

Introduction CONGRATULATIONS! Your new Hunter electronic thermostat will provide years of Please read this manual for complete instructions on installing reliable service. By saving energy, your thermostat will pay for itself during its first season of use. Thank you for buying a and operating your thermostat. If you require further assistance, call Hunter Support at 888-Hunter product! 830-1326 from 8 AM to 5 PM Central Time. Model Information:

Model Number _____**44760** Serial Number_____ Date Purchased _____

Where Purchased _____

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Read This Before Installing Thermostat

IMPORTANT

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 LCD display window.

INSTALLATION

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

ARMCHAIR PROGRAMMING

 $3\,$ You can program your thermostat before installation by inserting the batteries and following the instructions starting on page 16. 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.

SYSTEM COMPATIBILITY

4 Your Thermostat is designed to operate these 24-Volt systems:

- Multi-stage heat pumps with auxiliary heat
- Single-stage heat pumps

This thermostat will not control 120/240 Volt systems or millivolt systems.

6

COMPRESSOR PROTECTION

5 The thermostat provides a 3.5 minute delay after shutting off the heating or cooling system before it can be restarted. This feature will prevent damage to your compressor caused by rapid cycling.

7

TEMPERATURE RANGE

6 Your thermostat can be programmed between 45°F and 95°F (7°C and 35°C). However, it will display room temperatures from 15°F to 99°F (-9°C and 37°C). "HI" will be displayed if the temperature is higher than 99°F (37°C), and "L0" will be displayed if the temperature is lower than 15°F (-9°C).

AUTO RECOVERY

7 Your thermostat is set from the factory to gradually recover the room temperature from an energy saving program to your comfort program. Therefore, the thermostat may turn your system on several minutes prior to your programmed time. This operation is normal, but can be turned off. Refer to the Options Menu information on pages 16.

OPERATION

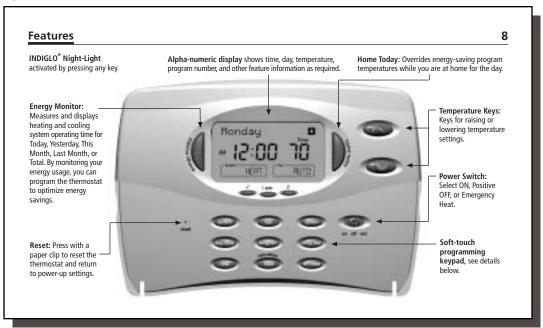
This system operates on your system's 24 Volt power supply. The supply is monitored by the thermostat, and it will stop functioning if AC power is lost. (When using backup batteries, "No AC Pwr" will be displayed.) All system controls will remain off until power is restored.

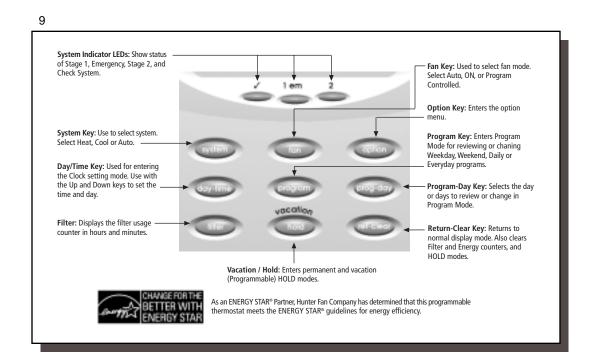
NOTE: The INDIGLO® Night-Light will not function when AC power is lost.

BATTERY WARNING

9 Fresh alkaline batteries will provide over one year of memory backup and clock operation. However, when the batteries become drained, a low battery warning will appear on the display. When this message occurs, install 2 new AAA batteries. You have approximately 30 seconds when changing the batteries to keep thermostat's clock and program settings.

NOTE: The default system selection at power-on is HEAT. Batteries are recommended to prevent an undesired system change due to a power outage.





