

Honeywell

Installation Guide



RTH6300B

Programmable Thermostat





MERCURY NOTICE: Do not place your old thermostat in the trash if it contains mercury in a sealed tube. Contact your local waste management authority for instructions regarding recycling and proper disposal.

Need Help?

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

Read and save these instructions

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Installation is easy – even if you've never done it before!

Your new thermostat has been designed for fast, easy installation. Just follow the simple, step-by-step instructions in the following pages.

Install in three simple steps

- Label wires and remove your old thermostat (see pages 5-8).
- Install and wire your new thermostat (see pages 9-15).
- Set your new thermostat to match your heating/cooling system (see pages 16-21).

Installation tips

- Have everything you need ready to go before you begin (see pages 3-4).
- Do not use wire color as a guide. Use wire labels instead (see page 8).

Pre-installation checklist

Check to make sure your package includes the following items:



RTH6300B thermostat
(wallplate attached to back)



Quick
reference
card



Operating manual



Wall anchors and
mounting screws
(2 each)



Caution card



Wire labels

Pre-installation checklist

Required tools & supplies

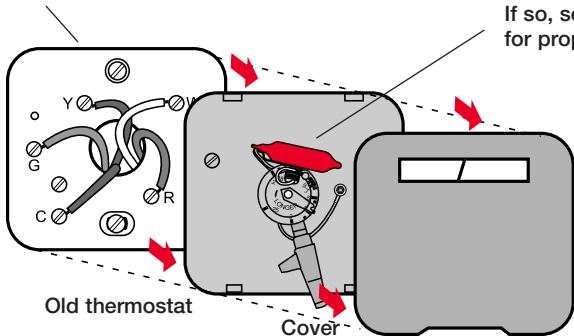
- No. 2 Phillips screwdriver
- Small pocket screwdriver
- Drill
- Drill bit (3/16" for drywall, 7/32" for plaster)
- Hammer
- Pencil
- Electrical tape
- Level (optional)
- Two fresh AA alkaline batteries

Remove your old thermostat

- 1 **Turn off power** at heating/cooling system (or fuse/circuit-breaker panel).
- 2 Remove cover and thermostat, but leave wallplate with wires attached.

Leave wallplate in place

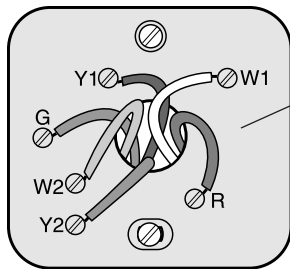
Is there a sealed tube containing mercury?
If so, see inside front cover of this manual
for proper disposal instructions.



Did you purchase right thermostat? Count wires to check.

Count the number of wires coming out of the wall and attached to terminals in your old thermostat. If any of them are attached to a terminal marked “C” or “C1” do not count that wire in your total.

If the total (not counting C or C1) is 5 wires or less, proceed to the next page. If you have 6 or more wires, your new thermostat may not be compatible with your system. Stop installation and call 1-800-468-1502 for advice.



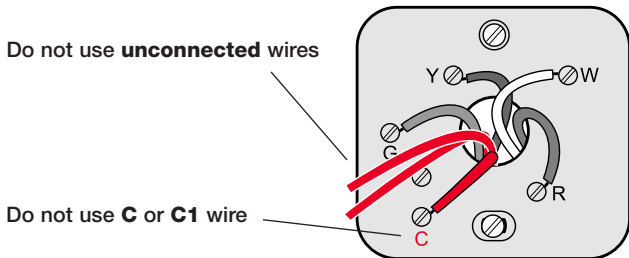
Do you have 6 or more wires? If so, stop now. You may have purchased the wrong replacement thermostat.

Identify wires you will not use

If any wires are not attached to terminals in your old thermostat, do not connect them to your new thermostat.

If a wire is attached to a terminal marked “C” or “C1,” disconnect it. You will not connect it to your new thermostat.

Wrap the bare metal ends of each unused wire with electrical tape, so it cannot touch and short out other wires.



Label wires and remove old wallplate

Use a screwdriver to disconnect wires one by one. As you disconnect each wire, wrap it with the label matching the letter on your old thermostat. (Adhesive labels are supplied in your thermostat package.)

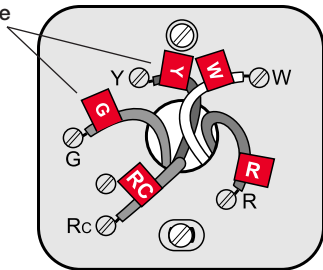
Remove the old wallplate only after all wires are labeled. Be careful not to let loose wires fall into the wall opening.

Wrap supplied labels securely around each wire

Do not let wires fall into wall opening!

