White Rodgers

80 Series Thermostat with Automatic Heat/Cool Changeover Option

Single Stage, Multi-Stage or Heat Pump Installation and Operating Instructions for Model:

Programming Choices

Non-Programmable

5/1/1 Day 5/2 Day Non-Programmable

Model

1F85-0471

1F83-0471

Save these instructions for future use!

FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS CONTROL COULD CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

APPLICATIONS-

THERMOSTAT APPLICATION GUIDE

Description					
Heat Pump (No Aux. or Emergency Heat)	Yes				
Heat Pump (with Aux. or Emergency Heat)	Yes				
Systems with up to 3 Stages Heat, 2 Stages Cool	Yes				
Heat Only Systems (with optional fan switch)	Yes				
Millivolt Heat Only Systems – Floor or Wall Furnaces					
Cool Only Systems					
Gas or Oil Heat					
Electric Furnace					
Hydronic (Hot Water) Zone Heat – 2 Wires	Yes				
Hydronic (Hot Water) Zone Heat – 3 Wires	Yes				

SPECIFICATIONS-

Electrical Rating:	
Battery Power	mV to 30 VAC, NEC Class II, 50/60 Hz or DC
Input-Hardwire	20 to 30 VAC
Terminal Load	1.5 A per terminal, 2.5A maximum all terminals combined
Setpoint Range	45° to 90°F (7° to 32°C)
Differential (Single Stage)	Heat 0.6°F; Cool 1.2°F (adjustable)
Differential (Heat Pump)	Heat 1.2°F; Cool 1.2°F (adjustable)
Operating Ambient	32° to +105°F (0° to +41°C)
Operating Humidity	90% non-condensing max.
Shipping Temperature Range	-4° to +150°F (-20° to +65°C)
Dimensions Thermostat	3.4"H x 4.4"W x 1.3"D

CAUTION Λ

To prevent electrical shock and/or equipment damage, disconnect electric power to system at main fuse or circuit breaker box until installation is complete.

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ATTENTION: MERCURY NOTICE

This product does not contain mercury. However, this product may replace a product that contains mercury.

Mercury and products containing mercury must not be discarded in household trash. Do not touch any spilled mercury. Wearing non-absorbent gloves, clean up any spilled mercury and place in a sealed container. For proper disposal of a product containing mercury or a sealed container of spilled mercury, place it in a suitable shipping container and send it to:

> White-Rodgers 2895 Harrison Street Batesville, AR 72501



www.white-rodgers.com

PART NO. 37-6835B Replaces 37-6835A 0716

1F83-0471 Thermostat



INSTALLATION

WARNING

Thermostat installation and all components of the control system shall conform to Class II circuits per the NEC code.

Remove Old Thermostat

- A standard heat/cool thermostat consists of three basic parts:
- 1. The cover, which may be either a snap-on or hinge type.
- 2. The base, which is removed by loosening all captive screws.
- 3. The switching subbase, which is removed by unscrewing the mounting screws that hold it on the wall or adapter plate. Before removing wires from old thermostat, label each wire with the terminal designation from which it was attached. Disconnect the wires from the old thermostat one at a time. Do not let wires fall back into the wall.

Installing New Thermostat

- 1. Pull the thermostat body off the thermostat base. Forcing or prying on the thermostat will cause damage to the unit.
- 2. Place base over hole in wall and mark mounting hole locations on wall using base as a template.
- Move base out of the way. Drill mounting holes. If you are using existing mounting holes and the holes drilled are too large and do not allow you to tighten base snugly, use plastic screw anchors to secure the base.
- Fasten base snugly to wall using mounting holes shown in Figure 2 and two mounting screws. Leveling is for appearance only and will not affect thermostat operation.
- 5. Connect wires to terminal block on base.
- 6. Push excess wire into wall and plug hole with a fire resistant material (such as fiberglass insulation) to prevent drafts from affecting thermostat operation.
- 7. Carefully line the thermostat up with the base and snap into place.

Batteries

2 "AA" alkaline batteries are included with the thermostat. To install the batteries, pull the battery door as shown by the arrow and lift open. Using the polarity indicated inside the battery door, insert the batteries. To close the battery door, swing the door down while pulling in the direction of arrow. Once fully down, snap the door back into position. To replace the batteries, set system to OFF.





