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Dallas, Texas, USA

# OWNER'S GUIDE

## Elite® Series Programmable Touch Screen Thermostats



# **⚠ IMPORTANT**

**Read and save these instructions.**

505,045M  
1/2005

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## Thermostat Features

- **Large, clear display with backlight shows the current temperature, the current temperature setting and the time -- even in the dark.**
- **Menu-driven programming makes set-up effortless.**
- **Touch screen interaction.**
- **Real-time clock keeps time during power failures and automatically converts to daylight savings time.**
- **“Saving Changes” notification assures you that changes have been saved.**
- **Change / check reminders let you know when it is time to replace filters, UV lamps, batteries, etc.**
- **Override options allow you to easily override the programmed schedule.**
- **Same-schedule programming allows you to program a schedule for several days at once. No need to copy.**
- **Armchair programming allows you to remove the thermostat from the wall while you program your schedules.**

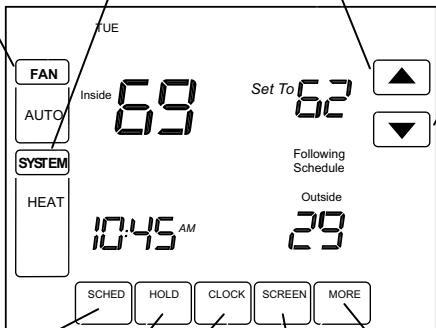
## Thermostat Display

**SYSTEM**  
SELECT EMERGENCY  
HEAT, HEAT, OFF OR COOL

**UP ARROW**  
RAISES  
TEMPERATURE  
SETTING

**FAN**  
SELECT AUTO,  
ON OR CIRC

**DOWN ARROW**  
LOWERS  
TEMPERATURE  
SETTING



**SCHED**  
SELECT TO  
ENTER  
SCHEDULE  
MODE

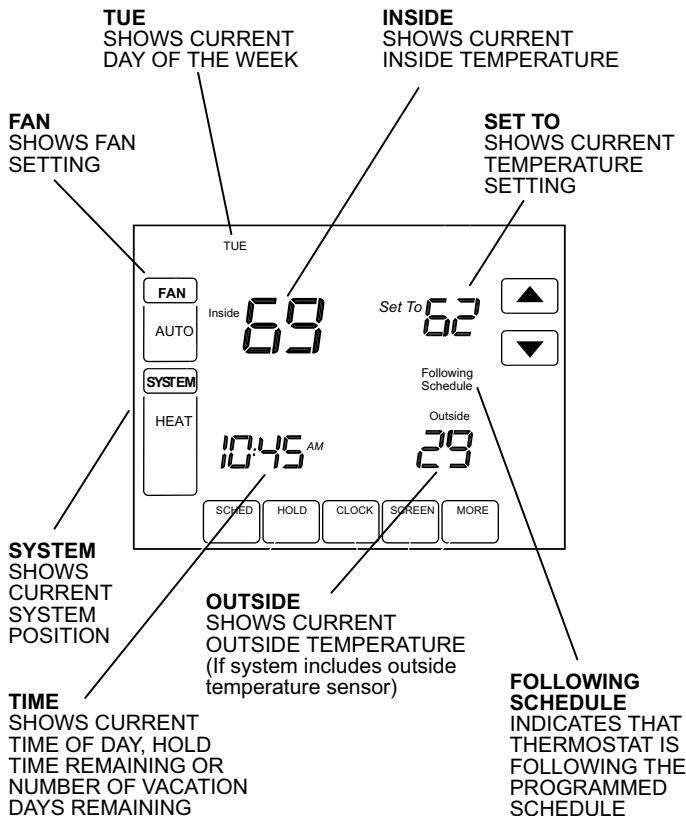
**CLOCK**  
USED TO SET  
THE TIME  
FORWARD OR  
BACK

**MORE**  
SHOWS FURNACE  
FILTER, UV LIGHT  
OR HUMIDIFIER  
PAD CHANGE  
REMINDER

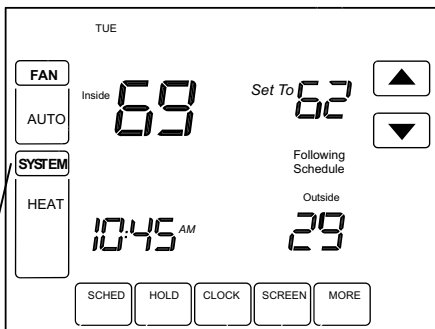
**HOLD**  
SETS A PERMANENT  
HOLD AND ACTIVATES  
VACATION HOLD

**SCREEN**  
LOCKS TOUCH  
SCREEN FOR  
CLEANING

## Thermostat Display (Continued)



## System Settings



**PRESS SYSTEM**  
SELECT SETTING OF HEAT,  
OFF, COOL OR EM HEAT  
(Heat pump systems only)

### SYSTEM SETTINGS

The system setting options vary based on your heating and/or cooling type.