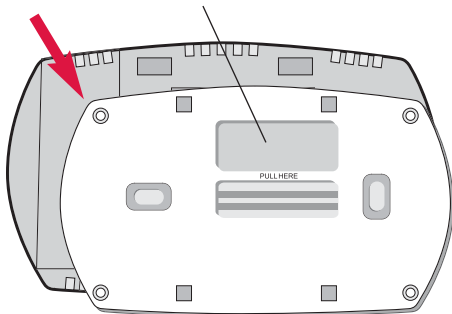


IGNORE WIRE COLORS: Use only letter designations to identify wire types.



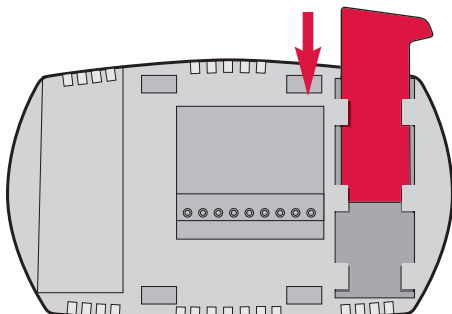
Remove wallplate and install quick reference card

Insert finger into wire hole and pull to remove wallplate from new thermostat.



Wallplate

Insert quick reference card into slot in back of thermostat.



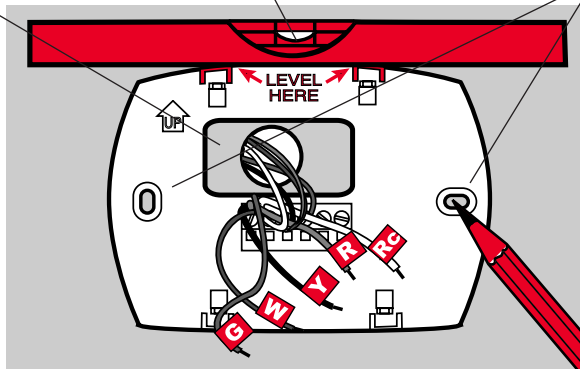
Thermostat

Mark wallplate mounting position

1 Pull wires through wallplate

2 Level wallplate if desired
(lay level across tabs)

3 Mark positions of
both screw holes

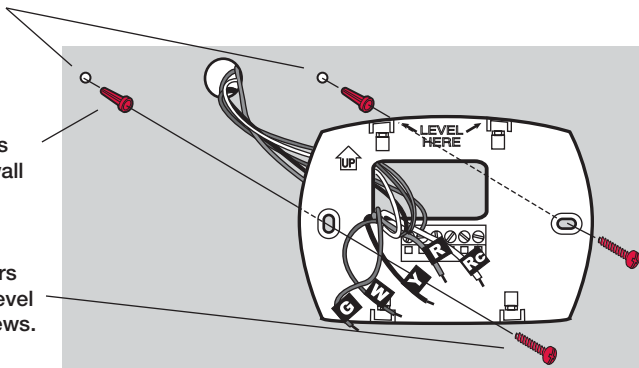


Mount wallplate

- 1 Drill holes at pencil-marked locations
3/16" holes for drywall
7/32" holes for plaster

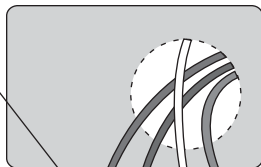
- 2 Use hammer to tap anchors into holes until flush with wall

- 3 Place wallplate over anchors and insert screws. Check level if desired, then tighten screws.

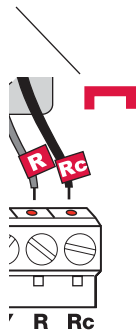
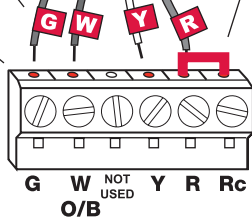


Connect wires (typical installation)

- 1 Match each labeled wire with same letter on terminal
- 2 Use a screwdriver to loosen screw terminals, insert wires, then tighten screws
- 3 Push any excess wire back into the wall opening.



Remove metal jumper if you have both "R" and "Rc" wires



Labels don't match?

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

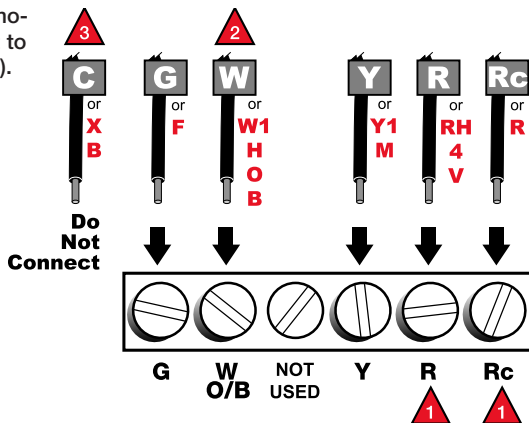
Connect wires (less common wire designations)

If labels do not match letters on the thermostat, check the chart at right and connect to terminal as shown here (see notes, below).

