

Talking Thermostat

Key Information Guide

Models

VT1007, VT2007 & VT2207



Smart Way
Solutions



Talking Thermostat

Key Information Guide

Models VT1007, VT2007 and VT2207

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Operation Keys and Alert Light Model Number by Type



For Custom Message / Warranty Information

● Press **HELP**

For Indoor Temperature and Set Point Temperature
(Also reports Check Filter, Low Battery and Call For Service)

● Press **REPORT**

● **ALERT LIGHT** – When Flashing Press **REPORT** Key to
hear alert message

To Raise Temperature Press **UP** ●

To Lower Temperature Press **DOWN** ●

FUNCTION Key ●

Press **BRIEFLY** to backlight display screen

Press and **HOLD** to hear revision number

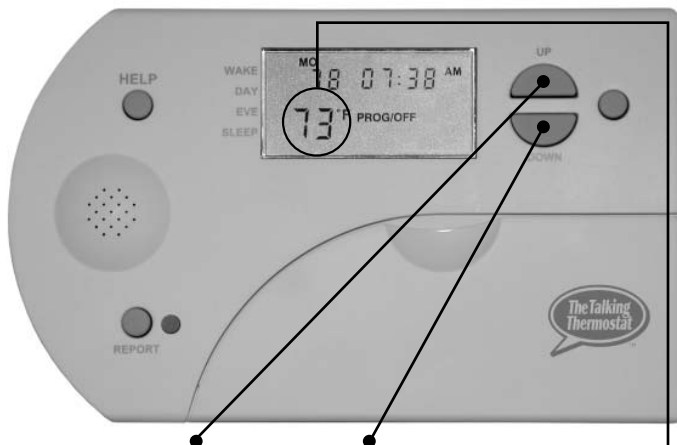
MODEL Number ●

VT1007 -- Single Stage Heat / Cool

VT2007 – 2 Stage Heat / Single Stage Cool / Heat Pump

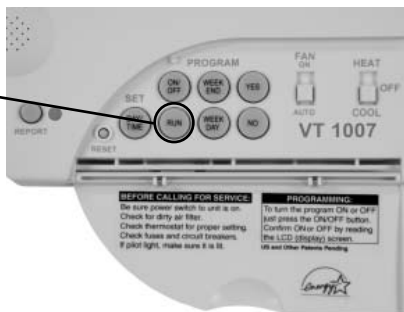
VT2207 – 2 Stage Heat / 2 Stage Cool (NOT for Heat Pumps)

Calibrate Indoor Temperature



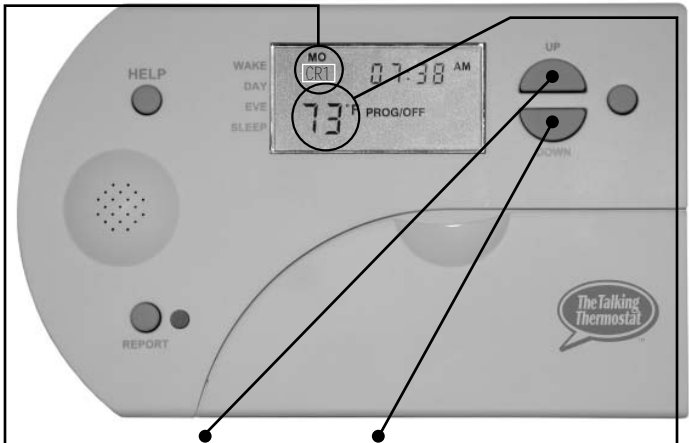
Press the **UP** and **DOWN** keys together and **HOLD** until **INDOOR TEMPERATURE** starts to FLASH. RELEASE. Press the **UP** or **DOWN** key to raise or lower **INDOOR TEMPERATURE** to the desired setting.

When finished press **RUN**.



NOTE: Indoor Temperature calibration is limited to (+ / -) 3° F / 2° C from factory default setting. Do not calibrate until unit has run one complete cycle.

Setting Cycle Rate



Press the **UP** and **DOWN** keys together and **HOLD** until **INDOOR TEMPERATURE** starts to FLASH. RELEASE. Press **BOTH** again until Cr1 appears in setpoint location. Press **UP** and **DOWN** key to move to the desired setting. Press **Run**.

