

Installation Instructions

Wireless Digital Programmable Thermostats with Receivers

RAK348R1 – Receiver
RAK348T1 – Thermostat

RAK364R1 – Receiver
RAK364T1 – Thermostat

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Español

Para consultar una versión en español de este manual de instrucciones, visite nuestro sitio de internet ge.com.

Française

Pour une version française de ce manuel d'utilisation, veuillez visiter notre site web à l'adresse www.electromenagersge.ca

49-7575

06-07 JR

INSTALLATION INSTRUCTIONS



ELECTRICAL SHOCK HAZARD—Turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the OFF position before installing or removing the thermostat receiver.

PACKAGE CONTENTS/TOOLS REQUIRED

Package includes: Thermostat, thermostat receiver, 4 “AA” batteries, screws, wall anchors and stick mounting pads.

Tools needed: Drill with 3/16” bit, Phillips screwdriver.

Parts needed: Thermostat cable – 18–22 gauge with at least 7 wires – 12” per unit.

TO REMOVE AN EXISTING THERMOSTAT

1. Turn off power to heating and cooling system by removing the fuse or switching off the appropriate circuit breaker.
2. Remove cover of old thermostat. This should expose the wires.
3. Remove wires from wire terminals.
4. Remove existing thermostat base from wall.
5. Cut or stuff wires into the hole in the wall and seal the hole with nonflammable insulation or putty, or use a wall plate obtainable from a local hardware or home building store.
6. Refer to the following section for instructions on how to install this thermostat.

INSTALLATION INSTRUCTIONS

INSTALL THERMOSTAT (when mounting to a wall)

IMPORTANT: *Thermostat installation must conform to local and national building and electrical codes and ordinances.*

Note: *Mount the thermostat about five feet above the floor. Do not mount the thermostat on an outside wall, in direct sunlight, behind a door or in an area affected by a vent or duct.*

MOUNT THE THERMOSTAT

1. Turn off power to the heating and cooling system by removing the fuse or switching off the appropriate circuit breaker.
2. To remove the cover, using both hands, press the two push-tabs on the bottom of the thermostat housing with your thumbs while pulling the front of the thermostat away from the base.
3. Put the thermostat base against the wall where you plan to mount it.
4. Mark the placement of the mounting holes on the wall.
5. Set the thermostat base and cover away from working area.
6. Using a 3/16" drill bit, drill holes in the locations you have marked for mounting.
7. Use a hammer to tap supplied anchors in mounting holes.
8. Align the thermostat base with mounting holes and use supplied screws to mount the thermostat base to wall.
9. Insert four "AA" batteries into the battery holder. Verify that they are oriented as shown on the battery holder.

INSTALLATION INSTRUCTIONS

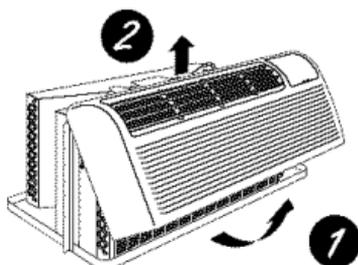
INSTALL THE RECEIVER

2500, 2800, 3500 and 3800 SERIES ZONELINE MODELS

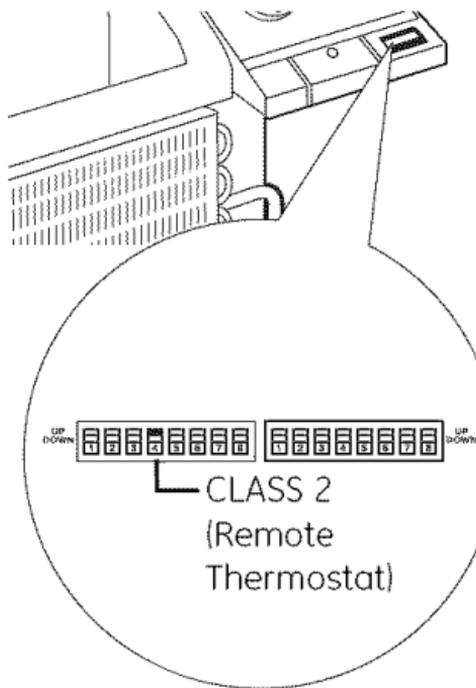


ELECTRICAL SHOCK HAZARD—Turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the OFF position before installing the thermostat receiver.

