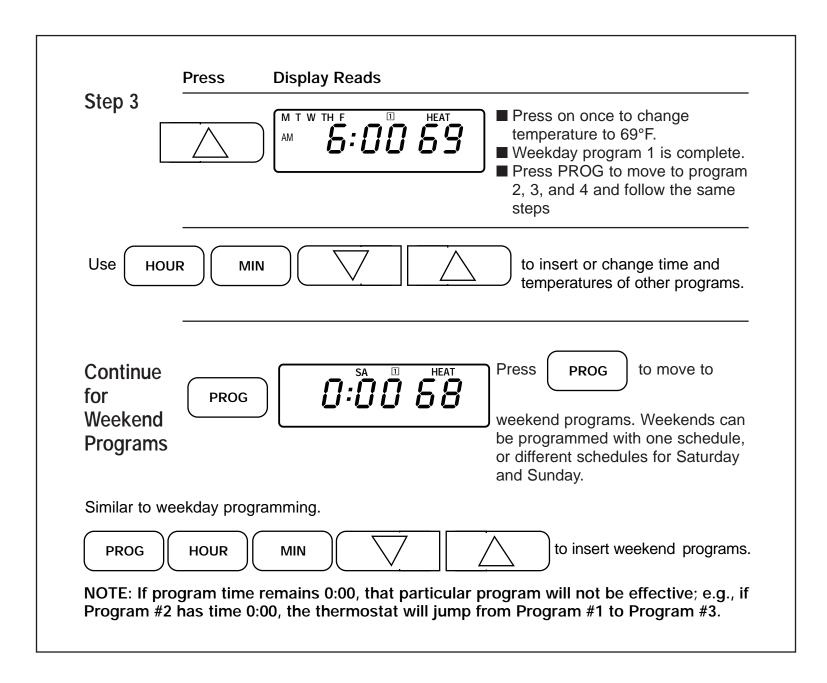
#### Manual method

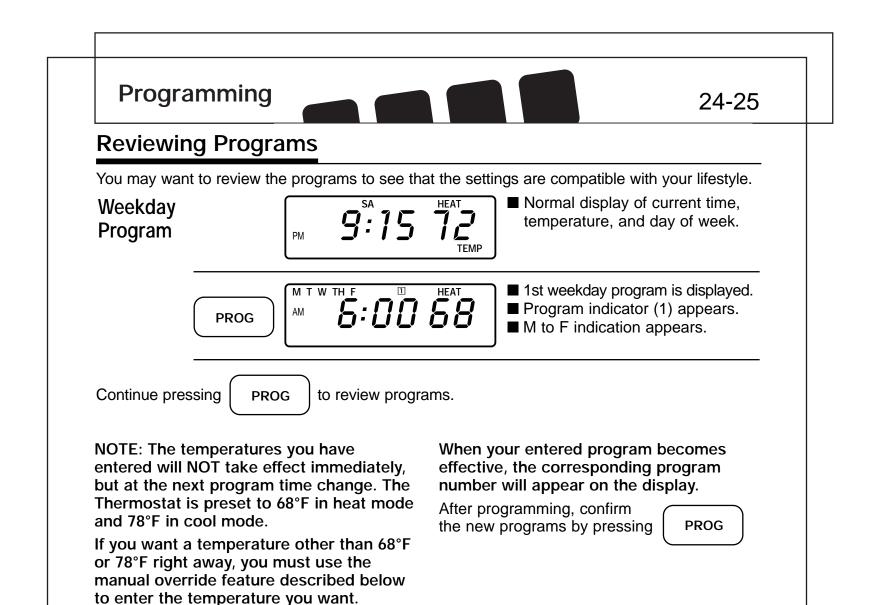
In this method, each program is inserted according to your personal programming schedule.