Thermostat can be powered by system AC power or Battery. If IIID is displayed, the thermostat is battery powered. If IIID is not displayed, thermostat is system powered with optional battery back-up. When battery power remaining is approximately half, the IID will be displayed. When "Change IID" " is displayed, install fresh "AA" alkaline batteries immediately. For best results, replace all batteries with new premium brand alkaline batteries such as Duracell[®] or Energizer[®]. We recommend replacing batteries every 2 years. If the home is going to be unoccupied for an extended period (over 3 months) and III is displayed, the batteries should be replaced before leaving. When less than two months of battery life remain, the setpoint temperature will offset by 10 degrees (10 degrees cooler in Heat mode / 10 degrees warmer in Cool mode). If offset occurs, the normal setpoint can be manually reset with or or . Another offset will occur within two days if batteries are not replaced.





WIRING CONNECTIONS

Refer to equipment manufacturers' instructions for specific system wiring information. After wiring, see CONFIGURA-TION section for proper thermostat configuration. Refer to **37-6843** for 1F83-0471/1F85-0471 wiring diagram specifications.

TERMINAL DESIGNATION DESCRIPTIONS

Terminal	
Designation	Description
L	. Heat pump malfunction indicator for systems
	with malfunction connection
Ο	. Changeover valve for heat pump energized
	constantly in cooling
В	. Changeover valve for heat pump energized
	constantly in heating
Υ	. Compressor Relay
Y2	. 2nd Stage Compressor
W/E	. Heat Relay/Emergency Heat Relay (Stage 1)
W2	. 2nd Stage Heat (3rd Stage Heat in HP 2)
G	. Fan Relay
RH	Power for Heating
RC	Power for Cooling
С	Common wire from secondary side of cooling
	system transformer or heat only system transformer
6	. 3 Wire Zone Valve – Energized when no call
	for Heat

THERMOSTAT QUICK REFERENCE

Home Screen Description

Figure 3 – Home Screen Display



INSTALLER/CONFIGURATION MENU -

Press the Menu button for at least 5 seconds. The display will show item #1 in the table below. Press Menu to advance to the next menu item. Press (a) or (b) to change a menu item. Shaded items available on 1F85 model only.

	INSTALLER/CONFIGURATION MENU								
MENU REF.	HP	ss	PRESS BUTTON	DISPLAYED (FACTORY DEFAULT)	Press (or (to select from listed options	COMMENTS			
1	1	1	MENU	(MS 2)	HP 1, HP 2, SS 1	Selects Multi-Stage (MS 2 No Heat Pump), Heat Pump 1 (HP 1, 1 compressor), Heat Pump 2 (HP 2, 2 compressor or 2 speed compressor), or Single Stage (SS 1)			
2	2	2	MENU	(GAS) for SS or MS (ELE) for HP	ELE	GAS setting: furnace controls the blower ELE setting: thermostat controls the blower			
3	3	3	MENU	CS (3)	1, 2, 4, 5, 6	Selects Cool Savings Value 1 (low) to 6 (high)			
4	4	4	MENU	E (On)	OFF	Selects Energy Management Recovery (EMR) On or OFF. 1F85 only			
5	-	5	MENU	CR Heat (ME)	SL, FA	Adjustable Anticipation: Selects heating cycle rate for MS or SS			
6	5	-	MENU	CR Heat Pump (ME)	SL, FA	Adjustable Anticipation (Heat Pump) (only when heat pump selected in #1)			
7	6	6	MENU	CR Cool (ME) or CR Emer (FA)	SL, FA SL	Adjustable Anticipation: Selects the cycle rate for cooling (only when MS 2 or SS 1 is selected in item 1.) or Selects the cycle rate for Emergency mode and Auxiliary stage if Heat Pump is selected in item 1.			
8	7	7	MENU	CL (OFF)	CL On	Compressor Lockout Time			
9	8	8	MENU	Heat Cool Off	Heat Auto Cool Off, Heat Off with Fan icon, Heat Off without Fan icon Cool Off, Auto Off	System Mode Configuration with Automatic Changeover capability			
10	9	9	MENU	dL (On)	dL OFF	Selects Display Light On or OFF			
11	10	10	MENU	0 (current temperature)	1 HI, 2 HI, 3HI, 4 HI, 1 LO, 2 LO, 3 LO, 4 LO	Adjustable Ambient Temperature Display			
12	11	11	MENU	°F	°C	Selects Fahrenheit/Celcius Temperature Display			
13	12	12	MENU	P3	P0, P2	Defaults for 5-1-1 programming (P3) but non- programmable (PO) or 5-2 programming (P2) is available on most models. 1F85 only			
14	13	13	MENU	Heat AS (On)	OFF	Automatic Schedule for heat mode. 1F85 only			
15	14	14	MENU	Cool AS (On)	OFF	Automatic Schedule for cool mode. 1F85 only			
16	15	-	MENU	Heat FA (On)	OFF	Fast Heat option may be disabled by selecting OFF. NA to SS config.			
17	16	-	MENU	Cool FA (On)	OFF	Fast Cool option may be disabled by selecting OFF. NA to SS config.			
18	17	15	MENU	dS (On)	OFF	Selects Automatic d aylight S avings Time option On or OFF. 1F85 only			
19	18	16	MENU	Change Filter (OFF)	On	Selects Filter Change-out Indicator On or OFF.			
			MENU	Change Filter (200 h)	25-1975 h	Change Filter time in 25 hour increments. This menu only appears if On is selected in above.			
20	19	17	MENU	Cool On (o)	Heat On (b)	Selects operation of the reversing valve terminal (O/B) output as an O or B terminal.			
	20	18	RUN SCHED			Returns to Normal Operation			

