

Honeywell

Installation Guide

FocusPRO® Wireless Thermostats

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Wireless control for up to 3 Heat/2 Cool heat pump systems or up to 2 Heat/2 Cool conventional systems.

Installation guide for:

Non-zoned systems

- Single thermostat with wireless Equipment Interface Module (EIM)

Zoned systems

- Up to 4 thermostats with TrueZONE™ panel & wireless adapter.



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.



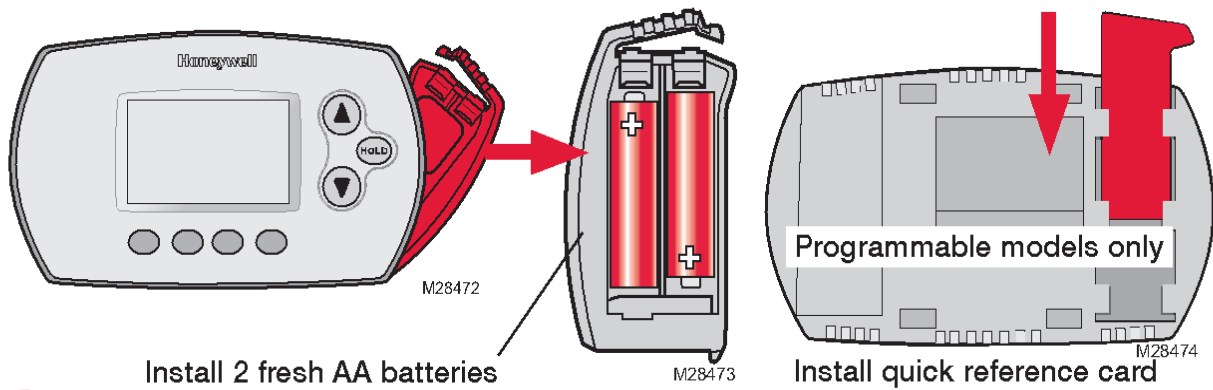
Must be installed by a trained, experienced technician. Read these instructions carefully. Failure to follow these instructions can damage the product or cause a hazardous condition.

Need Help?

For assistance with this product please visit <http://customer.honeywell.com>
or call Honeywell Customer Care toll-free at **1-800-468-1502**

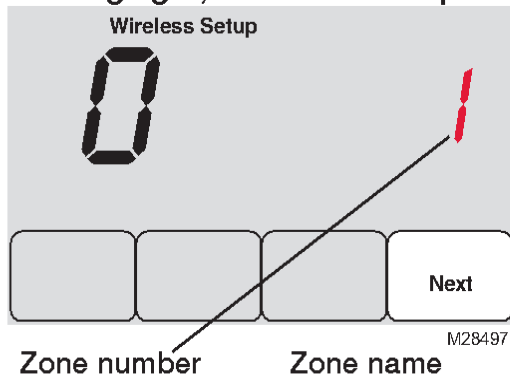


① Install batteries



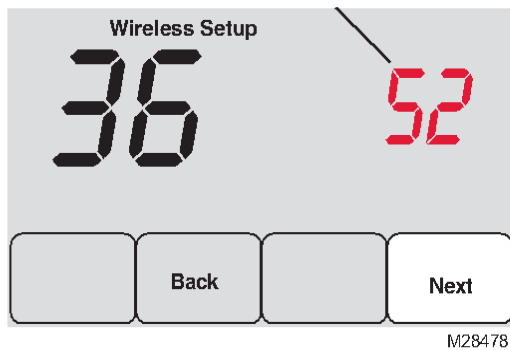
② Link thermostat(s) to wireless network

Press and release the **CONNECT** button at EIM or wireless adapter and wait for green flashing light, then follow steps below.



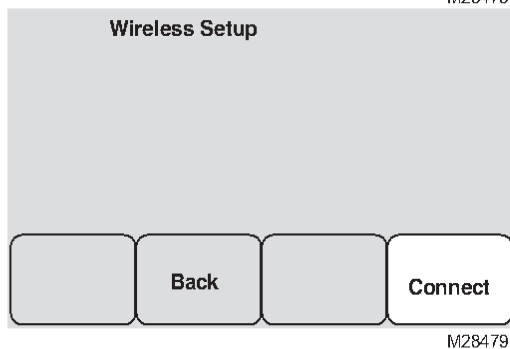
Installation with EIM: Press **NEXT** (leave zone number set to zero).