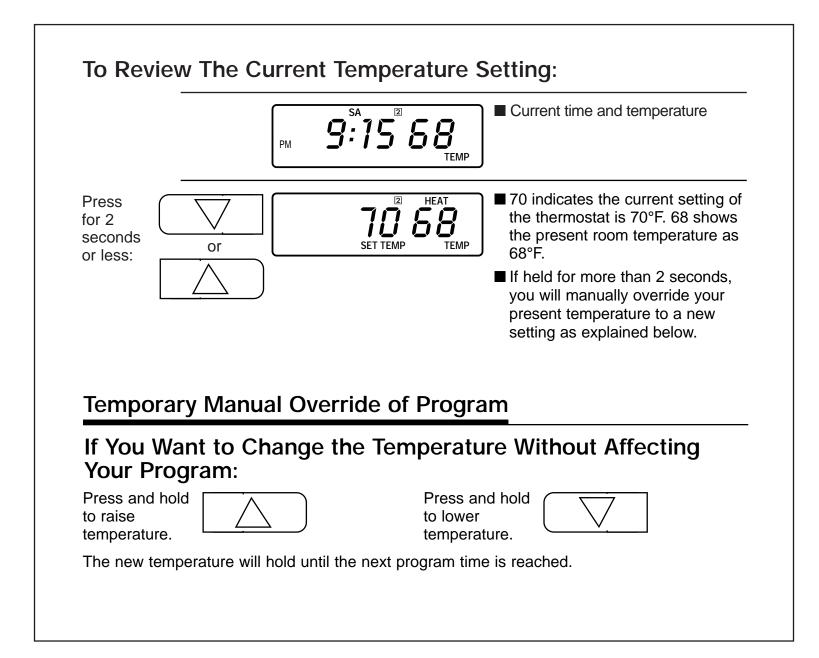
When the battery is first inserted, the thermostat is programmed for 68°F (20°C) in heat mode and 78°F (25°C) in cool mode. NOTE: There are no energy saving time or temperature settings.

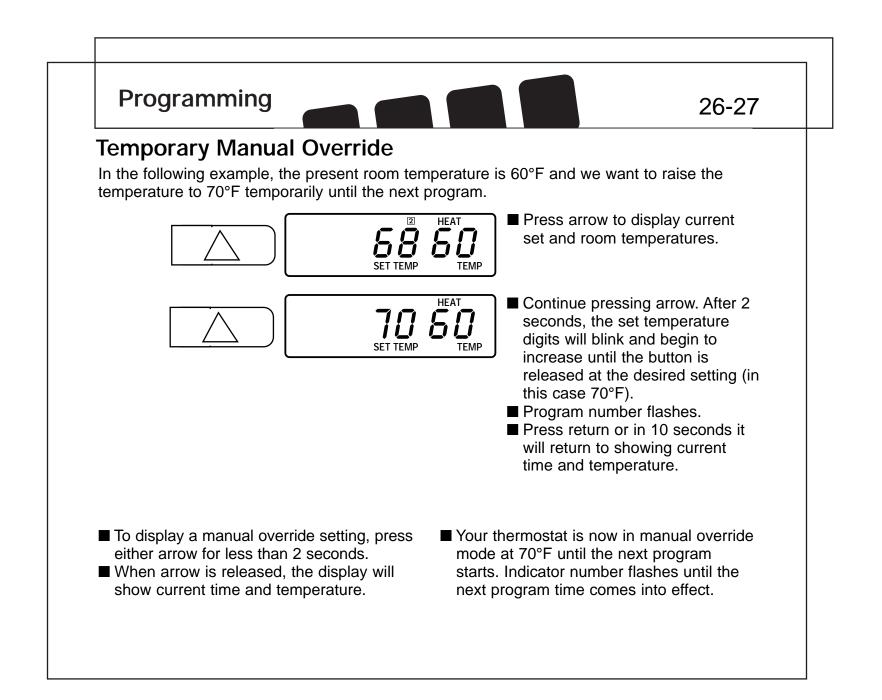
Familiarize yourself with manual programming. The following example demonstrates the manual programming method. You can program or change the program of weekdays and weekends.











### Programming Your Thermostat (Continued)

### Permanent Manual Override



In the event you wish to hold your manual override for vacation or an extended period of time, follow the temporary manual

override instructions on page 26, then immediately press HOLD/CLEAR.



This will maintain override setting indefinitely. "HOLD" will appear on the display.