INSTALLATION



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What You Need

This thermostat includes two #8 slotted screws and two wall anchors for mounting. To install your thermostat, you should have the following tools and materials.

- Slotted Screwdriver(s)
- Electric drill and 3/16" bit
- Phillips Screwdriver
- Two 1.5 V (AA) size alkaline batteries
- Hammer

Remove Old Thermostat

CAUTION: Do not remove any wiring from existing thermostat before reading the instructions carefully. WIRES MUST BE LABELED PRIOR TO REMOVAL.

- IMPORTANT! Turn off the power to the furnace at the main power panel or at the furnace.
- Remove existing thermostat cover. See Figure 1. Some thermostats will have screws or other locking devices that must first be removed. Once wall mounting plate is exposed, look

If wires are not visible, they may be connected to the back of the wallplate. Again, look for screws, tabs, etc. Some models have doors that open to expose wires and mounting screws. (See Figure 1).

TYPICAL HOME THERMOSTATS Figure 1





Thermostat

Cover



Wall Mounting Plate



Wall Mounting Plate

Thermostat

Cover

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Wire Labeling

- 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 the next page.
- The number of wires in your system can be as few as four (for single-stage 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.
- IMPORTANT! BEFORE DISCONNECTING ANY WIRES, APPLY THE SELF-ADHESIVE LABELS PROVIDED TO THE WIRE AS
- SHOWN IN TABLE A and B ON PAGES 12-13. (For example, attach the label marked W to the wire that goes to the W or H terminal on your existing thermostat.) IGNORE THE COLOR OF THE WIRES 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.

(continued)

INSTALLATION

TABLE A - TERMINAL DESCRIPTIONS

TERMINAL LABELS	FUNCTION (HEAT PUMP)	COMMENTS
R	24V AC supply	Hot wire of 24VAC transformer. Powers the thermostat & system.
Y1	Compressor stage 1	Activates the 1st stage compressor. (Heat or Cool for Heat Pumps)
W2	Auxiliary heating	Activates the 2nd stage (auxiliary) heating when required.
E	Emergency heating	Activates Emergency heating ONLY when the System Switch is in Emergency (em) Mode.
0	Reversing valve (cooling mode)	Activates reversing valve in COOL mode. ALWAYS ON in COOL MODE.
В	Reversing valve (heating mode)	Activates reversing valve in HEAT mode. ALWAYS ON in HEAT MODE.
G	Fan	Activates the system Fan. (Can be Auto, On, or Program controlled)
L	System monitor	Activates System Check LED on the front of thermostat. (Controlled by the system, not the thermostat.)
С	24V AC common	Common wire of 24V AC transformer. REQUIRED for thermostat operation.

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TABLE B HEAT PUMP CROSS-REFERENCE CHART

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	EXAMPLES OF DIFFERENT SYSTEM TERMINALS								
HUNTER TERMINALS	CARRIER	COLEMAN	COMFORTMAKER	BRYANT, PAYNE	RHEEM- RUUD	TRANE, WEATHERTRON	YORK	LENNOX (1)	LENNOX (2)
R	R	R	R	R	R	R	R	R	V-VR
Y1	Y or Y1	Y	Y	Υ	Υ	Y	Υ	Y	М
W2	W2	W2	W1	W2	W2	W	W	W1	Y
E	E	E	jumper to W2	E	E	X2	jumper to W2	E	E
0	0		0	0		0	0	0	R
В		В			В				
G	G	G	G	G	G	G	G	G	F
L	L or F	L	L or X	L	L		Х	L	
С	С	Х	C, X, X1	C, C1, X1	Х	В	В	С	Χ
		Note: W2 wires no connection				Note: T wire no connection			

