

Figure 4

Figure 5



Figure 6

4-wire Heat/Cool System

5-wire Heat/Cool System

Cool 24V Supply

Single-stage Heat Pump System

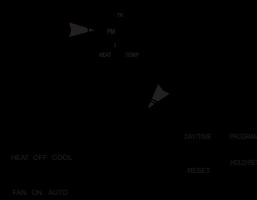


Figure 2

2-wire Heat Only System

3-wire Heat Only System

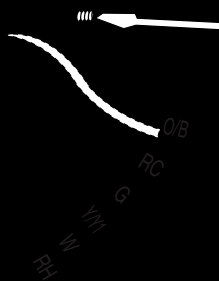


Figure 3

3-wire Cool Only System

Cool 24V Supply

X - No Connection

Selector Switches

In order for this thermostat to control your system, the system type must be specified by the selector switches on the printed circuit board inside the thermostat. There is also a selector switch for your choice of Fahrenheit or Celsius temperature display.

■ Heating System Selector (HG - HE switch)

The factory position for this switch is in the "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 after installation. If the Fan operation is normal, leave it in the "HG" position. If the Fan does not come on within a minute of the thermostat calling 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.

■ System Selector (STANDARD - HEAT PUMP switch)

The factory position for this switch is in the STD position. Leave it in this position if you have ANY system that uses gas, oil, electric, or hot water heating. If you have a single-stage Heat Pump (no auxiliary or emergency heat source), then slide the switch to the HP position. Be sure the reversing valve wire is connected to the correct terminal for your heat pump (Y/O) or (W/B).

■ F° / C° selector (Fahrenheit / Celsius)

Your thermostat is set for F° mode from the factory. In order to change to C° mode, slide the switch to C° and press the reset button on front of the thermostat with a paper clip.

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

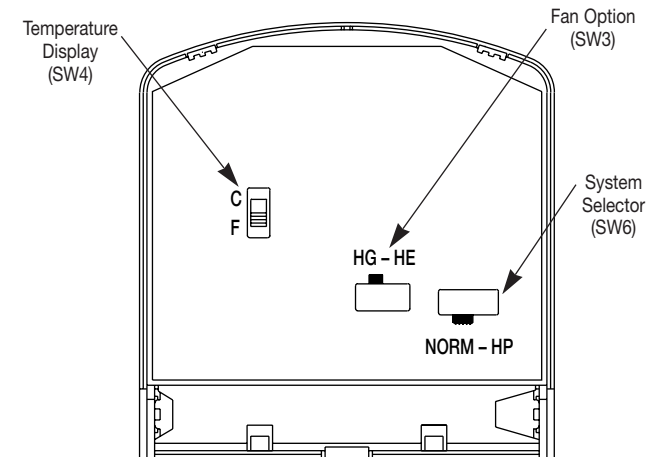


Figure 7

OPERATION

Setting Day and Time

■ The LCD will show this information when batteries are first installed, or after the Reset button is pressed. The temperature will update after a few seconds.

■ During time and day setting mode, the temperature and program displays will go blank.

■ Example: Set the Thermostat to the current time of 2:16 pm on Saturday. Refer to the Steps below.



STEP 1:

DAY/TIME

■ Press to enter time and day setting mode. The current hour and the AM / PM indicator will be flashing.

■ Press to change the Hour up or down to the current hour. Note the AM / PM indicator, as the display will change at 12 AM and 12 PM.



STEP 2:

DAY/TIME

■ Press again to change from hour setting to minute setting. The current minute will be flashing.

■ Press to change the Minute up or down to the current minute.



STEP 3:

DAY/TIME

■ Press again to change from minute setting to day setting. The current day will be flashing.

■ Press to change the Day up or down to the current day.



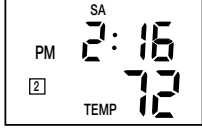
STEP 4:

DAY/TIME

■ Press again to change back to the normal display.

or

HOLD/RET



NOTE: You may press the HOLD/RET at any time during Day and Time setting to return to the normal display.

12 Hr. / 24 Hr. Time Format

Your thermostat is set from the factory in normal 12 (AM / PM) time format. To change to 24 hour (military) time, press PROGRAM at any time while the Hour, Minute,

or Day is flashing to toggle between the 12 hour and 24 hour formats. The AM / PM indicator will not be displayed in 24 hour mode. Both the current time and all programs will automatically change to the selected format.

PROGRAMMING

The following time and temperature settings are pre-programmed into the thermostat:

Program Number	Time	Temperature in F° (C°)	
		Heat	Cool
1	6:00 am	68°F (20°C)	78°F (26°C)
2	8:00 am	60°F (16°C)	85°F (29°C)
3	4:00 pm	68°F (20°C)	78°F (26°C)
4	10:00 pm	60°F (16°C)	82°F (28°C)

■ All 7 days of the week have the same default programs.

