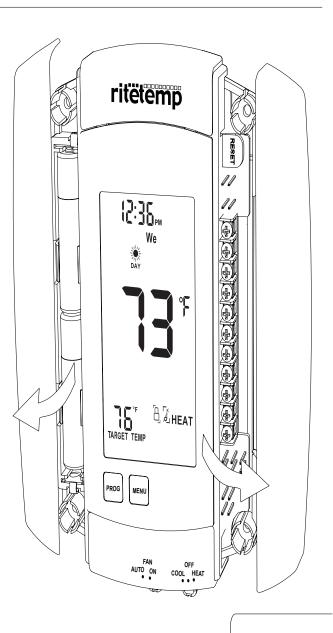
Install guide 6035

ritetemp.

Caution

- Your thermostat is a precise instrument, handle it with care.
- Turn off electricity to the appliance before installing or servicing thermostat or any part of the system.
- Do not turn electricity back on until work is completed.
- Do not short (jumper) across electric terminals at control on furnace or air conditioner to test the system. This will damage the thermostat and void your warranty.
- All wiring must conform to local codes and ordinances.
- This thermostat is designed for use with 24 volt AC and millivolt systems. The thermostat should be limited to a maximum of 1.0 amps; higher amperage may cause damage to the thermostat.



ENGLISH

Install guide 6035

Caution

To avoid electrical shock and to prevent damage to the furnace, air conditioner, and thermostat, disconnect the power supply before beginning work. This can be done at the circuit breaker, or at the appliance.

Tools

You will need a small Phillips screwdriver and possibly a drill with 3/16-in. (4.8mm) bit for wall mounting.

ritëtemp.

Location

Replacement installations - mount the new thermostat in place of the old one.

New installations - follow the guidelines listed below.

- Locate the thermostat on an inside wall, about 5 ft. (1.5m) above the floor, and in a room that is used often. $$_{\rm PG}\ 1$$

• Do not install it where there are unusual heating conditions, such as: in direct sunlight; near a lamp, radio, television, radiator register, or fireplace; near hot water pipes in a wall; near a stove on the other side of a wall.

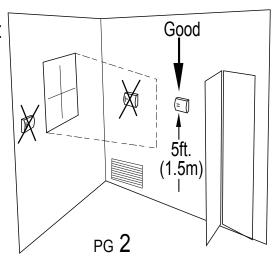
• Do not locate in unusual cooling conditions, such as: on a wall separating an unheated room; or in a draft from a stairwell, door, or window.

• Do not locate in a damp area. This can lead to corrosion that will shorten thermostat life.

• Do not locate where air circulation is poor, such as: in a corner or an alcove; or behind an open door.

• Do not install the unit until all construction work and painting has been completed.

• This thermostat does not require leveling.

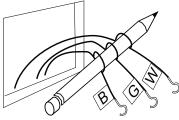


Remove old unit

IMPORTANT : LABEL ALL WIRES • Switch electricity to the furnace and BEFORE DISCONNECTING THEM!

air conditioner OFF; then proceed with the following steps.

 Remove cover from old thermostat. Most are snap-on types and simply pull off. Some have locking screws on the side or front. These must



be loosened. Note the letters printed near the terminals. Attach labels (enclosed) to each wire for identification.

Caution

Read instructions carefully before removing any wiring from existing thermostat. Wires must be labeled before they are removed. **THERE IS NO STANDARD COLOR CODE.** When removing wires from their terminals, ignore the color of the wires since these may not comply with any standard.

pg 3

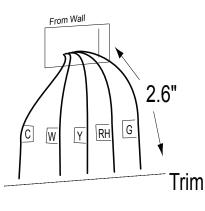
 Label the wires one at a time. You must label all the wires before you proceed. With all wires labeled, remove them from the old unit. Make sure the wires do not fall back inside the wall. You can wind

them around a pencil to keep them from falling.

- Loosen all screws on the old thermostat and remove it from the wall.
- Fill wall opening with non-combustible insulation to prevent drafts.

Prepare wires

- You will need at least 2.6" of wire for each of your connections to the 6035.
- If you do not have enough wire, splice additional wire to allow enough slack.
- Fan out wires below the hole as shown.



Before you Connect Wires

Please follow these guidelines for safe and secure wire connections.

