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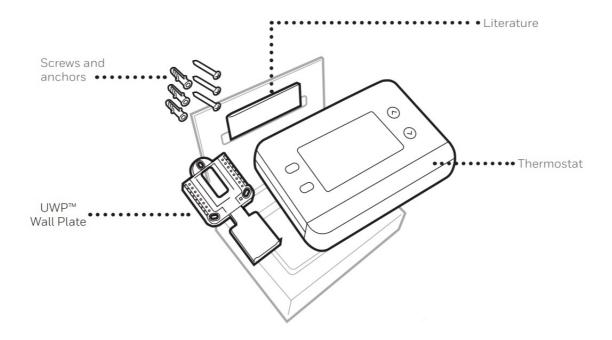
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Honeywell Home X1N Non Programmable Thermostat



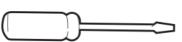
Package includes



TOOLS

Tools you will need





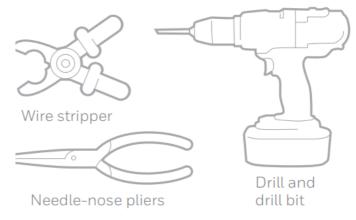
Small flat head screwdriver



Level M36270

0

Tools you may need



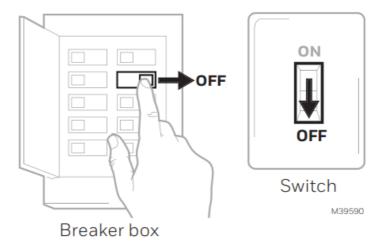
READ AND SAVE THESE INSTRUCTIONS

Installation and Wiring

Removing the old thermostat

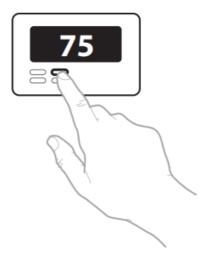
1. Turn power OFF.

 To protect yourself and your equipment, turn off the power at the breaker box or switch that controls your heating/cooling system. Note that some systems may have separate heating and cooling breakers.



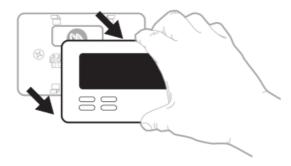
2. Check that your system is off.

 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



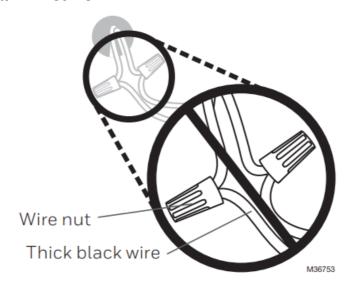
3. Remove the old thermostat's faceplate.

 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.



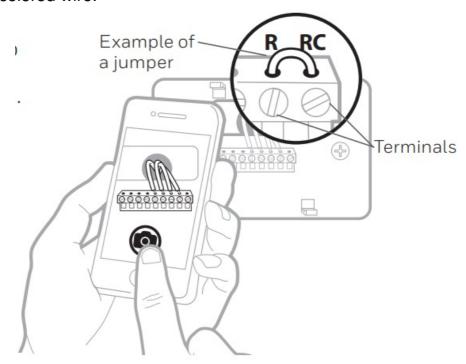
5. Take a picture of how your wiring looks right now.

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. Make note of any jumpers

 A jumper connects one terminal to another terminal. It may look like a small staple or even a colored wire.



7. Record whether you have wires in the following terminals. Do not include jumpers as a part of your count. This thermostat does not need jumpers.

Terminal	Wire Color
_ R _	
RH _	
Rc _	

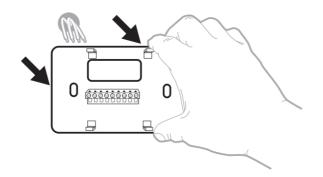
- 8. Write down the color of the wires.
 - Check mark the wires that are connected to terminals. Next to the check mark,
 write down the color of the wire. Do not include jumpers as a part of your count.
 - Check all that apply (Not all will apply):
 - Important: The X1N is for single-stage systems only. If unsupported wires are used, the thermostat will not operate the equipment as intended.