Personal Program Schedule

■ You can revise the factory programs to match your own schedule. Use this Personal Program Schedule to determine which times and temperature settings match your comfort and energy saving requirements. Use a pencil so you can revise your records each time you change your program settings.

Heating

Day	Program 1	Program 2	Program 3	Program 4
Monday - Friday	Time	Time	Time	Time
	Temp	Temp	Temp	Temp
Saturday - Sunday	Time	Time	Time	Time
	Temp	Temp	Temp	Temp

Cooling

Day	Program 1	Program 2	Program 3	Program 4
Monday - Friday	Time	Time	Time	Time
	Temp	Temp	Temp	Temp
Saturday - Sunday	Time	Time	Time	Time
	Temp	Temp	Temp	Temp

Revising Programs

■ Familiarize yourself with manually changing programs, so that you can easily modify the programs as your comfort needs change. Follow the steps below to change the program times and temperatures.

NOTE: 1) The program time can be set in 10-minute increments.

2) The program temperature can be set in increments of 1°F (1°C).

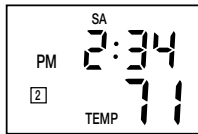
3) After 15 seconds without a key press, the thermostat will return to normal display mode.

4) When setting the program time, note the AM / PM indicator.

STEP 1:

■ Slide the System Switch to the HEAT or COOL position to program the corresponding system.

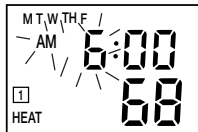
NOTE: If the System Switch is in the OFF position, the last position used will be programmed.



STEP 2:

PROGRAM

■ Press to enter program mode. HEAT or COOL will be displayed on the LCD.



STEP 3:

PROGRAM

■ The Program hour and AM or PM indicator are flashing. Press to change the hour.



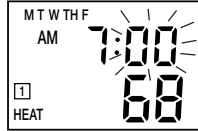
STEP 4:

PROGRAM

■ Press again to change to the minute position. The current minute will be flashing.



■ Press to change the minute.

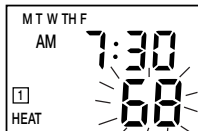


STEP 5:

PROGRAM

■ Press again to change to the program temperature. The current temperature will be flashing.

■ Press to change the temperature.



STEP 6:

PROGRAM

■ Press again to move to the next program number.

■ Repeat Steps 3 through 5 to change the remaining Weekday and Weekend programs. (There are a total of 8 programs.)

■ After cycling through all 8 programs, press again to return the display to normal.

■ Press at any time to exit the Program Mode.

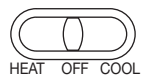
Reviewing Programs

To review your program settings, press PROGRAM repeatedly to cycle through the programs. You can also make changes at any time.

System Selector Switch

The System Selector switch on the front of the thermostat determines the operating mode of the thermostat. You may select COOL, OFF, HEAT.

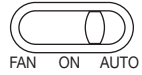
NOTE: Anytime you install or remove the thermostat from the wallplate, slide the System Selector to the OFF position to prevent the possibility of a rapid system On-Off.



Fan Switch

The Fan switch should normally be located in the AUTO position. The Fan will be turned on along with normal operation of your system. In a normal gas or oil furnace, the Fan will be turned on by your furnace after its warm-up delay. For electric heat, air conditioning, and heat pump operation, the Fan will turn on with the system.

To run the Fan on continuously, slide the Fan switch to the ON position.



Temporary Manual Override

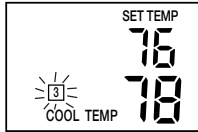
To temporarily change the current set temperature without affecting your program:

PROGRAM

■ Press and hold for about 1 second to enter Manual Override mode. When display flashes, you can release the key.



■ Press again to change to your desired Set Temperature. Hold the key for 2 seconds to fast-advance the Set Temperature.

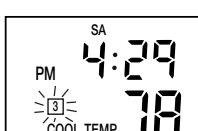


HOLD/RET

■ Press to return to normal mode, or wait 15 seconds for it to return automatically.

■ The current program number will flash to signify the Temporary Override.

■ At the next program change time, the Temporary Override is cancelled, and the next program temperature becomes the setpoint temperature.



To end the Temporary Manual Override:

HOLD/RET

■ Press, then press again. This will return the set temperature to the current program set temperature.

Permanent Override

To hold your Manual Override for vacation or just an extended period of time:

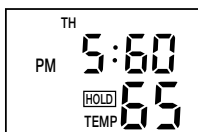
HOLD/RET

■ Press to make the current program temperature the HOLD temperature. HOLD will be displayed on the LCD, and the Program number will disappear.

