

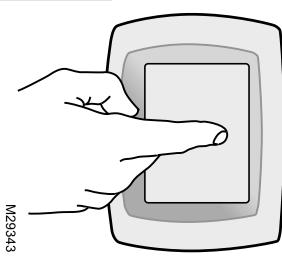
Honeywell

Operating Manual

VisionPRO® TH8000 Series

Touchscreen Programmable Thermostat







or pen, to press touchscreen keys. To prevent damage to the thermostat, always press keys with your fingertip. BE CAREFUL! Never use sharp instruments, such as a pencil

This manual covers the following models

TH8110U: For 1 Heat/1 Cool systems

TH8320U: For up to 3 Heat/2 Cool systems

TH8321U: For up to 3 Heat/2 Cool systems with dehumidification

(Pull thermostat from wallplate and turn over to find model number)

Perchlorate Material—special handling may apply, This thermostat contains a Lithium battery which may contain Perchlorate material.

See www.dtsc.ca.gov/hazardouswaste/perchlorate

Need Help?

For assistance with this product please visit http://yourhome.honeywell.com or call Honeywell Customer Care toll-free at 1-800-468-1502

Read and save these instructions.

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Appendices

This thermostat is ready to go!

Your new thermostat is preprogrammed and ready to go. See page 3 to check settings.



CAUTION: EQUIPMENT DAMAGE HAZARD. To prevent possible compressor damage, do not operate cooling system when outdoor temperature is below 50°F (10°C).

About your new thermostat

screen climate control mostat. It has been designed to give you many years of reliable service and touch-Congratulations! You've just purchased the world's most advanced, easy-to-use ther-

Features

- 7-day program schedules maximize comfort and economy.
- Armchair programming: Just pull thermostat from the wall to set schedules.
- EnergyStar® compliant to greatly reduce your heating/cooling expenses.
- One-touch temp control overrides program schedule at any time.
- Precise comfort control keeps temperature within 1°F of the level you set.
- batteries and other critical components Change/check reminders let you know when to service or replace filters,
- Large touchscreen display with backlight is easy to read—even in the dark.
- Select models display and control summer humidity.
- Select models accommodate optional outdoor or indoor remote sensors.

This thermostat is ready to go!

Your new thermostat is pre-programmed and ready to go. Just set the time and day. Then check the settings below and change if needed:

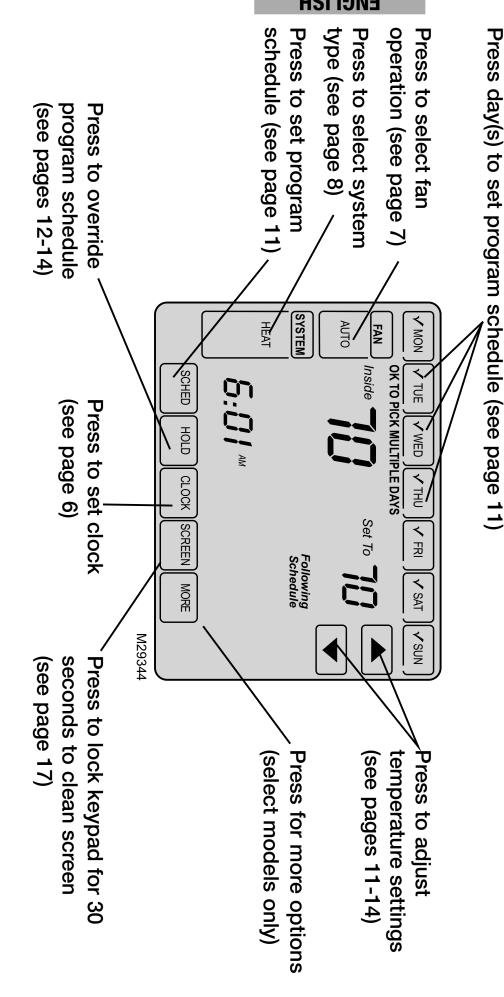
- 1. Set clock.....See page 6
- 2. Select fan setting: Preset to AutoSee page 7
- 3. Select system setting: Preset to HeatSee page 8 **Program schedules:** Preset to energy-saving levels and go to bed at 10 pm)..... wake at 6 am, leave at 8 am, return at 6 pm while you're at work or asleep (assumes youSee pages 10-13

and manually adjust the temperature (see pages 12-14). ONE-TOUCH TEMP CONTROL: You can override the program schedule at any time,