Terminal Wire Color	Terminal Wire Color
Y	A or L/A Not Supported
Y2 Not Supported	O/B
G	W2 or AUX Not Supported
С	☐ E Not Supported
	W
	·

M39566

9. Disconnect the wires and remove the old wall plate.

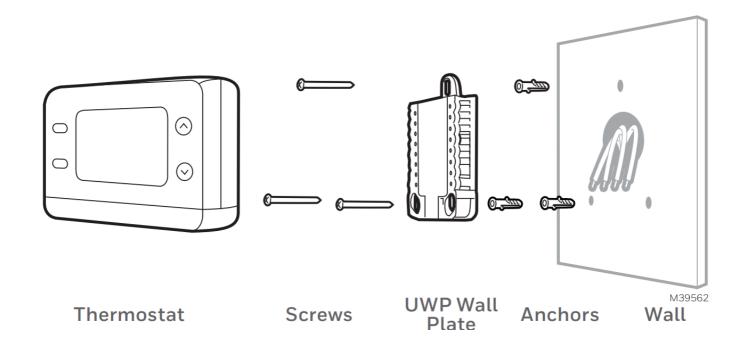
- Use a screwdriver to release wires from terminals. Then, use a wire label to identify each wire as it's disconnected. The letter on the wire label should match the letter on the terminal.
 - o Tip: To prevent wires from falling back into the wall, wrap the wires around a pencil.



Apply these each wire w terminal de remove it for thermostat.	ith the ap signation om the ex	propriate as you	collea	s du therr	spondant à	tant,	Coloque e designació en cada ci cables del	in de las te able al rem	rminales, over los
В	В	Y2	Y2	С	С	Е	Е	F	F
G	G	Н	Н	L	L	0	0	Р	Р
R	R	RC	RC	RH	RH	Т	т	U	U
V/VR	V/VR	W	W	W1	W1	W2	W2	W3	W3
×	X	X1	X1	X2	X2	Υ	Υ	Y1	Y1

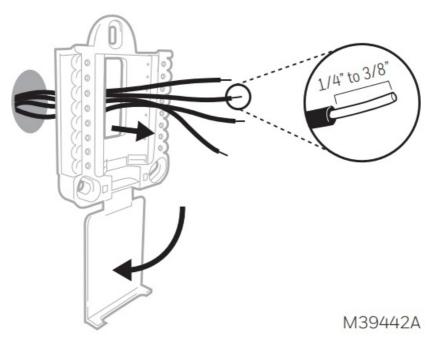
INSTALLATION

Installing Your X1N Thermostat



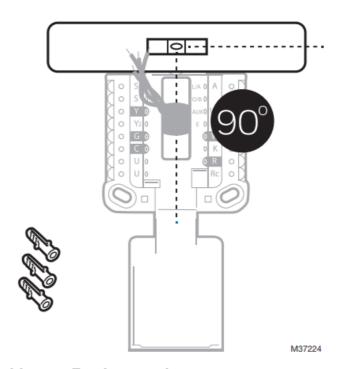
1. Bundle and insert wires through the UWP.

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.



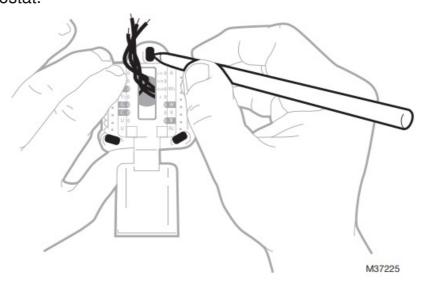
2. Insert the wall anchors.

- 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.
 - \circ a) Level the wall plate.
 - b) Mark the location of the wall anchors using a pencil.
 - c) Using a 3/16" bit, drill the holes.
 - o d) Insert wall anchors.
 - o e) Make sure anchors are flush with wall.



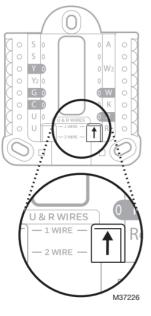
3. Set R-switch position and insert R-wire or wires.

• Set the R-switch up or down based on your wiring notes in Step 7 in Removing the old thermostat.

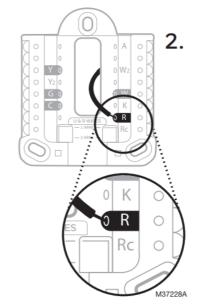


Insert wires into the inner holes of the terminals on the UWP. The tabs will stay down once the wire is inserted. Various wiring options are shown on the following pages

If you have 1 R-wire (R,Rh, or Rc)

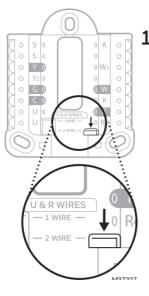


1. Set R-switch to the **up position**.

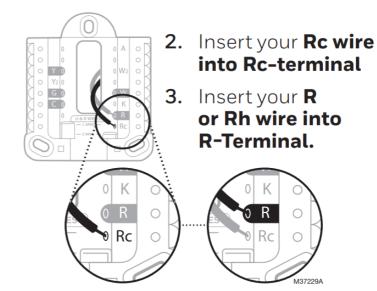


Insert your
R-wire (R, Rh
or Rc) into
R-terminal.

