Honeywell | Home

RTH6360 Series
Programmable Thermostat

Quick Installation Guide

Included in your box

Quick Install Guide

Screws and anchors

Quick Install Guide

UWP™ Mounting System (UWP)

RTH6360 Thermostat
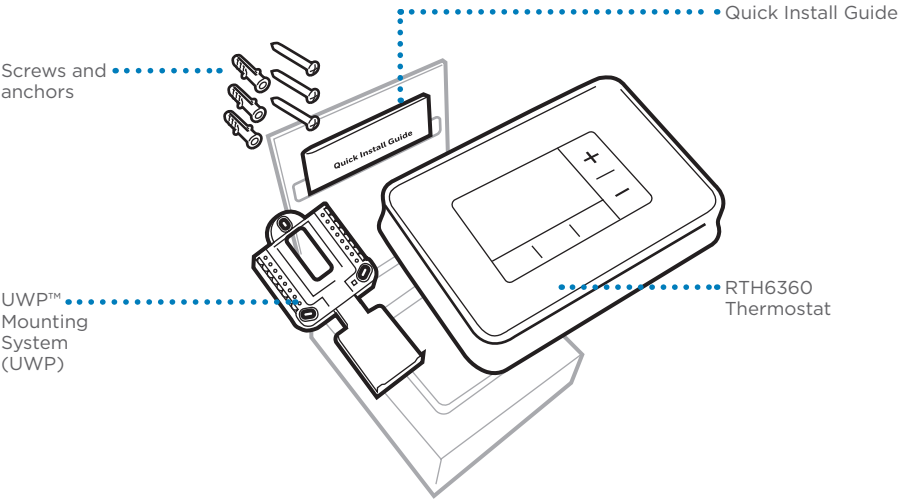
Tools you will need

Phillips screwdriver
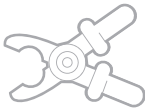
Small flat head screwdriver

Pencil

Level

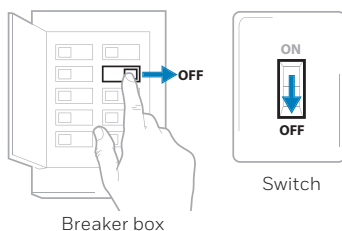## Tools you may need

Wire stripper

Needle-nose pliers

Drill and drill bit (7/32 in)

Removing your old thermostat

1 **Turn power OFF.**
⚠ To protect yourself and your equipment, Turn off the power at the breaker box or switch that controls your heating/cooling system.

ON
OFF

Switch

Breaker box

**2** **Check that your system is off.**
Change the temperature on your old thermostat to be above room temperature in heat mode or below it in cool mode. If you don't hear the system turn on within 5 minutes, the power is off.

Note: If you have a digital thermostat that has a blank display, skip this step.

75
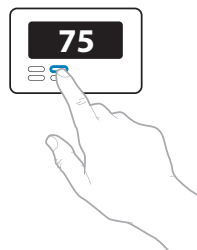
3 **Remove the old thermostat's faceplate.**
On most thermostats, you can take off the faceplate by grasping and gently pulling. Some thermostats may have screws, buttons, or clasps.
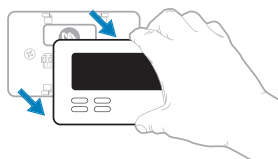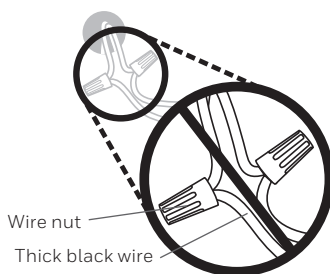
⚠ **Do not remove any wires from your thermostat at this time!**

4 **Make sure there are no 120/240V wires.**

⚠ **Do you have thick black wires with wire nuts?**

Is your thermostat 120V or higher?
If you answered yes to either of these questions, you have a line voltage system and the thermostat will not work.

Wire nut

Thick black wire

5 **Take a picture of how your wiring looks right now.**
Be sure to include the letters next to the terminals where the wires are inserted. This will be a helpful reference when wiring your thermostat.

Tip: If the color of your wires has faded or if 2 terminals have the same wire color, use the wire labels provided in the package to label each wire.

6 **Remove any jumpers.**
A jumper connects one terminal to another terminal. It may look like a small staple or even a colored wire and must be removed before continuing. Use a screwdriver to release wires from terminals.

