Your new Honeywell Chronotherm III Fuel Saver Thermostat is a precision instrument that's quality-built to give you many years of satisfactory service. Each day of the week can be programmed independently so that, regardless of your schedule, you'll save fuel while automatically maintaining the standard of comfort you require.

This User's Guide will show you how to get the most benefit from your new thermostat.



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STEP 1 ENTER THE DAY AND TIME

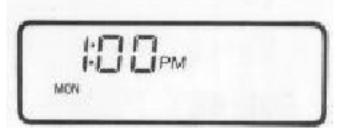
You can program this thermostai either on the wall or in your hand. SEE PAGE 27 TO FIND OUT HOW TO REMOVE THE THERMOSTAT FROM THE WALL

Always press the keys with your fingertip or similar blunt tool. Sharp instruments like a pen or pencil point can damage the keyboard.

NOTE: Check the glossary, page 31, for definitions of unfamiliar words.



Press and release. The display shows 1:00 PM Mon.



DAY

Press and hold until the current day appears in the display.

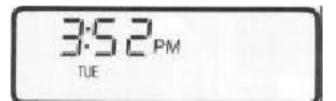


TIME



BA.CK

Press and hold until the current time appears in the display. Be sure AM or PM appears as desired.



You have set the current day and time. Go on to Step 2.

STEP 2 SET THE PROGRAM TIMES AND TEMPERATURES FOR ONE DAY

Before You Begin. . .

The schedule form on page 33 provides an opportunity to plan your daily program.

Now. . .

Choose a day to program first. We'll use Monday in the examples, but you can start with any day. Start by programming the MORNING time and temperatures. The thermostat requires a MORNING program every day. You can set additional programs as desired.



Press and release. Note that the display shows MORNING and the preprogrammed time and temperature.



If the display reads COOL, press and release to switch to HEAT.

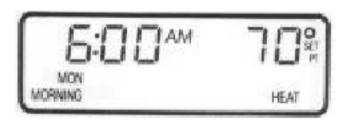


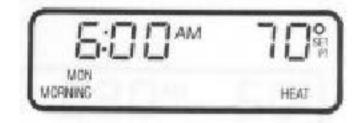
Press and hold until MONDAY (or the desired day) appears in the display.

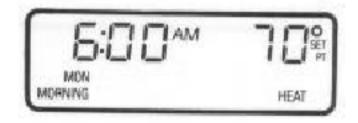




Press and hold until the display shows the time you want the temperature at the comfort setting.











Press and hold until the display shows the desired heating temperature.



If the display flashes while you are holding down TEMPERA-TURE WARMER or COOLER, you have reached the setting limit. If your thermostat can switch automatically between heating and cooling, the heating temperature must be at least 3 degrees below the air conditioning temperature. For example, if the cooling setting is 75° F, the maximum heating setting is 72" F. To set a higher heating temperature, you must first raise the cooling setting.

3

Program the MIDDAY time and heating temperature if desired.

NOTE: You can *cancel* any period showing on the display except MORNING by pushing the the CANCEL **PERIOD** key. To move to the next period while programming, simply press the PERIOD key again.



Press and release. The display shows MIDDAY, but no time or temperature.





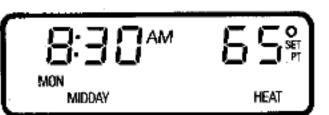


Press and hold until the display shows the time you want room temperature to start drifting toward the energy saving setting.





Press and hold until the display shows the desired temperature.





Program the EVENING time and temperature, if desired.



Press and release. The display shows EVENING, but no time or temperature.





Press and hold until the display shows the time you want the temperature to be at the comfort setting.





Press and hold until the display shows the desired heating temperature.

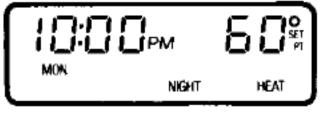


5

Program the NIGHT time and temperature, if desired.



Press and release. The display shows NIGHT and the preprogrammed time and temperature.







Press and hold until the display shows the time you want the temperature to start drifting toward the energy saving setting.





Press and hold until the display shows the desired heating temperature.

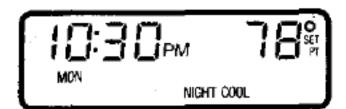




Set the cooling temperatures for all the periods you've programmed.



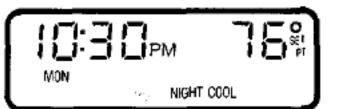
Press and release. The display shows COOL, the preprogrammed cooling temperature and the programmed start time for NIGHT.