- Easy Terminals do not require stripping the wire.
- Clip any bare wire from previous installation.
- Take care not to damage the labels for each wire in handling.
- Fan wires out as illustrated with 6035 below the wall opening.
- Wires will dress behind the 6035 and up over the terminal area.
- Use the Step-By-Step diagram as your guide.
- Do not bunch wires behind 6035. Feed slack back into the wall opening.
- Connect labeled wires only to a terminal with corresponding letter.

Caution

Do not allow wires to touch each other or parts on thermostat.

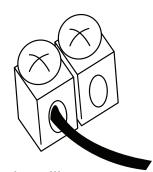
- Insert the wire in the terminal and tighten the screw securely.
- You will need to set Configuration Jumpers per the Step-By-Step diagram. A needle-nose plier may be needed to modify jumper locations.

What wires do you have?

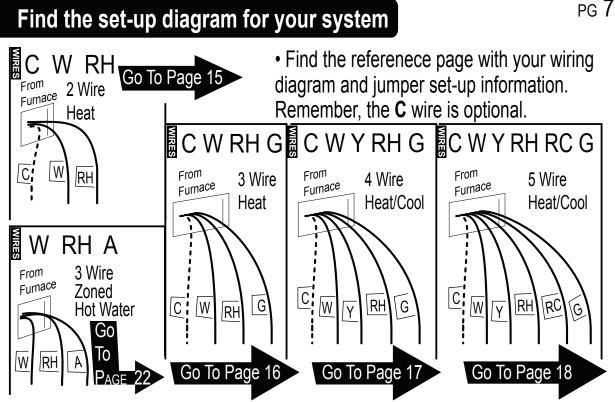
Determine which step-by-step wiring diagram below you should use. Make sure your wires are labeled. This may require you to find the 'other end' connection for each wire on your heating or air conditioning equipment and read the label there.

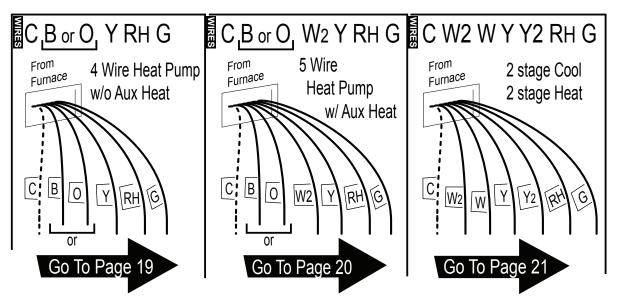
From Furnace

If you have a wire marked "C" it is optional. If you do connect it, the thermostat will draw power from the C wire. This extends battery life. $_{PG} 6$



PG 5





 If your combination of wires is not above you can use the wiring table on pages 24-25 to determine your connections, or call our USA support line at 1-877-505-2353 for help.

Wall Mount the 6035 Wires Wall anchor • Hold the 6035 against the wall, with the wires coming around the side by terminal block. The 6035 will cover the hole in the wall. • Position 6035 for best appearance. Use the optional stand- offs if more space for wires is 6035 needed behind the 6035. Attach the base to the wall with the screws provided. • If you are mounting the base to sheet rock or if you are using the old mounting holes, use the plastic anchors provided. Drill a 3/16-in.(4.8mm) hole for the insert at each

screw location, then mount the base.

PG 9

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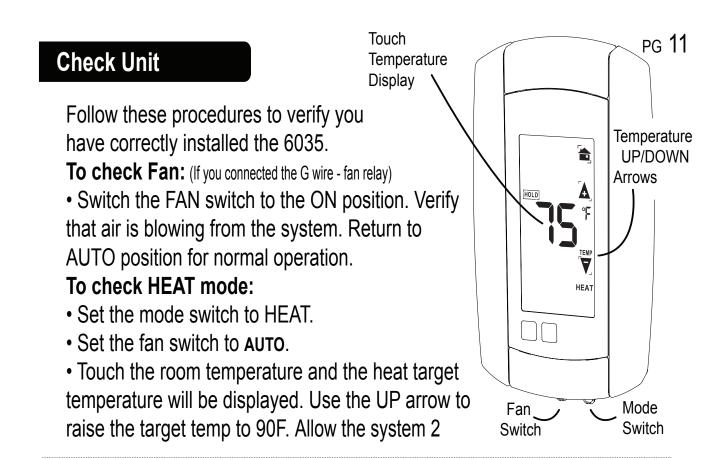
Install AAA Batteries

• The 6035 requires 2 AAA batteries to operate .