1 If wires will be connected to both **R** and **Rc** terminals, remove metal jumper (see page 12).

2 Do not connect both **O** and **B** if you have a heat pump. Connect **O** wire to O/B W. Wrap **B** wire with electrical tape and do not use.

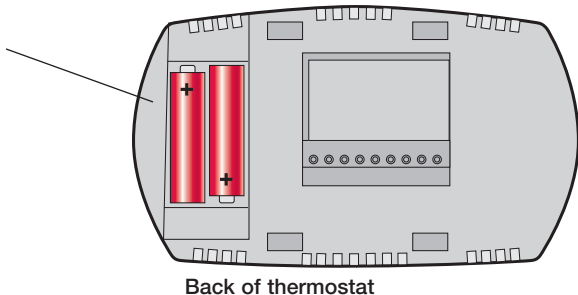
3 Do not use C, X or B. Wrap bare end of wire with electrical tape.



Install batteries

Install two fresh AA alkaline batteries in back of thermostat.

After installation, batteries can be changed without removing the thermostat from the wall (see Operating Manual for more information).

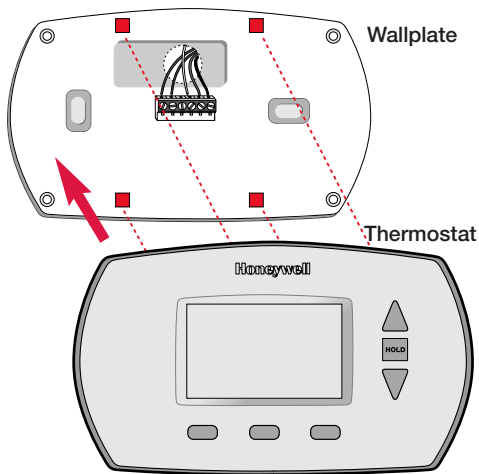


Mount thermostat and restore electrical power

- 1 Align the 4 tabs on the wallplate with corresponding slots on the back of the thermostat, then push gently until the thermostat snaps into place.
- 2 Restore electrical power at the heating/cooling system, or at the fuse/circuit-breaker panel.

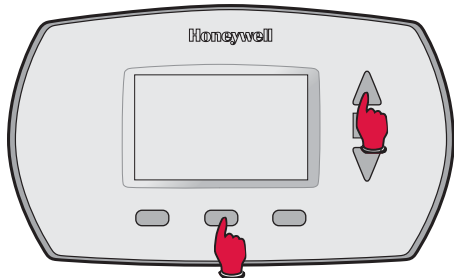


TIP: If wires interfere when you try to mount the thermostat, push excess wire back into the wall opening.

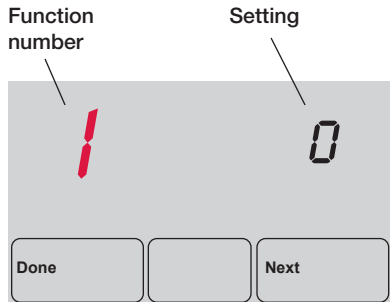


System setup (set thermostat to match your system)

Next, you must set the thermostat to control the heating and cooling system in your home. Press and hold the ▲ and **FAN** buttons to enter system setup.



To begin, press and hold the ▲ and **FAN** buttons until the display changes:



Press ▲ or ▼ to change settings.
Press **NEXT** to advance to next function.
Press **DONE** to exit and save settings.

Function 1: System type



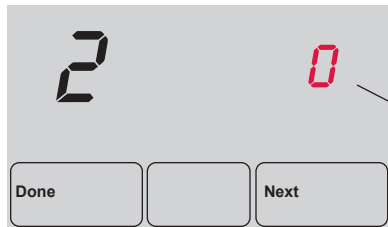
Press the ▲ or ▼ button to select the type of climate control system you have in your home:

- 0 Heating & cooling:** Gas, oil or electric heating with central air conditioning.
- 1 Heat pump:** Outside compressor provides both heating and cooling.
- 2 Heating only:** Gas, oil or electric heating without central air conditioning.
- 3 Heating only with fan:** Gas, oil or electric heating without central air conditioning. (Use this setting if you could turn the fan on and off with a fan switch on your old thermostat.)



Press to change setting. When correct setting is selected, press **NEXT** to display next function.

Function 2: Heat pump changeover valve



Press the ▲ or ▼ button to select whether your changeover valve is used in heating or cooling:

- 0 Cooling changeover valve:** Use this setting if you connected a wire labeled “O” to the O/B W wire terminal (see page 13).
- 1 Heating changeover valve:** Use this setting if you connected a wire labeled “B” to the O/B W wire terminal (see page 13).