**HEAT** -- Thermostat controls heating system.

**OFF** -- Both heating and cooling systems are off.

**COOL** -- Thermostat controls cooling system.

**AUTO** -- The thermostat switches the system from the heating mode to the cooling mode based on temperature.

**EM HEAT** -- Heat pump systems only -- Thermostat controls emergency heat and auxiliary heat, if needed. Heat pump compressor is not operational.

## Fan Settings

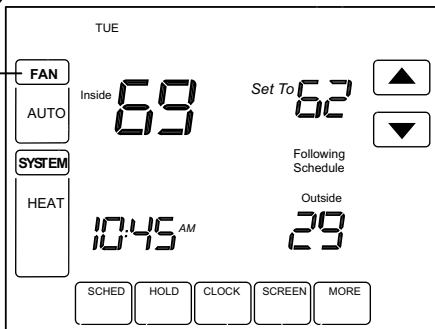
### FAN SETTINGS

**ON** -- Fan runs continuously. Use this setting for improved air circulation or for more efficient central air cleaning.

**AUTO** -- Fan runs only when heating or cooling system is on.

**CIRC** -- Fan runs randomly approximately 35% of the time. Use this setting for improved air circulation or for more efficient central air cleaning when you do not want the fan to run continuously.

PRESS FAN.  
SELECT SETTING:  
ON, AUTO OR CIRC.



## Program Your Heating and Cooling Schedule

**NOTE** - The thermostat includes a battery which makes it possible for you to remove the thermostat from the wall-plate during program. See page 19.

Your thermostat can control up to four different schedule periods per day:

**Wake** -- Time when you awaken and want your home at a comfortable temperature.

**Leave** -- Time when you leave the home and prefer an energy-saving temperature setting.

**Return** -- Time when you return home and want your home to return to a more comfortable temperature setting.

**Sleep** -- Time when you are asleep and prefer an energy-saving temperature setting.

*NOTE* - Schedule times are in 15-minute intervals.

### EDIT THE SCHEDULE:

**1 - Press the SCHED key.** The SCHEDULE screen will be displayed.

**2 - Press the EDIT key.** The screen will change to display the days of the week across the top.

MON	TUE	WED	THU	FRI	SAT	SUN
OK TO PICK MULTIPLE DAYS						
						CANCEL



## Program Your Heating and Cooling Schedule (Cont.)

**3 - Select any combination of days to edit.** You may select multiple days. These should be days that you wish to follow the same schedule. Check marks appear next to the days that are selected. After the first day is selected, the SCHEDULE screen returns to the display.

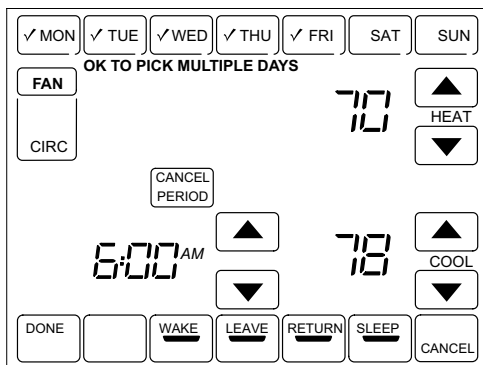
**4 - Press the WAKE key.** The WAKE key will flash to show it is selected.

**5 - Press the UP and DOWN keys to modify time and heat and cool temperatures shown on the screen.**

**6 - Press LEAVE key and repeat step 5.**

**7 - Press RETURN key and repeat step 5.**

**8 - Press SLEEP key and repeat step 5.**



## Program Your Heating and Cooling Schedule (Cont.)

*NOTE - The FAN setting can be programmed for ON, AUTO or CIRC for each period selected. See following page for more information about fan setting options.*

**9 - Press DONE key when finished.** Saving changes screen appears to indicate that schedule changes are being saved to the days selected.