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Press and hold until the display shows the desired cooling temperature for NIGHT.



If the display blinks while you are holding down TEMPERATURE WARMER or COOLER, you have reached the setting limit. If your thermostat can switch automatically between heating and cooling, the heating temperature must be at least 3 degrees below the air conditioning temperature. For example, if the heating setting is 72° F, the minimum cooling setting is 75° F. To set the cooling temperature lower, you must first lower the heating setting.



Press and release. The display shows the preprogrammed cooling temperature and the programmed start time for MORNING.



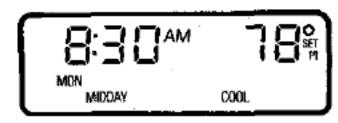


Press and hold until the display shows the desired cooling temperature for MORNING.





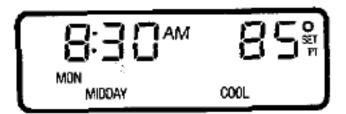
Press and release. The display shows the preprogrammed cooling temperature and the programmed start time for MIDDAY.





cooler

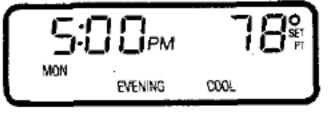
Press and hold until the display shows the desired cooling temperature for MIDDAY.



Q

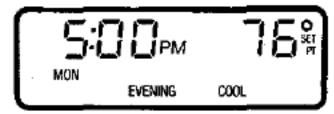


Press and release. The display shows the preprogrammed cooling temperature and the programmed start time for EVENING.





Press and hold until the display shows the desired cooling temperature for EVENING.

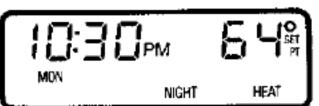


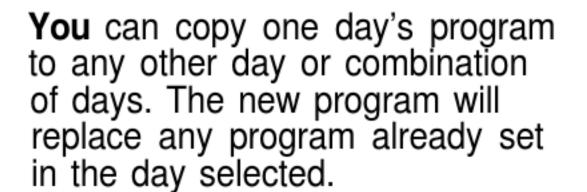
You have completed setting the program schedule for one day. Go to Step 3 to copy this program to additional days.

STEP 3 **COPY THE PROGRAM TO THE** DESIRED DAYS

PERIOD

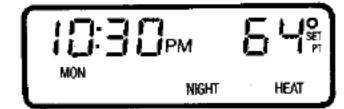
If necessary, press and release to enter the programming mode.







Press and hold until the day containing the program to be copied shows in the display.



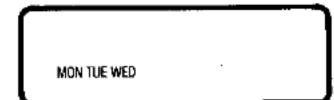


Press and release. The day to be copied will show, and the next day will flash, in the display.





Press and release if you wish to copy the program into the day that's flashing in the display. Note that the next day now starts to flash.





Press and release if you don't wish to copy into the day that's flashing. Note that the next day now starts to flash.



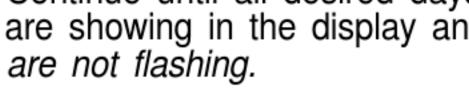
11

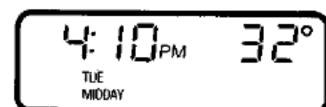


Press and release the COPY TO key again to select the day that's flashing, or the DAY key to bypass it.



Continue until all desired days are showing in the display and are not flashing.







Press and release to copy the program into all the days you have selected.

NOTE: The display will show 32" F instead of the current temperature until the thermostat is mounted on the subbase and the system is powered.

STEP 4 SET THE SCHEDULES AND TEMPERATURES FOR THE REMAINING DAYS

Use the procedures described in Steps 2 and 3 and summarized in this step to program the remaining days.

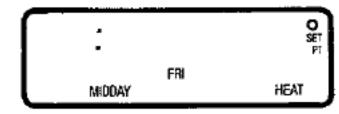


Press and release to enter the programming mode.





Press and hold until the day you wish to program shows on the display.





If COOL shows on the display, press and release to switch to HEAT.







Use the AHEAD/BACK keys to set the time and the WARMER/COOLER keys to set the heating temperature.





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Press and release the PERIOD key to step through the remaining time periods. Use the AHEAD/BACK keys to set the time and the WARMER/COOLER keys to set the heating temperature for each time period.











Press and release so COOL shows on the display.





Press and release the PERIOD key to step through the time periods, and use the WARMER/COOLER keys to set the cooling temperature for each period.





