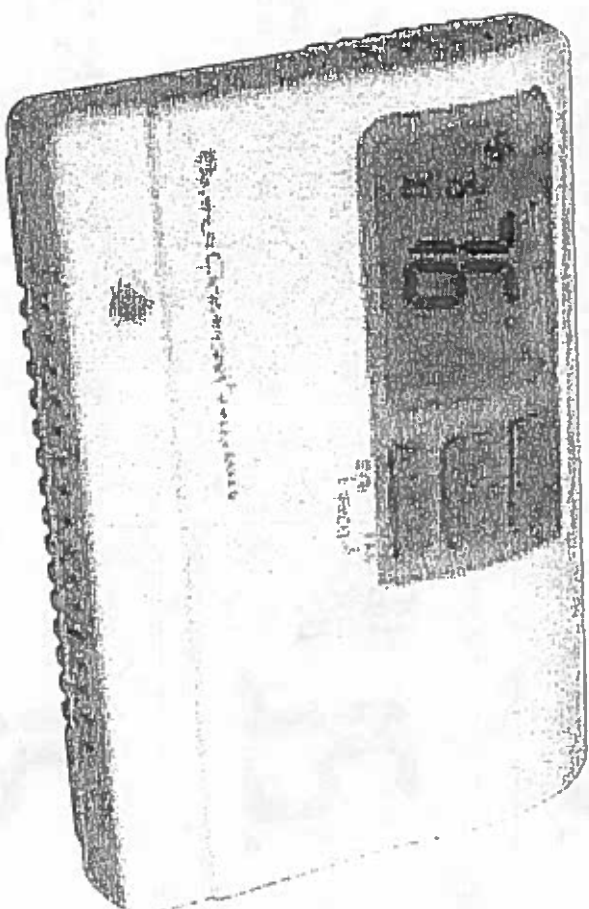**Made in USA**

SC 5011

Programmable Electronic Thermostat

1 Heat/1 Cool
Auto Changeover
Hardwire

- 7-Day, 5-2-Day or 5-1-1-Day Programmable
- Configurable
- Single-Stage Heat/Cool Systems
- Single-Stage Heat Pump Systems
- Large Display With Backlight
- Selectable Fahrenheit or Celsius
- Compatible with Gas, Oil, or Electric
- SimpleSet™ Field Programming
- Status Indicator Light
- Relay Outputs
  (minimum voltage drop in thermostat)
- Remote Sensor Compatible
- Ideally Suited for:
  – Residential (New Construction/Replacement)
  – Light Commercial

Installation, Operation & Application Guide

For more information on our complete range of American-made products – plus wiring diagrams, troubleshooting tips and more, visit us at **www.icmcontrols.com**
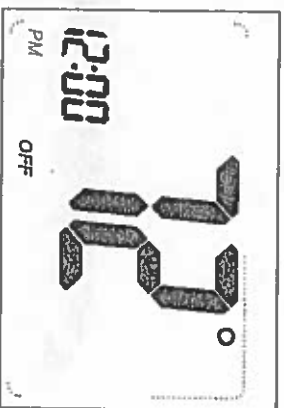
ICM CONTROLS™

Operating Modes

There are five possible operating modes for the SC5011. Off, Cool, Heat, and Cool & Heat modes are accessed by pressing the **SYS** (left) button. Program mode is accessed by pressing the **SYS** (left) and **FAN** (right) buttons simultaneously.
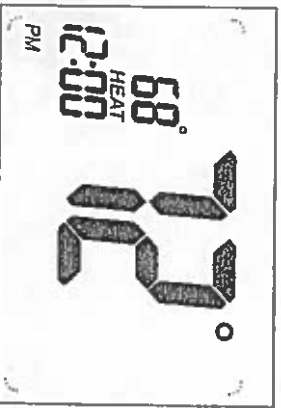
OFF Mode