1. Remove the room cabinet by pulling it out at the bottom to release it (1), then lift it up to clear the rail along the unit top (2).

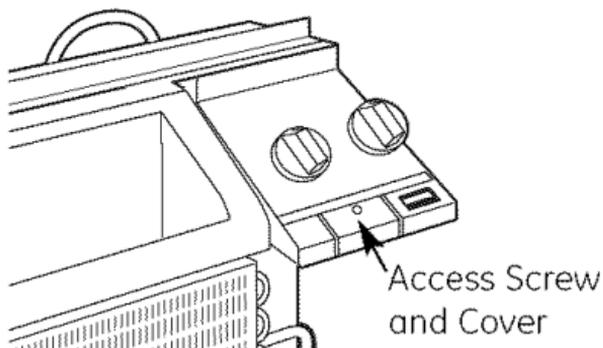


2. Move the #4 (CLASS 2) dip switch up to enable the unit to operate with a Class 2 Thermostat.



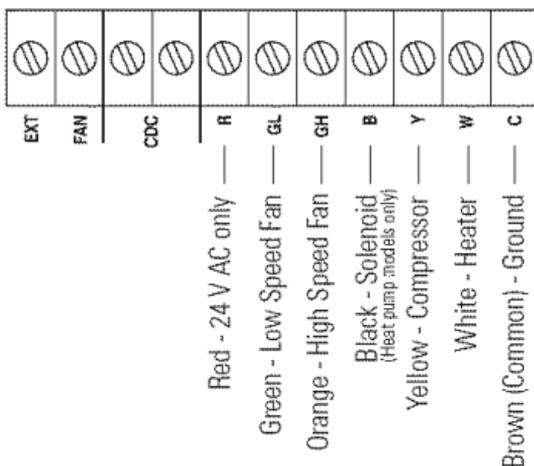
INSTALLATION INSTRUCTIONS

3. Remove the screw and access cover to the auxiliary controls.



NOTE TO INSTALLER: Make sure you are properly grounded because electrostatic discharge (ESD)/static electricity can harm the board.

4. Connect thermostat cable to R, GL, GH, B, Y, W and C unit terminals by inserting the wire tips into the bottom of the block and tightening the screws.



INSTALLATION INSTRUCTIONS

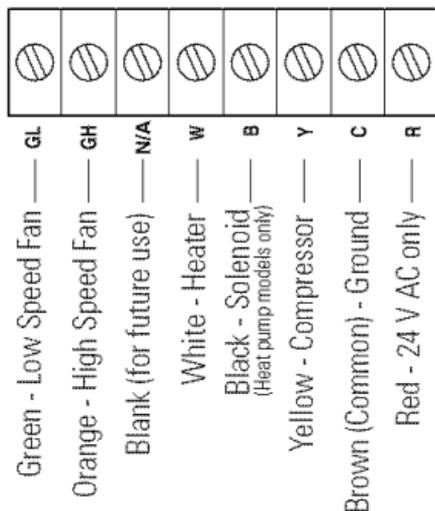
INSTALL THE RECEIVER (cont.)

2500, 2800, 3500 and 3800 SERIES

ZONELINE MODELS

5. Route the thermostat cable from the unit to the R, GL, GH, B, Y, W and C terminals on the receiver and connect by inserting the wire tips into the bottom of the block and tightening the screws.

NOTE: Leave plenty of thermostat cable length to allow routing to and installation of the receiver onto the unit.



6. Turn on power at the main service panel by replacing the fuse or switching the appropriate circuit breaker to the ON position.
7. Link the Thermostat to the receiver. See the "Link the Receiver" section on pages 15 and 16.

IMPORTANT: This step must be performed correctly. Check the thermostat to make sure it is accurately transponding to the receiver. If the links were not set correctly, reset them. See the "Reset the Thermostat" section in the Owner's Manual.