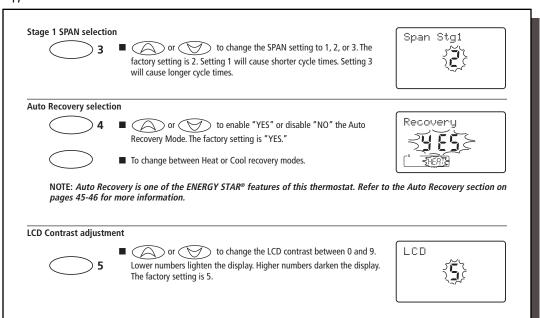
NOTE: If your heat pump thermostat does not have an E wire, use the provided jumper wire to connect the E terminal to the W2 terminal, as shown in three examples above. Refer to the Wiring Diagram on page 52.

INSTALLATION Remove the wallplate from your thermostat by pressing the release tab on the bottom of the thermostat. (See Figure 2.) Position wallplate on wall and pull existing wires through large opening. Then level for appearance. Mark holes for plastic anchors provided if your existing holes do not line up with those on the Hunter wallplate. Pigure 2 In 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 3.)

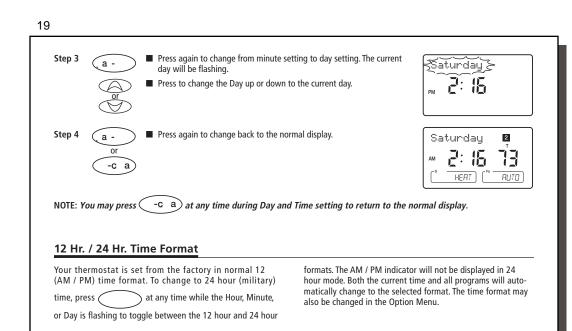
15

Connect Wires and Mount Thermostat to Wallplate 15 ■ Straighten bare end of each wire and cut or strip it to 1/4" maximum. Insert each labeled wire into the bottom of the maching terminal. Refer to figures 4 and 5. ■ Hold the wires in each terminal and tighten the terminal Figure 4 screws securely, otherwise a loose wire could cause operational problems with your system or thermostat. ■ Push excess wire back into hole to prevent interference with mounting of the thermostat. ■ Make sure the Power Switch is set to OFF. ■ Insert two AAA size alkaline batteries, observing the polarity marked on the unit. ■ Insert the upper tabs on the thermostat body into the slot at the top of the wallplate. Press bottom of the thermostat body to snap it into the wallplate. (NOTE: Do not force the thermostat onto the wallplate, as the terminal pins may be GCLOW2BERY1 damaged. If it does not snap properly, the thermostat may not work.) ■ Switch on the main power at the panel or furnace. Figure 5

PROGRAMMING Option Menu Your thermostat has many settings that can be adjusted to fit your system and preferences. Press to enter the Option Menu and to change to the next option selection. Press at any time to return to normal mode. Fahrenheit or Celsius (F°/C°) selection 1 or to change the thermostat display between Fahrenheit and Celsius. Temp 12 Hr or 24 Hr. Clock selection 2 or to change the time format display between 12 hour (AM / PM) and 24 hour (military).



PROGRAMMING 18 **Setting Time and Day** ■ The LCD will show this information when batteries are first installed, or after 4 Monday 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. RUTO HERT ■ Example: Set the Thermostat to the current time of 2:16 PM on Saturday. Refer to the Steps below. ■ Press to enter time and day setting mode. The current hour and the Step 1 Monday 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. Press again to change from hour setting to minute setting. The current Step 2 Monday minute will be flashing. ■ Press to change the Minute up or down to the current minute.



PROGRAMMING

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Programming Introduction

Studies conducted by the Department of Energy estimate that setting your thermostat back 10°F (6°C) for two 8-hour periods during winter can reduce your fuel bill by as much as 33%. By setting your thermostat up 5°F (3°C) 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 each day of the week.