**10 - Repeat steps 1 through 9 to set a program schedule for the remaining days of the week.** Example: If Mon - Fri was selected first, repeat steps 1 through 9 to program Sat and Sun.

*NOTE - To exit the schedule without saving changes, press CANCEL key at any time.*

MON	TUE	WED	THU	FRI
SAVING CHANGES				
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Fan Schedule

The **FAN** setting can be programmed for **ON**, **AUTO** or **CIRC** for each period selected:

**ON** -- Fan runs continuously. Use this setting for improved air circulation or for more efficient central air cleaning.

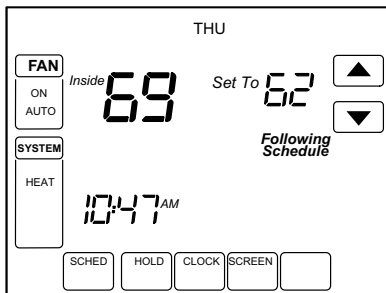
**AUTO** -- Fan runs only when heating or cooling system is on.

**CIRC** -- Fan runs randomly approximately 35% of the time.

Use this setting for improved air circulation or for more efficient central air cleaning when you do not want the fan to run continuously.

**Fan Status Display on Home Screen** -- If the fan program is scheduled, **AUTO** is displayed as the fan setting, along with the particular fan setting that has been programmed. For example, if, during the **WAKE** period, the Fan has been set to **AUTO**, then **AUTO** is shown as the fan setting. However, if, during the **WAKE** period, the Fan has been set to **ON**, both **AUTO** and **ON** are displayed. **AUTO** indicates that the fan has been scheduled and **ON** indicates that the fan has been scheduled to be **ON**.

**Manually Override Scheduled Fan Setting** -- If the fan setting is scheduled, press the **FAN** key, then press the desired fan setting to manually override the scheduled fan setting. Fan operation will return to the programmed operation when the next schedule period begins.



## Cancel a Schedule Period

You may wish to cancel a period to match your lifestyle. For example, if someone is always home during the day on Tuesday, you can cancel the LEAVE and RETURN periods to have the thermostat hold the WAKE temperature until the SLEEP period is reached.

**1 - Press the SCHED key.** The SCHEDULE screen will be displayed.

**2 - Press the EDIT key.** The screen will change to display the days of the week across the top.

**3 - Select the day or days of the week that are affected by the schedule change.**

**4 - Press the schedule period you want to cancel: WAKE, LEAVE, RETURN or SLEEP.** Once selected the period will flash to show it is selected.

**5 - Press the CANCEL key.** The time, temperature(s) and fan settings will all disappear from the screen. The bar above the selected period is removed to indicate that the selected period was cancelled.

**6 - Press DONE key.**

*NOTE - A schedule period may be reinstated at any time by entering the schedule edit screen, selecting the period and pressing the arrow keys to set the desired time and temperatures.*

MON	✓TUE	WED	THU	FRI	SAT	SUN
OK TO PICK MULTIPLE DAYS						
FAN					--	▲
						HEAT ▼
			▲			▲
		---	▼		--	COOL ▼
DONE		WAKE	LEAVE	RETURN	SLEEP	CANCEL

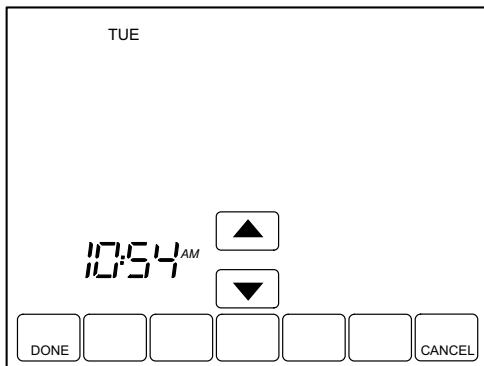
## Set the Time

**1 - Press the CLOCK key.** The current time setting will be displayed as shown below.

**2 - Use the arrows to set the correct time.**

**3 - Press DONE key.**

*IMPORTANT - The current day of the week should be displayed correctly on this screen. If not, refer to the Advanced Settings section to correct the day of the week display.*



## Override Temperature Setting -- Temporary Hold

You may use the temporary hold function to override the programmed temperature setting until the next scheduled period or until a particular time that you wish.