INSTALLER/CONFIGURATION MENU

- This control can be configured for: MS 2 – Multi-Stage System (no heat pump) HP 1 – Heat Pump with one stage of compressor HP 2 – Heat Pump with two stage compressor or two compressor system, Gas or Electric backup SS 1 – Single Stage System
- GAS or Electric (ELE) fan operation. If the heating system requires the thermostat to energize the fan, select ELE. Select GAS if the heating system energizes the fan on a call for heat.
- 3) Select Cool Savings™ value Selects the amount of adjustment for the Cool Savings™ feature in Cool mode with 1 (1°) being the least amount of adjustment and 6 (6°) being the most amount of adjustment. Default value is 3. Cool Savings is an optional energy saving feature that can reduce your cooling costs. It is based on the principal that lower indoor humidity makes a slightly higher temperature feel more comfortable. Cool Savings operates during periods of high demand which normally occur on he hottest summer days when a cooling system may run for hours to reach the thermostat setting. Long cooling run times also lower the indoor humidity. Cool Savings, very slowly, adjusts the setpoint temperature to make the setpoint closer to the displayed room temperature, to a maximum of the number of degrees you select. Adjusting the setpoint temperature over a long cooling run time allows the system to reach your set temperature and turn off. The room temperature will actually be higher than the thermostat displays but the reduction in humidity will allow comfort at the slightly higher temperature.

To turn this feature on in the Cool mode press **Cool Sav**ings. The display will show **"Save"** next to the setpoint temperature. When Cool Savings is making adjustments to the room temperature display **"Save"** will be flashing and the displayed room temperature may vary within the adjustment range you selected.

If **"Save"** is not displayed and this feature is OFF, no change will occur when the cooling system is continuously running during periods of high demand.

4) Energy Management Recovery: (this step is skipped if configured to be non-programmable). Energy Management Recovery (E) On enables the thermostat to start heating or cooling early to make the building temperature reach the program setpoint at the time you specify. Heating will start 5 minutes early for every 1° of temperature required to reach setpoint. Example: E On is selected and your heating is programmed to 65° at night and 70° at 7 AM. If the building temperature is 65°, the difference between 65° and 70° is 5°. Allowing 5 minutes per degree, the thermostat setpoint will change to 70° at 6:35 AM. Cooling allows more time per degree, because it takes longer to reach set temperature.

5, 6 & 7) Cycle Rate Selection – The factory default setting for Heat and Cool modes, SS1, MS2, is medium cycle (ME). For Heat Pump, HP1, HP2, the default setting is medium (ME). For Emer (Aux) the default setting is fast cycle (FA).To change cycle rate, press the () or () key.

Cycle rate differentials for different settings are:

MODE	Fast FA	Medium ME	Slow SL
Heat (SS1, MS2)	0.4°F	0.6°F	1.7°F
Cool (SS1, MS2)	0.9°F	1.2°F	1.7°F
Heat Pump (HP1, HP2)	0.9°F	1.2°F	1.7°F
Emer (HP1, HP2)	0.6°F	-	1.7°F

8) Select Compressor Lockout CL OFF or ON – Selecting CL ON will cause the thermostat to wait 5 minutes between cooling cycles. This is intended to help protect the compressor from short cycling. Some newer compressors already have a time delay built in and do not require this feature. Your compressor manufacturer can tell you if the lockout feature is already present in their system. When the thermostat compressor time delay occurs, it will flash the setpoint for up to five minutes.

