

How to operate your new Honeywell Chronotherm III

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

Your new Honeywell Chronotherm III comes to you preprogrammed (see preprogrammed schedule, page 31). If this program does not meet your specific needs, it's an easy matter to "custom" program the thermostat to individual requirements. Turn this page for instructions.



Features



Check system light to see if heating or cooling is on, even in the dark.

Set the temperature warmer or cooler at the touch of a key.

Bypass the stored program for a single period.

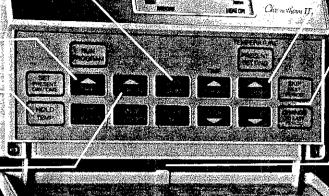
Choose system and fan operating modes with the thermostat switches (on subbase).

Set different programs for each day of the week, if desired.

another.

Choose manual or automatic—thermostat operation.

Program up to four different time periods, each with its own heating and cooling temperatures, for each day.



Simple Five-Step Custom Programming

- 1 Enter the day and time. See page 1.
- 2 Set the program times and temperatures for one day. See page 2.
- 3 Copy this program to the desired days. See page II.
- 4 Set the program times and temperatures for the remaining days. See page 13.
- 5 Set the system and fan switches. See page 17.

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Set the program times and temperatures	Replacing the thermostat		
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STEP 1

ENTER THE DAY AND TIME

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

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.



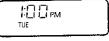
Press and release. The display shows 1:00 PM Mon.



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



TIME



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 displays shows MORNING and the preprogrammed time and temperature.



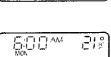
If the display reads COOL, press and release to switch to HEAT.

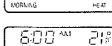


Press and hold until MONDAY (or the desired day) appears in the display.



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





MORNING

5:00 AM





1

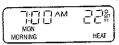
HEAT

HEAT

EKOGRAMMING YOUR ALERMONAN



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





If the display flashes 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 2°C below the air conditioning temperature. For example, if the cooling setting is 24°C, the maximum heating setting is 22°C. 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 CANCEL PERIOD key. To move to the next period while programming, simply press the PERIOD key again.



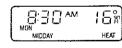
Press and release. The display shows MIDDAY, but no time or temperature.







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.

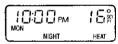


5

Program the NIGHT time and temperature, if desired,



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



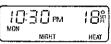


Press and hold until the display shows the time you want the temperature to start drifting toward the energy saving setting.





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



PROGRAMMING YOUR THERMOSTAT

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.





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



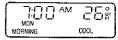
If the display blinks while you are holding down TEMPERATURE WARMER or COOLER, you have reached the setting limit. If your thermostat can switch automatically between heating and cooling, the heating temperature must be at least 2°C below the air conditioning temperature. For example, if the heating setting is 22°C, the minimum cooling setting is 24°C. To set the cooling temperature lower, you must first lower the heating setting.

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PROJERAMIMING YOUR THERMOSTAT

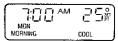


Press and release. The display shows the preprogrammed cooling temperature and the programmed start time for MORNING.





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.





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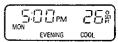
Press and hold until the display shows the desired cooling temperature for MIDDAY.



9



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.

PROGRAMMING YOUR THERMOSTAL

STEP 3 COPY THE PROGRAM TO THE DESIRED DAYS

You can copy one day's program to any other day or combination of days. The new program will replace any program already set in the day selected.



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

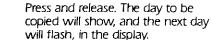


Press and hold until the day containing the program to be copied shows in the display.



shows in the display.

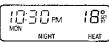
Press and release. The day to be

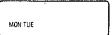




Press and release if you wish to copy the program into the day that's flashing in the display. Note that the next day now starts to flash.









MON

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.



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

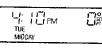


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Continue until all desired days are showing in the display and are not flashing.



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



NOTE: The display will show 0°C instead of the current temperature until the thermostat is mounted on the subbase and the system is powered.

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PROCEPAMINING YOUR THERMOSTATE

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.



8:30 AM 1日論 HEAT

SEI PI



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.







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.



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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.

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

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.



FAN



FAN

HEAT AUTO COOL OFF

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

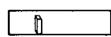
COOL: The thermostat controls your air conditioning system.

OFF: Both the heating and cooling systems are off.

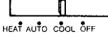
EM.HT. (heat pump thermostats only): The thermostat controls only the backup heat. The heat pump is off.

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



EM. HT. HEAT OFF AUTO COOL

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

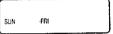


Press and release to enter the copy mode. The next day flashes on the display.





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.



NOTE: The display will show 0°C until the thermostat is mounted on the subbase and the system is powered.



Press and release to complete the copy.



Repeat Step 4 as needed until all days are programmed.

TEMPORARILY CHANGING THE PROGRAM

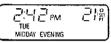
These features let you custom-tailor the program for those times when someone comes home early, or you or a colleague is working late, or you plan to be out for the evening.

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:



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

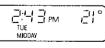
Press and hold until the desired



If you change your mind:



Press and release to cancel any of the temporary settings.



PERMANENTLY CHANGING THE PROGRAM



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

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 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.

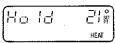
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OPERATING THE THERMOSTAT MANUALLY

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

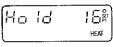


Press and release.



WARMER

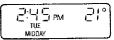
Press and hold to change the temperature setting. After a few seconds the display will show the current temperature.



PRESENT SETTING Press and release to check the temperature setting.



RUN PROGRAM 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.