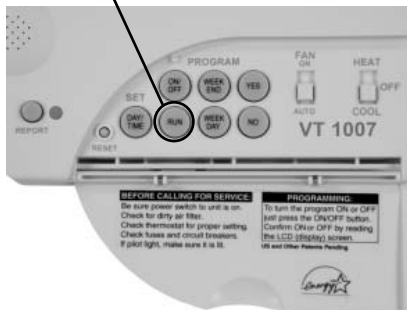
Cr1 will appear here.

NOTE:

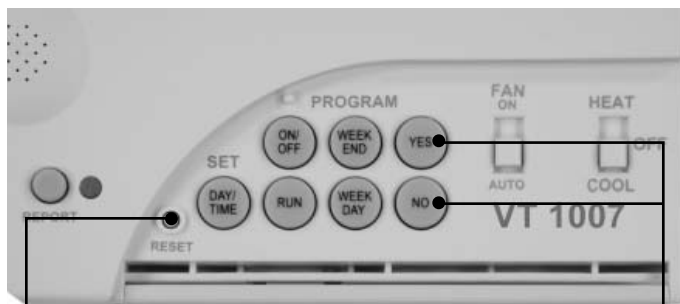
Cr1 = 1 Degree

Cr2 = 2 Degrees

Cr3 = 3 Degrees



Fahrenheit to Celsius & Reset Key



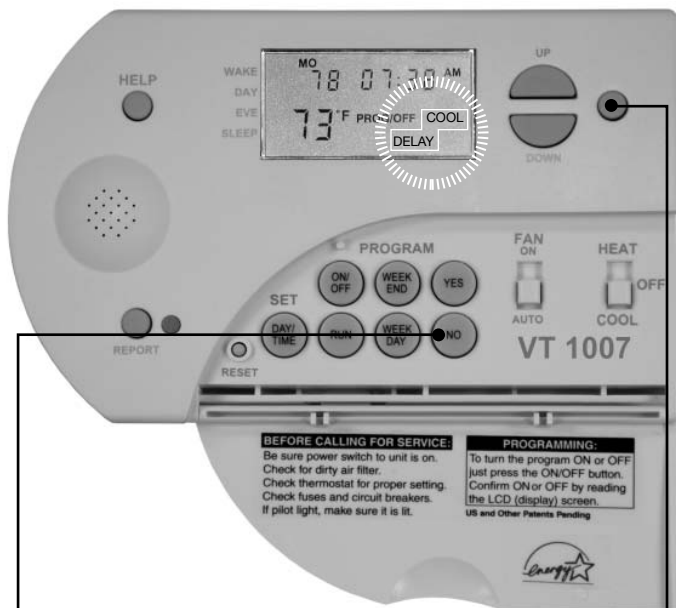
To Change From Celsius to Fahrenheit,
Press and **HOLD** the **YES** and **NO** keys
together for 6 seconds.

● **Reset Key**

The **RESET** key has two primary functions.

- 1. Escape Program Mode:** If, during programming, you get lost or wish to quit, press **RESET**. You will exit the programming mode without making changes.
- 2. FFr (Escapes Faulty Operation):** Static discharge can cause faulty operation. To correct, press both the **NO** and **RESET** buttons together until the display disappears. When it reappears, press the **RUN** button to accept the **FLASHING INDOOR TEMPERATURE**.

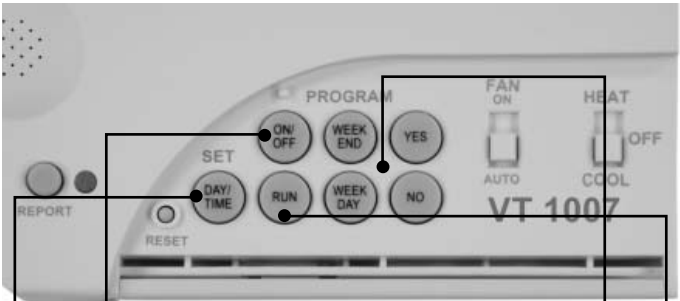
Bypass Compressor Short Cycle Protector



If you turn the cooling OFF and back ON in less than 5 minutes, the unit will activate the time delay. **COOL** and **DELAY** will FLASH.

Press the **NO** and **FUNCTION** keys and **HOLD** for 8 seconds. This will disable the time delay feature for 10 minutes. **COOL** will stop FLASHING and **DELAY** disappears.

Program Keys



PROGRAM ON / OFF KEY

Press to turn program on or off.

WEEKDAY AND WEEKEND KEYS

Press and follow instructions to change program.

DAY / TIME KEY

Press and follow instructions to change the time and day of the week.

RUN KEY

Press to advance to next step when programming.