You have completed the time and temperature program for another day. Now you can copy it into additional days if you wish.



Press and release to enter the copy mode. The next day flashes on the display.





Press and release the Copy To key to select the day that's flashing, or the Day key to bypass it.

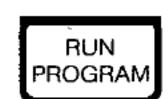




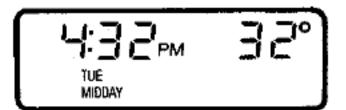
Continue, using the Copy To key to bring up the next day, followed by Copy To to select, or Day to bypass the day, until all desired days are selected.







Press and release to complete the copy.



Repeat Step 4 as needed until all days are programmed.

NOTE: The display will show 32" F until the thermostat is mounted on the subbase and the system is powered.

STEP 5 SET THE SYSTEM AND FAN SWITCHES ON THE SUBBASE.

Depending on thermostat model, some of the switch positions shown may not be available to you. Note the positions provided on your subbase, then set the switch(es) as desired.

First set the fan switch.

Then set the system switch.

FAN ON: The fan runs continuously. Use for improved air circulation during special occasions or for more efficient electronic air cleaning.

FAN AUTO: Normal setting for most homes and businesses. The fan goes on and off with the air conditioner in summer. In winter, the fan on most systems starts a few minutes after the furnace comes on. It stops a few minutes after the furnace goes off. The fan starts and stops with the furnace in some electric heat systems and with the compressor in heat pump systems.

HEAT: The thermostat controls your heating system.







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AUTO: The thermostat controls either your heating or air conditioning system, depending on room temperature.

COOL: The thermostat controls your air conditioning system.

OFF: Both the heating and cooling systems are off.

EM.HT. (heat pump thermostats only): The thermostat controls only the backup heat. The heat pump is off.

You have finished programming your thermostat.

If you removed it from the wall to program, replace it following the procedure on page 28.



HEAT AUTO COOL OFF



HEAT AUTO COOL OFF



HEAT AUTO COOL OFF



EM. HT. HEAT OFF AUTO COOL

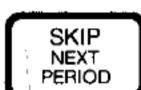
Now, while you enjoy precision temperature control, read on to learn about the operating flexibility that makes this thermostat THE SMART CHOICE.

TEMPORARILY CHANGING THE PROGRAM

These features let you custom-tailor the program for those times when someone comes home early, or you or a colleague is working late, or you plan to be out for the evening.

Changes made with these keys are active for one program period and then are cancelled.

To keep the current temperature through the next program period:



Press and release. The name of the period to be skipped will flash in the display until the start time of the skipped period. During the skipped period the display will flash "temporary" to show that the programmed temperature for this period is not being used.



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To go back to the temperature of the previous program period:



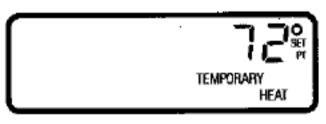
Press and release. The display will show the name of the previous period and flash "temporary" until the next regularly scheduled period starts.



To temporarily raise or lower the temperature for the current period only:



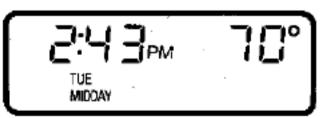
Press and hold until the desired temperature is reached. The display will flash "temporary" until the next programmed time period starts.



If you change your mind:



Press and release to cancel any of the temporary settings.



PERMANENTLY CHANGING THE PROGRAM

If your schedule changes or you want a different temperature, you can update any setting without affecting the rest of the program.



Press and hold until the desired time period shows on the display.



Press and hold until the desired schedule day shows on the display.





Press and hold the Time or Temperature keys until the display shows the desired new program.





You can copy the new program into other days if you wish. When you copy a program, all the times and temperatures for that day are copied.



Press and release. The next day will flash on the display. Press Copy To to copy into, or Day to. bypass, the day. Continue until the program has been copied into all desired days.







Press and release to return to normal operation.

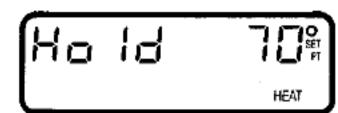
21

OPERATING THE THERMOSTAT MANUALLY

This feature is particularly useful when you go on vacation or other extended absence. It does not cancel your program.



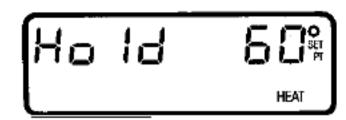
Press and release.