- 9) System Mode Configuration This thermostat is configured for Heat and Cool (SYSTEM switch with Cool Off Heat) default. It can also be configured for Heat and Cool with Auto changeover (Heat, Auto, Cool, Off), Heat only with fan (Off Heat), Heat only without fan, Auto only (Auto Off), and Cool only (Cool Off).
- 10) Select Backlight Display The display backlight improves display contrast in low lighting conditions. When the "C" terminal is powered, selecting backlight CdL ON will keep the light on continuously. Select backlight OFF will turn the light on momentarily after any key is pressed. When the "C" terminal is not powered, the light will be on momentarily after any key is pressed no matter whether the backlight is selected ON or OFF.
- 11) Select Temperature Display Adjustment 4 LO to 4 HI Allows you to adjust the room temperature display up to 4° higher or lower. Your thermostat was accurately calibrated at the factory, but you have the option to change the display temperature to match your previous thermostat. The current or adjusted room temperature will be displayed.
- 12) **Select F° or C° Readout** Changes the display readout to Centigrade or Fahrenheit as required.
- 13) Program Options: 1F85 only, configured for 5/1/1 day or 5/2 day programming or non-programming mode. The default setting is P2, indicating 5/2 day programming. The programs per week can be toggled to P3 or P0 by pressing the or keys. A selection of 0 Days for non-programmable will eliminate the need for EMR, and that step in the menu will be skipped.
- 14 & 15) Select Automatic Schedule 1F85 only, with just one touch of the Auto Schedule key this feature allows you to program a desired comfort temperature into all the program periods along with a 6° set back for night periods of both Heat and Cool programs. Factory default is "On" for both. When Heat AS On and Cool AS On are activated while in Heat or Cool mode, select desired setpoint temperature and press Auto Schedule. This value will be copied into all the morning, day and evening program periods. The night program periods will have a 6°F set back.
- 16 & 17) Select Fast Second Stage ON or OFF Heat pump or Multi-stage only, in the run mode, with the fast Heat feature enabled (FA Heat On), if the Heat setpoint temperature is manually raised by 3°F (2°C) or more above the actual temperature using the second stage will energize immediately. With FA OFF, second stage will not energize until the setpoint temperature is 1°F or more above actual temperature for more than ten minutes. The Fast Cool feature (FA Cool) provides the same controls when the setpoint temperature is lowered.
- 18) Select Daylight Saving Time Calculation 1F85 only, this feature will allow the thermostat to calculate the DST automatically and apply it to the Real Time Clock display. Default On. Use or touch keys to select the feature OFF.
- 19) Select Filter Replacement Reminder and Set Run Time Select the "Change Filter" reminder On or OFF. If selected On, press MENU to select the time period from 25 to 1975 hours in 25 hours increments. In a typical system, 200 hours (default) of run time is approximately 30 days. After the selected time of blower operation, the thermostat will display "Change Filter" as a reminder to change or clean your air filter. When "Change Filter" is displayed, press MENU or RUN SCHED button to clear the display and restart the time to the next filter change.
- 20) Select Reversing Valve Output The O/B option is factory set at "O" position. This will accommodate the majority of heat pump applications, which require the changeover relay to be energized in COOL. If the thermostat you are replacing or the heat pump being installed with this thermostat requires a "B" terminal, to energize the changeover relay in HEAT, the O/B option should be set at "B" position.

OPERATING YOUR THERMOSTAT-

Choose the Fan Setting (Auto or On)

Set the FAN Switch to Auto or On.

Fan **Auto** is the most commonly selected setting and runs the fan only when the heating or cooling system is on. Fan **On** runs the fan continuously for increased air circulation or to allow additional air cleaning.

Choose the System Setting (Heat, Off, Cool, Auto, Emer) Press the SYSTEM button to select:

Heat: Thermostat controls only the heating system.

Off: Heating and Cooling systems are off.

Cool: Thermostat controls only the cooling system.

Auto: Auto Changeover is used in areas where both heating and cooling may be required on the same day. **AUTO** allows the thermostat to automatically select heating or cooling depending on the indoor temperature and the selected heat and cool temperatures. When using **AUTO**, be sure to set the Cooling temperatures more than 1° Fahrenheit higher than the heating temperature.

Emer: (Heat Pump models) Thermostat controls only backup heating system.