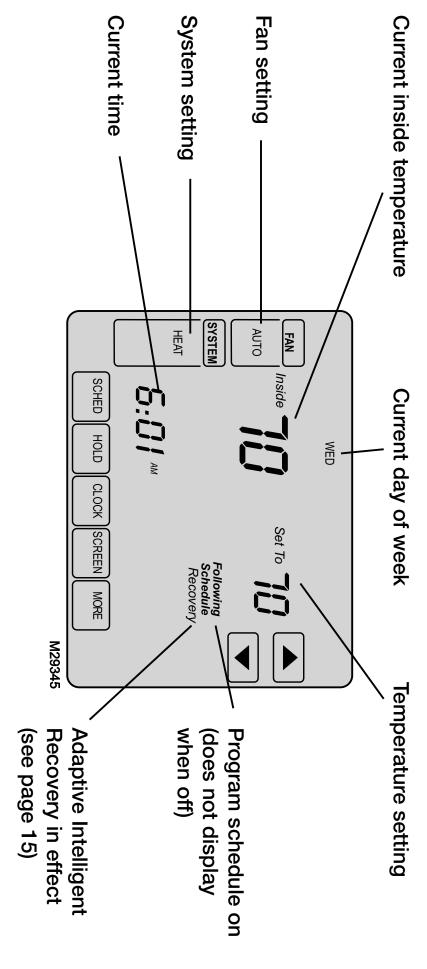
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Quick reference to controls

Dross davis) to set program schedule (see page 11)



Quick reference to status display

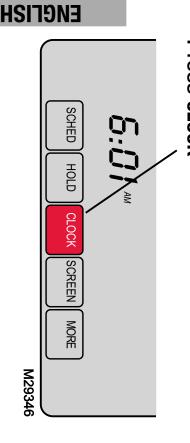


Other display messages:

- Cool On: Cooling system is activated
- **Heat On:** Heating system is activated
- Aux Heat On: Auxiliary heating system is activated

Clock setting

Press CLOCK

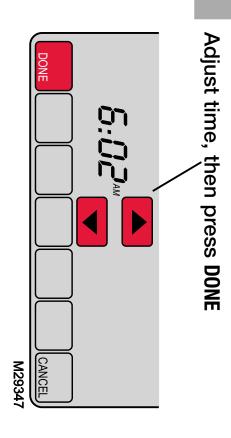


To set the current time display, press **CLOCK**, then press ▲ or ▼ to adjust the time. <u>Press</u> and hold ▲ or ▼ to advance the time more quickly.

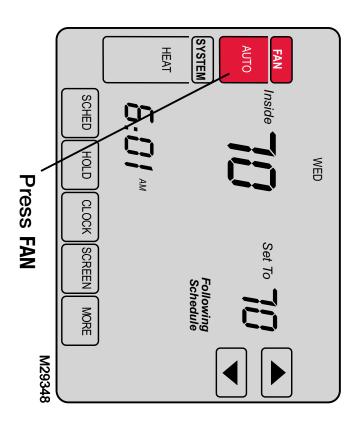
Press DONE to save & exit (or press CANCEL to exit without changing the time).

Note: The real-time clock should never require adjustment since it automatically updates for daylight savings time, and stores all date/time information.

Note: To change the current week day display, see page 22.



Fan setting



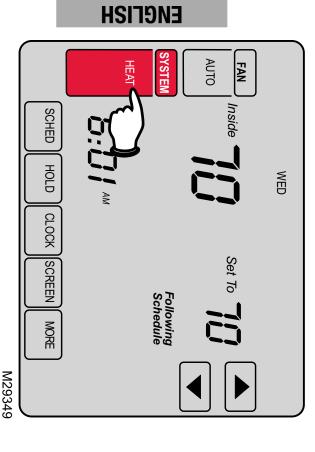
Note: If a fan schedule is programmed, "Auto" will run the fan schedule.