You can program weekdays as a group, weekends as a group, all

PROGRAMMING



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Personal Program Schedule (continued)

Cooling

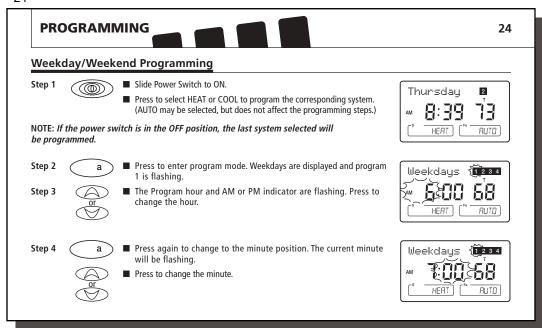
Day	Prog. 1		Prog. 2		Prog. 3		Prog. 4	
Mon.	Time	Temp	Time	Temp	Time	Temp	Time	Temp
Tues.	Time	Temp	Time	Temp	Time	Temp	Time	Temp
Wed.	Time	Temp	Time	Temp	Time	Temp	Time	Temp
Thurs.	Time	Temp	Time	Temp	Time	Temp	Time	Temp
Fri.	Time	Temp	Time	Temp	Time	Temp	Time	Temp
Sat.	Time	Temp	Time	Temp	Time	Temp	Time	Temp
Sun.	Time	Temp	Time	Temp	Time	Temp	Time	Temp

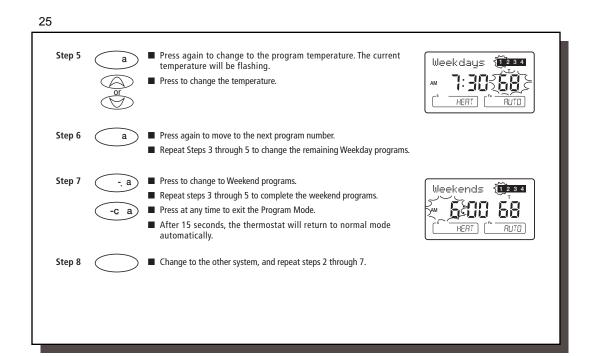
23

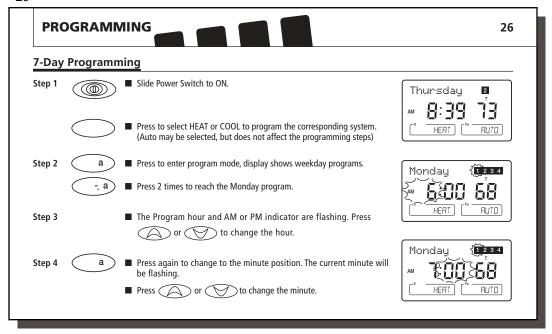
Programming

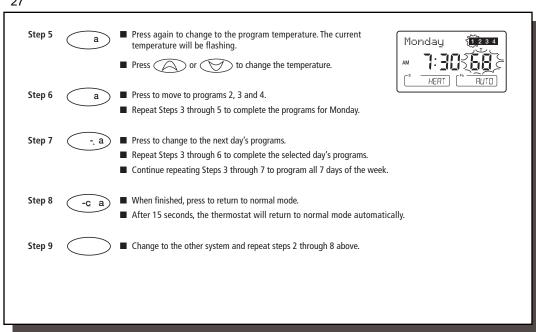
- Your thermostat can be programmed for weekdays and weekends, have unique programs for all 7 days, or the same program for everyday. Use Weekday/Weekend Programming on page 24, 7-day Programming on page 26, or Everyday Programming on page 28 to enter or revise programs to match your Personal Program Schedule.
- Familiarize yourself with Manual Programming, so that you can easily modify your 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, and remains the same for both Heat and Cool programs.
 - 2) The program temperature can be set in increments of 1°F (1°C).