If you have 2 R-wires (R or Rh, and Rc)



1. Set R-switch to the **down position**.



Wiring

If labels do not match terminals, connect wires as shown below.

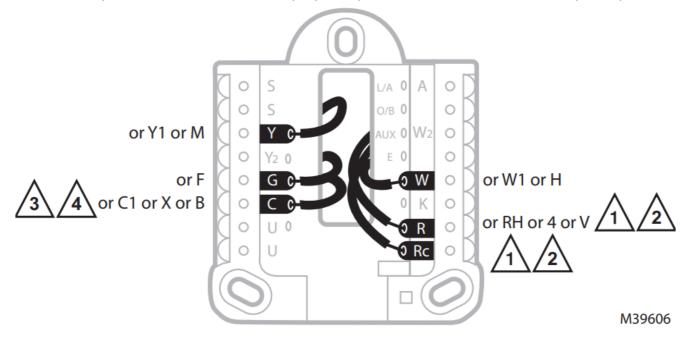
Conventional Systems

Alternate wiring (for conventional systems)

WIRING 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.

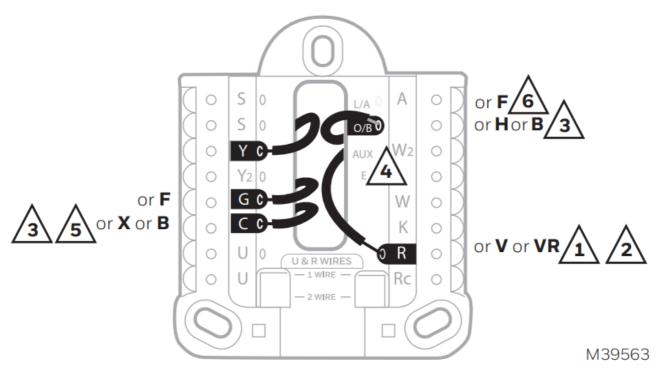


Heat Pumps

Alternate wiring (for heat pump systems only)

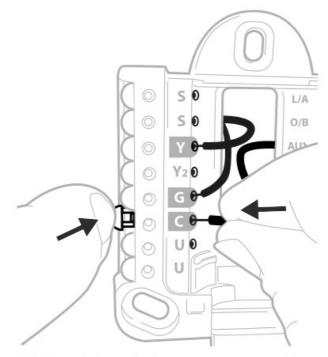
WIRING NOTES:

- 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 the O/B connection is used the thermostat will not support W, Aux/W2 or E wires.
- 5. C does not power the thermostat display or operations; batteries are always required.
- 6. This model does not support the heat pump fault alert (L/A terminal). If this is desired, please contact a contractor for a replacement model.



· Connect wires to the UWP.

 Refer to the notes you recorded on the chart during removal. 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.



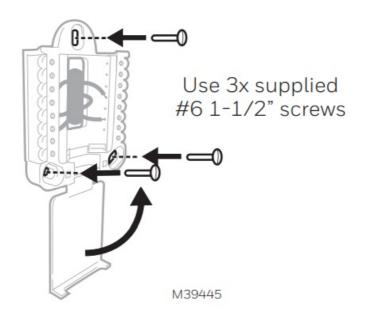
This wiring is just an example; yours may vary.

• Confirm wiring matches snapshot.

o Confirm wiring matches terminals from the photo you took during removal.

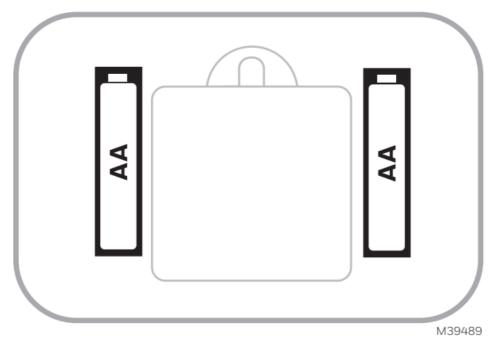
Mount the UWP and close the door.