- In this mode, the thermostat will not turn on the heating or cooling devices

  $*\atop{**}$ **Note:** The indoor fan can be turned on manually in every operating mode by pressing the **FAN** (right) button. The word **FAN** shows on the display and the fan icon 🔄 appears when the fan operates.
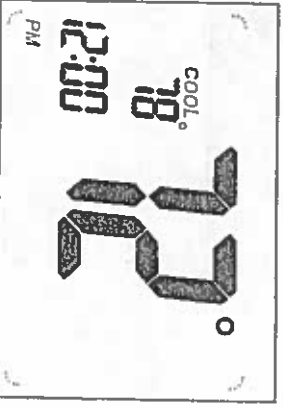

PM 12:00 OFF 72°

Heat Mode

- In this mode, the thermostat controls the heating system. When the heat outputs, the flame icon 🔥 appears on the display.

  $*\atop{**}$ **Note:** For heat pumps, there is a four minute delay for your compressor to restart after it has turned off.
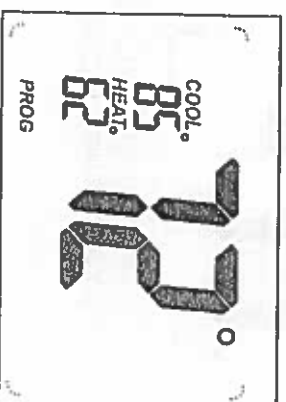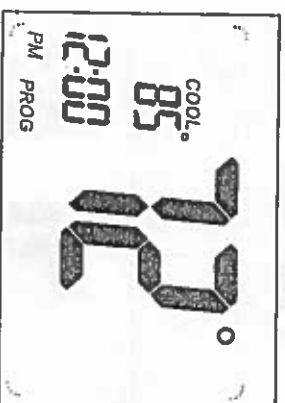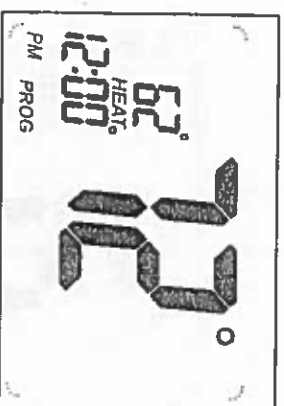

PM 68° HEAT 12:00 72°

Cool Mode

- In this mode, the thermostat controls the cooling system. When the cooling outputs, the snowflake icon ❄ appears on the display.

  $*\atop{**}$ **Note:** There is a four minute delay for your compressor to restart after it has turned off.

PM COOL 78° 12:00 77°

Cool and Heat Mode (Auto Changeover)

- In this mode, the thermostat controls the cooling and heating systems, automatically changing over from one to the other as needed.
- The timing display alternates with the set temperature every 10 seconds in the cool and heat mode.

Program Mode

- In this mode, the program function is on (PROG displays), and the thermostat will automatically be controlled by the set program schedule. Program mode can function with heat mode, cool mode, or heat & cool mode. The program schedule can be overridden by changing the set temperature (up or down button). After 2 hours, the program schedule will automatically be resumed. To manually return to the program schedule, press the PROG button twice.

Once the thermostat is configured, it should be thoroughly tested.

CAUTION! *Do not energize the air conditioning system when the outdoor temperature is below 50 degrees. It can result in equipment damage or personal injury.*

Heat Test

1. Press **SYS** (left) button until heat mode is displayed.
2. Adjust the set temperature so it is 5 degrees above the room temperature.
3. Heat should come on within a few seconds. Red LED may turn on.
4. Adjust the set temperature 2 degrees below the room temperature and the heat should turn off. There may be a fan delay on your system.

