

## 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 (Mon. – Fri.)

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

**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.

## Weekend Program (Sat. – Sun.)

Weekday Program	1	7:00AM	Winter 69°F (21°C)
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Weekend Program	2	6:00PM	Winter 65°F (18°C)
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Weekend Program	3	8:00PM	Winter 68°F (20°C)
-----------------	---	--------	--------------------

Weekend Program	4	11:00PM	Winter 58°F (14°C)
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## Personal Program Schedule

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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.

### 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

Use a pencil so you can revise your records each time you change your temperature settings.

### 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. Auto-program method
2. Manual method

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

## Auto-program method

In auto-program 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.

Press  Your thermostat will be programmed automatically according to Table 3.

PROGRAM NUMBER	TIME	TEMP IN 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

## Programming Your Thermostat (*Continued*)

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program of weekdays and weekends.

set in increments of 1°F.

- NOTE:** 1) The program time is set in increments of 15 minutes.  
2) The program temperature is

Press      Display Reads

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### Weekday Programs

SA  
PM 9:15 72  
TEMP

- Normal display of time, temperature, and day of the week.
- 

### Step 1

PROG

M T W TH F      1      HEAT  
0:00 68

- Program indicator (1) is displayed.
  - 68°F is displayed.
  - 0:00 space for time is displayed.
  - M to F is displayed.
- 

### Step 2

HOUR

M T W TH F      1      HEAT  
AM 6:00 68

- Press and hold until 6:00 is displayed.
- Weekday Program 1 is complete.
- Note AM/PM

Press **Display Reads**

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**Step 3**



- Press on once to change temperature to 69°F.
  - Weekday program 1 is complete.
  - Press PROG to move to program 2, 3, and 4 and follow the same steps
- 

Use



to insert or change time and temperatures of other programs.

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**Continue for Weekend Programs**



Press **PROG** to move to weekend programs. Weekends can be programmed with one schedule, or different schedules for Saturday and Sunday.

Similar to weekday programming.



to insert weekend programs.

**NOTE:** If program time remains 0:00, that particular program will not be effective; e.g., if Program #2 has time 0:00, the thermostat will jump from Program #1 to Program #3.

## Reviewing Programs

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You may want to review the programs to see that the settings are compatible with your lifestyle.

### Weekday Program



- Normal display of current time, temperature, and day of week.



- 1st weekday program is displayed.
- Program indicator (1) appears.
- M to F indication appears.

Continue pressing  to review programs.

**NOTE:** The temperatures you have entered will NOT take effect immediately, but at the next program time change. The Thermostat is pre-set to 68°F in heat mode and 78°F in cool mode.

If you want a temperature other than 68°F or 78°F right away, you must use the manual override feature described below to enter the temperature you want.

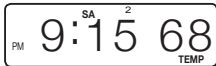
**When your entered program becomes effective, the corresponding program number will appear on the display.**

After programming, confirm the new programs by pressing

A rounded rectangular button labeled PROG.

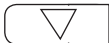
## To Review The Current Temperature Setting:

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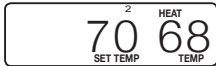


- Current time and temperature

Press  
for 2  
seconds  
or less:



or



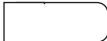
- 70 indicates the current setting of the thermostat is 70°F. 68 shows the present room temperature as 68°F.
- If held for more than 2 seconds, you will manually override your present temperature to a new setting as explained below.

## Temporary Manual Override of Program

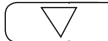
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### If You Want to Change the Temperature Without Affecting Your Program:

Press and hold  
to raise  
temperature.



Press and hold  
to lower  
temperature.



The new temperature will hold until the next program time is reached.



## Temporary Manual Override

In the following example, the present room temperature is 60°F and we want to raise the temperature to 70°F temporarily until the next program.



- Press arrow to display current set and room temperatures.



- Continue pressing arrow. After 2 seconds, the set temperature digits will blink and begin to increase until the button is released at the desired setting (in this case 70°F).
- Program number flashes.
- Press return or in 10 seconds it will return to showing current time and temperature.