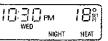


Press and hold until the desired time period shows on the display.



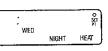


Press and hold until the desired day shows on the display.





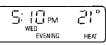
Press and release to cancel the time and temperature settings for that time period. Both the heating and cooling temperatures will be canceled.



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.



OPERATING YOUR THERMOSTAT

CHECKING THE PROGRAM TIMES AND TEMPERATURES



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



You can check all the stored settings without affecting the permanent program.



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





Press and release to return to normal operation.



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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.

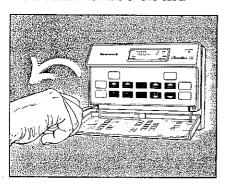


During recovery from energy savings, the setting displayed will not match the programmed setting. This is because the thermostat gradually changes the temperature setting during recovery to provide maximum comfort combined with most efficient use of the heating or cooling equipment.

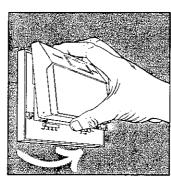
HAVED MYSELLE STUDY CONTINUA WAR WAS THE

REMOVING THE THERMOSTAT

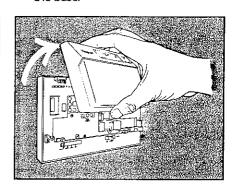
1 Loosen the two captive screws at the bottom corners of the case.



2 Pull the thermostat out from the bottom.



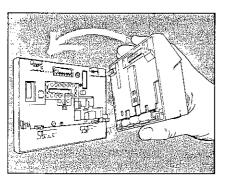
3 Lift the thermostat up and off the base.



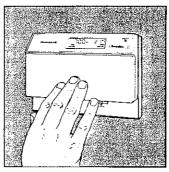
27

REPLACING THE THERMOSTAT

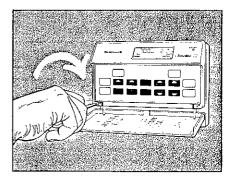
1 Hang the thermostat on the tabs at the top of the base.



2 Swing down and press on lower edge until thermostat snaps in place.



3 Tighten the captive screws.

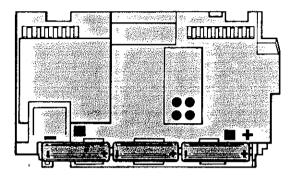


REPLACING THE BATTERIES

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.

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.

> 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

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

energy savings temperature.

EM HT light (heat pump models only)

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

Energy-saving temperature

(cooling) 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

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,

thermostat 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 (winter)

lost for any reason. The program, which is the same for all days of the week, is: Start Temperature Heating Cooling Period Time MORNING 21°C 6:00 AM

----- No program -

or if your personal program is

NIGHT Program

MIDDAY

EVENING

day's schedule.

----- No program ---26°C 10:00 PM The times and temperatures you set to define the comfort and

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 temperature.

energy savings periods for each

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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.



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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				•		
	Period Start Time						
TÚE	Period Start Time						
	Heating Temperature	_					
	Cooling Temperature						

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

(0)31(30)31(4) 21(30(7))11

TROUBLESHOOTING GUIDE

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Di	S	ol	ay	will	not	come	on.	

Display flashes during

programming.

wrong times.

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.

■ 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 settina.

Display flashes during operation.

■ Programming has been lost because of a power outage. You must

reprogram. ■ Check that backup batteries are installed correctly. Replace if necessary.

Program is lost due to power outage.

Reprogram the thermostat. Temperature change occurs at the

Check the program times for the period in question. Be sure that AM and PM indicators are correct. Make sure the current day and time are correct.

Reprogram if necessary. ■ Remember that the heating equipment or air conditioner comes on before

the MORNING and EVENING start times so the house will be at the desired temperature when the period starts.

Heat pump thermostats have a built-in time delay which may add to time delays in the heating equipment. Allow up to 10 minutes after changing

■ Check the fuse or circuit breaker and replace or reset if necessary.

Heating will not come on.

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If temperature setting is higher than current temperature, and displays says HEAT ON or SYSTEM light is on, contact your heating and air conditioning contractor. ■ Check the fuse or circuit breaker and replace or reset if necessary.

Cooling will not come on.

■ 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

■ Check that switch on thermostat is set to HEAT or AUTO.

the setting before the compressor starts.

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 displays says

COOL ON or SYSTEM light is on, contact your heating and air conditioning contractor. ■ Press Present setting to check the current temperature setting.

The building is too warm or too cool.

■ 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

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.

before checking for heat at the register.

Install fresh alkaline batteries.

TROUBLESHOOTING

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.

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



LIMITED IYEAR WARRANIY

Honeywell warrants all Residential products to be free of defects due to workmanship or materials, under normal use and service, for one year from date of installation. If defective due to workmanship or materials, and certified by the installer that the product was removed, due to failure within 12 months after date of installation, the product will be repaired or replaced at Honeywell's option. This warranty applies to all parts or components of such products and where possible Honeywell shall only be required to repair or replace such part or component.

Honeywell assumes no liability for consequential damages of any kind and the purchaser by acceptance of this equipment will assume all liability for the consequences of its use or misuse by the purchaser, his employees or others.

This warranty is expressly in lieu of all other warranties, guarantees, obligations or liabilities, expressed or implied.

All statutory or implied warranties, other than title, are hereby expressly negated and excluded.

HONEYWELL LIMITED

740 Ellesmere Road, Scarborough, Ontario M1P 2V9

Together, we can find the answers.