 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.



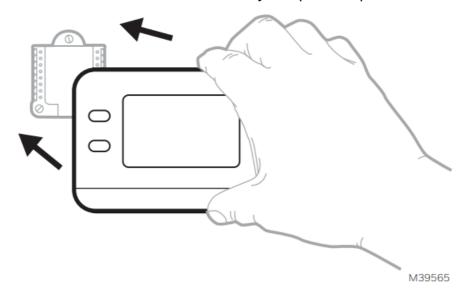
7. Install batteries.

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



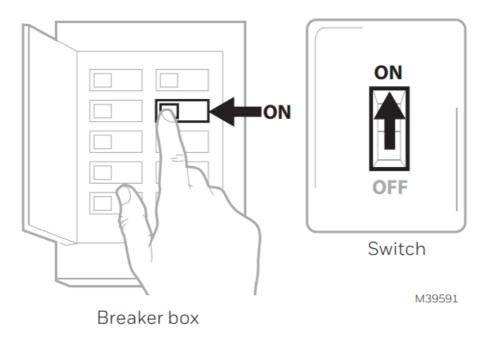
8. Attach the thermostat.

• Align the thermostat onto the UWP and firmly snap it into place.



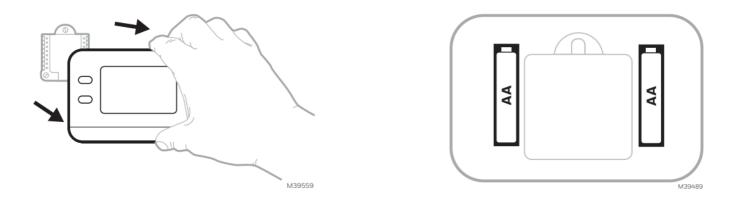
9. Turn the power ON.

 Turn on the power at the breaker box or switch that controls the heating/ cooling system.



Battery Replacement

The thermostat's display will let you know when the batteries are low and must be replaced. Remove the thermostat by pulling it away from its mount as seen at left below.



Be sure to use fresh AA batteries and insert them as shown in the diagram at right above. After inserting the new batteries, align the thermostat with the mounting plate and push gently until the thermostat snaps back into place as seen in Step 8 above.

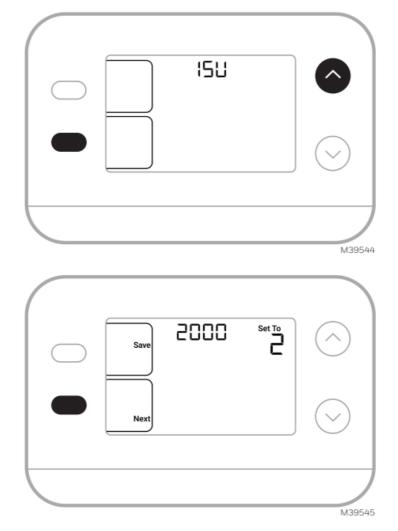
Configuration

System Setup

On initial setup, the thermostat will enter the ISU menu. If entering the ISU menu after

initial setup, follow the steps below:

- 1. Press and hold the bottom left button and Up arrow ↑ button for 5 seconds to access the INSTALLER SETUP (ISU)
- 2. The ISU number is on the left. The ISU setting is on the right. When an ISU number is displayed, press ↑ or ↓ to change the setting.
- 3. After choosing the correct setting for an ISU, press NEXT to advance to the next ISU setting.
- 4. To finish setup, press the DONE button.



Installer Setup Options (ISU)

Depending on system settings, not all options may be available

ISU	ISU Name	ISU Options (factory default in bold)
-----	----------	---------------------------------------

1050	Temperature Indication Scale	F = Fahrenheit $C = Celsius$ (Deliveration of the context of th	efault varies by model)
2000	Heating System Type	1 = Conventional Forc ed Air Heat 2 = Heat Pump	3 = Radiant Heat (Boiler) 5 = None (Cool Only)
If you are unsure what type of system you have, refer to your heating/cooling system e quipment literature or call an HVAC professional. If you select the wrong system type,			

the thermostat will not operate the equipment as intended.