Press FAN to select fan operation, then press DONE.

- On: Fan is always on.
- Auto: Fan runs only when the heating or cooling system is on.
- Circ: Fan runs randomly, about 35% of the time, not counting any run time with the heating or cooling system.

You can press FAN to override the fan settings you've programmed for different time periods (see page 11). If you select On or Circ, the setting you select will remain active until you press FAN again to select Auto (see page 27 for more information).

System setting



Press the **SYSTEM** button to select, then press **DONE**.

- Heat: Thermostat controls only the heating system.
- Cool: Thermostat controls only the cooling system.
- Off: Heating and cooling systems are off.
- Auto: Thermostat automatically selects heating or cooling depending on the indoor temperature.**
- Em Heat (only for heat pumps with auxiliary heat): Thermostat controls Emergency and Auxiliary Heat.
 Compressor is locked out.**
- ** Select models only

Save money by setting program schedules

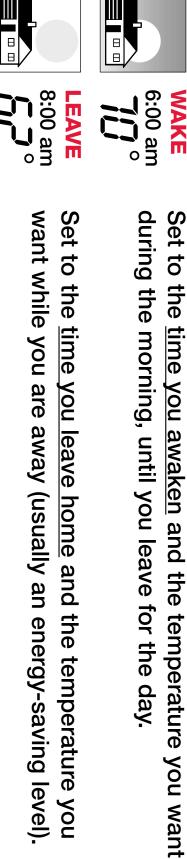
time periods each day, with different settings for weekdays and weekends. lt's easy to program your system for maximum energy savings. You can program four























Set to the time you go to bed and the temperature you want Set to the time you return home and the temperature you want during the evening, until bedtime.

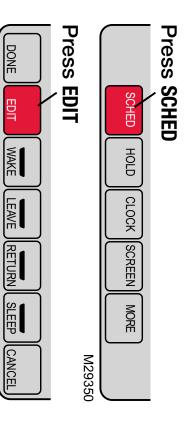


EnergyStar® settings for maximum cost savings

and temperatures of each time period.) theycanreduceyourheating/coolingexpenses by as much as 33%. (See next page to adjust times Thisthermostatispre-settouseEnergyStar®programsettings.Werecommendthesesettings,since

Sleep (10:00 pm) □ □ □ □ □	Return (6:00 pm)	Leave (8:00 am)	Wake (6:00 am)	
	\mathcal{U}°			Heat (Mon-Fri)
82°	78°	$85\degree$	<i>18</i> °	Heat (Mon-Fri) Cool (Mon-Fri) Heat
52°	[Or cancel period]	[Or cancel period]	7 <i>0</i> °	Heat (Sat-Sun)
82°	[Or cancel period]	[Or cancel period]	<i>78</i> °	Cool (Sat-Sun)

To adjust program schedules



Select day(s)

Set heat/cool levels

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Set heat/cool levels

FAN

OK TO PICK MULTIPLE DAYS

FAN

CANCEL PERIOD
PERIOD
PERIOD

LEAVE RETURN SLEEP CANCEL

SLEEP CANCEL

CANCEL PERIOR

AUTO

DONE

DONE

DONE

NAME

LEAVE
RETURN

SLEEP CANCEL

- Press SCHED, then EDIT.
- Press day buttons (MON-SUN) to select day(s).
- ယ day(s). Press ▲ or ▼ to set Wake time for selected
- Press ▲ or ▼ to set Heat and Cool temperature for this time period.
- Press other time periods (LEAVE, RETURN, SLEEP) to set time and temperatures for each.
- 6. Press **DONE** to save & exit (or press **CANCEL** to exit without saving changes).

Note: You can press **CANCEL PERIOD** to eliminate any unwanted time period.