Example of a jumper — **R RC**

Terminals

The RTH6360 thermostat does not need jumpers.
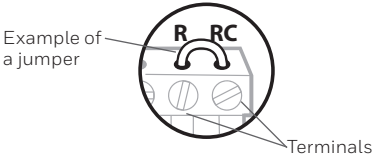
7 **Record if you have wires in the following terminals.**
Do not include jumpers as a part of your count. The thermostat does not need jumpers.

Terminal	Wire Color
☐ R	_____
☐ R$_H$	_____
☐ Rc	_____

8 **Write down the color of the wires.**
Check mark the wires that are connected to terminals. Next to the check mark, write down the color of the wire. **Do not include jumpers as a part of your count.**

Check all that apply (Not all will apply):

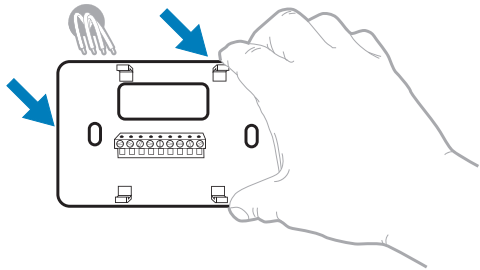| Terminal	Wire Color		Terminal	Wire Color
☐ Y	_____		☐ A or L/A	_____
☐ Y2	_____		☐ O/B	_____
☐ G	_____		☐ W2 or AUX	_____
☐ C	_____		☐ E	_____
			☐ W	_____
			☐ K	_____

The RTH6360 thermostat does not support L/A, S, or U terminals.

If there are wires in terminals that are not listed, you will need additional wiring support. Visit **yourhome.honeywell.com/support** to find out if the thermostat will work for you.

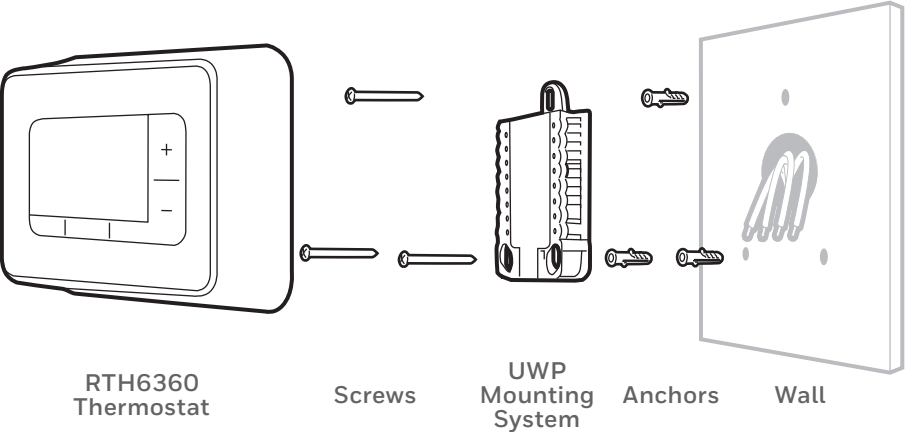**9** **Disconnect the wires and remove the old wall plate.**
Use a screwdriver to release wires from terminals. Then, use a wire label to identify each wire as it's disconnected. The letter on the wire label should match the letter on the terminal.

Tip: To prevent wires from falling back into the wall, wrap the wires around a pencil.

Wiring Labels			Étiquettes de fils			Rótulos para los cables		
Apply these wiring labels to each wire with the appropriate terminal designation as you remove it from the existing thermostat.			Lorsque vous retirez les fils des bornes du thermostat existant, collez ces étiquettes sur chaque fil correspondant à la lettre de la borne.			Coloque estos rótulos, con la designación de los terminales, en cada cable al remover los cables del termóstato actual.		
B	B	Y2	Y2	C	C	E	E	F	F
G	G	H	H	L	L	O	O	P	P
R	R	RC	RC	RH	RH	T	T	U	U
V/VR	V/VR	W	W	W1	W1	W2	W2	W3	W3
X	X	X1	X1	X2	X2	Y	Y	Y1	Y1

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Installing your RTH6360 thermostat

RTH6360 Thermostat	Screws	UWP Mounting System	Anchors	Wall

10 **Bundle and insert wires through the UWP.**
Pull open the UWP and insert the bundle of wires through the back of the UWP.

Make sure at least **1/4-inch** of each wire is exposed for easy insertion into the wire terminals.

1/4" to 3/8"
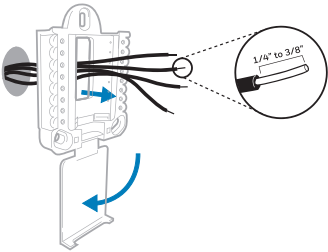
11 **Insert the wall anchors.**
It is recommended that you use the
wall anchors included in the box to
mount your thermostat.