Installation with TrueZONE panel: Press ▲ or ▼ to set a zone number for this thermostat (1 to 4), then press **NEXT**.



Installation with EIM: Press **NEXT**.

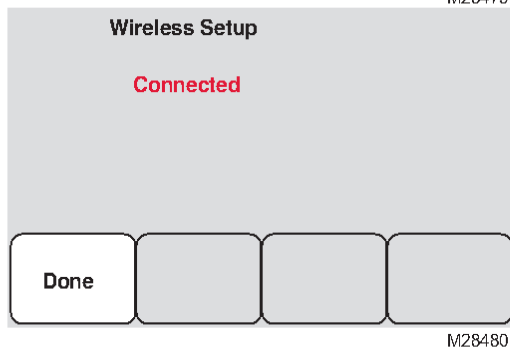
Installation with TrueZONE panel: Press ▲ or ▼ to select a name for this zone, then press **NEXT** (see list of names on page 6).



Press **CONNECT** to establish a link to the wireless network.



If E1 appears, see error codes on page 3.



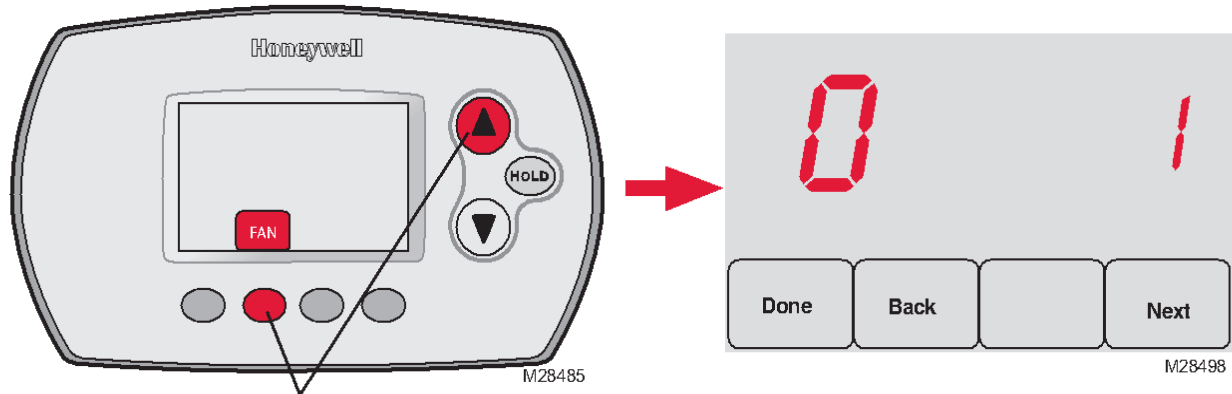
After a brief pause, the confirmation screen at left should be displayed, to verify that the wireless connection has been established.

Press **DONE** to display the home screen.

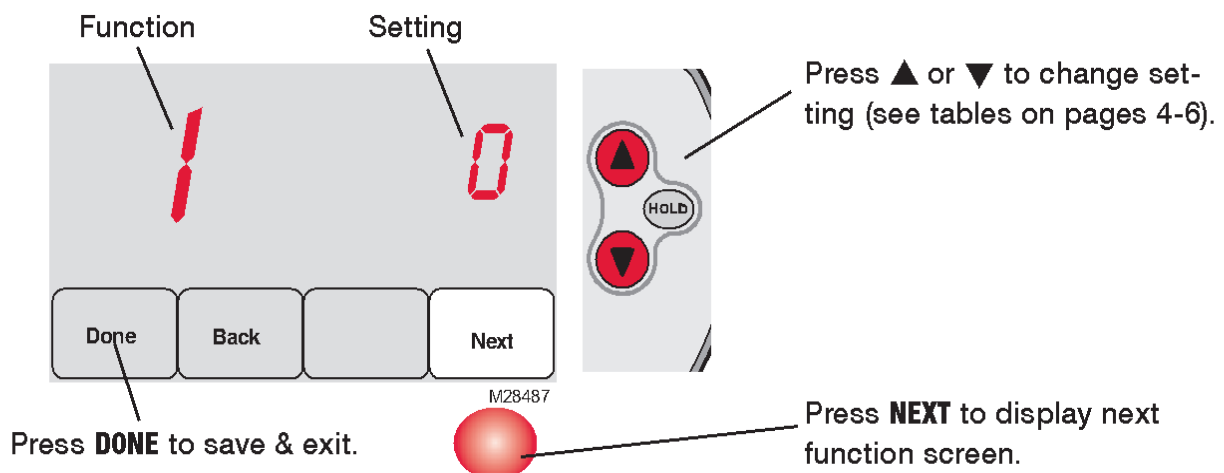
③ Customize thermostat (installer setup)

Follow the steps below to begin installer setup. At each function screen, press ▲ or ▼ to change the setting as desired, then press **NEXT** to advance to the next function screen.