Press and hold to change the temperature setting. After a few seconds the display will show the current temperature.



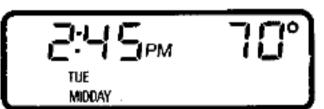


Press and release to check the temperature setting.





Press and release to cancel manual control.



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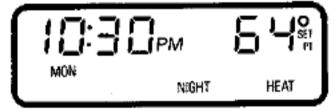
CANCELING PROGRAM SETTINGS

The thermostat requires time and temperature settings in the MORNING time period for each day, but any of the others can be canceled. Each time period for each day must be canceled separately.

7.

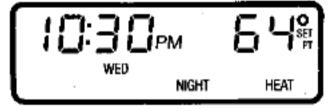


Press and hold until the desired time period shows on the display.



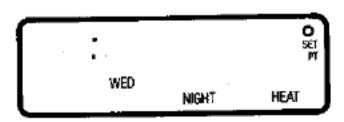


Press and hold until the desired day shows on the display.





Press and release to cancel the time and temperature settings for that time period. Both the heating and cooling temperatures will be canceled.



You can use the copy function to cancel the program from other days, but remember: **all** the programs will be copied, not just the cancellation.



Press and release to return to normal operation.



CHECKING THE PROGRAM TIMES AND TEMPERATURES

You can check all the stored

settings without affecting the

permanent program.

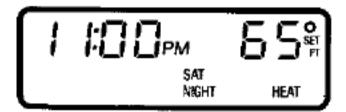


Press and hold until the desired period shows on the display. The start time and temperature setting will appear on the display.



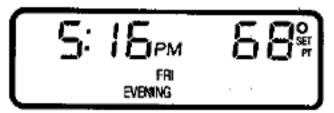


Press and release to display the next day's time and temperature for that period.





Press and release to return to normal operation.



CHECKING THE CURRENT TEMPERATURE SETTING

Press a single key to compare

actual room temperature to the

setting at any time.



Press and release. The display will show the current temperature setting for several seconds, then revert to the room temperature.

During recovery from energy savings, the setting displayed will not match the programmed setting. This is because the thermostat gradually changes the temperature setting during recovery to provide maximum comfort combined with most efficient