You can use the **UWP** to mark where
you want to place the wall anchors.

a) Level the wall plate.
b) Mark the location of the wall
anchors using a pencil.
c) Drill the holes.
d) Insert wall anchors.
e) Make sure anchors are flush with
wall.

Tip: Use a **7/32 drill bit.**
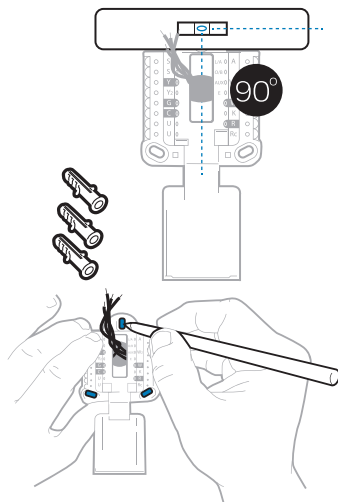
12 **Set R-switch position and insert R-wire or wires.**
Set the R-switch up or down based on your wiring notes in **Step 7**.

⚠ **Insert wires into the inner holes of the terminals on the UWP. The tabs will stay down once the wire is inserted.**

NOTE: Alternate wiring options are shown on pages 12-13.

If you have 1 R-wire (R,Rh, or Rc)
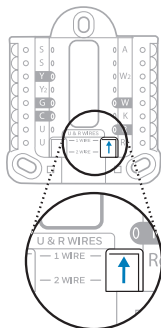
1. Set R-switch to the **up position.**
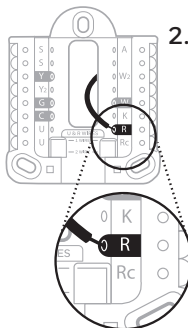
2. Insert your **R-wire (R, Rh or Rc) into R-terminal.**

— or —

If you have 2 R-wires (R or Rh, and Rc)
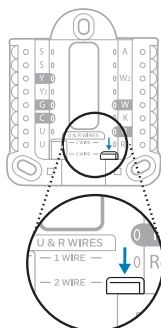
1. Set R-switch to the **down position.**
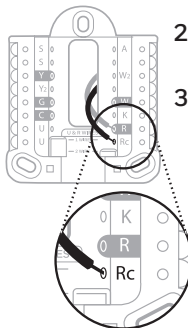
2. Insert your **Rc wire into Rc-terminal.**

3. Insert your **R or Rh wire into R-Terminal.**
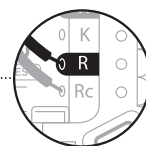
13 Connect wires from Step 8.

Depress the tabs to put the wires into the inner holes of their corresponding terminals on the UWP (one wire per terminal) until it is firmly in place.

Gently tug on the wires to verify they are secure.

Tip: If you need to release the wires again, push down the terminal tabs on the sides of the UWP.
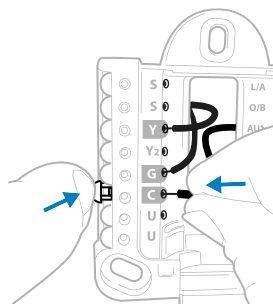
This wiring is just an example, yours may vary.

14 Confirm wiring matches snapshot.
Please confirm wiring matches terminals from the photo you took in Step 5.

Use 3x supplied screws #8 1-1/2"

15 Mount the UWP and close the door.
Mount the UWP using the provided screws. Install all three screws for a secure fit on your wall. Close the door after you're finished.

16 Install batteries.
Insert two AA alkaline batteries in the back of the thermostat as shown.

Ⓐ

Ⓑ

Ⓒ

Ⓓ
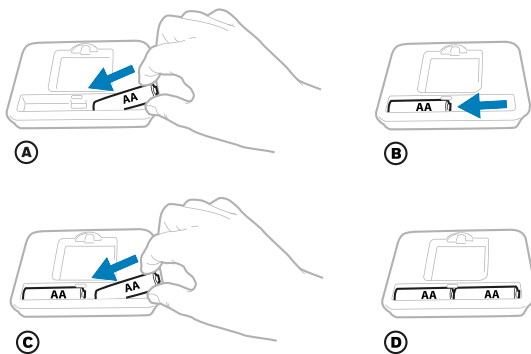
17 Attach your thermostat.
Align the thermostat onto the UWP and firmly snap it into place.
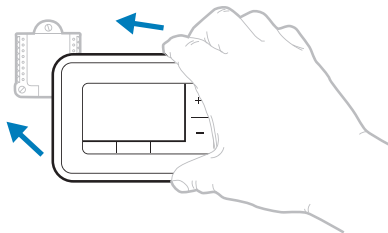
18 Turn your power ON.
Turn on the power at the breaker box or switch that controls the heating/cooling system.