See tables on pages 4-6 for a description of options for each function.



To begin, press and hold the **FAN** and ▲ buttons until the display changes (about 3 seconds).



Thermostat error codes

If **E1** or **E** appears, check error code number (right side of screen):

- 23** EIM does not have dual fuel capability. Replace EIM if you have fossil fuel backup heat or change Installer Setup Function 4 to ELECTRIC if you have electric backup heat (see pages 3-5).
- 29** You are attempting to connect a thermostat to an incompatible device.
- 30** Zone number must match zone panel number (must be zero for EIM systems).
- 31** Verify that this zone number is configured at the zone panel as an RF thermostat.
- 33** Check Return Air Sensor wiring. If removing the sensor permanently, press and hold the **CONNECT** button on the EIM for 10 seconds (until flashing orange) to clear this error code. See page 8, then page 2 to reconnect thermostat.
- 34** Low signal strength. Move wireless device to a different location and try again.
- 38** Make sure Connected light on EIM or wireless adapter is flashing and you are 2+ feet away from EIM or wireless adapter.
- 53** Thermostat is not receiving Outdoor Temperature and Outdoor Humidity:
 1. Thermostat may be configured for dual fuel, compressor lockout or auxiliary lockout with no outdoor sensor. Follow Wireless Setup procedure to connect outdoor sensor to the EIM.
 2. If E53 continues, outdoor sensor may not be communicating. Install 2 fresh AA Lithium batteries in the outdoor sensor.

Installer setup tables

Setup function		Settings & options (factory default in bold)
0 Zone number	0	No zoning (single thermostat used with THM5320R EIM) [Options: select zone 1, 2, 3 or 4]
1 System type	0	1 heat/1 cool conventional
	1	1 heat/1 cool heat pump (no aux. heat)
	2	Heat only (includes Series 20)
	3	Heat only with fan
	4	Cool only
	5	2 heat/1 cool heat pump
	6	2 heat/2 cool conventional
	7	2 heat/1 cool conventional
	8	1 heat/2 cool conventional
	9	2 heat/2 cool heat pump
	10	3 heat/2 cool heat pump
2 Changeover valve (O/B terminal)	0	O/B terminal controls valve in cooling
	1	O/B terminal controls valve in heating
3 Fan control (conventional heat)	0	Gas/Oil heat (equipment controls fan)
	1	Electric furnace (thermostat controls fan)
4 Backup heat (EIM only)	1	Electric backup heat
	0	Fossil fuel backup heat
5 Stage 1 heat cycle rate (CPH: cycles per hour)	5	Gas or oil furnaces (less than 90% efficiency)
	1	Steam or gravity systems
	3	Hot water systems & furnaces of over 90% efficiency
	9	Electric furnaces [Cycle rate options: 1 to 12 CPH]
6 Stage 2 heat cycle rate (CPH)	5	Gas or oil furnaces (less than 90% efficiency)
	1	Steam or gravity systems
	3	Hot water systems & furnaces of over 90% efficiency
	9	Electric furnaces [Cycle rate options: 1 to 12 CPH]
7 Stage 3 heat cycle rate (CPH)	5	Gas or oil furnaces (less than 90% efficiency)
	1	Steam or gravity systems
	3	Hot water systems & furnaces of over 90% efficiency
	9	Electric furnaces [Cycle rate options: 1 to 12 CPH]
8 Emergency heat cycle rate (CPH)	9	Electric furnace [Cycle rate options: 1 to 12 CPH]
9 Stage 1 compressor cycle rate	3	Recommended cycle rate [Cycle rate options: 1 to 6 CPH]
10 Stage 2 compressor cycle rate	3	Recommended cycle rate [Cycle rate options: 1 to 6 CPH]
11 Heat pump type (EIM only)	0	Air to Air Heat Pump
	1	Geothermal heat pump
12 Manual/Auto changeover	0	Manual (User options: Heat/Cool/Off)
	1	Automatic (User options: Heat/Cool/Auto/Off)
13 Adaptive Intelligent Recovery™	<u>Applies only to Model TH6320</u>	
	0	Off
	1	On
14 Temperature display	0	Fahrenheit
	1	Celsius
15 Compressor off time	5	5 minutes (Heat On/Cool On flashes during off time) [Options: 0 to 4 minutes]
16 Schedule format	<u>Applies only to Model TH6320</u>	
	0	Weekday/weekend program schedule
	1	Weekday/Saturday/Sunday program schedule

