Honeywell

Heating, Air Conditioning or Heating/Air Conditioning Thermostats

INSTALLATION INSTRUCTIONS

The CT50A is for most gas and oil heating-only systems. The CT50C is for most electric

air conditioning-only systems. The CT51A is for most gas, oil, or electric heating/electric air conditioning systems.

The CT53A is for millivoltage heating systems.

Do-it-yourself models CT50A,C; CT51A; CT53A



CT51A shown

If you are unsure about wiring

procedures, please call a

YOUR NEW THERMOSTAT

Your new Honeywell CT50A Heating Thermostat will replace most 15 to 30 V, 2-wire heating system thermostats. The CT50A is suitable only for gas or oil heating systems (NOT for air conditioning, heating/air conditioning, heat pump or electric heating systems).

Your new CT50C Cooling Thermostat will replace most 15 to 30 V, 3-wire air conditioning system thermostats (NOT for heating, heating/air conditioning or heat pump systems).

Your new CT51A Heating/Cooling Thermostat will replace most 15 to 30 V, 4-wire, heating/cooling system thermostats. The CT51A is suitable for gas, oil or electric heating/electric air conditioning systems (NOT for heat pumps).

Your new CT53A Heating Thermostat is suitable for 250, 500 or 750 millivolt (mV) heating systems only.

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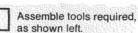
PREPARATION

Proper installation of your new thermostat will occur if you follow instructions STEP-BY-STEP. It is recommended that as you read, understand and complete each step, you check ✓ it off with pencil or pen.

qualified service technician for THERMOSTAT section, above. assistance. FLAT BLADE HAND OR POWER DRILL WITH 3/16 INCH DRILL BIT SCREWDRIVER WIRE CUTTER/STRIPPER OR SHARP KNIFE

> (FA) (ma) SPIRIT LEVEL OR PLUMB BOB AND LINE

Check thermostat suitability for your home's system by reviewing YOUR NEW



Make certain that your burner/air conditioner (where applicable) are working, especially if they have been inoperative for any length of time. If either does not work, contact your local heating/air conditioning dealer. Do NOT operate the air conditioning system if outdoor temperature is below 50° F [10° C].

Carefully unpack your new thermostat. Remove and discard the packing insert under the cover.

> Save package of screws and instruction pages.

anticipator adjustment mechanism. (See last illustration under step 4 to help you recognize the heat anticipator.) Make a note here [] of that anticipator setting for future reference. The heat anticipator pointer, if adjustable, will be set at one of a series of numbers representing the (electrical) current rating of the primary control of your system in amps. The number will range from 0.18 to 1.0. If no heat anticipator/indication is showing, do not be concerned; move on to the next step.

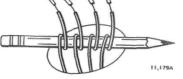
Loosen screws

holding thermostat

base to subbase or wall, and

lift away.

Disconnect wires from old thermostat or subbase. If your thermostat has more than 2 wires, as you disconnect each wire, tape the end and label it with the letter of the terminal designation to make reconnection to new thermostat easier. Take care that these wires do not fall back into the wall opening.



Keep the old thermostat for reference purposes until your new thermostat is functioning smoothly.



WIRE AND MOUNT THERMOSTAT

For CT50A: Connect each wire from the wall to either terminal on the back of the thermostat. Tighten the screws.

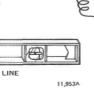
For CT50C or CT51A: Connect wires

from the wall to matching terminals on back of thermostat. Tighten the screws.

NOTE: If terminal designations on old thermostat do not match those on new thermostat, refer to chart below.

RH, M, VR, 4, A or R	Power	use this thermostat; we recommend a CT87B instead.	
		we recommend a	
RC, V, VC or B	Power	You have a 5-wire system, and cannot	
W or H	Heating	W	
Y or C	Cooling	Y	
G or F	Fan	G	
OLD THERMOSTAT TERMINAL MARKED	FUNCTION	NEW THERMOSTAT TERMINAL MARKED	

If using CT51A for ELECTRIC furnace systems, you may need to install a jumper between thermostat terminals 1 and 2. If your old subbase is a Q539G, Q539J, Q634D or Q634G, you need the jumper. If in doubt about old subbase number, see section 3. If jumper is needed and is not installed, the furnace could overheat, causing a fire hazard. Use 18 gauge insulated wire; strip ends before installing.



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STEP

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LIMITED ONE-YEAR WARRANTY

Honeywell warrants this product to be free from defects in workmonship or materials, under normal use and service, for a period of one (1) y om the date of purchase by the consumer. If, at any time during the warranty period, the product is defective or malturcitions. Honeywell a pair or replace (tal Honeywell's option) within a reasonable period of time.