ON

ON

OFF

Switch

Breaker box
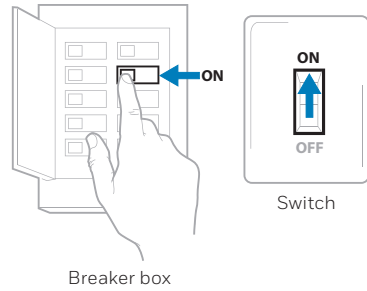
Set date and time

NOTE: If this is not a new installation, see pages 15-16 for setting the date and time.

19 Set the date.
Press **+** or **–** to adjust the year. Press **Select**.

Press **+** or **–** to adjust the month. Press **Select**.

Press **+** or **–** to adjust the day. Press **Select**.

DATE
⟩
+
Select
Home
—
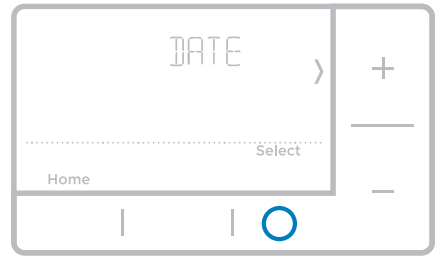
20 Choose a clock format.
Press **+** or **–** set the clock format: 12 hour (standard for North America) or 24 hour. Press **Select**.

12HR
⟩
+
Back   Select
Home
—

21 Set the time.
Press **+** or **–** to adjust the hour. Press **Select**.

Press **+** or **–** to adjust the minutes. Press **Select**.

TIME
⟩
+
Select
Home
—

System Setup

NOTE: If this is not a new installation, see page 14 for entering setup menu.

22 **Select System Setup options.**

Press **+** or **–** to change values or select from available options. Then press **Select** to save changes and advance to the next System Setup number.

See "System Setup options" below for a full list of System Setup numbers and options.

Repeat until all of the System Setup options have been set. The thermostat will automatically save and exit to the Home screen.

23 **Continue to "System operation settings" on page 10.**

System Setup options

Number	Description	Options (factory default in bold)
120	Scheduling Options	0 = Non-Programmable 1 = 1-Week Programmable **2 = 5-2 Programmable** *Note: You can change default MO-FR, SA-SU schedule here. To edit periods during days, temperature setpoints, or to turn Schedule On/Off, touch MENU and go to SCHEDULE.*
125	Temperature Indication Scale	**0 = Fahrenheit** 1 = Celsius
200	Heating System Type	**1 = Conventional Forced Air Heat** 2 = Heat Pump 3= Radiant Heat (Boiler) 5 = None (Cool Only) *Note: This option selects the basic system type your thermostat will control.*
205	Heating Equipment Type	*Conventional Forced Air Heat:* 1 = Standard Efficiency Gas Forced Air **2 = High Efficiency Gas Forced Air** 3 = Oil Forced Air 4 = Electric Forced Air 5 = Hot Water Fan Coil *Heat Pump:* **7 = Air to Air Heat Pump** *Radiant Heat:* **9 = Hot Water Radiant Heat** 12 = Steam *Note: This option selects the equipment type your thermostat will control. Note: This feature is NOT displayed if feature 200 is set to Cool Only.*