Installer setup tables

Setup function		Settings & options (factory default in bold)	
17	External fossil fuel kit 1 (EIM only)	0	External fossil fuel kit controls backup heat Thermostat controls backup heat (outdoor sensor required)
18	Dual fuel heat pump control (EIM only)	1 0 2	Droop control** No droop control** Droop control with Aux Heat Lockout**
20	Droop temperature (dual fuel) (EIM only)	2	Auto temperature droop 2° F (1° C) [Options: 2 to 5 (2 to 5° F / 1 to 2.5° C)]
21	Dual fuel upstage to furnace timer (EIM only)	1	1 hour** [Options: 0 (off) to 16 hours]
22	Outdoor air sensor? (EIM only)	0 1	No Yes
24	Heat pump compressor lockout (balance point) (EIM only)	0 1 2 3 4 5 6	No heat pump compressor lockout** 5° F (-15° C) 10° F (-12° C) 15° F (-9.5° C) 20° F (-6.5° C) 25° F (-4° C) 30° F (-1° C)
25	Heat pump auxiliary lockout (EIM only)	0 1 2 3 4 5 6 7	No heat pump auxiliary lockout** 5° F (-15° C) 10° F (-12° C) 15° F (-9.5° C) 20° F (-6.5° C) 25° F (-4° C) 30° F (-1° C) 35° F (1.5° C)
26	Auxiliary heat control	<u>Applies only to Model TH6320</u> 0 Comfort** 1 Economy	
27	Maximum heat setpoint	90	Max. heat temperature setting is 90° F (32° C) [Options: 40°F to 90°F (4.5 °C to 32 °C)]
28	Minimum cool setpoint	50	Min. cool temperature setting is 50° F (10° C) [Options: 50°F to 99°F (10 °C to 37 °C)]
32	Temp. display offset (indoor)	0	Thermostat displays actual temperature [Options: -3 to +3°F offset (-1.5 to +1.5°C)]
33	Temp. display offset (outdoor)	0	Thermostat displays actual temperature [Options: -5 to +5°F offset (-2.5 to +2.5°C)]
35	Humidity display offset (outdoor)	3	Thermostat displays actual humidity [Other options: 0 = -15%, 1 = -10%, 2 = -5%, 4 = +5%, 5 = +10%, 6 = +15% offset]

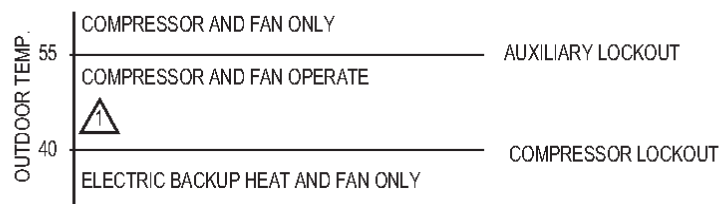
** See page 6

Installer setup tables

Setup function	Settings & options (factory default in bold)			
36 Zone name	52 Thermostat			
	1 Basement	16 Exercise Room	30 Library	44 Porch
	2 Bathroom	17 Family Room	31 Living Room	45 Rec Room
	3 Bathroom 1	18 Fireplace	32 Lower Level	46 Sewing Room
	4 Bathroom 2	19 Foyer	33 Master Bath	47 Spa
	5 Bathroom 3	20 Game Room	34 Master Bed	48 Storage Room
	6 Bedroom	21 Garage	35 Media Room	49 Studio
	7 Bedroom 1	22 Great Room	36 Music Room	50 Sun Room
	8 Bedroom 2	23 Guest Room	37 Nursery	51 Theater
	9 Bedroom 3	24 Gym	38 Office	52 Thermostat
	10 Bedroom 4	25 Kid's Room	39 Office 1	53 Upper Level
	11 Boat House	26 Kitchen	40 Office 2	54 Utility Room
	12 Bonus Room	27 Kitchen 1	41 Pantry	55 Walk In Closet
	13 Computer Room	28 Kitchen 2	42 Play Room	56 Wine Cellar
	14 Den	29 Laundry Room	43 Pool Room	57 Workshop
	15 Dining Room			
39 Wireless setup	0	Disconnect thermostat from wireless system		
	1	Thermostat is connected to wireless system		
90 RESET	0	No reset		
	1	Reset installer options & program schedule to factory default settings		