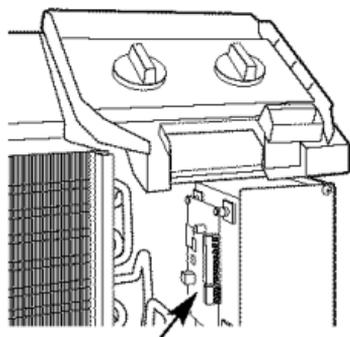
8. Put the cover back on the thermostat and secure with its cover screw.

INSTALLATION INSTRUCTIONS

9. Clean the mounting location. Install the four mounting post feet into each corner hole on the underside of the receiver. Peel off the adhesive backing from each foot. Locate and press the receiver onto the unit, in the correct location, for either Models with a Junction Box or Models without a Junction Box. See below illustration to determine the correct location for your model type. (If accidentally placed in the wrong location or if the receiver needs to be moved, carefully pry each foot from the unit, apply two-sided tape to the feet and relocate to the new location.)

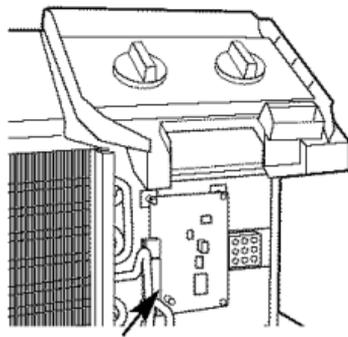
REMOVE PLASTIC BAG/INSTRUCTIONS AND PLACE IT IN THE DRIP TRAY (OR AN OBVIOUS LOCATION). RETAIN WITH UNIT FOR SERVICE TECHNICIAN.

Models *with* a
Junction Box



Recommended mounting location – Mount the receiver to the side of the Junction Box

Models *without* a
Junction Box



Recommended mounting location – Mount the receiver to the face of the unit

NOTE: If replacement mounting feet are needed, they may be ordered at www.mouser.com. Order part no. 561-LAD187.

10. Replace the access cover with the screw removed earlier.
11. Reinstall the room cabinet by hooking the top over the rail along the unit top, then pushing it in at the bottom.

INSTALLATION INSTRUCTIONS

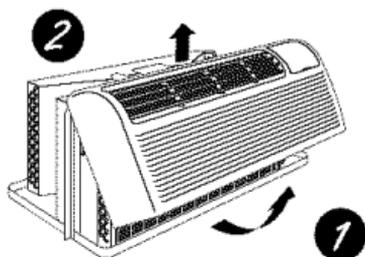
INSTALL THE RECEIVER (cont.)

5500 and 5800 SERIES ZONELINE MODELS

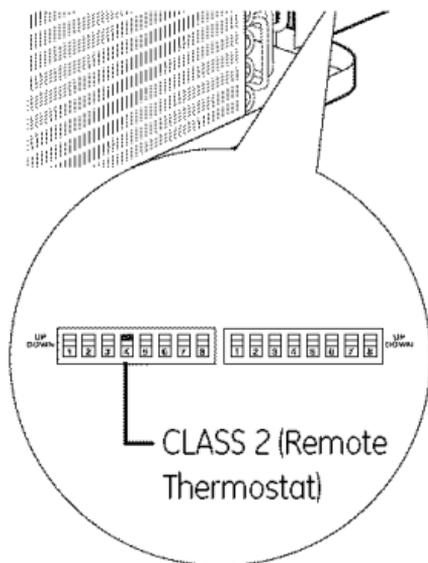


ELECTRICAL SHOCK HAZARD—Turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the OFF position before installing the thermostat receiver.

1. Remove the room cabinet by pulling it out at the bottom to release it (1), then lift it up to clear the rail along the unit top (2).