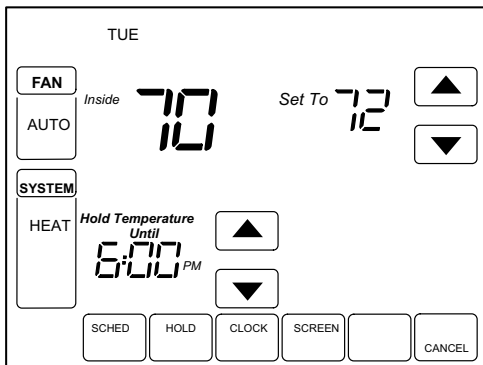
**1 - Press the UP or DOWN arrow next to the temperature display to adjust the temperature as desired.**

*NOTE - "Hold Temperature Until" appears on the screen. The currently programmed start time of the next scheduled period also appears, as does an additional set of arrows.*

**2 - Use the UP and Down arrows next to the displayed time to set the time that you wish for the thermostat to resume the schedule.**

*NOTE - The time arrows are displayed for approximately seven seconds. Press the screen where the hold temperature time is shown to allow the arrows to reappear.*

**3 - Press CANCEL or SCHED key to cancel temperature hold and resume schedule.** "Following Schedule" appears on the screen to indicate that the temporary hold has ended.



## Override Temperature Setting -- Permanent Hold

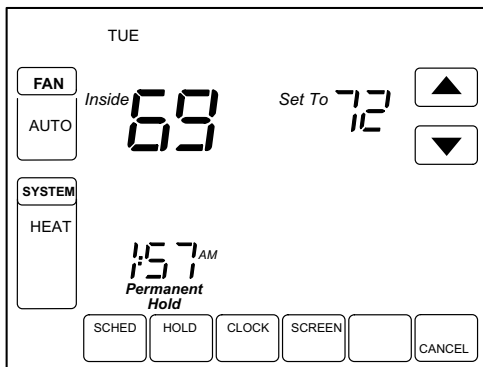
The permanent hold function overrides the programmed temperature setting until the permanent hold is cancelled.

### 1 - Press the **HOLD** key.

*NOTE* - "Permanent Hold" appears on the screen under the current time.

### 2 - Use the **UP** and **Down** to adjust the temperature to the setting that you want the thermostat to hold.

3 - Press **CANCEL** key to cancel permanent hold and resume schedule. "Following Schedule" appears on the screen to indicate that the hold has ended.



## Override Temperature Setting -- Vacation Hold

You may use the vacation hold function to override the programmed temperature setting for a designated number of days.

**1 - Press the UP or DOWN arrow next to the temperature display to adjust the temperature as desired.**

*NOTE - "Hold Temperature Until" appears on the screen. The currently programmed start time of the next scheduled period also appears, as does an additional set of arrows. This is the time of day that the override will expire after the hold period ends.*

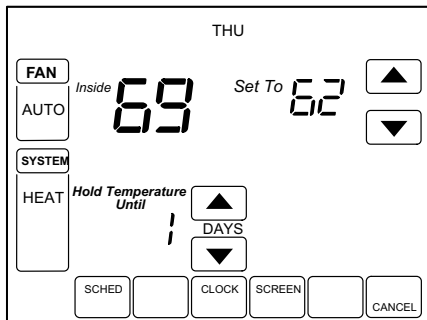
**2 - Press the HOLD key twice.** Screen shows "Hold Temperature Until" one day.

**3 - Press the UP and DOWN arrows to adjust the number of days you would like to override the schedule.**

*NOTE - The arrows used to adjust the number of days are displayed for approximately seven seconds. Press the screen where the number of days are shown to allow the arrows to re-appear.*

**4 - Press the CANCEL key to cancel the vacation override early.**

*NOTE - When the programmed vacation hold expires, the screen displays "Following Schedule" to indicate that the hold has ended.*





## Temperature Recovery Feature

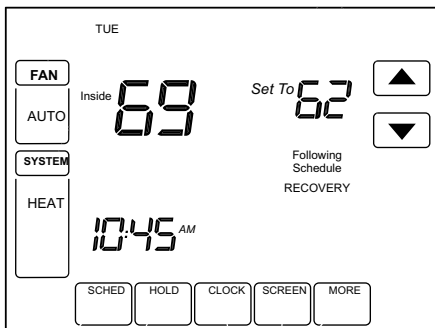
Your thermostat is equipped with a feature that accommodates recovery time to ensure your comfort.

Recovery time is the time that it takes your heating and cooling equipment to recover from energy-saving settings programmed during away or asleep periods. Recovery time depends on local weather, your schedule, the construction of your home and your heating and/or cooling equipment.