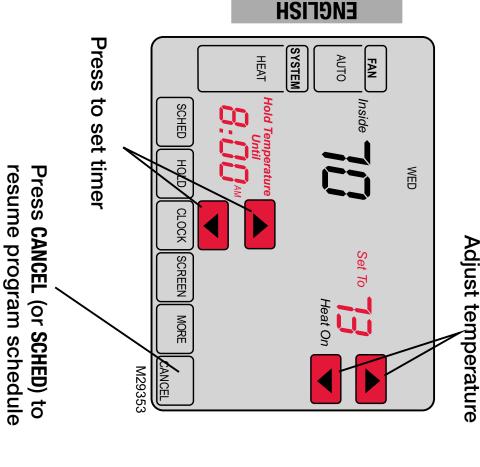
Note: Press **FAN** to customize fan settings for any time period (see page 7).

Set time for program

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period to start

Program schedule override (temporary

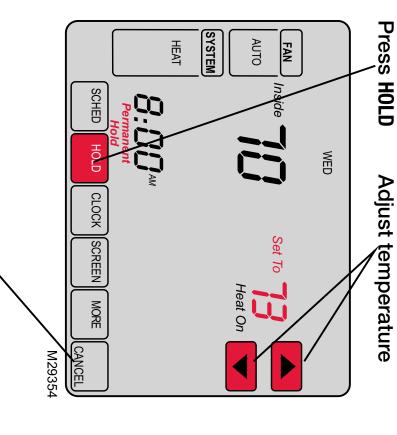


Press A or to immediately adjust the temperature. This will temporarily override the temperature setting for the current time period.

The new temperature will be maintained only until the time you set. When the timer expires, the program schedule will resume and set the temperature to the level you've programmed for the current time period.

To cancel the temporary setting at any time, press **CANCEL** (or **SCHED**). The program schedule will resume.

Program schedule override (permanent)

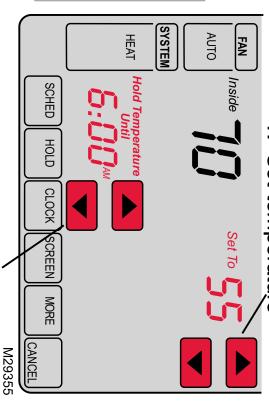


Press **H0LD** to permanently adjust the temperature. This will turn off the program schedule.

Whatever temperature you set will be maintained 24 hours a day until you manually change it or press **CANCEL** (or **SCHED**) to cancel "Hold" and resume the program schedule.

Vacation hold

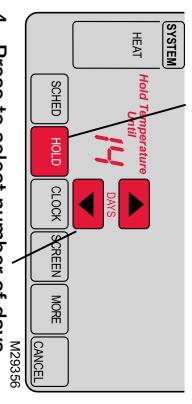




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Press to set time for schedule to resume

3. Press HOLD twice



4. Press to select number of days

This feature can suspend the program schedule for extended periods of time.

the number of days. want the schedule to resume when you return. then press ▲ or ▼ to set the time of day you Press H0LD twice, then press ▲ or ▼ to select Press ▲ or ▼ to set the temperature you want,

Whatever temperature you set will be maintained 24 hours a day for the number of days you select. After this number of days have elapsed, the previously programmed schedule will resume at the time you set.

If you return earlier than expected, press **CANCEL** (or **SCHED**) to cancel "Hold" and resume the program schedule.

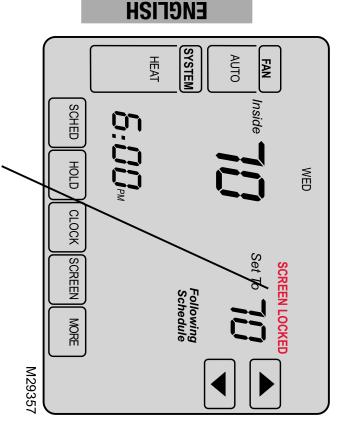
Special features

cooling depending on the indoor temperature. **Auto Changeover:** When set to <u>Auto</u>, the thermostat automatically selects heating or

system is activated before a scheduled time period. ture is 70° by the time you wake at 6. The message "Recovery" is displayed when the 6 am, and the temperature to 70°. The heat will come on before 6 am, so the temperaso the temperature is reached at the time you set. For example: Set the Wake time to long the furnace and air conditioner take to reach programmed temperature settings, Adaptive Intelligent Recovery: This feature allows the thermostat to "learn" how