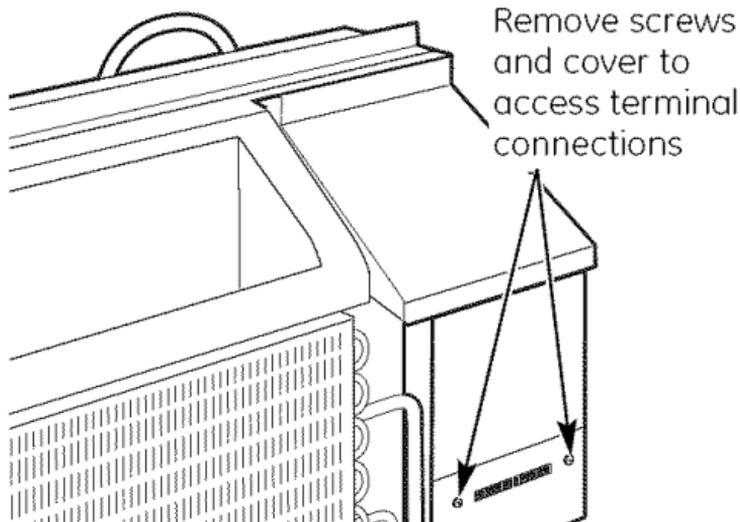


2. Move the #4 (CLASS 2) dip switch up to enable the unit to operate with a Class 2 Thermostat.



INSTALLATION INSTRUCTIONS

3. Remove the screws and access cover to the auxiliary controls.



NOTE TO INSTALLER: Make sure you are properly grounded because electrostatic discharge (ESD)/static electricity can harm the board.

4. Connect thermostat cable to R, GL, GH, B, Y, W and C unit terminals by inserting the wire tips into the bottom of the block and tightening the screws.

EXT	FAN	CDC	R	GL	GH	B	Y	W	C	
			Red - 24 VAC only	Green - Low Speed Fan	Orange - High Speed Fan	Black - Solenoid (Heat pump models only)	Yellow - Compressor	White - Heater	Brown (Common) - Ground	

INSTALLATION INSTRUCTIONS

INSTALL THE RECEIVER (cont.)

5500 and 5800 SERIES ZONELINE MODELS

- Route the thermostat cable from the unit, under the right side of the control wall and to the R, GL, GH, B, Y, W and C terminals on the receiver. Connect to the receiver by inserting the wire tips into the bottom of the block and tightening the screws.

NOTE: Leave plenty of thermostat cable length to allow routing to and installation of the receiver onto the unit.

							
Green - Low Speed Fan — GL	Orange - High Speed Fan — GH	Blank (for future use) — N/A	White - Heater — W	Black - Solenoid (Heat pump models only) — B	Yellow - Compressor — Y	Brown (Common) - Ground — C	Red - 24 V AC only — R

- Turn on power at the main service panel by replacing the fuse or switching the appropriate circuit breaker to the ON position.
- Link the Thermostat to the receiver. See the "Link the Receiver" section on pages 15 and 16.

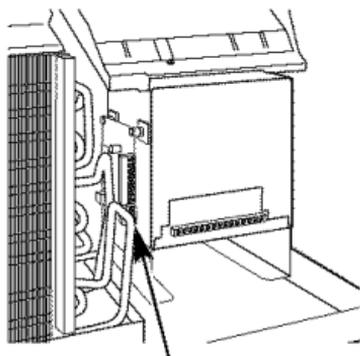
IMPORTANT: This step must be performed correctly. Check the thermostat to make sure it is accurately transponding to the receiver. If the links were not set correctly, reset them. See the "Reset the Thermostat" section in the Owner's Manual.

- Put the cover back on the thermostat and secure with its cover screw.

INSTALLATION INSTRUCTIONS

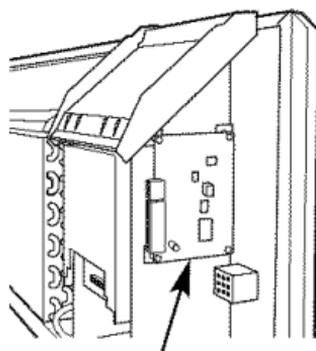
9. Clean the mounting location. Install the four mounting post feet into each corner hole on the underside of the receiver. Peel off the adhesive backing from each foot. Locate and press the receiver onto the unit, in the correct location, for either Models with a Junction Box or Models without a Junction Box. See below illustration to determine the correct location for your model type. (If accidentally placed in the wrong location or if the receiver needs to be moved, carefully pry each foot from the unit, apply two-sided tape to the feet and relocate to the new location.)

Models *with* a
Junction Box



Recommended mounting location – Mount the receiver to the side of the Junction Box

Models *without*
a Junction Box



Recommended mounting location – Mount the receiver to the side of the unit

OR

NOTE: If replacement mounting feet are needed, they may be ordered at www.mouser.com. Order part no. 561-LAD187.