NOTE:

On heat pump models, pressing and holding **RUN** and **YES** will send thermostat into emergency or reserve heat. This also reduces the Time Delay between 1st & 2nd stage HEAT to 1 minute. To restore the default 8-minute delay, perform an "FFr" Reset per instructions on page 4.

Locking Out Programmed Operation

Lock out prevents users from accidentally running programmable operation. Press

and hold **NO** and **ON/OFF** keys for 6 seconds. Audio plays “OFF” when any program button is pressed. To unlock, repeat same.



Locking Out All Operations

Full lock out prevents unauthorized users from making changes. Press and hold **YES** and **HELP** keys until you hear “OFF”.



Locks out all functions except the **REPORT** and **HELP** keys. To unlock, repeat same until you hear “O”.

Voice On/Off

(When changing Setpoint Temperature)



Press and **HOLD** the **UP** key for 8 seconds to activate the **VOICE ON** when changing setpoint temperature.

Press and **HOLD** the **DOWN** key for 8 seconds to activate the **VOICE OFF** when changing setpoint temperature

Filter, Service and UV Light Alert Monthly Settings



FP (Filter Period), SP (Service Period)
and **ULP (UV Light Period)** will display here.

NOTE:

Default Period Settings:

FILTER PERIOD (FP): 1 MONTH

(after 1 month CHK FILT appears)

SERVICE PERIOD (SP): 6 MONTHS

(after 6 months CFS appears)

UV LIGHT PERIOD (ULP): 0 MONTHS

(CFS for UV Light is turned off at 0 setting)

FP (Filter Period), SP (Service Period) Range: 1 TO 24 MONTHS

ULP (UV Light Period) Range: 0 TO 24 MONTHS

(Optional) Default Hours Settings

FILTER HOURS: 400 HOURS

(after 400 hours CHK FLT appears)

SERVICE HOURS: 3000 HOURS

(after 3000 hours CFS appears)

UV LIGHT HOURS (ULH): 0 HOURS

(CFS for UV Light is turned off at 0 setting)

FH (Filter Hours) and ULH (UV Light Hours) Range:

0 TO 3000 HOURS

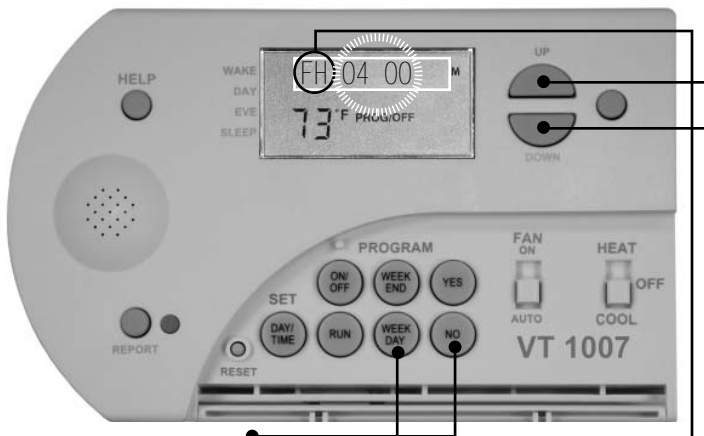
SERVICE HOURS Range:

200 TO 3000 HOURS

Note: Check Filter alert can be turned off by setting it to **FH 00 00**

Note: To change months to hours see page 11

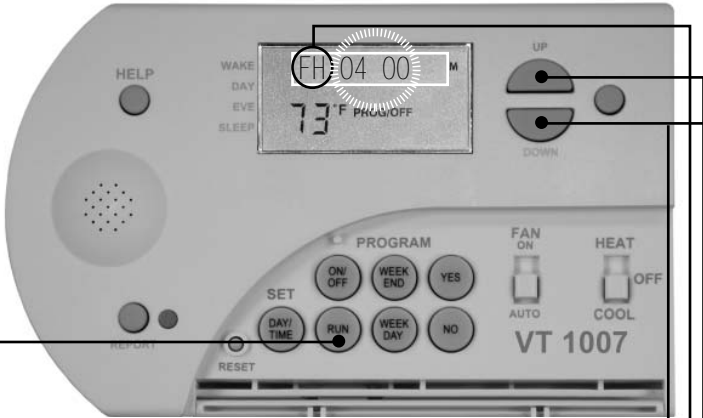
Adjusting Filter, Service and UV Light Period (Months)



1. Press and **HOLD NO**, then
2. Press and **HOLD WEEK DAY** until **SET POINT TEMPERATURE** displays **FP** (Filter Period). The clock display will begin flashing **01** (1 Month).
3. Press **UP** or **DOWN** to change filter months
4. Press **RUN** to advance to **SP** (Service Period). The clock display will begin flashing **06** (6 months)
5. Press **UP** or **DOWN** to change service months.
6. Press **RUN** to advance to **ULP** (UV Light Period). The clock display will begin flashing **00** (0 or zero months)
7. Press **UP** to set UV Light months.
8. Press **RUN** to finish

Tip: Count number of months to next Filter Check, System Service CFS or UV Light CFS and enter that number.