"Wait" is displayed on screen before restarting, to prevent equipment damage. During the wait time, the message Compressor Protection: This feature forces the compressor to wait a few minutes

Screen lock



See advanced function **0670** (page 25) for screen lock options

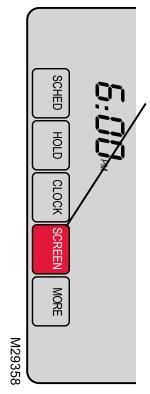
To prevent tampering, the screen can be partially or fully locked.

the screen key is pressed. To unlock the screen, press any SCREEN LOCKED for several seconds if a locked When partially locked, the screen displays unlocked key while SCREEN LOCKED appears on

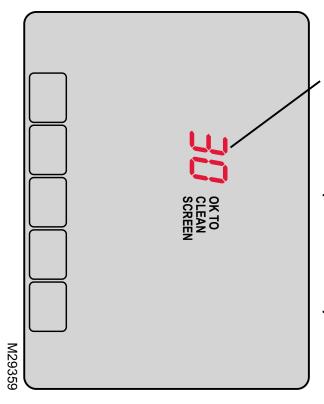
When the screen is fully locked, no keys function. To lock or unlock the screen, see advanced function **0670** on page 25.

Screen cleaning

Press SCREEN



Screen lock timer (30 seconds)

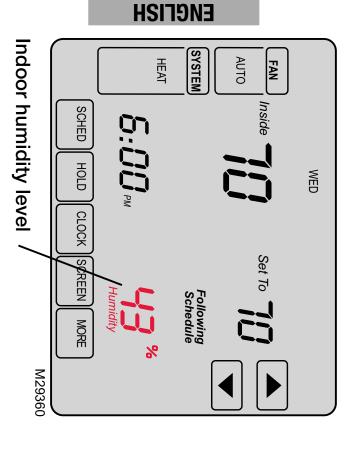


Press **SCREEN** to lock the screen for cleaning. The screen will remain locked for 30 seconds so you can clean the screen without changing any settings.

After 30 seconds, press **DONE** to resume normal operation, or press **SCREEN** again if you require more time for cleaning.

Note: Do not spray any liquid directly on the thermostat. Spray liquids onto a cloth, then use the damp cloth to clean the screen. Use water or household glass cleaner. Avoid abrasive cleansers.

Humidity level display (select models)

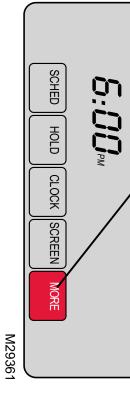


Select models can display the current indoor humidity level.

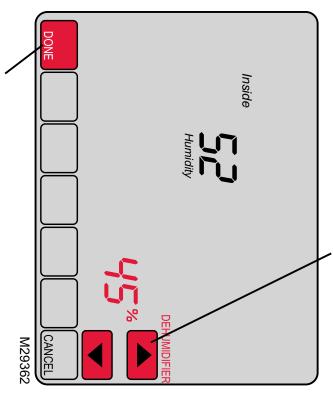
(If an optional outdoor sensor is installed, the outdoor temperature is shown instead of the humidity level. Press MORE to display the humidity level.)

Dehumidification control (select models)

Press MORE until humidity is displayed



Press to set desired humidity



Press to save & exit

humidity. Select models allow you to decrease summer

3°F below your cooling temperature setting). conditioner longer to reduce humidity (up to humidity increases, the thermostat runs the air The thermostat monitors humidity. When