Your thermostat tracks the time that it takes for your system to reach your desired settings (recovery period). This allows the thermostat to accommodate this recovery period and to ensure your comfort at the programmed wake and return settings.

For example, your WAKE period is programmed for 6:00 a.m. and 70°F. The thermostat activates heating in advance of 6:00 a.m. to ensure that your desired comfort setting of 70°F is reached by the time you awake.

A recovery notice is displayed when the system is operating before the scheduled time.



## Clean the Thermostat Screen

The thermostat screen may be cleaned, if necessary.

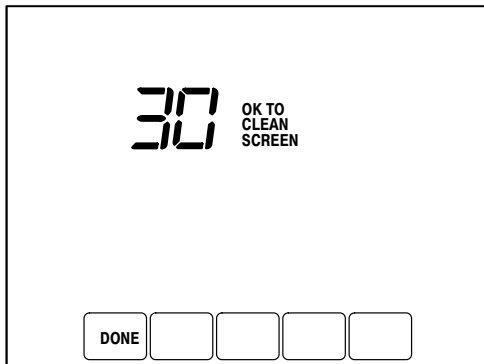
**1 - Press the SCREEN key.** The thermostat locks the touch screen for 30 seconds to allow for cleaning.

**2 - Use a damp cloth slightly moistened with water or household glass cleaner to clean the screen.**

*IMPORTANT - Do not spray any type of liquid directly onto the thermostat. Spray the water or household glass cleaner on a cloth, then use the cloth to clean the thermostat screen.*

**3 - Repeat the above steps as necessary.**

**4 - Press the DONE key to return to the home screen and normal operation.**

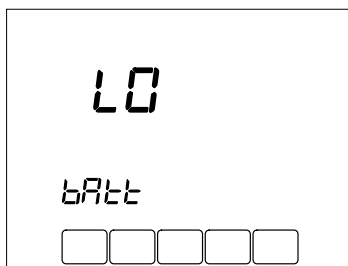


## Battery Replacement

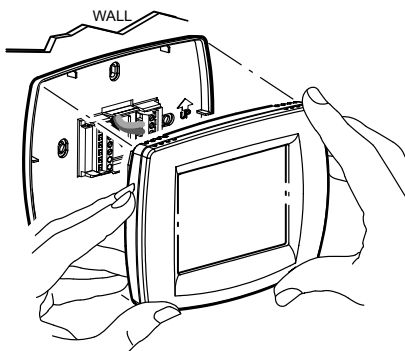
If your thermostat has batteries, a low battery warning flashes on the home screen for approximately 30 days.

*IMPORTANT - Batteries should be replaced once per year to prevent leakage and to prevent loss of battery back-up in a power outage. You may also wish to replace the batteries prior to leaving your home for more than a month.*

**1 - When the low battery indicator is flashing, replace the batteries promptly with three fresh AAA alkaline batteries.**

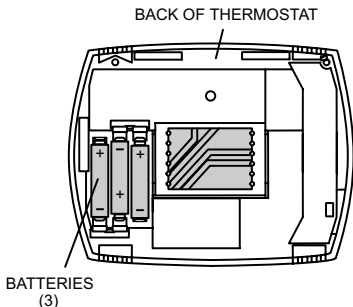


**2 - Remove the thermostat from the wallplate by pulling straight out.**



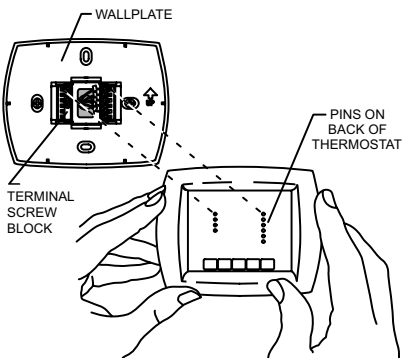
## Battery Replacement (Continued)

**3 - Remove the old batteries and insert three fresh AAA alkaline batteries, as marked on the thermostat.**



**4 - Align the terminal screw blocks with the pins on the back of the thermostat.**

**5 - Push the thermostat straight onto the wallplate until it snaps into place.**



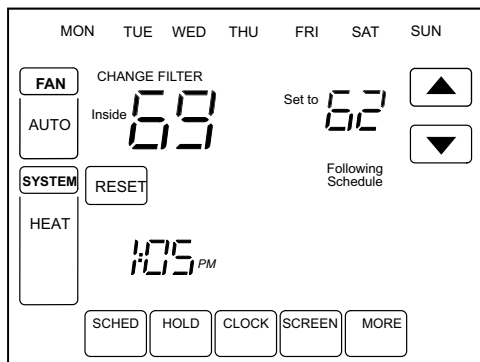
## Reminder Timers

The reminder timers notify you when it is time to change the furnace filter, humidifier pad or ultraviolet lamp. When one of the set timers expires, a reset key appears on the home screen.