• Switch MODE switch to OFF and the FAN switch to AUTO.

444

- Install 2 AAA alkaline batteries according to the polarity noted in the compartment. LCD segments will go on.
- Press the **RESET** button (under right cover) to clear transient program memory. NOTE: Replace the batteries when this LOW battery indicator appears on the display or once a year.
- Replace covers on unit.



minutes to respond then verify that heat is blowing from the system.

To check COOL mode:

• Set the mode switch to COOL.

• Touch the room temperature and the cool target temperature will be displayed. Use the DOWN arrow to lower the target temperature to 50F. Allow the system 2 minutes to respond

• Verify that cool air is blowing from the system.

Congratulations, you have successfully installed your unit. Please proceed to the OPERATING Guide to initialize the 6035.

NOTE: If you have labeled your wires, follow the correct Step-By-Step, and these Check procedures do not operate your system call support at 1-877-505-2353

Power Options

BATTERIES ONLY - This thermostat can run on batteries only using 2AAA alkaline batteries. The batteries will last at least 1 year; replace the batteries once a year or when the low battery icon comes on the display. If the batteries are not replaced, the thermostat will shut off the HVAC and then stop working.

24VAC - This thermostat can run on the HVAC 24VAC (C wire) if available. As shown in the wiring diagrams, the C wire is the other side of the 24VAC heating transformer and can be found where the other thermostat wires connect at the wall or at the furnace. Do not use the common or ground side of the line voltage. If the C wire is used, the batteries are then for back-up in case of power loss only and will last much longer. With the C wire connected, the thermostat will continue to work if the batteries die or are removed.

Calibration

NOTE:Your thermostat comes from the factory calibrated to +/- 1⁰ of actual temperature. It is an accurate instrument. If you want your thermostat to display the same temperature as another thermometer in your home, you can adjust its calibration.

To change the calibration:

Push the MENU button; the present room temperature is displayed. To change it, use the up/down arrows and change the displayed room temperature as you wish +/- 6F. Your change will also be displayed on the lower left as the DELTA T factor or number of degrees changed. Push HOME icon or wait 60 seconds. The new room temperature will now be displayed on the HOME screen.



FILTER

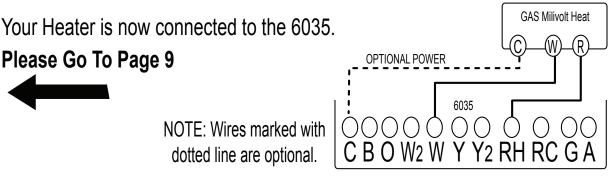
SWING

CALIBRATE DISPLAY ON

TEMP

PG 14

 Image: Construct the state of the state



CWRHG 3 Wire Heat

or **STEP 1** - Connect the **R** (or RH) wire to the **RH** terminal 12 on the 6035. This connects to the Heater Power. • В **STEP 2** - Connect the **W** wire to the **W** terminal on the 3 6035. This connects the heater control line to the 6035. STEP 3 - Connect the G wire to the G terminal on the SET JUMPERS thermostat. This connects the Fan to the 6035 **STEP 4** - Set Config jumpers per this diagram. If you have Electric heat set 4, if you have Gas or Oil set 5. HVAC SYSTEM WARAG OPTIONAL POWER Your system is now connected to the 6035. Please Go To Page 9 6035 C B O W2 W Y Y2 RH RC G A PG 16

📓 C W Y RH G 4 Wire Heat/Cool PG 17 **STEP 1** - Connect the **W** wire to the **W** terminal on the SET JUMPERS thermostat. This connects to the heater control line. or STEP 2 - Connect the Y wire to the Y terminal on the 12 45 6035. This connects to the Cooler compressor. : STEP 3 - Connect the RH or R wire to the RH terminal on the thermostat. This connects the Heater/Cooler Power. STEP 4 - Connect the G wire to the G terminal on the Thermostat. This connects to the Fan. HVAC SYSTEM **STEP 5** - Set Config jumpers per this diagram. If you WAYARAG have Electric heat set 4, if you have Gas or Oil set 5. OPTIONAL POWER Your HVAC system is now connected to the 6035. Please Go To Page 9 Y Y2 RH RC BOW2W 6035 (G A

Terminals

6035 Terminals

G WYRHRCG 5 Wire Heat/Cool

STEP 1 - Connect the W wire to the W terminal on the thermostat. This connects to the heater control line.
STEP 2 - Connect the Y wire to the Y terminal on the 6035. This connects to the Cooler compressor.
STEP 3 - Connect the PH wire to the PH terminal and t

STEP 3 - Connect the **RH** wire to the **RH** terminal and the **RC** wire to the **RC** terminal on the 6035. This connects the Heater and Cooler Power.