Changing to & Adjusting Filter, Service and UV Light Hours

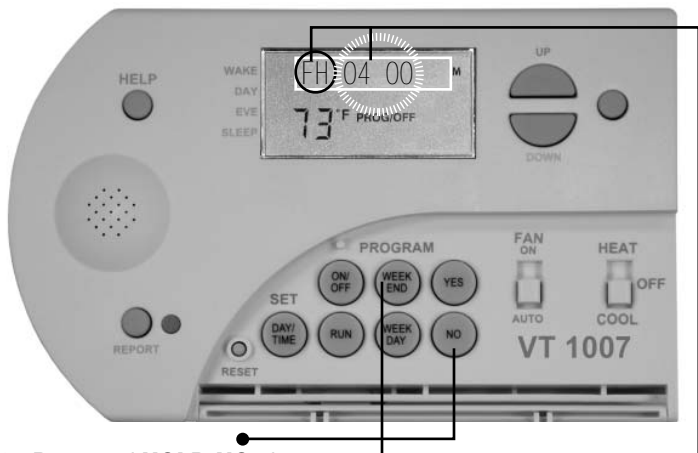


1. To enter **HOURS** of operation (instead of **MONTHS**) press the **DOWN** key until **FP 00** (zero) appears and press **RUN**.
2. Display changes to flashing **FH 04 00** (400 hours)
3. Press the UP or DOWN key to change the Filter **HOURS**

Note: Check Filter alert can be turned off by setting it to FH 00 00. This is useful for boiler systems without air filters

4. Press the **RUN** Key and display changes to flashing **SH 30 00** (3000 hours)
5. Press the **UP** or **DOWN** key to change the Service **HOURS**
6. Press **RUN** and the displays changes to flashing **ULH 00 00**
7. Press **UP** to change UV Light **HOURS**
8. Press **RUN** Key to **Finish**

Reviewing Filter and Service Months (or Hours)

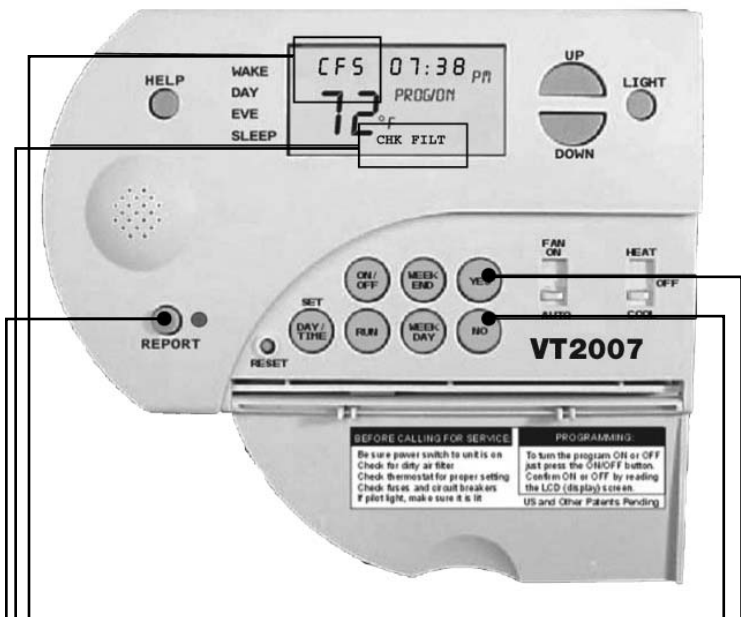


1. Press and **HOLD NO**, then
2. Press and **HOLD WEEK END** until **SET POINT TEMPERATURE** displays **FP** (Filter Period) or **FH** (Filter Hours). The number of months that has elapsed or hours the system has been operating will be displayed.
3. Program will automatically advance to **SP** (Service Period) or **SH** (Service Hours). The number of months that has elapsed or hours the system has been operating will be displayed.
4. Program will automatically advance to **ULP** (UV Light Period) or **ULH** (UV Light Hours). The number of months that has elapsed or hours the system has been operating will be displayed.