### Reset Timers

**1 - "Change" reminder appears on the screen when the timer expires.**

**2 - Press the RESET key to restart the timer.** If more than one timer expires at the same time, press the RESET key until all timers have been reset.



### View or Reset Timer Settings Before They Expire

**1 - Press the MORE key until the timer you want to modify appears on the screen.**

**2 - Press the EDIT key to change the Timer Reload Value.** Use the UP or DOWN arrow keys to change the number of run time days. See the Advanced Settings section, step 8 through 10 for more information.

**3 - Press the DONE key to return to the selected timer.**

**4 - Press the RESET key to reset the timer to the Timer Reload Value.**

**5 - Press the DONE or CANCEL key to return to the home screen.**

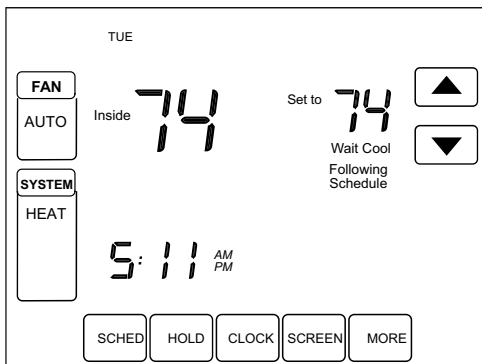
## Built-In Compressor Protection

The thermostat provides built-in compressor protection (minimum-off timer) that prevents the compressor from restarting too early after a shutdown.

The minimum-off timer is activated after the compressor shuts off.

If there is a demand for compressor operation during the delay, the thermostat displays the WAIT message.

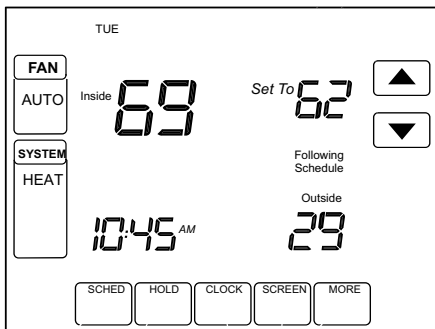
When the minimum-off delay expires, COOL ON ( or HEAT ON in heat pump applications) is displayed solidly on the screen and the compressor and fan are allowed to operate to meet the demand.



## Outdoor Temperature

If an optional outdoor temperature sensor has been installed with your thermostat, the outdoor temperature is displayed in the lower right corner of the home screen.

If the temperature is not displayed and an outdoor temperature sensor has been installed, press the MORE key until the outside temperature is displayed.

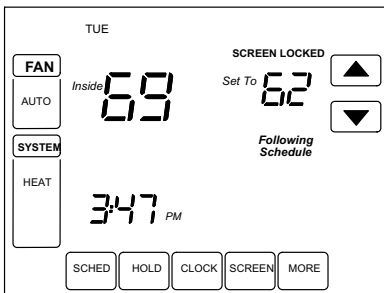


## Advanced Heat Pump Features (Select Models)

Some thermostat models, when used in heat pump systems which include an optional outdoor temperature sensor, provide additional features. In these applications, the compressor and/or back-up heat lockout may be based on the outside temperature.

## Screen Lock

You can fully or partially lock the keys on the touch screen. See the Advanced Settings section for more information on this feature. If the thermostat displays a “Screen Locked” message, your thermostat screen is either fully or partially locked.



### Partially Locked Screen

When partially locked, all touch screen keys are locked except the temperature up and down arrow keys and the SYSTEM key access to the user set-up options. The Screen Locked message is displayed for 5 to 7 seconds each time the user attempts to press a key that is locked.

When the screen is partially locked, you will be able to adjust the temperature setting up or down; but schedule settings will not be accessible. The temporary temperature change lasts until the next scheduled period. Refer to Temporary Temperature Override section. To cancel the temporary temperature override and return to the programmed schedule, press the CANCEL key.