■ Follow the Temporary Manual Override instructions above to change the Permanent Manual Override temperature.



■ You can confirm the held set temperature by pressing for less than 1 second.



To end the Permanent Manual Override:

HOLD/RET

■ Press again. The thermostat will return to the current program, and the HOLD display will be canceled.

SPAN Setting Mode

Your thermostat is set at the factory to cycle at 1°F (0.5°C) above and below the set temperature. (Span = 2) This setting has been designed to provide a comfortable room temperature under most all conditions. However, if you find your system cycling too fast or too slow, then the Span can be adjusted to modify the cycle time.



■ Press and hold BOTH for three seconds. The display will flash, and SPAN will be displayed on the LCD.



■ Press to raise the Span to 3. This setting INCREASES the cycle time by allowing your system to run LONGER.



■ Press to lower the Span to 1. This setting DECREASES the cycle time by causing your system to run SHORTER.

The Span settings remain the same for both HEAT and COOL.

The Span can be changed at any time, and is independent of program times or temperatures.

When batteries are installed in the thermostat, or the Reset key is pressed, the Span is reset back to setting 2.

Backlighting (INDIGLO® Night-Light)

Your thermostat has an electroluminescent lamp that backlights the display for easy viewing in the dark.

When any key is pressed or the System Switch is changed, the display is illuminated.

The display will remain illuminated for 5 seconds after the last key is pressed. This allows the light to stay on if you need to operate several keys.

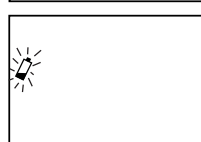
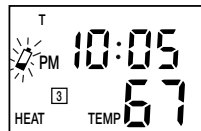
Note: If the thermostat is in Low Battery warning condition, the backlight will not operate. Replace with 2 new AA alkaline batteries to restore the Backlight function.

Low Battery Warning

Your thermostat has a two-stage low battery warning system. When the batteries are first detected to be weak, the first stage low battery warning is indicated by battery symbol flashing on the LCD display. At your earliest convenience, you need to replace the batteries with 2 new AA alkaline batteries.

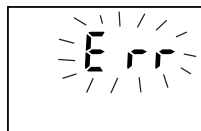
When the batteries become too weak for normal operation, the thermostat enters the second stage low battery warning which shuts down the thermostat. In this condition, "BATT" flashes alone on the display, and the thermostat will turn your system Off. Your system will remain shut-off until the batteries are replaced.

Note: The thermostat will still keep the current time and your programs in memory until new batteries are installed. After confirming that new batteries have been inserted, the thermostat will return to normal operation.



Error Mode

If the thermostat is unable to control your system due to an unexpected battery problem, the thermostat will enter Error Mode. In this condition, the thermostat flashes "Err" on the LCD display, and shuts off your system. To correct this problem, replace the batteries with 2 new AA alkaline batteries, even if you have recently replaced them. Next, use a paper clip to press the RESET button next to the keypad. You will need to reprogram your thermostat and confirm normal operation.



If Error Mode returns, please call CTC Technical support at 1-800-676-7861 for further information.

Auto Cut Off

Your thermostat will automatically cut-off in Heat mode if the room temperature rises above 95°F (35°C). It will cut-off in Cool mode if the room temperature drops below 45°F (7°C).

Note that if your system has malfunctioned and no longer responds to thermostat controls, the Auto Cut-Off will have no effect.

Mechanical Heat Back-up

This thermostat includes a bi-metal switch that will automatically turn on the Heat when the temperature reaches about 41° F (5° C).



WARNING: This switch only activates the Heating terminal (W). The system itself must be capable of automatically turning the Fan On. Without normal Fan operation, severe damage to the heating system could result.

TROUBLESHOOTING

Problem	Solution
No Display	1. Check battery connections and batteries. 2. Press RESET button 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 the time is set properly to "AM" or "PM". 2. Check that the thermostat is not in Permanent HOLD mode. 3. Check for the correct day setting.
Auto Fan Does Not Turn On Properly	1. Move HG/HE selector to correct position
Heating or Cooling Does Not Go On or Off	1. Check that the function switch is in the correct position ("HEAT" or "COOL"). 2. There may be as much as 4-minute delay before the system turns On - wait and check. (Compressor protection delay.) 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 non-heat pump system only uses 4-wires, be sure the jumper wire is installed between the RC and RH terminals. 7. Check the position of the Reversing Valve selector switch: Standard or Heat Pump.
Erratic Display	1. Press the reset button once with a small pin and hold for two seconds. Then reprogram.
If unit continues to operate in the Off position	1. Replace unit.
Thermostat permanently reads "HI", "LO", or "ERR"	1. Replace unit.

If you experience any other problems, call 1-800-676-7861 from 8 AM to 5 PM Central Time for technical assistance.

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