Honeywell Inc.
Returned Goods Departm
1050 Berkshire Lane
Plymouth, MN 55441-440

In Canada: Honeywell Limited / Honeywell Limitee 740 Ellesmers Road Scarborough, Ontario M1P2V9

This warranty does not cover removal or reinstallation cods. This warranty shall not apply if it is shown by Honeywell that the defect or maintenden was caused by damage which occurs does not able the product was in the possession of a consumer. Honeywell's sole responsibility shall be repair or replace the product while the product within the series listed above. HONEYMELL SHALL NOT BE LARGE FOR ANY LOS OR DAMAGE RESULTING, OPRECITY OR NOTIFIES OR DAMAGES RESULTING, OPRECITY OR NOTIFIES ADJUST THE ONLY EXPRESS WARRANTY, EXPRESS OR IMPLED, OR ANY OTHER FAILURE OF THIS PRODUCT. Some states do not allow the sociation or immission or consequencil damage, so to be immission may not apply to you. THE ONE YEAR DURATION OF THE WARRANTY EXPRESS OR IMPLED, OR ANY OTHER FAILURE OF THIS PRODUCT. THE DURATION OF ANY IMPLED TO THE ONE YEAR DURATION OF ANY IMPLED TO THE ONE YEAR DURATION CONFINITIES OF MARKANTY SOME STATE OF CONSEQUENT AND THE SHALL AND THE SHALL BOWE THE WARRANTY IS THE ONLY EXPRESS on a diad within the other simulations on implement warranty lasts, so the above immutation may not apply to you. This warranty gives you specific legal lights, and you may have other rights which vary from state to state. If you have any questions concerning this warranty, Blase write our Consumer Aflairs department, Honeywell Limited/Honeywell Limited/Honeywell Limited/Pto TO This warranty N 15522-3486. In Canada—Honeywell Limited/Honeywell Limited. 740 Elleamere Road, Scatborough, Onland M1P2VP, or can the life at 1-80-468-1502.

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Mounting Hole (thermostat to wall or outlet box)

R.T. Rev. 9-97

Adjustable Heat Anticipator Setting Lever (CT50A, CT51A only)

Mounting Clips (for cover)

Fan Switch (CT51A only)

System Switch (CT51A only)

Bottom Mounting Hole

Temperature Setting Lever



REMOVING OLD THERMOSTAT

If you have an electric furnace, you need to determine how your fan is controlled. Turn it on and adjust your present thermostat so the heat comes on, while observing

when the fan comes on. If the fan comes on immediately you need to add the jumper noted in section 4 between terminals 1 & 2. If there is a noticeable delay before the fan comes on, there is no need to add the jumper because your furnace controls the fan.

Begin by turning off power to the heating/air conditioning system at the main fuse panel. Most residential systems have a separate switch box or circuit breaker for disconnecting power to the furnace.

Remove cover of old thermostatcover normally snaps off when pulled firmly from the bottom. If it resists, check for a screw that locks the cover on.

For CT50A or CT51A installation, before removing the old thermostat from the wall, look at it carefully to locate the heat

ostat.

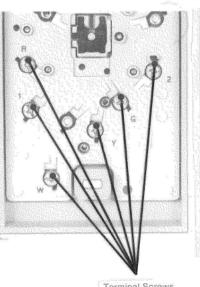
not match

MOSTAT MARKED

5-wire

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Terminal Screws (CT51A shown)

For CT53A:

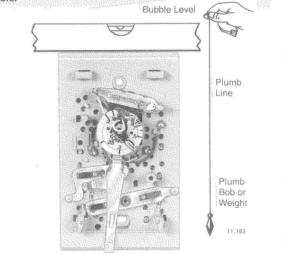
Connect wires to R and W for 750 mV systems. Connect to R and Y for 250 or 500 mV systems. Tighten the screws.

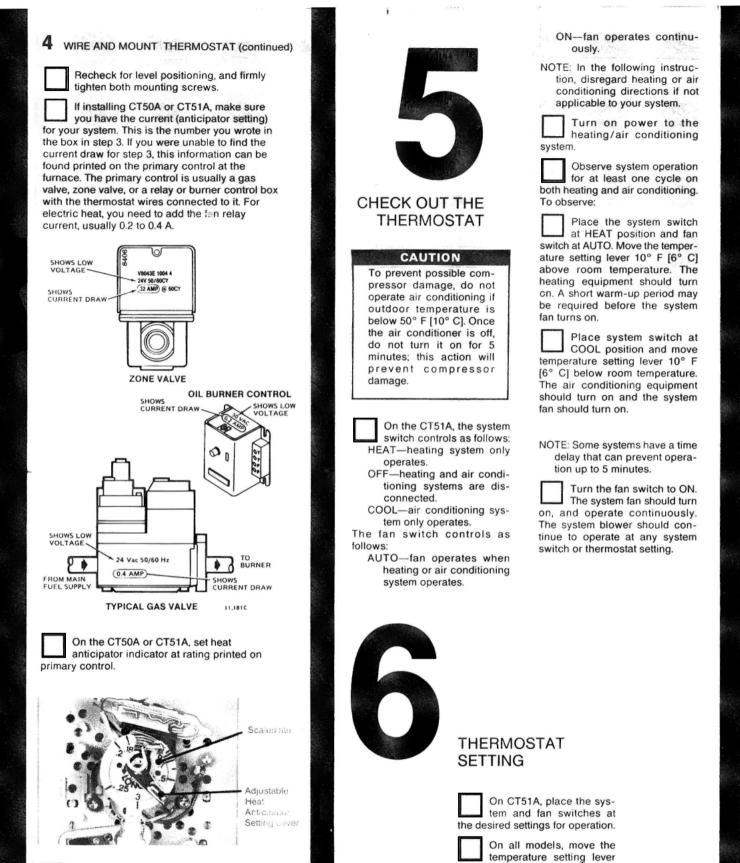
Push excess wire back into wall and plug hole with nonflammable insulation to prevent drafts from affecting thermostat operation.