Number	Description	Options (factory default in bold)
218	Reversing Valve O/B	**0 = O (O/B in Cool)** 1 = B (O/B in Heat) *Note: This option is only displayed if the Heat Pump configured. Select whether reversing valve O/B should energize in cool or in heat.*
220	Cool Stages / Compressor Stages 200=Conv / 200=HP	0, **1**, 2 *Note: Select how many Cool or Compressor stages of your equipment the thermostat will control. Maximum of 2 Cool stages or 1 Compressor stage. Set value to 0 if you do not have Cool Stage/Compressor Stage.*
221	Heat Stages / Backup Heat Stages Heat Stages	Heat Stages: **1**, 2 Backup Heat Stages: 0, **1** *Note: Select how many Heat or Aux/E stages of your equipment the thermostat will control. Maximum of 2 Heat Stages for conventional systems. Maximum of 1 Aux/E stage for systems with more than 1 heating equipment type. Set value to 0 if you do not have Heat Stage/ Backup Heat Stage.*
300	System Changeover	**0 = Manual** 1 = Automatic *Note: Thermostat can automatically control both heating and cooling to maintain the desired indoor temperature. To be able to select "automatic" system mode on thermostat home screen, turn this feature ON. Turn OFF if you want to control heating or cooling manually.*
425	Smart Response	0 = No **1 = Yes** *Note: Smart Response is a comfort setting. Heat or Cooling equipment will turn on earlier, ensuring the indoor temperature will match the setpoint at the scheduled time. See page 15.*
711	Air Filter 1 Replacement Reminder	**0 = Off** 10 = 45 Calendar Days 1 = 10 Run Time Days 11 = 60 Calendar Days 2 = 20 Run Time Days 12 = 75 Calendar Days 3 = 30 Run Time Days 13 = 3 Calendar Months 4 = 45 Run Time Days 14 = 4 Calendar Months 5 = 60 Run Time Days 15 = 5 Calendar Months 6 = 90 Run Time Days 16 = 6 Calendar Months 7 = 120 Run Time Days 17 = 9 Calendar Months 8 = 150 Run Time Days 18 = 12 Calendar Months 9 = 30 Calendar Days 19 = 15 Calendar Months *Note: Set a reminder for when to change your air filter. Choose either calendar or equipment run time-based reminder.*
1415	Daylight saving time	0 = Off **1 = On** *Note: Set to Off in areas that do not follow Daylight Saving Time.*

NOTE: Once you have cycled through all of the System Setup numbers, **Done** is displayed. Press **Select** to save and exit.
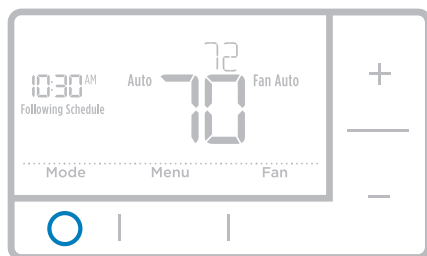
System operation settings

1 Press the **Mode** button to cycle to the next available System mode.

2 Cycle through the modes until the required System mode is displayed and leave it to activate.

NOTE: Available System modes vary by model and system settings.

System modes:
  – **Auto:** Thermostat selects heating or cooling as needed.
  – **Heat:** Thermostat controls only the heating system.
  – **Cool:** Thermostat controls only the cooling system.
  – **Em Heat (only for heat pumps with auxiliary heat):** Thermostat controls Auxiliary Heat. Compressor is not used.
  – **Off:** Heating and cooling system is off. Fan will still operate if fan is set to On.

NOTE: Heat On/Cool On may flash for 5 minutes due to compressor protection.
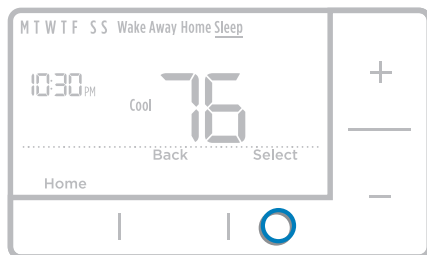
Fan operation settings

1 Press the **Fan** button to cycle to the next available Fan mode.

2 Cycle through the modes until the required Fan mode is displayed and leave it to activate.

NOTE: Available Fan modes vary with system settings.

Fan modes:
  – **Auto:** Fan runs only when the heating or cooling system is on.
  – **On:** Fan is always on.

Program Schedule

You can program four time periods each day, with different settings for weekdays and weekends. We recommend the pre-set settings (shown in the table below), since they can reduce your heating/cooling expenses.

Wake - Set to the time you wake up and the temperature you want during the morning, until you leave for the day.

Away - Set to the time you leave home and the temperature you want while you are away (usually an energy-saving level).

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

Sleep - Set to the time you go to bed and the temperature you want overnight (usually an energy-saving level).

	Heat	Cool
Wake (6:00 am)	70°	78°
Away (8:00 am)	62°	85°
Home (6:00 pm)	70°	78°
Sleep (10:00 pm)	62°	82°

The above table is only an example.

NOTE: To temporarily or permanently override any of the above program schedules, see page 12.

To adjust program schedules

1 Press **Menu** on your thermostat.

2 If **PROG** is displayed, press **Select**. If **Hold** is displayed, press +, then **Select**. Then **ON** is displayed. Press **Select**.

3 Press **+** or **–** to select day or set of days to edit. Press **Select**.

4 Press **+** or **–** to select a schedule period to edit (Wake, Away, Home, and Sleep). Press **Select**.

5 **ON** is displayed. Press **Select** to keep the schedule period on. Or press **+** and then **Select** to turn off the schedule period.