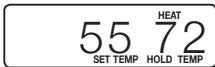
- To display a manual override setting, press either arrow for less than 2 seconds.
- When arrow is released, the display will show current time and temperature.
- Your thermostat is now in manual override mode at 70°F until the next program starts. Indicator number flashes until the next program time comes into effect.

## Programming Your Thermostat (*Continued*)

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### Permanent Manual Override

HOLD  
CLEAR



HOLD  
CLEAR

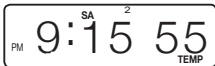
In the event you wish to hold your manual override for vacation or an extended period of time, follow the temporary manual override instructions on page 26, then immediately press HOLD/CLEAR.

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

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### To Return To Program\*

HOLD  
CLEAR



HOLD  
CLEAR

(\*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.

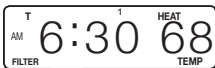
- To return immediately to the current program, press HOLD/CLEAR until program number appears. "HOLD" will disappear if you were in permanent manual override.

## Filter Monitor

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The CTC Programmable Thermostat measures and stores the amount of time the heating or air conditioning system operated.

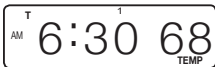
After 500 hours of usage, the word "FILTER" will appear and flash on the display, reminding you to check or replace your system filter.



## To Reset the Filter Counter to Zero

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Press



■ Filter indicator disappears.

**NOTE:** "FILTER RESET" button works only when "FILTER" is displayed on the display. If "RESET" button is pressed when "FILTER" is not displayed, the internal counter will not reset.

## Other Features



### Temperature Span

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Your thermostat is pre-programmed 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.

### Backlighting

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Press

**LIGHT**

Your thermostat comes with an electroluminescent lamp for easy viewing of the display in the dark. To activate press the “light” button between the up and down

arrow keys. The display will remain backlit for approximately five (5) seconds. If another button is pushed, the five second timer will reset, and the light will turn off five seconds after the last button is pressed.

## Problem

## Solution

**SCRAMBLED OR DOUBLE DISPLAY**  
(numbers over numbers)

1. Remove clear mylar sticker.

**NO DISPLAY**

1. Check battery connections and batteries.
2. Press reset button once with a small pin and hold in for two seconds.

**ENTIRE DISPLAY DIMS**

1. Replace batteries.

**PROGRAM DOES NOT CHANGE AT YOUR DESIRED SETTING**

1. Check that time is set properly to "AM" or "PM."
2. Check that thermostat is not in "HOLD" mode.
3. Check for correct day setting.

**AUTO/FAN DOES NOT COME ON**

1. Move HG/HE system selector to opposite position.

## **Problem (Continued)**

## **Solution (Continued)**

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### **HEATING OR COOLING DOES NOT GO ON OR OFF**

1. Check that function switch is in correct position ("HEAT" or "COOL").
2. There may be as much as 20 seconds delay in the thermostat turning the system on - wait and check.
3. Check your circuit breakers and switches to ensure there is power to the system.
4. Replace batteries.
5. Make sure your furnace blower door is closed properly.
6. If your system only uses 4 wires, be sure the jumper wire is installed between the RC and RH terminals.

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### **ERRATIC DISPLAY**

1. Press the reset button once with a small pin and hold in for two seconds. Then reprogram.

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### **IF UNIT CONTINUES TO OPERATE IN OFF POSITION**

1. Replace unit.

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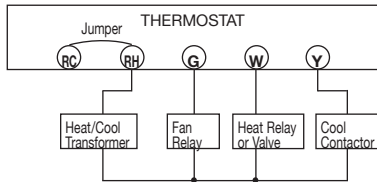
### **THERMOSTAT READS , HI, LO PERMANENTLY**

1. Replace unit.

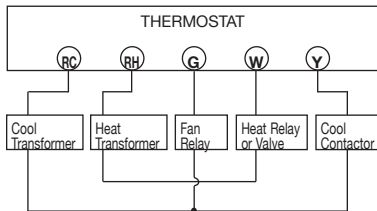
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If you experience any other problems, call 1-901-745-9222 from 8AM to 5PM Central Standard time for technical assistance.