use of the heating or cooling

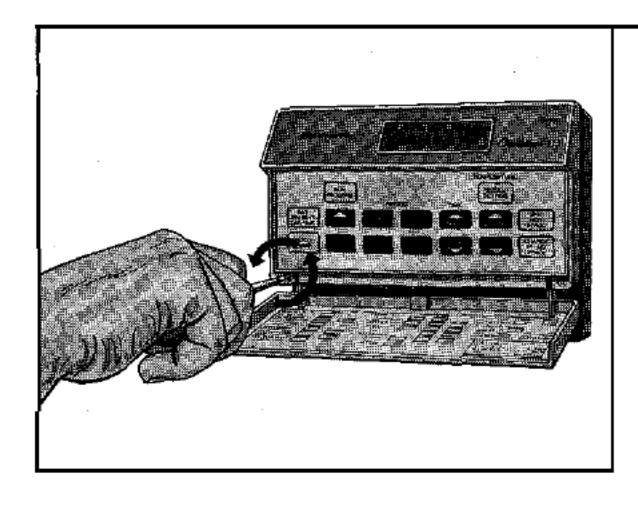
equipment

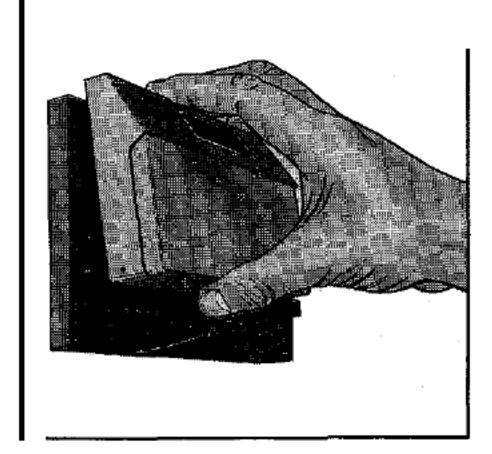
58° HEAT

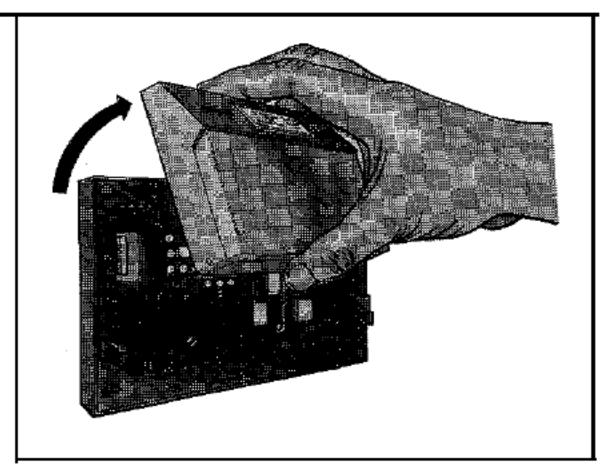
MAINTAINING YOUR THERMOSTAT

REMOVING THE THERMOSTAT

- 1 Loosen the two captive screws at the bottom corners of the case.
 2 Pull the thermostat out from the bottom.
- 3 Lift the thermostat up and off the base.



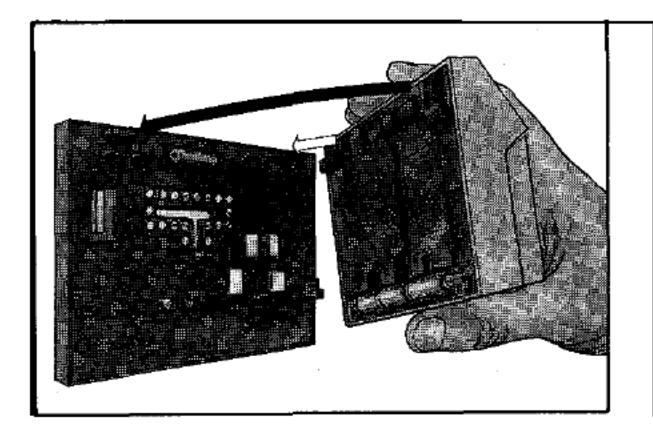


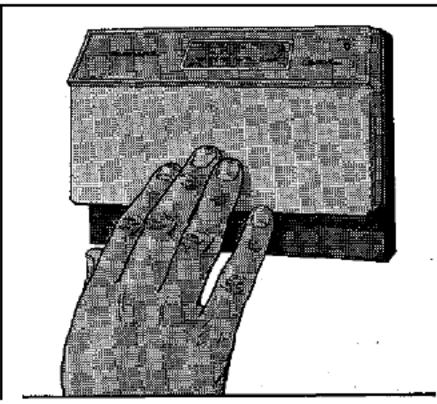


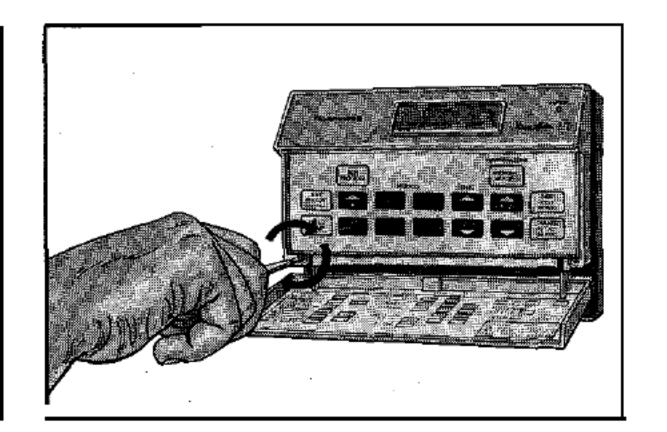
27

REPLACING THE THERMOSTAT

- 1 Hang the thermostat on the tabs at the top of the base.
- 2 Swing down and press on lower edge until thermostat snaps in place.
- 3 Tighten the captive screws.