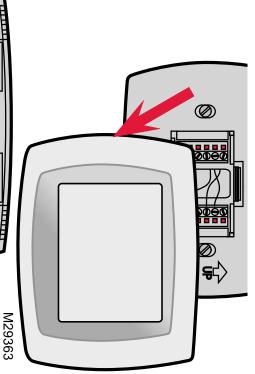
humidity level. played, then press 🛦 or 🔻 to set the desired Press MORE until the humidity screen is dis-

exit without saving changes. Press DONE to save and exit, or press CANCEL to

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Battery replacement

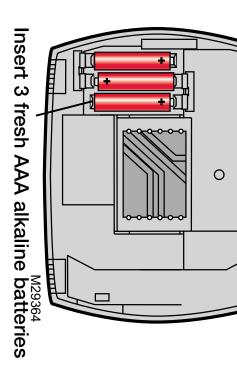
Grasp thermostat and pull to remove fom wallplate



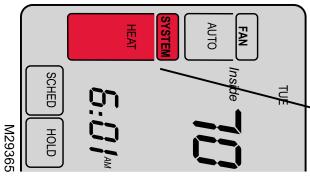
Batteries are optional (to provide backup power) if your thermostat was wired to run on AC power when installed.

Install fresh batteries immediately when the L0 BATT warning begins flashing. The warning flashes about 30 days before batteries are depleted.

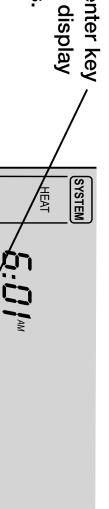
Even if the warning does not appear, you should replace batteries once a year, or before leaving home for more than a month.



1. Press SYSTEM.



2. Press and hold blank center key until the display changes.



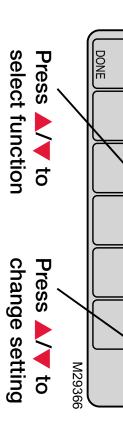
 Change settings as required (see pages 22-25).

Function

Setting

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DONE



4. Press DONE to exit & save changes.

Year setting (first two digits)

Function Press ▲/▼ to change the first two digits of the year:

Options: 20 = Year **20**xx 21 = Year **21**xx

Year setting (second two digits)

Function Press ▲/▼ to change the last two digits of the year:

0130

Options: 01 - 99 (i.e., 2001 - 2099)

Month setting

Function Press ▲/▼ to change the current month:

Options: 1 - 12 (i.e., January - December)

Date setting

Function Press ▲/▼ to change the current date:

Options: 1 - 31

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Program schedule on/off

Function Press ▲/▼ to turn the program schedule on or off:

Options: Program schedule is off. Thermostat is non-programmable.

4 Program schedule is on (7-day programmable).

Temperature format (°F/°C)

Function Press ▲/▼ to set the temperature display format:

Options: 0 Fahrenheit

1 Celsius

Daylight savings time on/off

Function The thermostat is pre-programmed to automatically adjust to daylight savings time.

Press ▲/▼ to select an option:

Options: Off: No adjustment for daylight savings time

On: Auto-change to daylight savings time (through 2006, and for areas that do not use the new 2007 DST calendar)

N use the new 2007 DST calendar) On: Auto-change to daylight savings time (2007 and beyond, for areas that

Furnace filter change reminder

Function This feature displays an alert to remind you to change the furnace filter.

Press // to set the desired reminder interval:

Options: Off (no reminder to change furnace filter)

Reminder after 10-day run time (about 1 month)

Note: Press RESET to cancel the alert

Reminder after 30-day run time (about 3 months)

Reminder after 60-day run time (about 6 months)

Reminder after 90-day run time (about 9 months)

5 Reminder after 120-day run time (about 1 year)

Reminder after 365-day run time (about 3 years)

Humidifier pad change reminder

Function Press ▲/▼ to set the desired interval: This feature displays an alert to remind you to change the humidifier pad

Options: Off (no reminder to change humidifier pad)

Note: Press RESET to cancel the alert

1 Reminder after 3 months

2 Reminder after 6 months

3 Reminder after 1 year

UV lamp change reminder

Function This feature displays an alert to remind you to change the ultraviolet lamp.