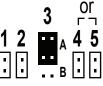
STEP 4 - Connect the **G** wire to the **G** terminal on the Thermostat. This connects to the Fan.

STEP 5 - Set Config jumpers per this diagram. If you have Electric heat set 4, if you have Gas or Oil set 5. Your HVAC system is now connected to the 6035.

Please Go To Page 9

PG 18

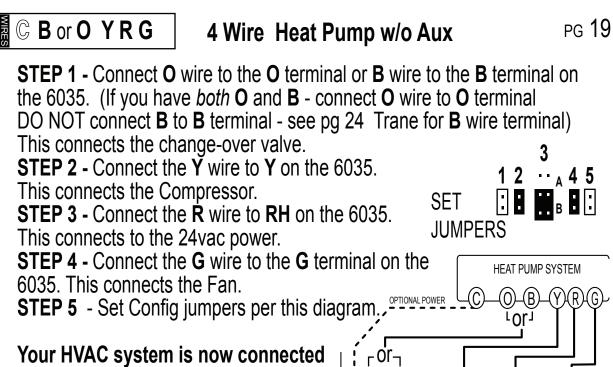




HVAC SYSTEM

(W) (Y) ARHARCH (G

BOW2WYY2RHRCGA



6035

Terminals

to the 6035.

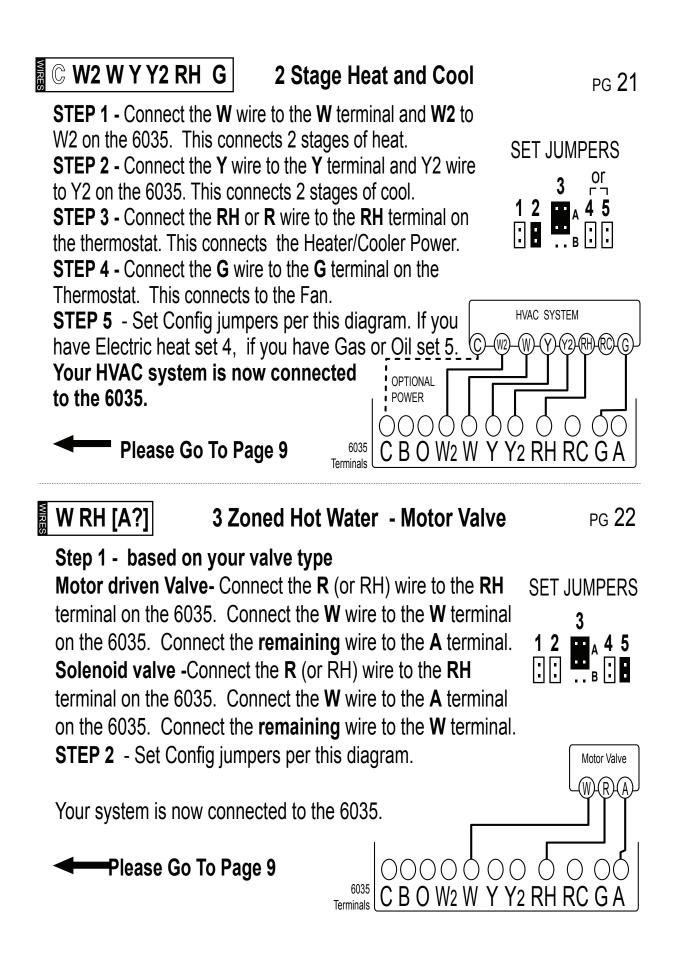
Please Go To Page 9

 $\mathbb{G}\,\,\textbf{B}\,\text{or}\,\textbf{O}\,\,\textbf{W2}\,\textbf{Y}\,\textbf{RH}\,\textbf{G}$