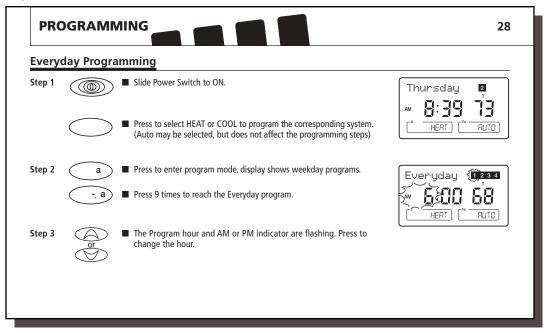
- 3) The Heat setpoint can not be set higher than the Cool setpoint, and the Cool setpoint can not be set lower than the Heat setpoint.
- If the system selector is in AUTO mode, the current operating mode will be used for programming.
- 5) After 15 seconds without a key press, the thermostat will return to normal display mode.
- 6) When setting the program time, note the AM / PM indicator.
- 7) With the Auto Recovery feature enabled, you do not need to set your comfort program times early. Auto Recovery will determine how early to turn your system on, so that the room is comfortable at the program time.

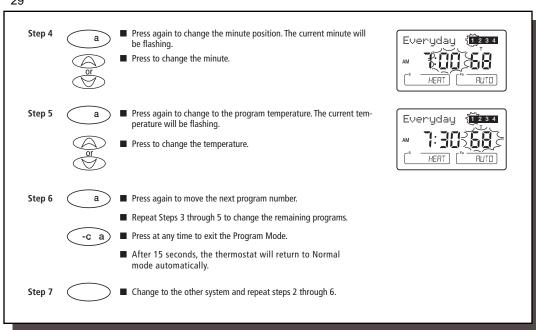


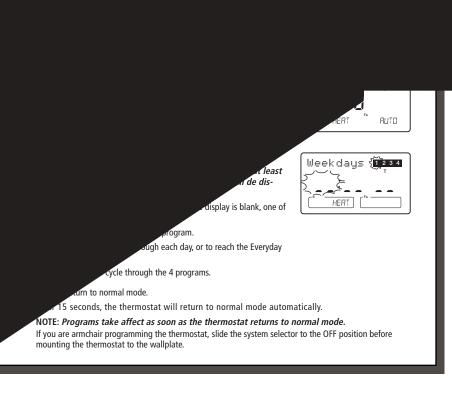




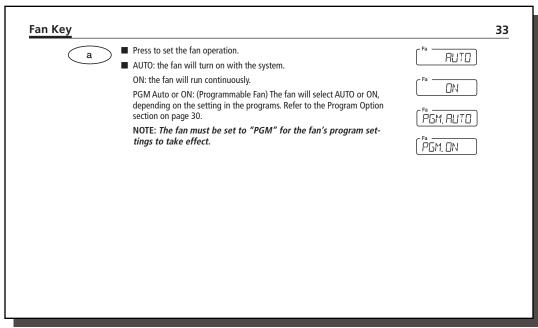








15. 11. 10. **OPERATION** 32 **Power Switch** The Power switch on the front of the thermostat determines the operating mode of the thermostat. You may select ON, OFF or Emergency Heat (EM). When the Power Switch is OFF, all outputs are positively disconnected from the system. NOTE: Anytime you install or remove the thermostat from the wallplate, slide the Power Switch to the OFF position to prevent the possibility of a rapid system On-Off. **System Selection Key** ■ Press to select the desired system. HERT ■ When Auto is selected, the system will change between Heat and Cool automatically. Refer to the Auto Season Changeover section on page 39. AUTO HERT NOTE: The default system selection at power-on or after a reset is HEAT. Therefore it is recommended that 2 AAA batteries be COOL used for backup during power outages. ÄUTO COOL



OPERATIONO	34

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OPERATION 13 11 11

38

Vacation (Programmable) Hold

This thermostat can hold a fixed temperature for a selected number of days (up to 30). After the selected number of days, the thermostat will return to normal program operation. This feature allows you to return home to your normal comfort setpoint temperatures.