Grasp the thermostat cover at the top and bottom with one hand. Pull outward on the bottom edge of the thermostat cover until it snaps free of the thermostat base.

Fasten thermostat to wall or vertical outlet box with a screw through the top mounting hole. See step 2 for hole location.

Place a bubble level or plumb line against the thermostat to find the level position. Start a screw in the center of the bottom mounting hole. Move the temperature setting lever if necessary to uncover the mounting hole.





to the desired temperature com-

fort level.

Press the thermostat cover firmly onto the mounting clips.

CAUTION

- If your anticipator is set too low, it may burn out.
- Shorting out your valve or control could cause your anticipator to burn out.

TROUBLESHOOTING

Your Honeywell thermostat requires little or no attention. Most problems can generally be traced to the following:

NOTE: If your system is heating-only or air conditioning-only, disregard sections not applicable to your system.

SYMPTOM	PROBLEM	CORRECTIVE ACTION	SYMPTOM	PROBLEM	CORRECTIVE ACTION	
No heat	System switch at OFF or COOL Position. Blown fuse or tripped circuit breaker. Furnace power switch is on OFF. No pilot flame.	Move switch to HEAT position. Replace fuse or reset circuit breaker. Switch to ON. Relight pilot flame per furnace manufacturer's	Thermostat setting and thermometer reading disagree.	and thermometer	ometer	Recheck the thermostat position on wall. Use a bubble level to make sure it's level. See step 4. Contact a qualified service technician to change the location. The thermostat should be about 5 ft [1.5 m] above the floor and on an inside wall.
	Improper connections to thermostat.	instructions. With power to furnace OFF, tighten all mounting and terminal screws. Re- pair frayed or broken wires.		Thermostat is out of cali- bration. Thermometer is out of calibration.	Contact a qualified service technician to recalibrate the thermostat. Recalibrate. See step 8.	
	Defective thermostat. (Here's how you tell: Remove the thermostat from the wall. Discon- nect wire from W ter- minal. Touch W wire to R terminal. The thermo- stat is detective if the burner comes on.) Other.	Exchange the thermostat (see Warranty).	No air condition- ing.	System switch in in OFF or HEAT position. Blown fuse or tripped circuit breaker. Compressor switch (lo- cated outdoors) is turned OFF. Improper connections to	Move switch to COOL position. Replace fuse or reset circuit breaker. Move switch to ON posi- tion. With power to furnace	
Furnace turns on and off.	Burner ON period is too short.	technician for assistance. Remove the thermostat cover and move the heat anticipator lever COUNTER- CLOCKWISE one scale mark. Replace the cover and wait several hours for the system to stabilize.		thermostat. Defective thermostat. (Here's how you tell: Remove the thermostat from wall. Disconnect wire from Y terminal. Touch Y wire to terminal	OFF, tighten all mounting and terminal screws. Re- pair broken wires. Exchange the thermostat. See Warranty.	
Major swings in temperature (greater than 2° F [1° C] when out- side temperature is stable).	Burner ON period is too long.	Remove the thermostat cover and move the heat anticipator lever CLOCK- WISE one scale mark. Replace the cover and wait several hours for the system to stabilize.		R. The thermostat is de- fective if the compressor starts. Some systems have a time delay, so allow at least 5 minutes.) See caution in section 5. Other.	Contact service techni- cian for assistance.	



ings.

RECALIBRATE THERMOMETER

If the thermostat set point and the thermometer reading do not agree, the thermometer may need recalibration. Follow the procedure below.



Remove thermostat cover.

Set the cover on a table near an accurate thermometer.

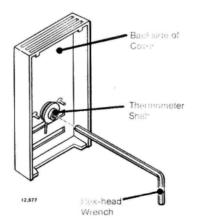
After allowing 5 or 10 minutes for stabilization, compare the read-

If the readings are the same, replace cover and put the system into operation.



If the readings are different, insert a hex-head wrench in the thermometer shaft and turn it until the thermometers have the same reading.

> Replace cover and put the system into operation.



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