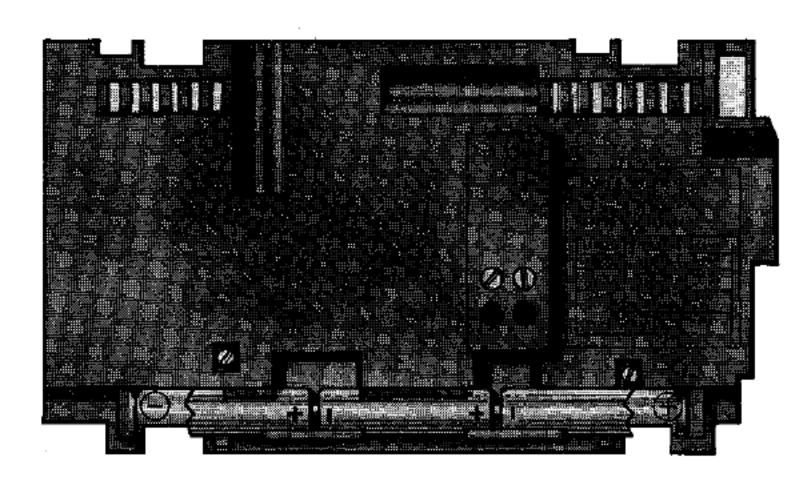
MAINTAINING YOUR THERMOSTAT

REPLACING THE BATTERIES

Your thermostat uses three AAA alkaline batteries. The display will flash "REPL BAT" when the batteries get low. Unless the display is blank (indicating the batteries are dead) when you start, you won't have to reprogram the thermostat if you can insert the new batteries within 20-30 seconds of taking out the old ones.

To replace:

- Set the system switch to OFF.
- Remove the thermostat from the wall. See page 27.
- Lift the batteries out of the holder.
- Insert the new batteries, making sure the positive (+) terminals all face toward the right.
- Replace the thermostat on the wall. See page 28.
- Reprogram, if necessary.



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POWER OUTAGES

Reasonably fresh backup batteries will hold the programming and keep the display on during most power outages. Once the power is restored, the system will resume normal operation.

If the display goes off when power is lost, either the backup batteries need to be replaced or are not installed. When power is restored, the display will flash 1:00 PM to remind you to reprogram.

GLOSSARY

AUX HT light (heat pump models only)

This light glows whenever the thermostat is calling for operation of the backup heater. Backup (auxiliary) heat is more expensive to operate than the heat pump and typically is used only when the heat pump is unable to handle the load.

CHECK light (heat pump models only)

Consult your heat pump equipment literature to determine whether this light is used and its meaning.

Comfort temperature
The temperature you want when you're active and occupying the building.

EM HT light (heat pump models only)

This light glows whenever the thermostat system switch is in the EM HT position.

Energy-saving temperature
The lower (heating) or higher
(cooling) temperature that lets
you save on heating and cooling
costs when you're asleep or
away. Also called the setback
(heating) or setup (cooling)
temperature.

Preprogrammed schedule This is the schedule programmed into your thermostat at the factory. It sets a night program that provides energy savings if you don't set your own program, or if your personal pro-

gram is lost for any reason. The program, which is the same for all days of the week, is:

Ştart	Temperature	
Period Time MORNING 6:00 AM	Heating Cooling	
MORNING 6:00 AM	70°F 78°F	
MIDDAY No	program	
EVENING No	program	
NIGHT 10:00 PM	60°F 78°F	

Program

The times and temperatures you set to define the comfort and energy savings periods for each day's schedule.

Recovery

The time when the thermostat operates the heating or air conditioning equipment to return the house from the energy savings temperature to the comfort

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temperature. The thermostat starts the recovery period early so the house will be at the comfort setting by the time you've chosen.

Setback

Reducing the temperature in the house for a set period every day in winter for energy savings. The lower temperature is the energy savings temperature.

Setup

Raising the temperature in the house for a set period every day in summer for energy savings. The higher temperature is the energy savings temperature.

Set point

The thermostat temperature setting you select. The thermostat turns the heating or cooling equipment on and off to maintain this temperature at the thermo-

stat location until another temperature setting (set point) goes into effect.

SYSTEM light

This light glows whenever the thermostat is calling for heating or air conditioning.

Time period

One of four program periods: MORNING, MIDDAY, EVENING, and NIGHT; available with the Chronotherm III thermostat. One period begins when the previous program period ends.

MORNING-The time period when you bring the building to a comfortable temperature to begin the day. This is the only period that must contain a time and temperature for every day.

MIDDAY-The time period when you can set back (win-

ter) or up (summer) the temperature for daytime energy savings if the building is unoccupied.

EVENING-The time period when you want the building at a comfortable temperature for evening activities after daytime energy savings.

NIGHT-The time period when you can set back (winter) or up (summer) the temperature for energy savings because family members are asleep or the building is unoccupied. Often a NIGHT energy savings temperature is set only for the heating season so family members can sleep cool in summer.

YOUR DAILY PROGRAM

You can use the table below to plan your schedule before you begin programming. If you choose not to program a daytime energy savings program, leave the MIDDAY and EVENING periods blank.

After you have written in your schedule, mark the days that have identical programs.