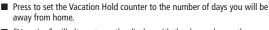


Press and hold for 2 seconds to enter Vacation Hold mode. The set temperature will be the current room temperature and the Vacation counter will be set to 1 day.





■ Use to set the Vacation Hold temperature.



 "Vacation" will alternate on the display with the day and any other messages.

To end Vacation Hold:



■ Press to return to the current program. The flashing Vacation display will be canceled.

NOTE: The Auto Season Changeover feature will not operate while the thermostat is in Vacation (Programmable) HOLD. Refer to the Auto Season changeover feature on page 39 for more information.

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Auto Season Changeover

39

When the System Selection is in AUTO position, the thermostat will automatically change between Heating and Cooling systems, depending on your program. We recommend keeping your programmed heating and cooling temperatures at least $5^{\circ} f (3^{\circ} C)$ apart to allow the Auto Season Changeover to occur when the appropriate temperature span has been reached. However, if your heating and cooling programs set temperatures are close, there is a built-in program to prevent the thermostat from changing unnecessarily.

Auto Season Changeover is disabled when the thermostat is in Temporary or Permanent Override, or Vacation Hold, as these overrides are energy saving settings. While in any of these modes, "AUTO" will be temporarily removed form the LCD dis-

play. "AUTO" will return when these holds are cleared. Auto Season Changeover will still function in Home Today mode, as this is a comfort setting.

For example, you may have the following temperatures programmed at a given time:

Heat Set Temp = 68°F Cool Set Temp = 78°F

If the room temperature rises above $78^{\circ}F$, then the thermostat will automatically change to cool mode and turn on the air conditioner.

Likewise, the thermostat will <u>automatically</u> change to heat mode and turn on heat when the room temperature falls below 68°F.

OPERATION 17 11

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Home Today

This Hunter patented feature allows you to quickly and temporarily override your energy saving program setting on days when you are normally away from home with one key press.



- Press to enter the Home Today override. The highest program temperature for today will be selected from your programs in Heat mode and become the set temperature. (In Cool mode, Home Today will select the lowest program temperature for today to be the set temperature.)
- "HOME" will alternate on the display with the day and any other messages.
- When pressed during the first or second program of the day, Home Today will automatically return to program control at the start of the fourth program of the day. If Home Today is pressed after the start of the third program time of the day, the thermostat will remain in Home Today mode until the first program of the next day.

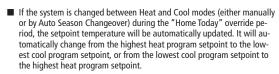


If Home Today is already active, you may similarly extend it to the first program of the next day by pressing the key again after the start time of the third program.



(continued)

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- Press to exit Home Today mode before the schedule ending time. "HOME" is no longer displayed on the LCD screen, and the thermostat returns to the current program.
- You can manually change the setpoint temperature while in Home Today mode. Refer to the Temporary Manual Override instructions on page 36. Manually changing the set temperature while in Home Today mode will not affect the Home Today ending time. However, the set temperature will not change automatically with a manual or Automatic change between heating and cooling.



■ You may also press the Home Today key while in Temporary Manual Override. The operation is the same as the previous point above.

OPERATION



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Energy Monitor

The Energy monitor feature measures and stores the amount of time the heating and air conditioning system operates. Usage can be displayed for Today (since 12AM), Yesterday, This Month (up to 30 days), Last Month (last 30 days), and Total (up to 999

minutes.

Hrs. 59 Min.). By monitoring your energy usage, you see how much the setback periods are saving and you can test program adjustment to save even more. Use tables on pages 21-22.



- To review energy usage, press to cycle through Today, Yesterday, [number] Days, Last 30 days, and Total. Press again to return to normal mode, or wait 15 seconds for the display to return to normal mode. You can also return to normal mode at any time by pressing RET CLEAR.
- For example: This LCD display shows Today's usage to be 10 Hours, 26



■ Press and hold for 3 seconds to reset the Energy Monitor's counters while in Energy Monitor mode. The display will blink, and all counters will be cleared to zero.