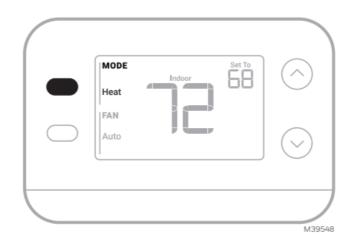
2010	Heating Equipment Typ	Conventional Forced Air Heat: 1 = Standard Efficiency Gas Forced Air 2 = High Efficiency Ga s Forced Air 3 = Oil Forced Air 4 = Electric Forced Air	5 = Hot Water Fan Coil ISU 2010 not shown w hen 2000 = Heat Pump Radiant Heat: 9 = Hot Water Radiant Heat 12 = Steam
2060	Reversing Valve O/B	0 = O (O/B on Cool. O wire is connected to th e O/B terminal and con trols cooling.) 1=B (O/B on Heat. B wir e is connected to the O/ B terminal and controls heat.)	The literature that came with your heat pump equipment should indica te whether the reversing valve is energized in He at or Cool mode.

2070	Cool Stages/Compress or Stages	0, 1		
2071	Heat Stages	Heat Stages: 1		
3000	System Changeover	0 = Hidden (Manual only) 1 = Enabled (Automatic available. In auto mode, the thermostat automatically switches between heating and coolin g to maintain the desired indoor temperature. This option is not recommended if the outdoor temperature often stays below 50°F [10°C] during winter months.)		
4103	Minimum Heat Setpoint	32°F to 50°F Default 40 ° F 0°C to 10°C Default 4 . 5 ° C	Do not set this lower than 140°F/4.5°C unless installed in a location where pipes a re not at risk of freezing.	

			10 =45 Calendar Days
		0 = Off	11 =60 Calendar Days
		1 = 10 Run Time Days	12 =75 Calendar Days
		2 = 20 Run Time Days	13 =3 Calendar Months
		3 = 30 Run Time Days	14 =4 Calendar Months
	Air Filter Replacement	4 = 45 Run Time Days	
	Reminder (Run Time o	F CO Dun Time Dave	15 =5 Calendar Months
	7110 nly counts the time that Heat, Cool or	counts the $5 = 60 \text{ Run Time Days}$	16 =6 Calendar Months
7110		6 = 90 Run Time Days	17 =9 Calendar Months
	Fan are running)	7 = 120 Run Time Days	18 =12 Calendar Month
		8 = 150 Run Time Days	s
		9 = 30 Calendar Days	19 =15 Calendar Month
			S
		0 – Minimum Information	shown
14005	Idle screen selection	0 – Millimum mormation	PHOMII
		2 – Maximum display info	rmation shown

System Operation Settings

- 1. Press the MODE button to cycle to the next available System mode
- 2. Cycle through the modes until the desired System mode is displayed
 - Available System modes vary with system settings.



System modes:

- AUTO
- HEAT
- COOL
- OFF

Fan Operation Settings

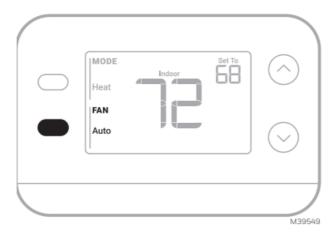
- 1. Press the FAN button to cycle to the next available Fan mode
- 2. Cycle through the modes until the desired Fan mode is displayed
 - Available Fan modes vary with system settings.

Fan modes:

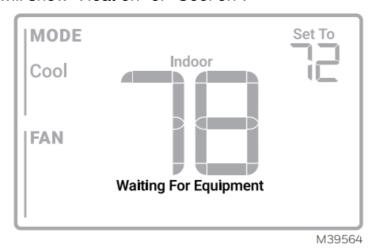
• AUTO: Fan runs only when the heating or cooling system is on

• ON: Fan is always on

• CIRC: Fan runs about 33% of the time to circulate air.



Damage can occur if your system's compressor is restarted too soon after shutdown. This feature forces the compressor to wait for a few minutes before restarting. During the wait time, the display will show the message Waiting For Equipment under the room temperature reading. When the safe wait time has elapsed, the message disappears, and the thermostat will show "Heat on" or "Cool on".



Alerts and Reminders

Alert Number	Alert Meaning
405	Low batteries (see Battery Replacement section)
407	Critically low batteries (see Battery Replacement section)
170	Thermostat memory failure
173	Internal Sensor Error. Issue with the built-in temperature sensor.
181	Replace filter (Reset this timer after replacing furnace filter by pressi ng and holding the upper left and lower right buttons for 5 seconds.)

- When an alert is active, an icon will appear in the lower part of the display.
 Pressing the lower left button, then the upper right button will show the alert # over the temperature reading.
- When the filter Reminder is active the Φ icon appears as well as Replace Filter.