6 Time starts blinking. Press **+** or **–** to adjust the schedule period start time. Press **Select**.

7 Temperature starts blinking. Press **+** or **–** to adjust the "Heat" setpoint temperature. Press **Select**. Press **+** or **–** to adjust the "Cool" temperature setpoint. Press **Select**.

8 Repeat steps 4 through 7 for the remaining schedule periods.

9 Press **Home** when you're finished to save program settings and return to the home screen.
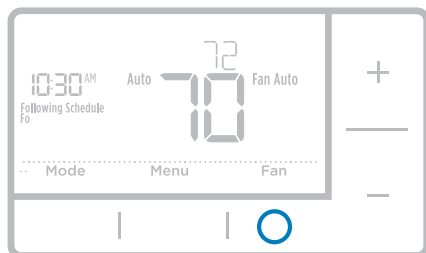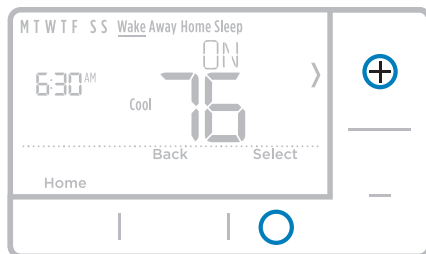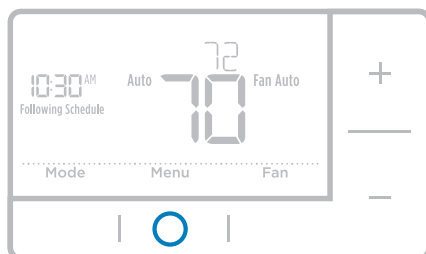
Program schedule override (temporary)

1 Press **+** or **−** to adjust the temperature.

2 Once at the desired setpoint temperature, no further action is needed. The new setpoint temperature will be held until the next scheduled time period begins. For more information on schedule time periods, see "Program Schedule" on page 11.

3 To cancel the Temporary Hold, Press **+** or **−** and then press **Cancel**.
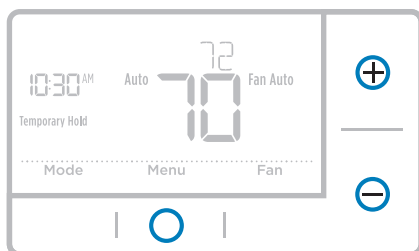
Program schedule override (permanent)

1 Press **+** or **−** to adjust the temperature.

2 **TEMPORARY HOLD** is displayed and the setpoint temperature flashes. While it's flashing, press **Hold** (Mode) button to change to Permanent Hold.

3 To cancel the Permanent Hold, press **+** or **−** and then press **Cancel**.
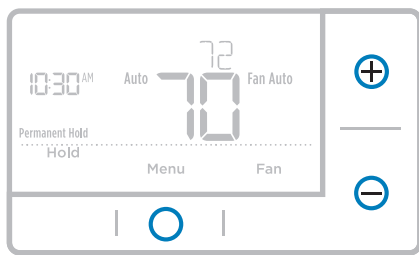
Wiring—conventional systems

Alternate wiring (conventional systems)

If labels do not match terminals, connect wires as shown below (see notes, below).

NOTES:

1. If you must connect both **R** and **Rc** wires, set the R Slider Tab to the **down** position (2 wires).

2. If your old thermostat had both **R** and **RH** wires, set the R Slider Tab to the **down** position (2 wires). Then connect the **R** wire to the **Rc** terminal, and the **RH** wire to the **R** terminal.

3. If your old thermostat had only 1 **C** or **C1** wire, connect it to the **C** terminal. If your old thermostat had 2 **C** or **C1** wires, wrap each separately with electrical tape and do not connect them.

4. **C** does not power the thermostat display or operations; batteries are always required.
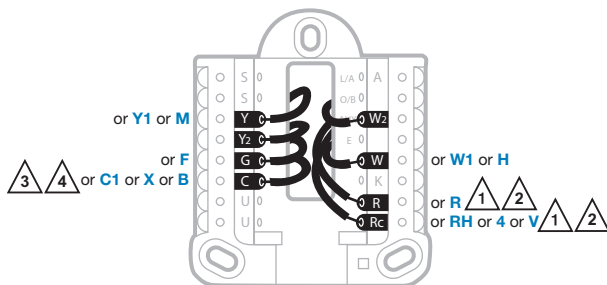
Wiring—heat pump

Connect wires: heat pump

1 Match each labeled wire with same letter on new thermostat.
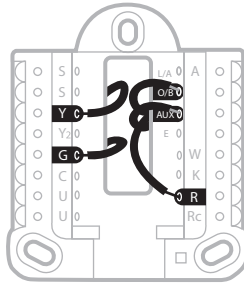**2** Insert the wires into the matching terminal.