------ IMPORTANT! -

Manual Operation for Non-Programmable Mode

Press the SYSTEM button to select Heat or Cool and use the
or
buttons to adjust the temperature to your desired setting. After selecting your desired settings you can also press the SYSTEM button to select **AUTO** to allow the thermostat to automatically change between Heat and Cool.

Manual Operation (Bypassing the Program) Programmable Thermostats

Press (a) or (v) and then the HOLD button and adjust the temperature wherever you like. This will override the program. The **HOLD** feature bypasses the program and allows you to adjust the temperature manually, as needed. Whatever temperature you set in **HOLD** will be maintained 24 hours a day, until you manually change the temperature or press **Run Sched** to cancel **HOLD** and resume the programmed schedule.

Program Override (Temporary Override)

Press (a) or (b) buttons to adjust the temperature. This will override the temperature setting until the next programmed time. To cancel the temporary setting at any time and return to the program, press **Run Sched**. If the SYSTEM button is pressed to select **AUTO** the thermostat will change to Heat or Cool, whichever ran last. If it switches to heat but you want cool, or it changes to cool but you want heat, press both (c) and (c) buttons simultaneously to change to the other mode.

PROGRAMMING (For Programmable Model Only) -

Set Current Time and Day

- 1) Press Menu and then Time button once. The display will show the hour only.
- Press and hold either the or key until you reach the correct hour and AM/PM designation (AM begins at midnight, PM begins at noon).
- 3) Press Time once again. The display window will show the minutes only.
- Press and hold either the or key until you reach the correct minutes.
- 5) Press Time once again. The display will show the day of the week.
- 6) Press the (a) or (b) key until you reach the current day of the week.
- 7) Press Run to exit the Time mode.

Enter the Heating Program

- Press SYSTEM button to select "Heat" in the system switch area indicating the active mode being programmed.
- 2) Press the Menu button and then press Schedule.
- The top of the display will show the day(s) being programmed. The time and temperature (flashing) are also displayed. "1" will also be displayed to indicate the period.
- Press or vertical key to change the temperature to your selected temperature for the 1st heating period.
- 5) Press Time button, time will flash.
- Press or key to adjust the start time for the 1st period.
- 7) The time will change in 15 minute increments.
- After you have set the time and the temperature for the period to begin, press Schedule to advance to the next program period.
- Repeat steps 2 through 8 until all of the program times and temperatures are set for all program periods on that day.
- 10)Press Schedule to the next day and repeat steps 2 through 9.
- 11)When programming is complete and all of the times and temperatures match your desired heating schedule, press Run Schedule. The thermostat will now run your program.

Enter the Cooling Program

- Press SYSTEM button to select "Cool" in the system switch area indicating the active mode being programmed.
- 2) Follow Enter Heating Program instructions for entering cooling times and temperatures.

PROGRAMMING (For Programmable Model Only) -

Energy Saving Factory Pre-Program

The 1F85-0471 thermostats are programmed with the energy saving settings shown in the table below for all days of the week. If this program suits your needs, simply set the thermostat clock and press the **RUN Sched** button. The table below shows the factory set heating and cooling schedule for all days of the week.

	Wake Up (Period 1)		Wake UpLeave For Work(Period 1)(Period 2)		Return Home (Period 3)		Go To Bed (Period 4)	
Heating Program	6:00 AM	70°F	8:00 AM	62°F	5:00 PM	70°F	10:00 PM	62°F
Cooling Program	6:00 AM	75°F	8:00 AM	83°F	5:00 PM	75°F	10:00 PM	78°F

Planning Your Program – Important

The Heating and Cooling Program schedules below allow you to pencil in your own program times and temperatures. The 1F85-0471 comes configured for 5/1/1 day programming and can also be configured for 5/2 day programming (see configuration section).

Factory settings are listed on Monday through Friday, Saturday and Sunday. If you are re-programming a 5/2 day schedule, pencil in your own times and temperatures directly below the factory times and temperatures.

If you are re-programming a 5+1+1 fill in all lines with the times and temperatures you want.

Keep the following guidelines in mind when planning your program.

- In Heating, lower temperatures will save energy.
- In Cooling, higher temperatures will save energy.

· If you plan on using Auto Changeover, do not program the heating higher than the cooling.