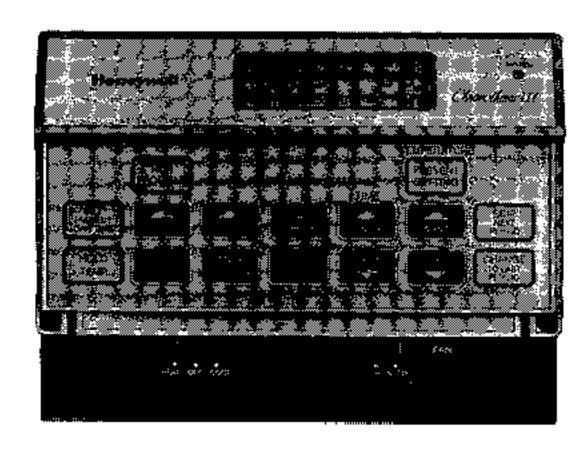
		TIME PERIOD			
DAY	PROGRAM	MORNING	MIDDAY	EVENING	NIGHT
SUN	Period Start Time				
	Heating Temperature				•••
	Cooling Temperature				
MON	Period Start Time				
	Heating Temperature				
	Cooling Temperature	e			
TUE	Period Start Time				
	Heating Temperature				
	Cooling Temperature				

Period Start Time Heating Temperature WED Cooling Temperature Period Start Time Heating Temperature THU Cooling Temperature Period Start Time Heating Temperature FRI Cooling Temperature Period Start Time Heating Temperature SAT Cooling Temperature

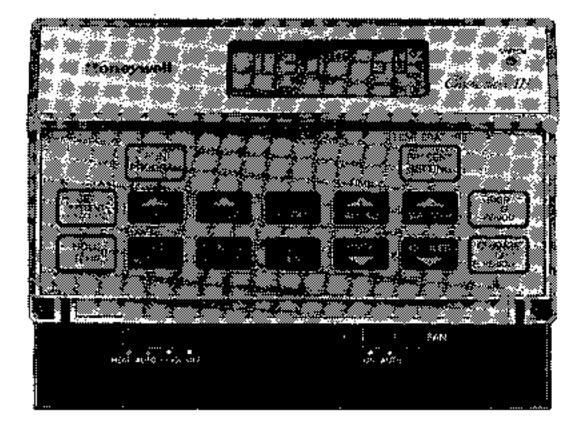
MODEL IDENTIFICATION GUIDE

THERMOSTATS FOR GAS, OIL, OR ELECTRIC HEAT SYSTEMS

These thermostats vary in the switching configurations they provide.

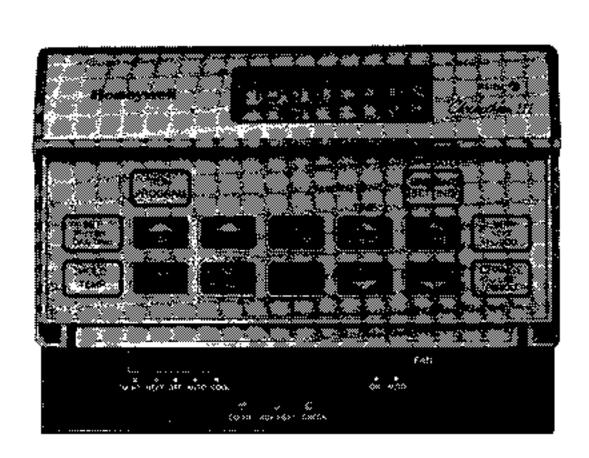


HEAT-OFF-COOL



HEAT-AUTO-COOL-OFF

THERMOSTAT FOR HEAT PUMP SYSTEMS



EM HT-HT-OFF-AUTO-COOL

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TROUBLESHOOTING GUIDE

IF. . .

Display will not come on.

THEN. . .

- Check that heat or cool system power is on. If you use batteries, replace with fresh ones.
- Make sure thermostat is correctly mounted on base.

Display flashes during programming.

You have reached the temperature setting limit The setting range is 45°F to 88°F. In models with automatic heat-cool changeover, the COOL temperature setting must be at least 3°F above the HEAT temperature setting.

Display flashes during operation.

Program is lost due to power outage.

Temperature change occurs at the wrong times.

- . Programming has been lost because of a power outage. You must reprogram.
- . Check that backup batteries are installed correctly. Replace if necessary. Reprogram the thermostat
- . Check the program times for the period in question. Be sure that AM and PM indications are correct Make sure the current day and time are correct Reprogram if necessary.
- . Remember that the heating equipmentorair conditioner comeson before the MORNING and EVENING start times so the house will be at the desired temperature when the period starts.