Troubleshooting

Display is blank	Make sure fresh AA alkaline batteries are correctly installed (see Step 7 of the section Installing the Thermostat)		
	When running heat, display will show HEAT ON in lower rig ht of display		
	When running cool, display will show COOL ON in lower rig ht of display		
	If display shows WAITING FOR EQUIPMENT under tempe		
	rature reading, it is in compressor delay mode to protect the syst		
	em. Wait 5 minutes to see if the thermostat makes a Heat or Cool		
	call		
	If display does not indicate a call for Heat or Cool or WAITI		
Hankin u au aask	NG FOR EQUIPMENT, verify the mode setting, temperature setpo		
Heating or cooli ng does not	int and room temperature		
run	If the Up or Down arrow is pressed		
	Upper left of display shows mode setting		
	Upper right shows setpoint		
	Center of display shows room temperature		
	If the issue persists		
	Check circuit breaker and reset if necessary		
	Make sure power switch at heating & cooling system is on		
	Make sure furnace door is closed securely		

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Т

Heat runs with Cooling	 Verify there is not a wire attached to W for heat pump systems. See Wiring section For heat pump applications the reversing valve is energized in Heat on some heat pumps and Cool for other heat pumps. Verify that ISU 2060 is set correctly Verify that no wires are shorted. Look for exposed sections of wire at the UWP
Heat runs with no call for heat or cooling	 Verify display does not indicate HEAT ON or COOL ON Verify there is not a wire attached to W for heat pump syste ms. See Wiring section. Verify that no wires are shorted. Look for exposed sections of wire at the UWP
Cannot change setpoint to desi red setting	 Verify the mode setting (Heat, Cool or Auto in upper left of display) The setting ranges for these modes are: Heat: 32 °F to 90 °F (0 °C to 32.0 °C) Cool: 50 °F to 99 °F (10.0 °C to 37.0 °C)
WAITING FOR EQUIPMENT shown in display under room temperature	The compressor protection feature is engaged. Wait a few minutes for the system to safely restart to avoid damaging the compressor.

MORE INFORMATION

Regulatory Information

FCC REGULATIONS 47 CFR § 15.19 (a)(3)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

47 CFR § 15.21 (USA only)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Warranty

1-year Limited Warranty

For Warranty information go to <u>Honeywellhome.com/support</u>

47 CFR § 15.105 (b)

See https://customer.resideo.com/en-US/support/residential/codes-and-standards/FCC15105/Pages/default.aspx for additional FCC information for this product.

IC REGULATIONS

RSS-GEN

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- 1. This device may not cause interference.
- 2. This device must accept any interference, including interference that may cause undesired operation of the device.

CAUTION: ELECTRICAL HAZARD

 Can cause electrical shock or equipment damage. Disconnect power before beginning installation.

CAUTION: EQUIPMENT DAMAGE HAZARD

 Compressor protection is bypassed during testing. To prevent equipment damage, avoid cycling the compressor quickly.

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.

CAUTION: ELECTRONIC WASTE NOTICE

- The product should not be disposed of with other household waste. Check for the nearest authorized collection centers or authorized recyclers.
- The correct disposal of end-of-life equipment will help prevent negative consequences for the environment and human health.
- FCC statement available at: https://customer.resideo.com/en-
 US/support/residential/codes-and-standards/FCC15105/Pages/default.aspx

Customer Assistance

- For assistance with this product, please visit honeywellhome.com
- Or call Resideo Customer Care toll-free at 1-800-633-3991
- www.resideo.com

FAQs

• Q: Can the X1N thermostat be used with multi-stage HVAC systems?

 A: No, the X1N thermostat is designed for single-stage systems only. Using it with unsupported wires may result in improper equipment operation.

Q: What should I do if I have thick black wires with wire nuts?

 A: If you have thick black wires with wire nuts, you likely have a line voltage system, which is not compatible with the X1N thermostat. Please consult a professional for further assistance.

Documents / Resources



<u>Honeywell Home X1N Non Programmable Thermostat [pdf]</u> Installation G uide

RTH11B, RTHC11B, X1N Non Programmable Thermostat, X1N, Non Programmable Thermostat, Programmable Thermostat, Thermostat

References

- User Manual
- Honeywell Home

Website

► Honeywell Home, Non-Programmable Thermostat, PROGRAMMABLE THERMOSTAT, RTH11B, RTHC11B, Thermostat, X1N, X1N Non Programmable Thermostat

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