10. Replace the access cover with the screw removed earlier.
11. Reinstall the room cabinet by hooking the top over the rail along the unit top, then pushing it in at the bottom.

INSTALLATION INSTRUCTIONS

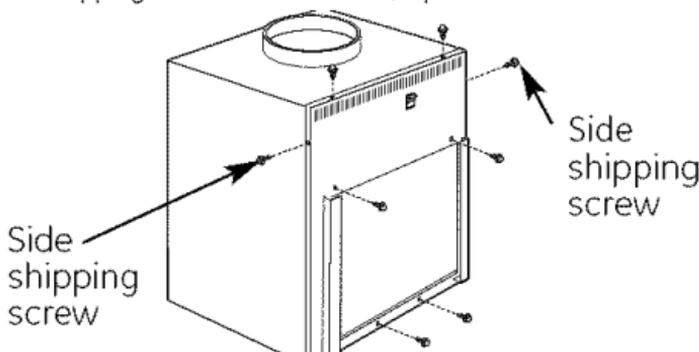
INSTALL THE RECEIVER (cont.)

7500 SERIES VERTICAL ZONELINE MODELS



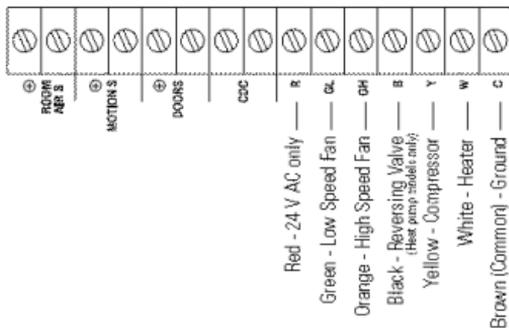
ELECTRICAL SHOCK HAZARD—Turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the OFF position before installing the thermostat receiver.

1. Remove the front case panel by removing the filter, taking out the four front screws, the upper two screws from the top of the panel and the shipping screws on each side, if present.



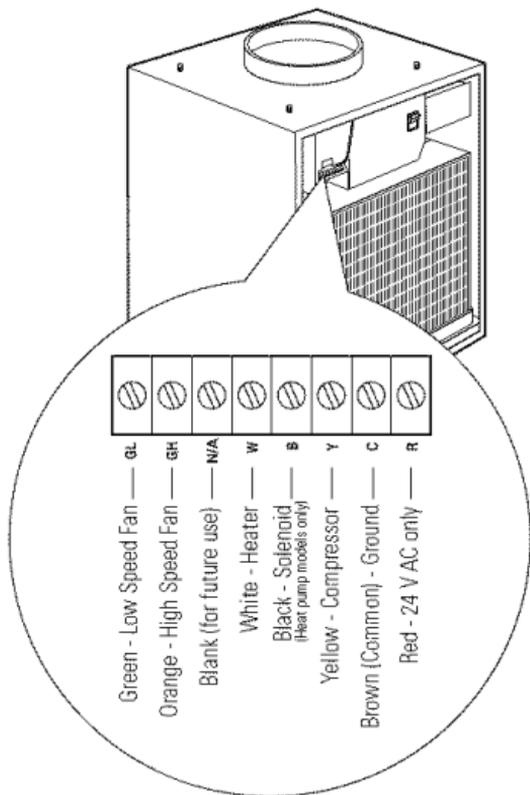
NOTE TO INSTALLER: Make sure you are properly grounded because electrostatic discharge (ESD)/static electricity can harm the board.

2. Connect thermostat cable to R, GL, GH, B, Y, W and C unit terminals by inserting the wire tips into the bottom of the block and tightening the screws.



INSTALLATION INSTRUCTIONS

3. Route the thermostat cable from the unit through the case top cable opening and connect to the R, GL, GH, B, Y, W and C terminals on the receiver. Connect the cable to the receiver by inserting the wire tips into the bottom of the block and tightening the screws.



NOTE: If replacement mounting feet are needed, they may be ordered at www.mouser.com.

INSTALLATION INSTRUCTIONS

INSTALL THE RECEIVER (cont.)