5 Wire Heat Pump w/ Aux Heat PG 20

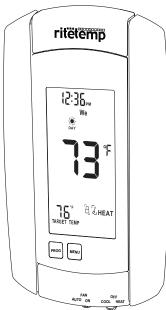
B O W2 W Y Y2 RH RC G A

STEP 1 - Connect O wire to the O terminal or B wire to the B terminal on the 6035. (If you have both **O** and **B** -connect **O** wire to **O** terminal DO NOT connect **B** to **B** terminal - see pg 24 Trane for **B** wire terminal) STEP 2 - Connect the W2 wire to W2 on the 6035. STEP 3 - Connect the Y wire to Y on the 6035. ·· ₄ 4 5 12 **STEP 4** - Connect the **R** wire to **RH** on the 6035. в SET **STEP 5** - Connect the **G** wire to **G** on the 6035. JUMPERS **STEP 6** - Set Config jumpers per this diagram. Set jumper 1 if you have Gas or Oil aux heat. HEAT PUMP SYSTEM O - B W Y R GPTIONAL POWER Your HVAC system is now connected ۲OL to the 6035. -0r-Please Go To Page 9 BOW2WYY2RHRCGA 6035 Terminals



6035 Features

This thermostat can be used with all millivolt and 24VAC heating and cooling systems. It cannot be used with line voltage systems. This thermostat is digital and your desired heat or



cool temperatures can be easily be set on the large touch screen with the UP/DOWN arrows. A minimum 4 minute off time protects heating and cooling systems from damage.

This thermostat uses a new technique called sequential staging for more comfort with faster reaction to requested temperature changes.

When using a heat pump with Auxiliary heat, if the heat pump cannot keep up and/or is defective, touch the MENU button, then touch PUMP; the PUMP OFF icon will come on.. The aux heat will then be your only source of heat. When the heat pump is again operational, be sure to turn the heat pump back on by touching MENU and then PUMP (off icon goes out) as the aux heat is more expensive than pump heat.

Wire Reference

Your Wires Ritetemp Terminal

R or V or V RH or 4 RC W W2 ? Y Y2 G or F C or X E L T	 ^{(R} RH and RC Single power for HEAT and COOL RH Power for HEAT (RH not connected to RC) RC Power for COOL (RH not connected to RC) W Heat control W2 2nd stage HEAT or heat pump auxiliary heat A 3rd wire for zoned hot water heat (see zoned) Y COOL control Y2 2nd stage COOL control G FAN control C Common 24VAC power (to power thermostat) Emergency heat (do not connect, tape off) System monitor (do not connect, tape off) Outdoor sensor (do not connect, tape off) 	B a NC the B a (Tra pro DO CO
B or	B Heat pump changeover (cool to heat, powered in heat)	to
O	O Heat pump changeover (heat to cool, powered in cool)	cor
B and O	SEE NOTE	terr

B and O NOTE: If there are both B and O wires (Trane pump products) DO NOT CONNECT B to B terminal, connect B to C terminal

pg 24

Wire Reference cont

Your Wires Ritetemp Terminal

Lennox Heat Pump V or VR or R RH M or Y Y Y or W or W2 W2 F or G G R or O O X or X2 or C C

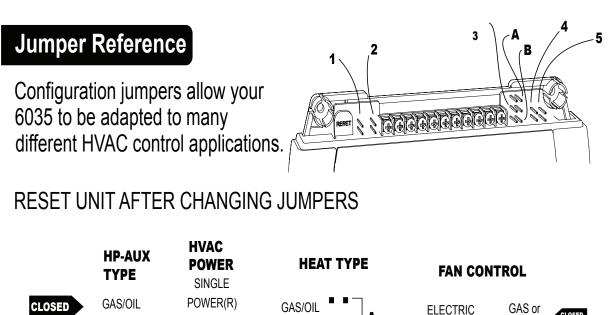
Trane Products [American Standard] B C W or W1 W2

Zoned Systems

Your WiresRitetemp Terminal2 wire Zoned Hot WaterRRWW3 Wire Zoned Hot Water

Motor Driven Valves R RH W W Y (the 3rd wire) A

3 Wire Zoned Hot Water Solenoid Valves R RH W A Y (the 3rd wire) W



HEAT

HEAT

PUMP

2

POWER RH

POWER RC

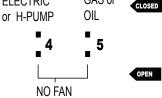
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ELECT

A

В

3



pg **26**

OPEN



Customer Support: 877-505-2353 or Visit our website www.ritetemp-thermostats.com

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