Worksheet for Re-Programming 5/2 Day and 5+1+1 Day Program

Heating Program	Wake (Perio	Up d 1)	Leave For Work (Period 2)		Return Home (Period 3)		Go To Bed (Period 4)	
Mo-Fr	6:00 AM	70°F	8:00 AM	62°F	5:00 PM	70°F	10:00 PM	62°F
Sat-Sun	6:00 AM	70°F	8:00 AM	62°F	5:00 PM	70°F	10:00 PM	62°F
or Sat								
Sun	6:00 AM	70°F	8:00 AM	62°F	5:00 PM	70°F	10:00 PM	62°F
5+1+1 only								

Cooling Program	Wake (Perio	Up d 1)	Leave For Work (Period 2)		Return Home (Period 3)		Go To Bed (Period 4)	
Mo-Fr	6:00 AM	75°F	8:00 AM	83°F	5:00 PM	75°F	10:00 PM	78°F
Sat-Sun	6:00 AM	75°F	8:00 AM	83°F	5:00 PM	75°F	10:00 PM	78°F
or Sat								
Sun	6:00 AM	75°F	8:00 AM	83°F	5:00 PM	75°F	10:00 PM	78°F
5+1+1 only								

TROUBLESHOOTING -

Reset Operation

Note: When thermostat is reset, installer configuration menu settings and programming will reset to factory settings.

If a voltage spike or static discharge blanks out the display or causes erratic thermostat operation, you can reset the thermostat by removing the wires from terminals \mathbf{R} and \mathbf{C} (do not short them together) and removing batteries for 2 minutes. After resetting the thermostat, replace the wires and batteries. If the thermostat has been reset and still does not function correctly contact your heating/cooling service person or place of purchase.

Note: Be sure to review the installer configuration menu settings.

To reset the programming, clock and configuration settings, press (a) and (b) and the FAN button simultaneously. The thermostat should go blank and then all segments will be displayed momentarily.

Symptom	Possible Cause	Corrective Action			
No Heat/No Cool/No Fan (common problems)	 Blown fuse or tripped circuit breaker. Furnace power switch to OFF. Furnace blower compartment door or panel loose or not properly installed. Loose connection to thermostat or system. 	Replace fuse or reset breaker. Turn switch to ON. Replace door panel in proper position to engage safety interlock or door switch. Tighten connections.			
No Heat	 Pilot light not lit. Furnace Lock-Out Condition. Heat may also be intermittent. Heating system requires service or thermostat requires replacement. 	Re-light pilot. Many furnaces have safety devices that shut down when a lock-out condition occurs. If the heat works intermittently contact the furnace manufacturer or local HVAC service person for assistance. Diagnostic : Set SYSTEM Switch to HEAT and raise the setpoint above room temperature. Within a few seconds the thermostat should make a soft click sound. This sound usually indicates the thermostat is operating properly. If the thermostat does not click, try the reset operation listed above. If the thermostat does not click after being reset contact your heating and cooling service person or place of purchase for a replacement. If the thermostat clicks, contact the furnace manufacturer or a HVAC service person to verify the heating is operating correctly.			
No Cool	 Cooling system requires service or thermostat requires replacement. 	Same as diagnostic for No Heat condition except set the thermostat to COOL and lower the setpoint below the room temperature. There may be up to a five minute delay before the thermostat clicks in Cooling.			
Heat, Cool or Fan Runs Constantly1. Possible short in wiring. 2. Possible short in thermostat. 3. Possible short in heat/cool/fan system. 4. FAN Switch set to Fan ON.		Check each wire connection to verify they are not shorted or touching together. No bare wire should stick out from under terminal block. Try resetting the thermostat as described above. If the condition persists the manufacturer of your system or service person can instruct you on how to test the Heat/Cool system for correct operation. If the system operates correctly, replace the thermostat.			
Thermostat Setting & Thermostat Thermometer Disagree	1. Thermostat thermometer setting requires adjustment.	The thermometer can be adjusted +/- 4 degrees. See Temperature Display Adjustment in the Configuration Menu section.			
Furnace (Air Conditioner) Cycles Too Fast or Too Slow (narrow or wide temperature swing)	 The location of the thermostat and/or the size of the Heating System may be influencing the cycle rate. 	Digital thermostats provide precise control and cycle faster than older mechanical models. The system turns on and off more frequently but runs for a shorter time so there is no increase in energy use. If you would like an increased cycle time, choose SL for slow cycle in the Configuration menu, step 6 (heat), 7 (cool) or 8 (heat pump). If an acceptable cycle rate is not achieved, contact a local HVAC service person for additional suggestions.			

HOMEOWNER HELP LINE: 1-800-284-2925

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