Quickly Review All Settings (Filter, Service, UV Light, Cycle Rate & 2nd Stage Differential)

To quickly review all settings for CHK Filter, CFS, ULV, Cycle Rate and 2nd Stage Differential, press and hold **NO** then **WEEKEND**. When FP or FH appears press **YES** to view all current settings.

Clearing and Resetting Period (or Hours) for CFS (for service), CFS (for UV Light) and CHK FILT



To remove **“CFS”** for **Service** Period or Service Hours, Press and **HOLD NO** for 6 seconds until **“CFS”** disappears. Resets Service Period to 0 (zero) months or Service Hours to 1.

To remove **“CFS”** for **UV Light** Period or UV Light Hours, Press and **HOLD YES** for 6 seconds until **“CFS”** disappears. Resets UV Light Period to 0 (zero) months or UV Light Hours to 1. This also resets Check Filter (see below)

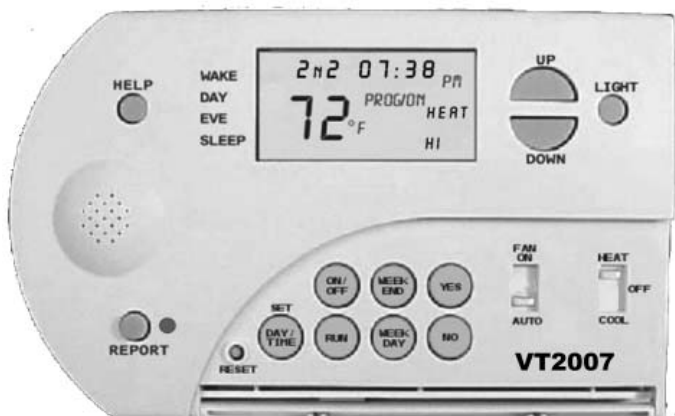
To remove **CHK FILT** and reset Filter Period to 0 (zero) months or Filter Hours to 1, Press the **REPORT** key.

To manually reset **Filter Period** to 0 (zero) months or Filter Hours to 1, Press and **HOLD YES** for 6 seconds. This also resets UV Light Period (see above)

VT2007 ONLY

2nd Stage Heat Operation

Setting 2nd Stage Differential & HP Emergency Heat



HEAT 2-Stage Operation

In 1st stage, the **HEAT** icon shines steady.

In 2nd stage, the **HI** and **HEAT** icons shine steady.

Note: When 1st stage first cycles on, it **WAITS 8 MINUTES** before advancing to 2nd stage. If during this delay demand requires 2nd stage the **HI** and **DELAY** icons will flash.

Changing 2nd Stage Differential

Press the **UP** and **DOWN** keys together and **HOLD** until **INDOOR TEMPERATURE** starts to FLASH. RELEASE. Then press again until **Cr1** appears in setpoint locations. Press again and **HOLD** until **2n2** appears in setpoint location. Press **UP** or **DOWN** key to move to desired setting. Then press **RUN**.

2nd Stage Differential Settings

Please see table on (next) page 15

Activating Emergency Heat (Heat Pumps Only)

To activate **EMERGENCY HEAT ONLY** on heat pump systems, press and **HOLD RUN** and **YES** until Eon alternately FLASHES with the setpoint temperature. To deactivate **EMERGENCY HEAT ONLY**, press and **HOLD RUN** again until Eof briefly appears and then disappears. Running **EMERGENCY HEAT** also reduces the time delay between stages to **1 MINUTE**.

Note: On heat pump systems the **GAS/ELECTRIC SWITCH** located on **CIRCUIT BOARD** below the battery holder must be in the "**E**" (Electric) position.

VT2007 and VT2207

2nd Stage Differential Settings

- 2nd Stage Differential is the sum of “Cycle Rate” (See Page 4) and the “2nx” selected (below)
- When thermostat is running in 2nd Stage, the HEAT and HI icons or (VT2207 only) the COOL and HI icons are displayed
- To reduce the 8 min delay between 1st and 2nd Stage, move the HEAT/COOL switch to OFF and then press and hold YES & RUN together for 10 seconds.