7500 SERIES VERTICAL ZONELINE MODELS

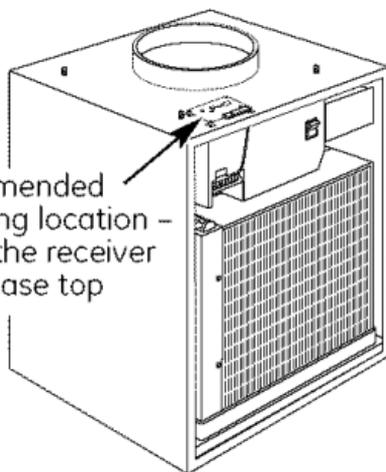
4. Clean the mounting location.

Install the four mounting post feet into each corner hole on the underside of the receiver. Peel off the adhesive

backing from each foot. Locate and mount the receiver

onto the case top by pressing it into position. (If accidentally placed in the wrong location or if the receiver needs to be moved, carefully pry each foot from the unit, apply two-sided tape to the feet and relocate to the new location.)

Recommended mounting location – Mount the receiver to the case top



NOTE: If replacement mounting feet are needed, they may be ordered at www.mouser.com. Order part no. 561-LAD187.

5. Turn on power at the main service panel by replacing the fuse or switching the appropriate circuit breaker to the ON position.
6. Link the Thermostat to the receiver. See the “Link the Receiver” section on pages 15 and 16.

IMPORTANT: This step must be performed correctly. Check the thermostat to make sure it is accurately transponding to the receiver. If the links were not set correctly, reset them. See the “Reset the Thermostat” section in the Owner’s Manual.

7. Put the cover back on the thermostat and secure with its cover screw.
8. Replace the case front panel by replacing the four front screws and the two top screws.

INSTALLATION INSTRUCTIONS

LINK THE RECEIVER

The thermostat and receiver will not operate as a system until they are linked together through the installation process. The linking process binds one or more receivers to a thermostat so that they will communicate with each other as a control system. Up to eight (8) receivers can be linked to a single thermostat. Until linked, a control receiver will not operate. Once linked, a control receiver will only respond to its specific thermostat.

LINK THE THERMOSTAT TO THE RECEIVER

A thermostat and receiver that have been linked will not interfere with or be affected by any other thermostat or receiver in adjacent rooms, apartments or neighboring homes. Linking information is stored in memory—It is not necessary to re-link a thermostat and receiver if the thermostat batteries are removed or after a power outage.

If multiple installation teams are installing and linking thermostats at the same time, coordinate the activity to avoid the possibility of installers simultaneously attempting to perform the linking process. Because this is an RF system, installers in nearby rooms/areas where it is possible RF overlap could exist run the risk of interfering with each other. Installation and linking activity going on around a system already installed will not interfere with it.

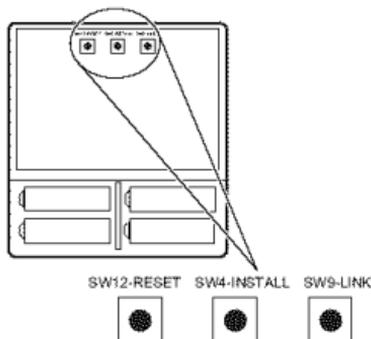
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INSTALLATION INSTRUCTIONS

LINK THE RECEIVER (cont.)

- A. Press the **SW4-INSTALL** button inside the thermostat. Press the **HEAT/COOL** button on the front of the thermostat to select your choice. Press the **UP** button to set the receiver number (0-7) and press the **HEAT/COOL** button to set the receiver.

Internal Buttons



PB1-NETWORK

Used to uninstall the thermostat from receiver(s) it has been linked to.

SW12-RESET

Master Reset - Returns thermostat to all factory defaults.

SW4-INSTALL

Starts an installation session.

SW9-LINK

Used to link the thermostat to control receiver(s).

Display



NOTE: The display always blinks the item that is active and can be changed.

- B. Press the **SW9-LINK** button inside the thermostat. Within 5 seconds, press the **RESET/LINK** button (PB3) on the receiver. The "Good" message will appear if linked. The "Bad" message will appear if not linked.
- C. Press the **SW4-INSTALL** button to close the installation session.