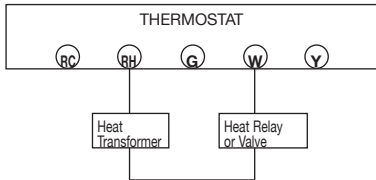
4-wire Heat/Cool System



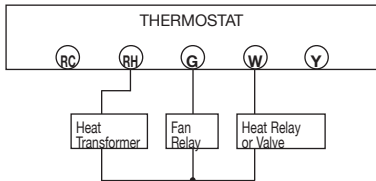
5-wire Heat/Cool System



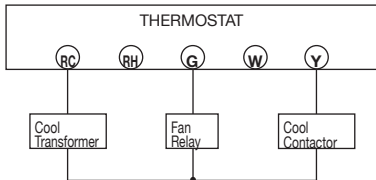
**2-wire Heat Only**



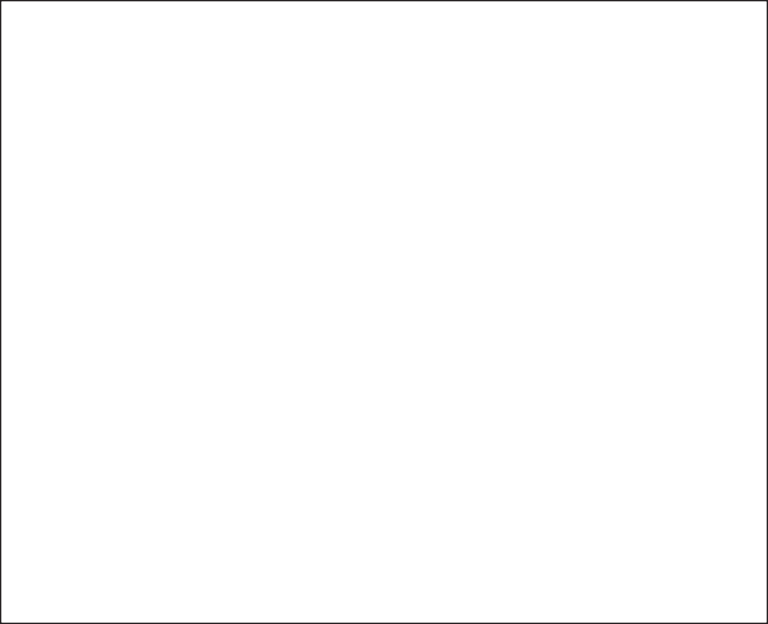
**3-wire Heat Only**

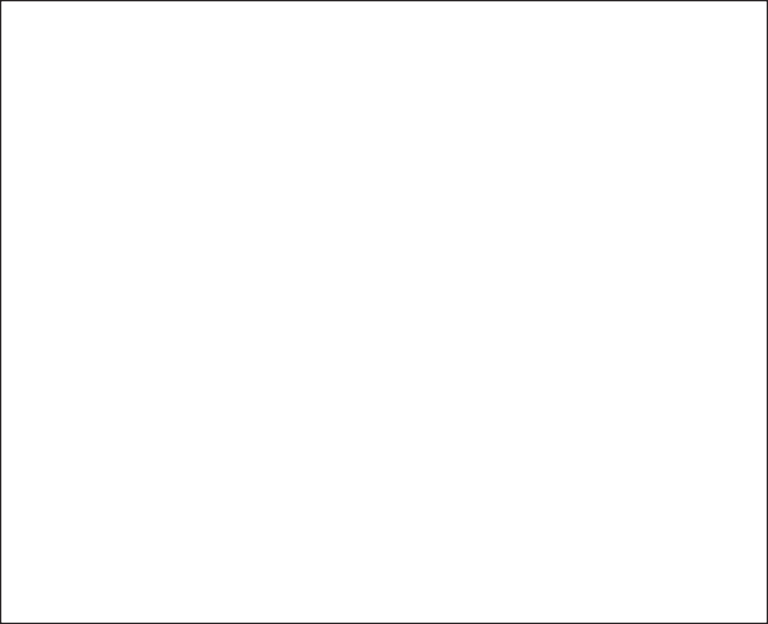


**3-wire Cool Only**









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