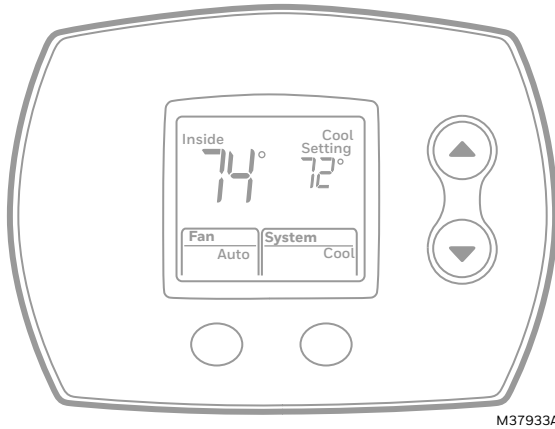




# TH5110D

## NON-PROGRAMMABLE THERMOSTAT

### OPERATING INSTRUCTIONS



M37933A

The TH5110D Thermostat provides electronic control of 24 Vac single-stage heating and cooling systems or 750 mV heating systems.

For assistance with your product please visit [www.honeywellhome.com](http://www.honeywellhome.com) or call Customer Care toll free at 1-800-468-1502.

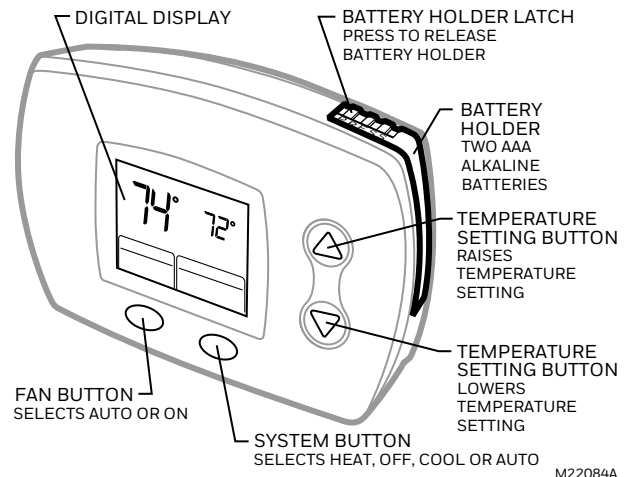
Read and Save these Instructions

### FEATURES

- **Large, Clear, Backlit Display: Easy-to-see and read—even in the dark.**
- **Precise Comfort Control: ±1°F of your set temperature.**
- **Simplified Operation: Soft-key controls. Simultaneously displays both room temperature and temperature setting.**
- **Easy Change Battery Holder.**
- **Built-in Compressor Protection: Minimum-off timer protects compressor from restarting too early after a shutdown.**

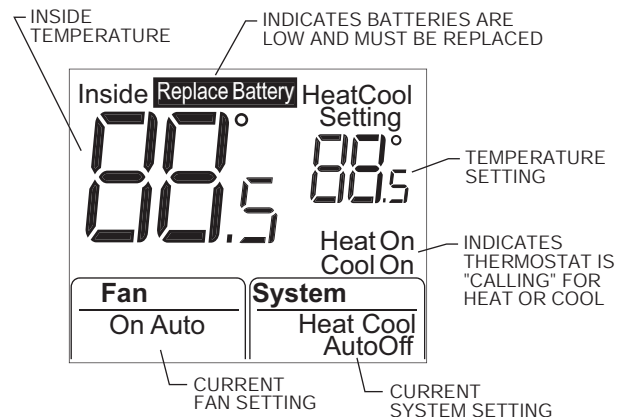
### GET TO KNOW YOUR THERMOSTAT

#### Thermostat



M22084A

#### Display



M22083



# OPERATE YOUR THERMOSTAT

## Set System Setting

Press the System button to select Heat, Off, Cool or Auto:

**Heat**—Thermostat controls the heating system.

**Off**—Both the heating and cooling systems are off.

**Cool**—Thermostat controls the cooling system.

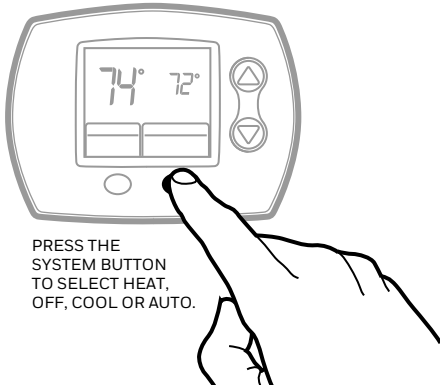
**Auto**—Thermostat automatically changes between heating and cooling operation, depending on indoor temperature. See Auto Changeover section.

## CAUTION

**Equipment Damage Hazard.**

**Air conditioning compressor damage possible.**

Do not operate cooling system when outdoor temperature is below 50°F (10°C).

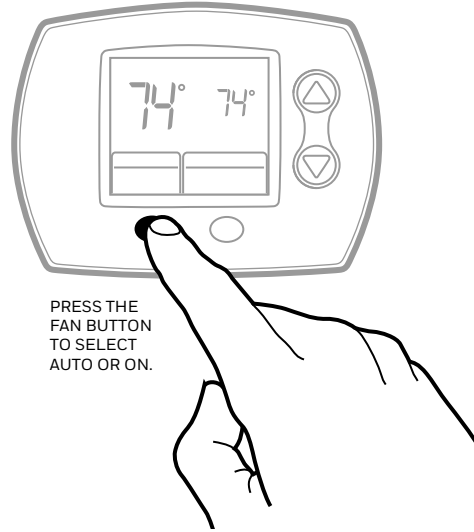


## Set Fan Setting

Press the Fan button to select Auto or On:

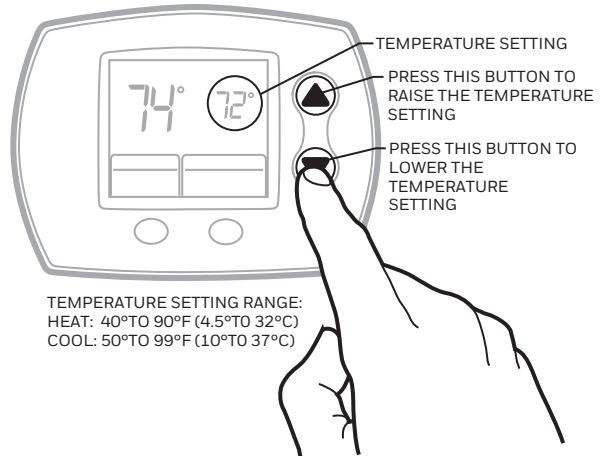
**Auto**—Normal setting for most homes. The fan runs only when the heating or cooling system is on.

**On**—The fan runs continuously. Use this setting for improved air circulation or for more efficient air cleaning.



## Change Temperature Setting

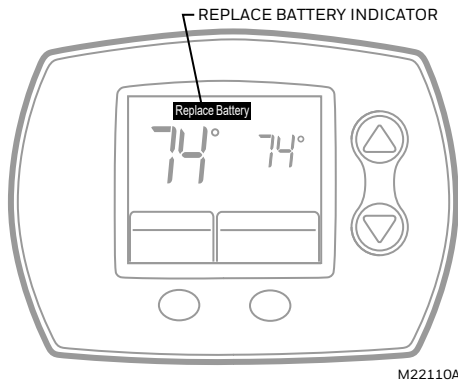
Press the Up or Down button to select the desired temperature setting.



**NOTE:** The first press of the Up or Down button turns on the backlight. The second press of the Up or Down button changes the temperature setting.