** **Note:** *For heat pumps, there is a four-minute delay to protect your compressor after it turns off.*

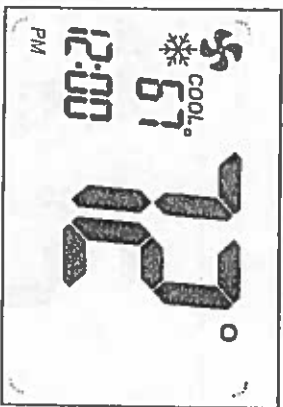*To bypass the compressor time delay, go to* **OFF** *mode for 5 seconds.*

Cool Test

1. Press **SYS** (left) button until cool mode is displayed.
2. Adjust set temperature so it is 5 degrees below room temperature.
3. A/C should come on within a few seconds. Green LED may turn ON.
4. Adjust the set temperature 2 degrees above the room temperature and the A/C should turn off. There may be a fan delay on your system.
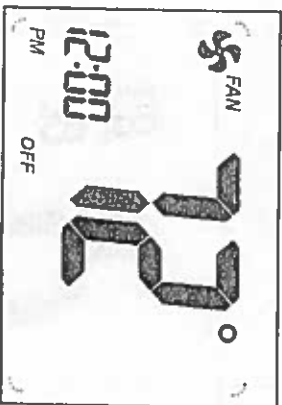
** **Note:** *There is a four-minute time delay to protect the compressor after it turns off.*

To bypass the compressor time delay, go to **OFF** *mode for 5 seconds.*

Fan Test

1. Press **FAN** (right) button. Fan displays. Indoor fan turns ON.
2. Press **FAN** (right) button. Indoor fan turns OFF.

Setting the Time and Day of the Week

The time and day of the week must be set for your program schedule to operate correctly.

1. Press the **SYS** (left) button until you are in the OFF mode.

2. Press and hold the **PROG** button (**SYS** (left) and **FAN** (right) buttons pressed simultaneously) in for 6 seconds.

3. Time displays (hour flashing).

   Press the **up** or **down** button to adjust the hour.

4. Press the **FAN** (right) button once to select minutes (minutes flashing).

   Press the **up** or **down** button to adjust the minutes.
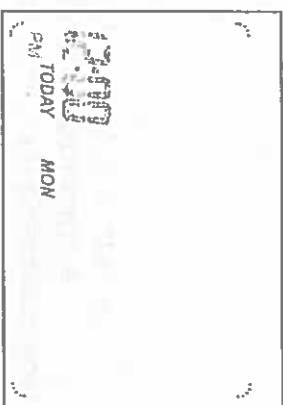
5. Press the **FAN** (right) button once to select day of the week (TODAY flashing).

   Press the **up** or **down** button to select current day of the week.

** **Note:** At any time, press the **SYS** (left) button to return to the previous screen or press the **FAN** (right) button to advance to the next screen.

Press the **PROG** button in for 2 seconds to lock values into memory and return to the OFF mode or press the **FAN** (right) button once to enter programming.

Program Overview

The SC5011 programmable thermostat has four periods (MORN, DAY, EVE, NITE) that are customizable for each day of the week. Each period will have a start time, heat temperature, cool temperature and programmable fan option. The SC5011 monitors the day and time, while maintaining the specific conditions you have chosen for each period in your program.

Setting the program schedule:

1. Press the **SYS** (left) button until you are in **OFF** mode.
2. Press and hold the **PROG** button (**SYS** and **FAN** buttons pressed simultaneously) for 6 seconds.
3. Press the **FAN** (right) button 3 times.
4. SUN thru SAT are blinking.

SYS   FAN
└ PROG ┘

From this screen you have 2 options:

1. Press the **FAN** (right) button to begin programming all 7 days at one time, or
2. Press the up button to see the other programming options.

** **Note:** The days of the week shown on the display will be programmed simultaneously.

SUN MON TUE WED THU FRI SAT
PROG

The screens are listed below.

	SUN	MON	TUE	WED	THU	FRI	SAT
Screen 1	SUN	MON	TUE	WED	THU	FRI	SAT
Screen 2		MON	TUE	WED	THU	FRI	
Screen 3			MON	TUE	WED	THU	FRI
Screen 4				TUE	WED	THU	
Screen 5					WED		
Screen 6						THU	
Screen 7							FRI
Screen 8	SUN						SAT
Screen 9	SUN						SAT
Screen 10	SUN						