Heating will not come on.

- Checkthefuseorcircuitbreakerand replace or reset if necessary.
- Check that switch on thermostat is set to HEAT or AUTO.

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- Heatpumpthermostatshaveabuilt-in timedelay which may add to time delays in the heating equipment. Allow up to 10 minutes after changing the setting before the compressor starts.
- . If temperature setting is higher than current temperature, and display says HEAT ON or SYSTEM light is on, contactyourheating and air conditioning contractor.

Cooling will not come on.

- . Check the fuse or circuit breaker and replaceor reset if necessary.
- . Check that switch on thermostat is set to COOL or AUTO.
- . The thermostat has a built-in time delay, which may add to time delays in the cooling equipment Allow up to 10 minutes after changing the setting before the air conditioner starts.
- If temperature setting is lower than current temperature, and display says COOL ON or SYSTEM light is on, contactyourheating and air conditioning contractor.
- Press PRESENT SETTING to check the current temperature setting.
- . If desired, change the time or temperature setting. See page 21.
- . Allow time for the heating equipment to heat up and the fan to come on before checking for heat at the register.
- . Install fresh alkaline batteries.

The building is too warm or too cool.

Display says HEAT ON or system light is on, but no heat is coming from the registers.

Display flashes REPL BAT or goes blank when power is turned off.

QUICK REFERENCE TO THE KEYS

Press these keys to:



Begin the current day or time programming



Set the day of the week, select the program day during programming, and bypass a day while copying.



Select the time period to program, review or cancel



Cancel the day and time period shown on the display, (except MORNING) as well as both the heating and cooling temperatures.



Switch between heat and cool modes during programming or when reviewing the program.





Set the time ahead and back. Hold either key down to change the setting faster.





Set the temperature while programming and temporarily change the temperature during operation. Hold either key down to change the setting faster.

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Select one day's program to copy to another day



Select a day to copy a program to



Hold any temperature you desire for an extended period.



Change the temperature to the set point of the previous period.



Maintain the current temperature through the next program period.



Start your programmed schedule, cancel temporary program changes, and cancel Hold Temp.



See the current temperature setting. Setting may not match programmed setting during recovery from energy savings.

Slinking display	Heating temperatures	Present setting 26 Program schedule 2.33 Programming overview. * Programming steps 1 Quick reference to the keys .39 Removing thermostat 27
Cooling temperatures	Maintenance	Replacing batteries 29 Setback 31 Set cooling
Display., *,1 Energy-saving temperature	Morning	temperatures 7 Set current day 1 Set current time 1 Set fan switch
Fan switch	Period, Time	Set heating temperatures 2 Set program schedule 2 Set system switch 17
Setting limits 3,8 Setup 32 Skip 19 Switch, fan 17 Switch, system 17	System light	Time

^{*}See the product features inside the front cover.

LIMITED ONE-YEAR WARRANTY

Honeywell warrants this product, excluding battery, to be free from defects in the workmanship or materials, under normal use and service, for a period of one (1) year from the date of purchase by the consumer. If, at any time during the warranty period, the product is defective or malfunctions, Honeywell shall repair or replace it (at Honeywell's option) within a reasonable period of time.

If the product is defective,

- (i) return it with a bill of sale or other dated proof of purchase, to the dealer or contractor from which you purchased it, or
- (ii) package it carefully, along with proof of purchase (including date of purchase) and a short description of the maifunction, and mail it, postage prepaid, to the following address:

Honeywell Inc. Return Goods Department

1050 Berkshire Lane Plymouth, MN 55441-4437

This warranty does not cover removal or reinstallation costs. This warranty shall not apply if it is shown by Honeywell that the defect or malfunction was caused by damage which occurred while the product was in the possession of a consumer.

Honeywell's sole responsibility shall be to repair or replace the product within the terms stated above. HONEYWELL SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND, INCLUDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY, FROM ANY BREACH OF ANY WARRANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation may not apply to you.

THIS WARRANTY IS THE ONLY EXPRESS WARRANTY HONEYWELL MAKES ON THIS PRODUCT. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS HEREBY LIMITED TO THE ONE YEAR DURATION OF THIS WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

If you have any questions concerning this warranty, please write our Consumer Affairs Department, Honeywell Inc., 1885 Douglas Drive North, Golden Valley, MN 55422-4386 or call toll-free at 1-800-468-1502.

Together, we can find the answers.

Honeywell