### Fully Locked Screen

When the screen is fully locked, you will still be allowed to access the user set-up options through the SYSTEM key; however, all other touch screen keys are locked and are not functional. The Screen Locked message is displayed continuously.

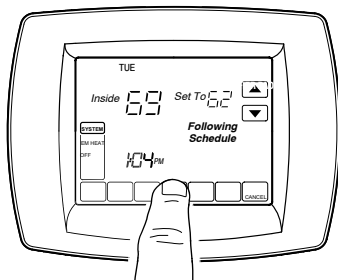


## Advanced Settings

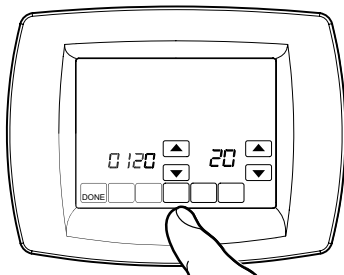
Your thermostat has many advanced settings that can be used to match your desired use of this important tool. These items have been set by the installer during the installer set-up process; however, use the following information to customize the settings for your use.

Use the following steps and the User Set-Up table on pages 25 through 27 to customize your thermostat operation.

- 1 - Press and release the **SYSTEM** key.
- 2 - Press and hold the center blank key for approximately five seconds, until the screen changes.

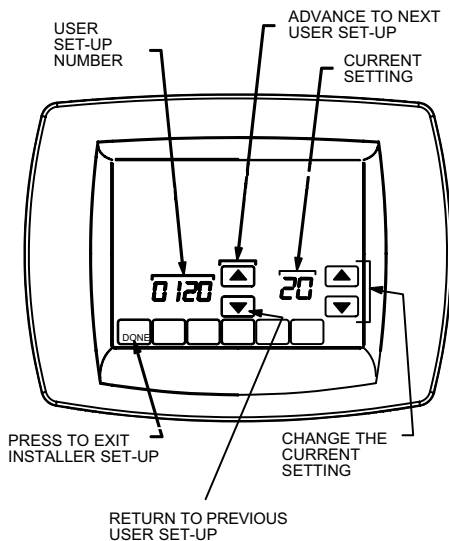


- 3 - Release the key when the thermostat display matches the display below.



## Advanced Settings (Continued)

- 4 - Refer to the figure below to see how the thermostat buttons are used to make selections.
- 5- Refer to the table on the following pages to make proper set-up choices for your application.
- 6 - When all set-up selections have been made, press the DONE key to save your settings. The thermostat display will return to the main screen.



## Advanced Settings (Continued)

User Set-Up Number	Set-Up Name	Selection Description
0120	Date (Year/first)	Select first two digits of current calendar year ( <b>20</b> for <b>2005</b> , etc.)
0130	Date (Year/last)	Select last two digits of current calendar year ( <b>05</b> for <b>2005</b> , etc.) Options: 01 to 99 available.
0140	Date (Month)	Select number that represents current calendar month. Options 1 through 12.
0150	Date (Day)	Select number that represents current calendar date. Options 1 through 31.
0160	Schedule Options	Select the type of scheduling that will be used. Options: 0 - non-programmable thermostat; 4 - fully programmable thermostat with 7-day scheduling.
0320	Temp. Display Scale	Select the temperature display to be used. Options: 0 -- Fahrenheit; 1 - Celsius.
0330	Daylight Savings	Options: 0 - Off. Thermostat time is not automatically adjusted for Daylight Savings in the Fall and Spring; 1 - On. Thermostat time is automatically adjusted for Daylight Savings in the Fall and Spring;

## Advanced Settings (Continued)

User Set-Up Number	Set-Up Name	Selection Description
0500	Filter Change Reminder	Select option for filter change reminder timer. Options: 0 - Reminder is off; 1 - 10 run time days; 2 - 30 run time days; 3 - 60 run time days; 4 - 90 run time days; 5 - 120 run time days; 6 - 365 run time days.
0510	Humidifier Pad Replacement Reminder	Select option for humidifier pad replacement reminder timer. Options: 0 - Reminder is off; 1 - 90 run time days; 2 - 180 run time days; 3 - 365 run time days.
0520	UV Lamp Replacement Reminder	Select option for UV lamp replacement reminder timer. Options: 0 - Reminder is off; 1 - 365 run time days.
0540	Number of Periods	Select option for number of scheduling periods. Options: 2 - Two periods (wake and sleep); 4 - Four periods (wake, leave, return, sleep).
0640	Clock Format	Select clock format. Options: 12 - 12-hour clock; 24 - 24-hour clock.