Special functions

Heat Pump Control – Electric Backup (Setup Functions **24-25**):

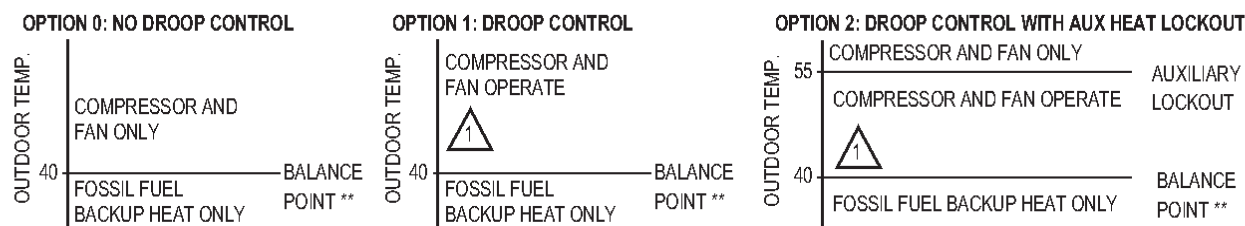


IF THE COMPRESSOR CANNOT REACH OR MAINTAIN TEMPERATURE SETTING, BOTH THE COMPRESSOR AND ELECTRIC BACKUP HEAT WILL OPERATE.

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Heat Pump Control – Fossil Fuel Backup (Setup Function **18**):

Note: If temperature is not reached in a reasonable time, set the upstage to furnace timer (function 21). After the designated time, the compressor will turn off and the system will switch to back up heat.



IF ROOM TEMPERATURE DROPS (EXCEEDS DROOP SETTING AT FUNCTION 20), COMPRESSOR IS DEACTIVATED. FOSSIL FUEL BACKUP HEAT IS ACTIVATED AFTER 3 MINUTE DELAY.

** FOR GEOTHERMAL HEAT PUMPS, THE BALANCE POINT CAN BE DISABLED AT SETUP FUNCTION 24.

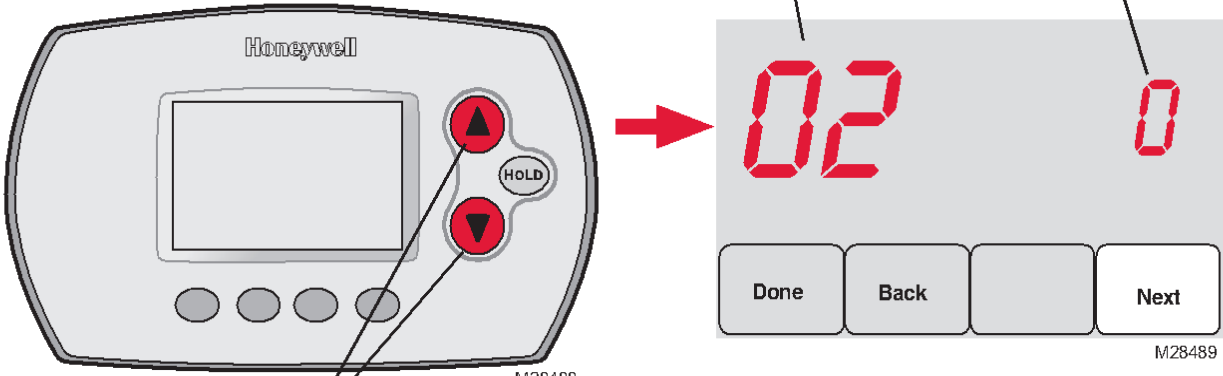
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Comfort/Economy – Setup Function **26** (Not available when Setup Function **17** is set to **0**):

If you choose Comfort, auxiliary heat will respond quickly to meet the temperature setpoint. If you choose Economy, the system will wait longer. Auxiliary heat will be activated only if the setpoint is not reached within a reasonable time.

System test

Follow the procedure below to test for proper operation.



To begin, press and hold the ▲ and ▼ buttons until the display changes (about 3 seconds).