Press to change setting. When correct setting is selected, press **NEXT** to display next function.



Note: If Function 2 does not appear, please turn to the next page to continue.

Function 3: Heating fan control



Press the ▲ or ▼ button to select your heating system and fan operation:

- 0 Gas or oil heat:** Use this setting if you have a gas or oil heating system (system controls fan operation).
- 1 Electric heat:** Use this setting if you have an electric heating system (thermostat controls fan operation).

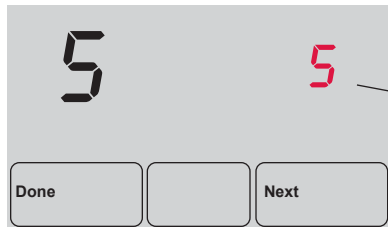


Press to change setting. When correct setting is selected, press **NEXT** to display next function.



Note: If Function 3 does not appear, please turn to the next page to continue.

Function 5: Heating cycle rate



Press to change setting. When correct setting is selected, press **NEXT** to display next function.

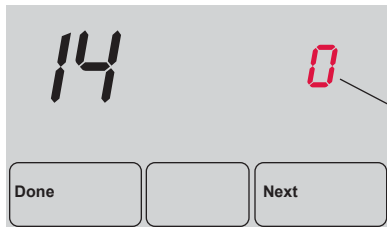
Press the ▲ or ▼ button to select your heating system and optimize its operation:

- 5 Gas or oil furnace:** Use this setting if you have a standard gas or oil furnace that is less than 90% efficient.
- 9 Electric furnace:** Use this setting if you have any type of electric heating system.
- 3 Hot water or high-efficiency furnace:** Use this setting if you have a hot water system or a gas furnace of greater than 90% efficiency.
- 1 Gas/oil steam or gravity system:** Use this setting if you have a steam or gravity heat system.



Note: If Function 5 does not appear, please turn to the next page to continue.

Function 14: Temperature display



Press the ▲ or ▼ button to select Fahrenheit or Celsius temperature display:

- 0 Fahrenheit temperature display (°F)
- 1 Celsius temperature display (°C)



Press to change setting. When correct setting is selected, press **DONE** to exit and save changes.

In case of difficulty

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

Display is blank • Make sure fresh AA alkaline batteries are properly installed (see page 14).

Temperature settings do not change 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).

Cannot change system setting to Cool • Check Function 1: System Type to make sure it is set to match your heating and cooling equipment (see page 17).

Fan does not turn on when heat is required • Check Function 3: Heating Fan Control to make sure it is set to match your heating equipment (see page 19).

In case of difficulty

Heating or cooling system does not respond

- Press **SYSTEM** button to set system to Heat. Make sure the temperature is set higher than the Inside temperature.
- Press **SYSTEM** button 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.

“Cool On” or “Heat on” is flashing

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

In case of difficulty

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

- Check Function 2: Heat Pump Changeover Valve to make sure it is properly configured for your system (see page 18).

Heating and cooling equipment running at the same time (or heat does not turn off)

- Check Function 1: System Type to make sure it is set to match your heating and cooling equipment (see page 17).
- Grasp and pull thermostat away from wallplate. Check to make sure bare wires are not touching each other (see page 12).

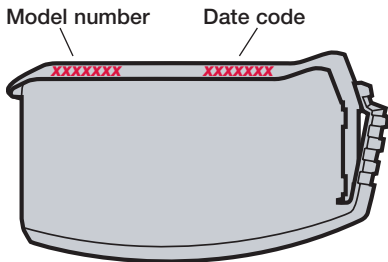
Heating system is running in cool mode

- Check Function 1: System Type to make sure it is set to match your heating and cooling equipment (see page 17).

Customer assistance



For assistance with this product, please visit www.honeywell.com/yourhome. Or call Honeywell Customer Care toll-free at **1-800-468-1502**.



To save time, please remove the battery holder and note your model number and date code before calling.

Accessories/replacement parts

To order, please call Honeywell Customer Care toll-free at **1-800-468-1502**.

Battery holder.....Part No. 50007072-001
Cover plate assemblyPart No. 50002883-001
(Use to cover marks left by old thermostats.)

Limited 1-year 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, 1885 Douglas Dr. N., Golden Valley, MN 55422, or whether a replacement product can be sent to you.

Limited 1-year warranty

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.

Limited 1-year warranty

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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 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, Scarborough, Ontario M1V4Z9.

Honeywell

Automation and Control Solutions

Honeywell International Inc.
1985 Douglas Drive North
Golden Valley, MN 55422

Honeywell Limited-Honeywell Limitée
35 Dynamic Drive
Scarborough, Ontario M1V 4Z9

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