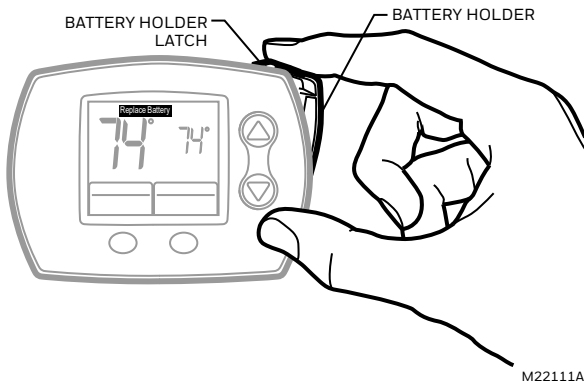
# REPLACE BATTERIES

1. When the Replace Battery indicator is flashing, replace batteries promptly with two fresh AAA alkaline batteries.

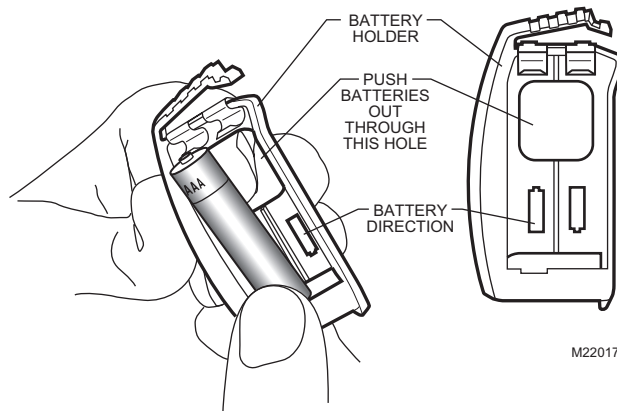


NOTE: The thermostat does not lose any settings when the batteries are replaced; all settings are permanently stored in memory.

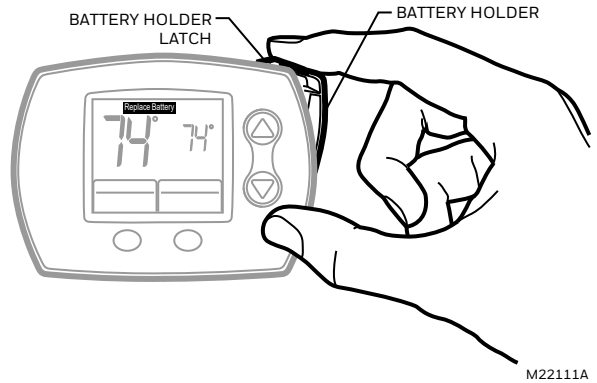
2. Press the battery holder latch to release the battery holder.
3. Remove the battery holder from the thermostat.



4. Remove the old batteries and insert two fresh AAA alkaline batteries as marked on the battery holder.



5. Insert battery holder as shown.



# REVIEW BATTERY TIPS

1. Replace the batteries as soon as Replace Battery flashes in the display. The Replace Battery indicator flashes in the display two months before the batteries run down completely.
2. Always use fresh AAA alkaline batteries. Non-alkaline batteries do not last as long and can leak, causing damage to the thermostat.
3. Although the thermostat has a Replace Battery indicator, replace the batteries once per year to prevent the thermostat and heating/cooling system from shutting down due to a lack of battery power.

NOTE: Replacing the batteries once a year also helps prevent battery leakage that can damage the thermostat.

4. As a precaution, replace the batteries when leaving your home for more than a month to prevent your heating/cooling system from shutting down if the batteries run down completely.

# BUILT-IN COMPRESSOR PROTECTION

The TH5110D Thermostat has built-in compressor protection (minimum-off timer) that prevents the compressor from restarting too early after a shutdown.

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

If there is a call during the minimum-off timer, the thermostat flashes “Cool On” or “Heat On”<sup>a</sup> in the display.

When the minimum-off timer expires, “Cool On” or “Heat On”<sup>a</sup> appears solidly in the display and the compressor and the fan turn on.

<sup>a</sup> Heat Pumps only.