## Advanced Settings (Continued)

User Set-Up Number	Set-Up Name	Selection Description
0670	Screen Lock-Out	Select screen lockout. Options: 0 - All keys are functional. Screen is unlocked; 1 - Screen partially locked -- only temp. up and down keys and ability to enter installer set-up mode and modify set-up selections are enabled; 2 - Screen fully locked -- only ability to enter installer set-up mode and modify set-up selections are enabled.

## Troubleshooting Tips

If . . .	Then . . .
Key to the right of the screen key is blank.	MORE key remains blank unless the Furnace Filter Change Reminder has been turned on. See User Set-Up Number 0500.
Display is blank.	Check that fresh AAA alkaline batteries are installed as marked on the thermostat.
Temperature settings do not change.	Check that temperature settings are: <ul style="list-style-type: none"><li>● Heating 40°F to 90°F (4.5°C to 32°C).</li><li>● Cooling 50°F to 99°F (10°C to 37°C).</li></ul>
Heating system does not turn on.	<ul style="list-style-type: none"><li>● Set the system to heat by pressing the SYSTEM key.</li><li>● Check the heat temperature setting to be sure it is set above the room temperature and "Heat On" is displayed solidly on the screen.</li><li>● Check the circuit breaker to make sure it is not tripped.</li><li>● Check the power switch at the heating and/or cooling system to make sure it is on.</li><li>● Check the furnace door to make sure it is closed securely.</li><li>● Wait five minutes for the heating system to respond.</li><li>● If the problem has not been identified and corrected, contact a qualified service technician.</li></ul>

## Troubleshooting Tips (Continued)

If . . .	Then . . .
Cooling system does not turn on.	<ul style="list-style-type: none"> <li>● Set the system to Cool by pressing the SYSTEM key.</li> <li>● Check the cool temperature setting to be sure it is set below the room temperature and "Cool On" is displayed solidly on the screen.</li> <li>● Check the circuit breaker to make sure it is not tripped.</li> <li>● Check the power switch at the heating and/or cooling system to make sure it is on.</li> <li>● Check the furnace door to make sure it is closed securely.</li> <li>● Wait five minutes for the cooling system to respond.</li> <li>● If the problem has not been identified and corrected, contact a qualified service technician.</li> </ul>
Cannot set System setting to Cool.	Check Installer Set-Up Number 170: Heating and/or Cooling Type*. Make sure the setting matches the installed heating and/or cooling system.
"Heat On" is not displayed on the screen.	Set the System setting to Heat and set the temperature setting above the room temperature. If "Heat On" is shown solidly in the display, but the heating system does not turn on, see "Heating system does not turn on" suggestions on the previous page.
"Cool On" is not displayed on the screen.	Set the System setting to Cool and set the temperature setting below the room temperature. If "Cool On" is shown solidly in the display, but the cooling system does not turn on, see "Cooling system does not turn on" suggestions at the top of this page.

*\*Refer to Installation Instructions for access to Installer Set-Up procedures.*

## Troubleshooting Tips (Continued)

If . . .	Then . . .
"Wait" is displayed on the screen.	Compressor minimum-off timer is activated. Wait up to five minutes for the compressor to turn on.
Fan does not turn on in a call for heat (electric furnaces only)	Check Installer Set-Up 0180: Fan Control in Heating*. Make sure Electric Heat option is selected.
Both heating and cooling systems are operating at the same time.	Check Installer Set-Up Number 170: Heating and/or Cooling Type*. Make sure the setting matches the installed heating and/or cooling system.  Check to ensure that bare portions of wires are not touching.
Heating is running in Cool mode.	Check Installer Set-Up Number 170: Heating and/or Cooling Type*. Make sure the setting matches the installed heating and/or cooling system.
Heating system does not turn off and the heat temperature setting is set below the room temperature ("Heat On" is not shown in display.)	Check Installer Set-Up Number 170: Heating and/or Cooling Type*. Make sure the setting matches the installed heating and/or cooling system.
Red LED is lit in the upper right corner of the thermostat when the system monitor detects a possible problem.	A system monitor is wired to the thermostat L terminal. Refer to suggestions given in Heating or Cooling System Does Not Turn On sections in this table.

*\*Refer to Installation Instructions for access to Installer Set-Up procedures.*



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