Today

10.25_M

43

Filter Monitor

43

Your thermostat also keeps a record of the number of hours your filter has been in use. To maximize your system's performance and energy efficiency, change or clean your filter regularly.

> ■ When the total system run time for heat and cool reaches 500 hours, "FILTER" will alternate on the display with the day to remind you to clean or change your system's filter. "FILTER" will continue to display until the counter is set back to zero.



■ Press to review total filter usage. After 15 seconds, the display will return to normal mode, or you can hit RET CLEAR to exit immediately. The Filter Monitor will display up to 999 hours and 59 minutes of usage.

In this example, the counter is at 410 Hours, 26 minutes.



-c a ■ To reset the Filter Monitor counter, hold for 3 seconds. The display will blink, and the counter will be reset to zero.





OPERATION 12 11

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SPAN Settings

STAGE 1

Your thermostat is set at the factory to cycle at $1^{\circ}F$ (0.5°C) above and below the set temperature in Stage 1. (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. Refer to the Option Menu Stage 1 Span selection on page 17.

Span = 1. This decreases the cycle time by causing your system to run shorter.

Span = 3. This increases the cycle time by causing your system to run longer.

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 the thermostat is powered on or the Reset key is pressed, the Span is reset back to setting 2.

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Auto Recovery

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Hunter's Auto Recovery feature meets the ENERGY STAR® guidelines for energy efficiency by allowing the heating or cooling system to recover gradually from an energy-saving setpoint temperature to a comfort setpoint temperature.

Auto Recovery calculates how early to turn your system back On, so that the room temperature is already comfortable by the start of the comfort temperature program period. Auto Recovery works in both Heat and Cool modes.

For example, in Heat mode, you could have the following programs:

Program #4 (Overnight) Set Temp = 60°F Time = 10PM Program #1 (Morning) Set Temp = 68°F Time = 6AM

The room temperature fell to 60°F overnight. Rather than having the thermostat turning on at 6AM, Auto Recovery would note the temperature difference between 60°F and 68°F and turn the Heat on approximately 30 minutes early. Therefore, the room temperature at 6AM would be about 68°F instead of 60°F.

■ When the thermostat is in Auto Recovery mode, the display will alternate "RECOVERY" with the day, and the program indicator will flash.



Details of Auto Recovery Operation:

- Auto Recovery can be disabled by selecting "NO" in the Option Menu. Refer to page 17.
- Auto Recovery will not operate if Permanent hold, Vacation hold Temporary hold or Home Today is in operation. It will also not operate if the thermostat resets due to AC power loss with no backup batteries.
- Auto Recovery can be canceled manually if RET CLEAR is pressed during the recovery process. If a recovery process is canceled manually then the recovery process will not start again until the next program period starts (an exception is that if time or program is changed then the thermostat will check Auto Recovery conditions immediately).

OPERATION 12 11 11

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Auto Recovery (continued)

- Auto Recovery will be canceled if HOME TODAY or HOLD is pressed during the recovery process. The thermostat will enter Home Today, Permanent hold or Vacation hold.
- Auto Recovery will be canceled and change to Temporary Manual Override mode if the setpoint is adjusted during the recovery process.
- If the system changes between heat and cool (automatically or manually) then the thermostat will recalculate Auto Recovery again. Setpoint temperature will be changed to the opposite system's comfort temperature if the recovery entry criteria are still met. Otherwise, the recovery process will be canceled and return to program control mode.

Keyboard Lock

The Keyboard can be locked to prevent unauthorized changes to the thermostat.



■ To lock or unlock the keyboard, press and hold BOTH keys for 3 seconds. The keyboard is locked when KEY LOCK appears on the display.



All keys are locked, but any time a key is pressed, KEY LOCK will appear on the display for 1 second and the backlight will operate.