 NOTE: If you have difficulty inserting wires, you may have to press down the terminal push button next to the corresponding terminal.

 Labels don't match?

 If labels do not match letters on thermostat, see page 12.

Alternate wiring (for heat pumps only)

NOTES:

1. Keep R Slider Tab in the **up** position (1 wire).
2. If your old thermostat had both **V** and **VR** wires, stop now and contact a qualified contractor for help.
3. If your old thermostat had separate **O** and **B** wires, attach the **B** wire to the **C** terminal. If another wire is attached to the **C** terminal, stop now and contact a qualified contractor for help.
4. If your old thermostat had **Y1**, **W1** and **W2** wires, stop now and contact a qualified contractor for help.
5. **C** does not power the thermostat display or operations; batteries are always required.
6. This model doesn't support the heat pump fault alert (L/A terminal). If this is desired, please contact a contractor for replacement model.
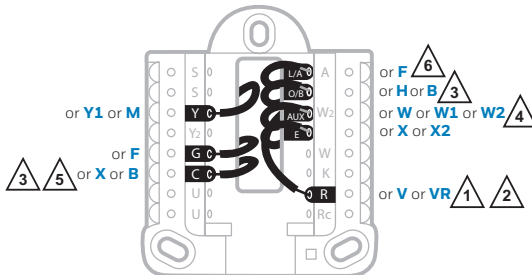
NOTE: Do **NOT** use **W** for heat pump applications. Auxiliary heat must wire to **AUX** or **E**.

Advanced menu

1 Press and hold **Menu** and **+** buttons for approximately 5 seconds to enter advanced menu.
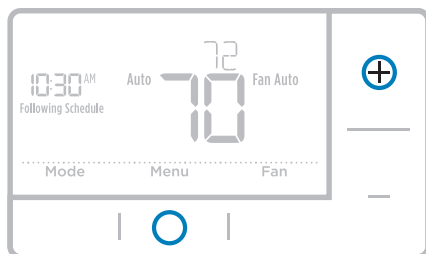
2 Press **Select** to enter System Setup (ISU) menu.

3 Press **Select** to cycle through System Setup numbers.

NOTE: See "System Setup options" on page 8 for a full list of System Setup numbers and options.

4 Press **+** or **–** to change values or select from available options.

5 Press **Select** to save changes and advance to the next System Setup number.
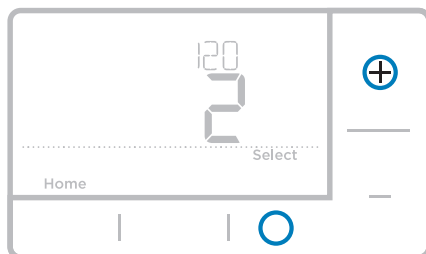
6 Once you have cycled through all of the System Setup numbers, "Done" is displayed. Press **Select** to save and exit.

To save and exit early, press **Home** to return to the Home screen.

Smart Response® Technology

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

Battery replacement

Batteries are required to provide power. Install fresh batteries immediately when the low battery icon appears. The icon appears about two months before the batteries are depleted.

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

If batteries are inserted within two minutes, the time and day will not have to be reset. All other settings are permanently stored in memory, and do not require battery power.

NOTE: When replacing batteries, alkaline batteries are recommended.

Setting the time

1 Press **Menu** to enter the device menu. You will see **PROG** or **Hold**. Press **+** or **–** to choose **TIME**.

2 Press **Select**.

3 **12HR** is displayed. Press **+** or **–** to choose a 12 hour clock or a 24 hour clock. Press **Select**.

4 Set the time. Press **+** or **–** to adjust the hour. Press **Select**.

5 Press **+** or **–** to adjust the minutes. Press **Select**.

6 Press **Select** to save and exit.

Set the date

1 Press **Menu** to enter the device menu. You will see **PROG** or **Hold**. Press **+** or **–** to chose **DATE**.

2 Press **Select**.

3 You will see the year blinking. Press **+** or **–** to adjust the year. Press **Select**.

4 Press **+** or **–** to adjust the month. Press **Select**.

5 Press **+** or **–** to adjust the day. Press **Select** to save and exit.

Setting degrees Fahrenheit (F) or Celsius (C)

1 Press **Menu** to enter the device menu. You will see **PROG** or **Hold**. Press **+** or **-** until **F/C** is displayed.