Press ▲ or ▼ to check system status

Press **NEXT** to advance to next test

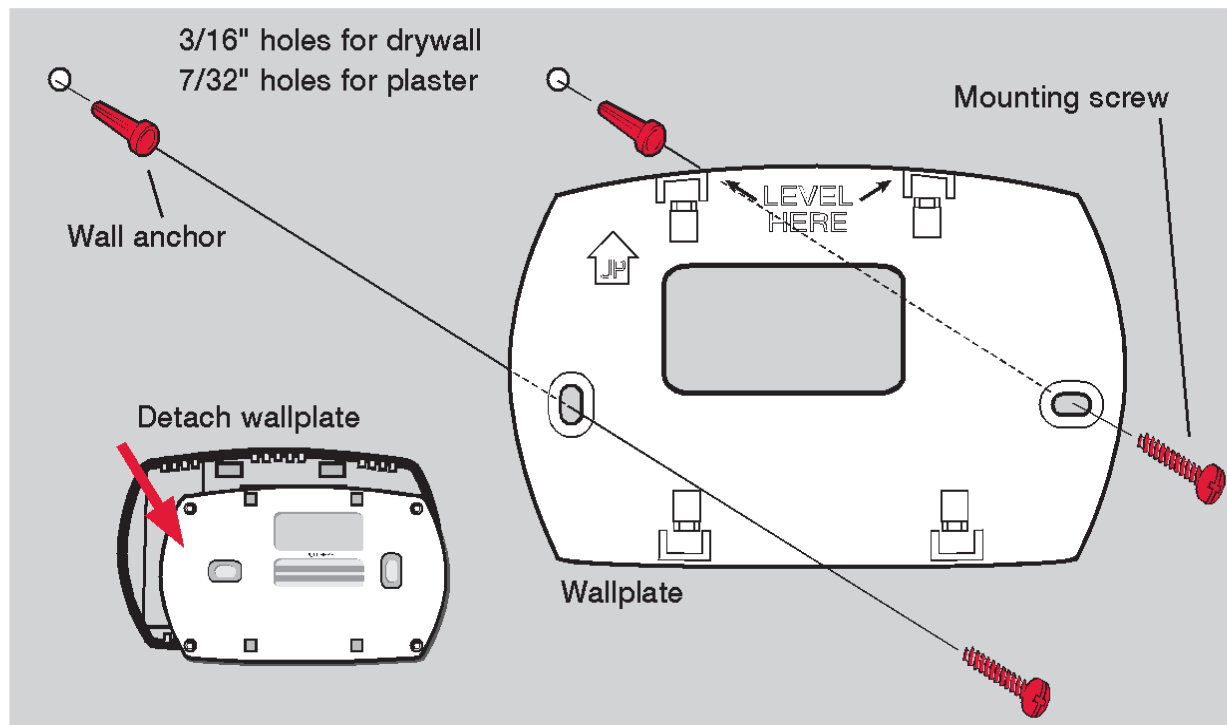
Press **DONE** to terminate system test

System test		System status	
02 Wireless test		0	Off
		1	Test radio signal (after a brief pause, screen displays 1-10 to show signal strength; 5 or higher recommended)
04 Return air sensor			Screen displays return air temperature if device is installed and working properly (EIM only)
10 Heating system		0	Heat and fan turn off.
		1	Heat turns on
		2	Stage 2 heat turns on
		3	Stage 3 heat turns on
20 Emergency heating system		0	Heat and fan turn off
		1	Heat and fan turn on
30 Cooling system		0	Compressor and fan turn off
		1	Compressor and fan turn on
		2	Stage 2 compressor turns on
40 Fan system		0	Fan turns off
		1	Fan turns on
70 Thermostat information (for reference only)	71		Software revision number (major revisions)
	72		Software revision number (minor revisions)
	73		Configuration identification code (major)
	74		Configuration identification code (minor)
	75		Production configuration date code (week)
	76		Production configuration date code (year)



CAUTION: EQUIPMENT DAMAGE HAZARD. Compressor protection (minimum off time) is bypassed during testing. To prevent equipment damage, avoid cycling the compressor quickly.

4 Mount thermostat



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Replacing system components

To replace a thermostat, install batteries and follow the procedures on page 2 to link it to the wireless network. If necessary, modify settings as needed (see tables on pages 4-6).

After installing a new EIM or zone panel, you must re-set the thermostat to communicate with the new EIM or zone panel, as described below.

- 1 Press and hold the thermostat's **FAN** and **▲** buttons for 3 seconds.
- 2 Press **BACK** twice to display Function 39 (wireless setup).
- 3 Press **▼** to change Function 39 setting to 0 (disconnect from old system).
- 4 Follow the procedures on page 2 to relink to new system.

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