Differential Setting	2 nd Stage ON F° (C°) Differential from 1 st Stage	2 nd Stage OFF F° (C°) Differential from 1 st Stage	Comment
2n0	None	None	2 nd Stage is not activated. Use the setting on single stage systems
2n1	0.5° F (.25° C)	0.5° F (.25° C)	Takes out 2 nd Stage before satisfied
2n2 (Default Setting)	1.0 F (.50° C)	0.5° F (.25° C)	Takes out 2 nd Stage before satisfied
2n3	1.5 F (.75° C)	0.5° F (.25° C)	Takes out 2 nd Stage before satisfied
2n4	2.0 F (1.0° C)	0.5° F (.25° C)	Takes out 2 nd Stage before satisfied
2n5 (for 2 Stage Heat)*	1.0 F (1.0° C)	Same as 1 st Stage	2nd Stg stays energized until 1 st Stg satisfied
2n6 (for 2 Stage Heat)*	1.0 F (1.0° C)	Same as 1 st Stage	2nd Stg stays energized until 1 st Stg satisfied
2n7 (for Dual Fuel)**	1.0 F (.50° C)	Same as 1 st Stage	VT2007 Only (locks out 1 st Stage on call for 2 nd stage)
2n8 (for Dual Fuel)**	2.0 F (1.0° C)	Same as 1 st Stage	VT2007 Only (locks out 1 st Stage on call for 2 nd stage)

* 2n5 and 2n6 are for 2 Stage Electric Heat systems and run 1st Stage until 1st Stage is satisfied.

** 2n7 and 2n8 are for Dual Fuel / Hybrid systems and locks out 1st Stage when 2nd Stage is energized (VT2007 only).

VT2207 ONLY

2nd Stage Heat / Cool Operation

Setting 2nd Stage Differential Not for Heat Pumps



HEAT 2-Stage Operation

In 1st stage the **HEAT** icon shines steady

In 2nd stage the **HI** and **HEAT** icon shines steady

Note: When 1st stage first cycles on it **waits 8** minutes before advancing to 2nd stage. If during this delay demand requires 2nd stage the **HI** and **DELAY** icons will flash.

COOL 2-Stage Operation

In 1st stage the **COOL** Icon shines steady

In 2nd stage the **HI** and **COOL** Icon shines steady

For more details of operation see User's Guide (in product box) page 7.

Note: When 1st stage first cycles on it **waits 3** minutes before advancing to 2nd stage. If during this delay demand requires 2nd stage the **HI** and **DELAY** icons will flash.

Changing 2nd Stage Differential

See page 14 VT2007 "Setting 2nd Stage Differential" and the "2nd Stage Differential Table" on page 15.

NOT for Heat Pumps

Note: The VT2207 is **NOT** designed to operate 2 Stage Heat Pump Systems

Talking Thermostat

Troubleshooting & Time Saving Tips

Note! Unlike other programmable thermostats most Talking Thermostat problems can be corrected over the phone.

Calibration

- Never calibrate thermostat until system has run through one complete cycle. If calibration is required see page 2.
- HEAT Mode Complaints Calibration Solution
 - “Gets too hot” Raise the Indoor Temp 1 or 2 degrees
 - “Too cold when shuts off” Lower Indoor Temp 1 or 2 degrees
- COOL Mode Complaints Calibration Solution
 - “Gets too cold” Raise Indoor Temp 1 or 2 degrees.
 - “Too warm when shuts off” Lower Indoor Temp 1 or 2 degrees.

Improper or Erratic Operation

(no heat or cool, incorrect display screen characters, indoor temp stuck, wrong indoor temp reading, etc.):

- Check for low battery voltage. Make sure at least 3.00 Volts per pair
- If a model VT1007 make sure jumper between RH & RC.
- Check that wiring is connected to the correct terminals per wiring diagram.
- Processor possibly spiked by a static discharge. Do an FFr Reset.

Heat/Off/Cool Switch or Fan Switch stuck or hard to move

99% of time common from transformer has been applied to circuit board. Most switch damage can be repaired. Call for a Warranty Return Authorization Form.

Time Saving Tips

- All time delays can be by-passed for 10 minutes by pressing both the NO and Light Keys for 10 seconds.
- VT2007 and VT2207 Only: To reduce the 8 min delay between 1st and 2nd Stage, move the HEAT/COOL switch to OFF and then press and hold YES & RUN together for 10 seconds. **Note:** To reset the 1-minute delay back to 8 minutes, do an FFr.
- To review time and temperature program settings or make just one or two changes, press the NO key when “minutes” are flashing. Program will advance to next time period (WAKE, DAY, EVE or SLEEP).

Tech Support - 8 A.M. to 5 P.M. CST
Phone Toll Free 866-743-5663