2 Press **Select**.

3 You will see **F** or **C** displayed.

4 Press **+** or **–** to adjust to the desired setting. **F** for Fahrenheit and **C** for Celsius. Press **Select** to save and exit.

Alert screen

1 You will see the alert icon ⚠ on the home screen. You can access alerts in the **Menu** to view the error/alert code. Once viewed the home screen will maintain the alert symbol until it is cleared.

2 Snoozed alerts will appear 7 days after dismissing them in the alerts menu screen.
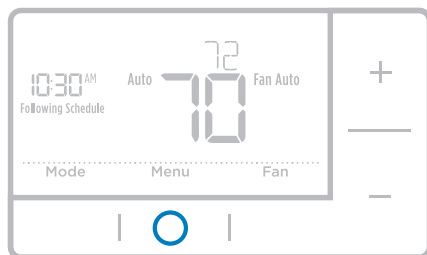
3 When the alert icon appears, check the error code with the table below to determine the problem.
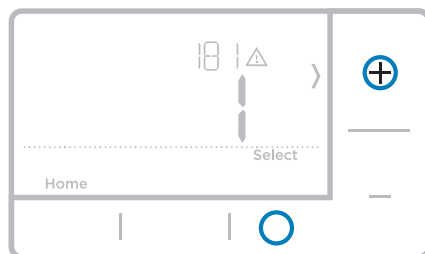
4 Snooze the alert.

5 Dismiss the alert.

Alerts codes

Number	Alert/Reminder	Definition
170	Internal Memory Error	The memory of the thermostat has encountered an error. Please replace the thermostat.
173	Thermostat Temperature Sensor Error	The sensor of the thermostat has encountered an error. Please replace the thermostat.
181	Replace Air Filter (1)	Replace air filter (1). Reset the timer by touching the "dismiss" button on thermostat screen after it is replaced.
405	Low Battery Alert	The batteries are getting low. Replace them within two months.
407	Critical Low Battery	The batteries are almost depleted and should be replaced as soon as possible.

Troubleshooting

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

Display is blank

Make sure fresh AA alkaline batteries are properly installed (see page 6).

Cannot change system setting to Cool

Check System Setup Option 220 to make sure the options are set to either 1 or 2 (see page 9).

Fan does not turn on when heat is required

Check System Setup Option 205 to make sure it is set to match your heating equipment (see page 8).

Heating system is running in cool mode

Check System Setup Option 200 or 218 to make sure it is set to match your heating and cooling equipment (see pages 8 and 9).

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.

Wait 5 minutes for the system to respond.

Heat On / Cool On flashing on the screen

Compressor protection feature is engaged. Wait 5 minutes for the system to restart safely, without damage to the compressor.

Heat pump issues cool air in heat mode, or warm air in cool mode

Check System Setup Option 200 or 218 to make sure it is set to match your heating and cooling equipment (see pages 8 and 9).

1–year limited 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 determined to be defective or malfunctions, Honeywell shall repair or replace it (at Honeywell'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 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, 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 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 Honeywell Customer Relations, 1985 Douglas Dr, Golden Valley, MN 55422 or call 1-800-468-1502. In Canada, write Retail Products ON15-02H, Honeywell Limited/ Honeywell Limitée, 35 Dynamic Drive, Toronto, Ontario M1V4Z9.

⚠ **CAUTION: ELECTRICAL HAZARD**
Can cause electrical shock or equipment damage. Disconnect power before beginning installation.

⚠ **CAUTION: MERCURY NOTICE**
If this product is replacing a control that contains mercury in a sealed tube, do not place the old control in the trash. Contact your local waste management authority for instructions regarding recycling and proper disposal.

⚠ **ALERT: HHW PROPER DISPOSAL**
This product is an electronic device and considered Household Hazardous Waste (HHW). It should not be disposed of with other household waste. Contact your local waste management authority for instructions regarding recycling and proper disposal.

Customer assistance

For assistance with this product, please visit **http://yourhome.honeywell.com**.

Or call Honeywell Customer Care toll-free at **1-800-468-1502**.
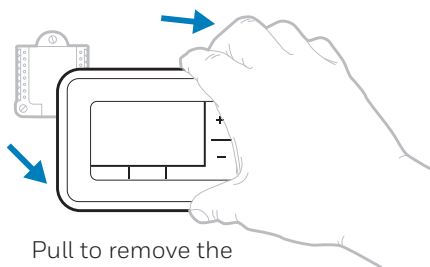
Pull to remove the thermostat from the UWP.

Home and Building Technologies

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