Press / to set the desired interval:

Options: Off (no reminder to change UV lamp)

Note: Press RESET to cancel the alert

Reminder after 1 year

Program schedule periods

Function Press ▲/▼ to set the number of program periods:

Options: Two program periods (Wake, Sleep)

4 Four program periods (Wake, Leave, Return, Sleep)

Clock format

Function Press ▲/▼ to set the clock display format:

Options:

12 12-hour clock (i.e., "3:30 pm")24 24-hour clock (i.e., "15:30")

Screen lock

Function 0670 Press ▲/▼ to choose a screen lock setting (see page 16):

Options: Screen is unlocked (fully functional)

All functions locked except temperature controls and CANCEL key

Screen is fully locked

In case of difficulty

Most problems can be corrected quickly and easily. If you have difficulty with your thermostat, please try the following suggestions.

Display is blank

- Check circuit breaker and reset if necessary.
- Make sure power switch at heating & cooling system is on.
- Make sure furnace door is closed securely.
- If thermostat is battery powered, make sure fresh AAA alkaline batteries are correctly installed (see page 20).

No response to key presses (or temperature will not change)

Check to make sure the thermostat is not locked (see page 25).

Make sure heating and cooling temperatures are set to acceptable ranges:

- Heat: 40° to 90°F (4.5° to 32°C)
- Cool: 50° to 99°F (10° to 37°C)

Backlight is dim

- If thermostat is battery powered, make sure fresh AAA alkaline batteries are correctly installed (see page 20).
- If thermostat is AC powered, a dim display is normal. The backlight remains on at a low level, and brightens when a key is pressed.

In case of difficulty

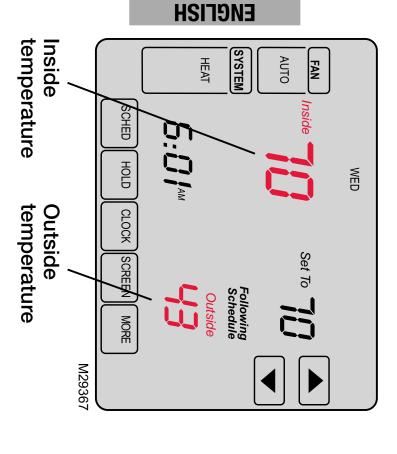
Heating or cooling system does not respond

- Press SYSTEM to set system to Heat. Make sure the temperature is set higher than the Inside temperature.
- Press SYSTEM to set system to Cool. Make sure the temperature is set lower than the Inside temperature.
- Check circuit breaker and reset if necessary.
- Make sure power switch at heating & cooling system is on.
- Make sure furnace door is closed securely.
- compressor (see page 15). 5 minutes for the system to restart safely, without damaging the If "Wait" is displayed, the compressor protection timer is on. Wait

Display shows Fan Auto and On or Auto and Circ at the same time

for "On" during this period (see page 7). This is normal operation. Auto indicates the thermostat is following the programmed fan setting. If Auto and On is shown, the fan is scheduled

Optional remote sensors (select models)



If an outdoor sensor is installed, the current outdoor temperature is displayed.

If an indoor remote sensor is installed, the display shows the indoor temperature at the location of the sensor. (The internal sensor in the thermostat is disabled.)

ings from all sensors. display shows an <u>average</u> of temperature read-If more than one indoor sensor is installed, the

5-year limited warranty

tions, Honeywell shall repair or replace it (at Honeywell's option). Honeywellwarrantsthisproduct, excludingbattery, to be free from defects in the work manship or materials, under normal use and service, for a period of five(5)years from the date of purchase by the consumer. If at any time during the warranty period the product is determined to be defective or malfunc-

If the product is defective,

- (i) return it, with a bill of sale or other dated proof of purchase, to the place from which you purchased it; or
- or whether a replacement product can be sent to you. (ii) call Honeywell Customer Care at 1-800-468-1502. Customer Care will make the determination whether the product should be returned to the following address: Honeywell Return Goods, Dock 4 MN10-3860, 1885 Douglas Dr. N., Golden Valley, MN 55422,

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

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

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

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 Honeywell Customer Relations, 1985 Douglas Dr, Golden Dynamic Drive, Toronto, Ontario M1V4Z9. Valley, MN 55422 or call 1-800-468-1502. In Canada, write Retail Products ON15-02H, Honeywell Limited/Honeywell Limitée, 35

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