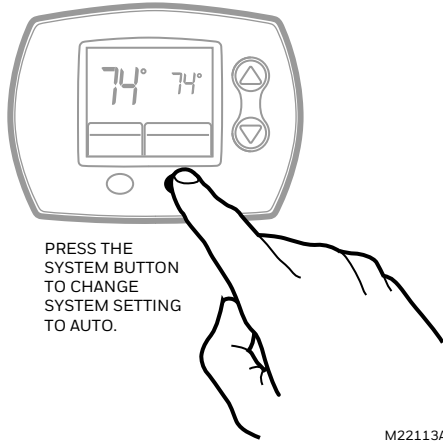
# AUTO CHANGEOVER

Auto Changeover is a feature used in climates where both air conditioning and heating are used on the same day. The Auto setting appears only if the thermostat is set up for Auto Changeover by your heating and air conditioning dealer. In some installations, Auto may be the only system selection.

The following pages in this Auto Changeover section provide an example of how to change both the cool and heat temperature settings when the system is set to Auto.

When you are adjusting the temperature setting, if “▲Cool” or “▼Heat” appear in the display, the temperature setting of the opposite mode is also being adjusted. The thermostat automatically keeps the cool and heat temperature settings three degrees apart (called deadband). This three-degree deadband is not adjustable.

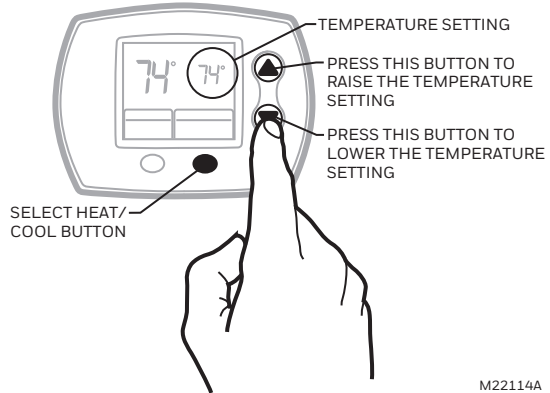
1. Press the System button to change the System setting to Auto.



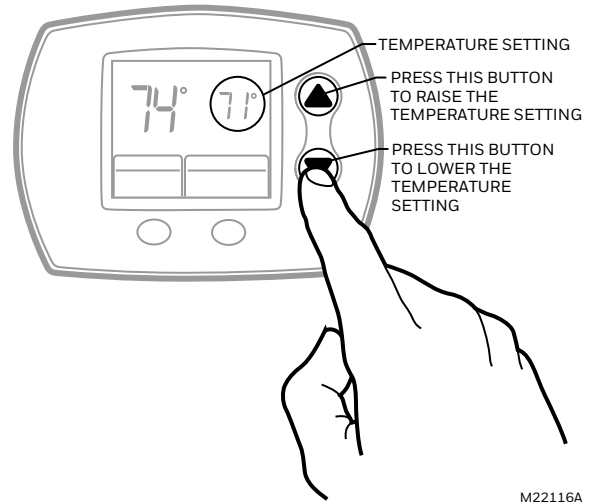
**NOTE:** The Auto setting appears only if the thermostat is set up for Auto Changeover by your heating and air conditioning dealer.

2. Press the Up or Down button to raise or lower the cool temperature setting.

3. Press the Select Heat/Cool button to display the Heat temperature setting. “Select Heat/Cool” flashes for six seconds.



4. Press the Up or Down button to raise or lower the heat temperature setting.
5. “Select Heat/Cool” stops flashing six seconds after the last button press. The thermostat then returns to displaying “Auto” for the System setting.