#### To Return To Program\*

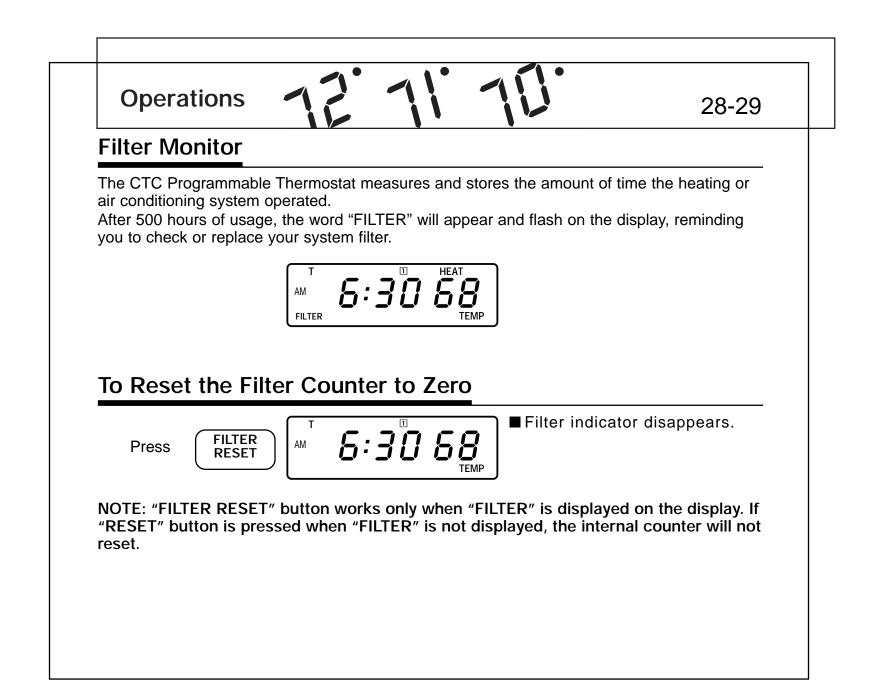


(\*From temporary or permanent manual override state)

NOTE: You can also return to the current program by pressing "HOLD TEMP" once in permanent override mode.

To return immediately to the current program, press HOLD/CLEAR until program number appears. "HOLD" will disappear if you were in permanent manual override.





## Other Features

### Temperature Span

Your thermostat is preprogrammed at the factory to cycle when the temperature rises 1° above or 1° below the temperature setting to provide maximum comfort. It cannot be changed.

Problem	Solution
SCRAMBLED OR DOUBLE DISPLAY (numbers over numbers)	1. Remove clear mylar sticker.
NO DISPLAY	<ol> <li>Check battery connections and batteries.</li> <li>Press reset button once with a small pin and hold in for two seconds.</li> </ol>
ENTIRE DISPLAY DIMS	1. Replace batteries.
PROGRAM DOES NOT CHANGE AT YOUR DESIRED SETTING	<ol> <li>Check that time is set properly to "AM" or "PM."</li> <li>Check that thermostat is not in "HOLD" mode.</li> <li>Check for correct day setting.</li> </ol>
AUTO/FAN DOES NOT COME ON	<ol> <li>Move HG/HE system selector to opposite position.</li> </ol>

HEATING OR COOLING DOES NOT GO ON OR OFF	<ol> <li>Check that function switch is in correct position ("HEAT" or "COOL").</li> <li>There may be as much as 20 seconds delay in the thermostat turning the system on - wait and check.</li> <li>Check your circuit breakers and switches to ensure there is power to the system.</li> <li>Replace batteries.</li> <li>Make sure your furnace blower door is closed properly.</li> <li>If your system only uses 4 wires, be sure the jumper wire is installed between the RC and RH terminals.</li> </ol>
ERRATIC DISPLAY	<ol> <li>Press the reset button once with a small pin and hold in for two seconds. Then reprogram.</li> </ol>
IF UNIT CONTINUES TO OPERATE IN OFF POSITION	1. Replace unit.
THERMOSTAT READS , HI, LO PERMANENTLY	1. Replace unit.
If you experience any other problems, call 1-9 Standard time for technical assistance.	01-745-9222 from 8AM to 5PM Central