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Backlighting (INDIGLO® Night-Light)

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

When any key is pressed the display is illuminated.

The display will remain illuminated for 15 seconds after the last key is pressed. This allows the light to stay on if you need to op-

erate several keys. The backlight will decrease in brightness before shutting off.

NOTE: The backlight is powered by the 24V AC supply. It will not operate when there is an AC power interruption or if the thermostat is removed from the wallplate.

SAFETY FEATURES

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AC Power Monitor

- This thermostat operates on 24V AC, which is provided by your system's transformer. If the system loses electricity, then the 24V AC power is lost also.
- \blacksquare The 2 AAA batteries provide backup operation of the clock, as well as all programs and settings.
- \blacksquare If the AC power is lost, then the LCD display will alternate "No AC Pwr" with the day.
- Without AC power, the following functions are disabled:
 - The system is turned off.
 - The Backlight function is disabled.
 - The remote sensor temperature readings are not available.



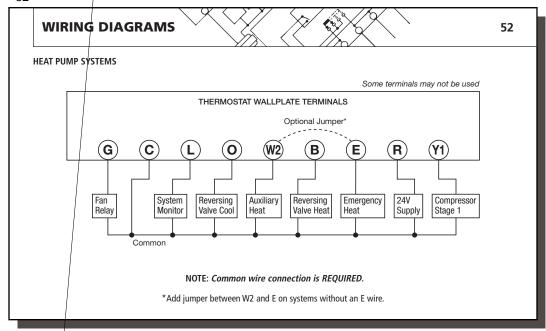
Low Battery Warning

Your thermostat has a low battery warning system. When the batteries are detected to be weak, the low battery warning is



TROUBLESHOOTING		50
Problem	Solution	
SCRAMBLED OR DOUBLE DISPLAY (numbers over numbers)	1. Remove clear Mylar sticker	
NO DISPLAY	Check terminal connection. A common (C) wire is required for operation.	
	2. Check battery connections and batteries.	
	3. Press RESET button with a small pin and hold in for two seconds.	
ENTIRE DISPLAY DIMS	1. Replace Batteries	
	2. Adjust LCD contrast in the Option Menu.	
PROGRAM DOES NOT CHANGE	Check that the time is set properly to "AM" or "PM".	
AT YOUR DESIRED SETTING	2. Check that the thermostat is not in "HOLD" or "Home Today" modes.	
	3. Check for the correct day setting.	
	4. Check any remote sensor readings or weights.	
AUTO / FAN DOES NOT TURN ON	1. Move HG/HE selector to opposite position	
FAN RUNS CONTINUOUSLY	1. Check fan setting. It may be "ON" or in Programmable Fan mode "PGMON	" .

Problem (cont.)	Solution (cont.) 5
HEATING OR COOLING DOES NOT GO ON OR OFF	 Check that the system selector key is in the correct position ("HEAT," "COOL or "AUTO").
	The thermostat may be in the AUTO mode. Look for "AUTO" on the LCD display. If the Heat and Cool program temperatures are close, then the thermostat re quires a larger room temperature change before changing from Heat or Cool.
	There may be as much as a 4 minute delay before the Heat or Cool system turn On - wait and check. (Compressor protection delay.)
	4. Check your circuit breakers and switches to ensure there is power to the system
	5. Replace batteries.
	Make sure your furnace blower door is closed properly.
	7. Check the position of the Heat Pump or Multi-Stage selector switch.
ERRATIC DISPLAY	Press the RESET button once with a small pin and hold for two seconds. The thermostat will need to be re-programmed.
IF UNIT CONTINUES TO OPERATE IN THE OFF POSITION	1. Replace unit.
THERMOSTAT PERMANENTLY READS "HI," "LO," OR "Error" AFTER PRESSING RESET BUTTON	1. Replace unit.





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Hunter Fan Company 2500 FRISCO AVENUE	
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