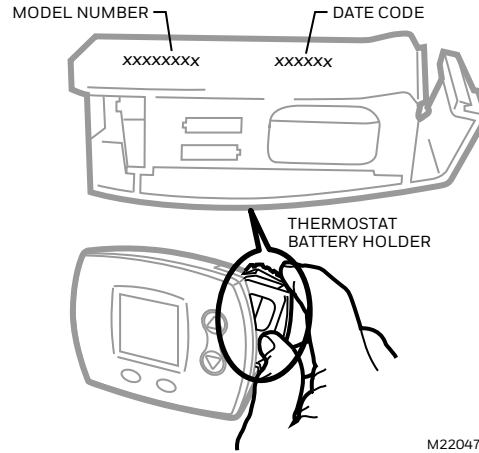


<b>Troubleshooting Tips</b>	
<b>If ...</b>	<b>Then ...</b>
Display is blank.	<ul style="list-style-type: none"> <li>• Check circuit breaker to be sure it is not tripped.</li> <li>• Check power switch at heating and/or cooling system to be sure it is on.</li> <li>• Check furnace door to be sure it is closed securely.</li> <li>• If you use batteries, check that fresh AAA alkaline batteries are installed as marked on the battery holder.</li> </ul>
Temperature settings do not change.	<p>Check that the temperature settings are:</p> <ul style="list-style-type: none"> <li>• Heating 40°F to 90°F (4.5°C to 32°C).</li> <li>• Cooling 50°F to 99° F (10°C to 37°C).</li> </ul>
Heating system does not turn on.	<ul style="list-style-type: none"> <li>• Set the system to Heat by pressing the System button.</li> <li>• Check that the heat temperature setting is set above the room temperature and “Heat On” shows solidly in the display.</li> <li>• Check the circuit breaker to be sure it is not tripped.</li> <li>• Check power switch at the heating and/or cooling system to be sure it is on.</li> <li>• Check the furnace door to be sure it is closed securely.</li> <li>• Wait five minutes for the heating system to respond.</li> <li>• If all of this was checked, contact your local heating and cooling contractor.</li> </ul>
Cooling system does not turn on.	<ul style="list-style-type: none"> <li>• Set the system to Cool by pressing the System button.</li> <li>• Check the cool temperature setting to be sure it is set below room temperature and “Cool On” shows solidly in the display.</li> <li>• Check the circuit breaker to be sure it is not tripped.</li> <li>• Check the power switch at the heating and/or cooling system to be sure it is on.</li> <li>• Check the furnace door to be sure it is closed securely.</li> <li>• Wait five minutes for the cooling system to respond.</li> <li>• If all of this was checked, contact your local heating and cooling contractor.</li> </ul>
“Heat On” is not shown in the display.	<p>Set System setting to Heat and set the temperature setting above the room temperature. If “Heat On” is shown solidly in the display, but the heating system does not turn on, see “Heating system does not turn on” in Troubleshooting Tips.</p>
“Cool On” is not shown in the display.	<p>Set System setting to Cool and set the temperature setting below the room temperature. If “Cool On” is shown solidly in the display, but the cooling system does not turn on, see “Cooling system does not turn on” in Troubleshooting Tips.</p>
“Heat On” is flashing in the display (heat pumps only).	<p>Compressor minimum-off timer is active. Wait up to five minutes for the heating system to turn on.</p>
“Cool On” is flashing in the display.	<p>Compressor minimum-off timer is active. Wait up to five minutes for the cooling system to turn on.</p>

## CUSTOMER ASSISTANCE

For assistance with your product, please visit [www.honeywellhome.com](http://www.honeywellhome.com) or call Customer Care toll free at 1-800-468-1502.

Before calling, please have the thermostat model number and date code available.



M22047A

## FIVE-YEAR LIMITED WARRANTY

Resideo warrants this product, excluding battery, to be free from defects in workmanship or materials, under normal use and service, for a period of five (5) years from the date of first purchase by the original purchaser. If at any time during the warranty period the product is determined to be defective due to workmanship or materials, Resideo shall repair or replace it (at Resideo's option).

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  
(ii) call Resideo Customer Care at 1-800-468-1502. Customer Care will make the determination whether the product should be returned to the following address: Resideo Return Goods, 1985 Douglas Dr. N., Golden Valley, MN 55422, or whether a replacement product can be sent to you.

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

Resideo's sole responsibility shall be to repair or replace the product within the terms stated above. RESIDEO 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.

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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 Resideo Customer Care, 1985 Douglas Dr, Golden Valley, MN 55422 or call 1-800-468-1502.

TH5110D



[www.resideo.com](http://www.resideo.com)

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