

# Homeowner's Guide



Designed and Assembled  
in the USA.



A07109

## Legacy Line-RNC Series Programmable Thermostat SETTING TIME AND DAY

### At Power Up

When power is first applied, AC or HP will appear for 5 seconds to tell you it is an air conditioner (AC) or a heat pump (HP) model. After this, the time display will flash to tell you the power has been off.

### Setting The Current Time:

1. Press the TIME/TEMP button. SET TIME flashes on the display.
2. Press the UP or DOWN button until the correct time is displayed.
3. To quickly advance to the proper time, press and hold the UP or DOWN button.
4. When the correct time appears on the display, press the HOLD/END button.

**NOTE:** If you choose not to press the HOLD/END button, the thermostat will automatically exit the time setting mode after 10 seconds.

### Setting The Current Day:

1. Press the DAY button to advance to the correct day.
2. When the correct day appears on the display, press the HOLD/END button.

## MANUAL OPERATION

### To Operate Manually (Without the Programmed Comfort Schedule):

Press the HOLD/END button to make the HOLD icon appear. Then follow the four steps below:

- 1. To Select the Mode:**  
Use the H/C button to move between the choices. OFF, HEAT, COOL, or EMHT will appear on the display. EMHT will only appear on heat pump models.
- 2. To Select the Fan Operation:**  
Use the FAN button to move between continuous fan (indicated by the FAN ON icon) and auto fan operation.
- 3. To Read the Room Temperature:**  
The large display reads room temperature until a button is pressed.
- 4. To Adjust the Setpoint:**  
In normal operation, the large display shows room temperature. At the first press of the UP or DOWN button, the large display shows the current setpoint and the SET TEMP icon is turned on. Further presses of the UP or DOWN button adjust the setpoint upward or downward. Five seconds after the last button press, the display returns to the room temperature and the SET TEMP icon turns off.

## PROGRAMMED OPERATION

### Introduction

The Legacy Line-RNC Series Programmable Thermostat provides four periods per day (MORNING, DAY, EVE, NIGHT) and two schedules per week (MoTuWeThFr and SaSu). A separate time, heat setpoint, and cool setpoint can be set for each period and schedule. Before starting to actually program the thermostat, fill out Table 1 with the values you wish to program. (The Energy Star®, US Department of Energy recommended time and temperature values are already programmed for you as a starting point and are shown on the left side of the table.)

The first press of the PROGRAM button brings up the programming mode and places you at morning of the current day and period. Successive presses move you between the four daily periods.

### While Programming:

The TIME/TEMP button moves between three selections of SET TIME, SET TEMP & HEAT, and SET TEMP & COOL. These three numbers are to be programmed for each of the periods MORNING, DAY, EVE, and NIGHT.

The DAY button moves between the weekdays, (MoTuWeThFr) and the weekend (SaSu) selections. A different schedule may be set for the weekdays and the weekend. You may exit programming at any time by pressing the HOLD/END button.

## Programming A Weekly Comfort Schedule:

1. Press the PROGRAM button. The word PROGRAMMING appears on the display and the words SET TIME flash on the display. MoTuWeThFr or SaSu and the morning period icons will appear on the display. The current mode (HEAT or COOL) will also show. Use the DAY button to select weekdays and the PROGRAM button to select MORNING.
2. Press the UP or DOWN button to set the start time for MORNING ( 1) value in Table 1).
3. Press the TIME/TEMP button until COOL is on and SET TEMP flashes on the display.
4. Press the UP or DOWN button to select the cooling temperature setpoint ( 2) value in Table 1).
5. Press the TIME/TEMP button until HEAT is on and SET TEMP flashes on the display.
6. Press the UP or DOWN buttons to select the heating temperature setpoint ( 3) value in Table 1).
7. Press the PROGRAM button to advance to the next time period. Enter time and temperature settings ( 4) through 12 in Table 1) for the periods DAY, EVE, and NIGHT by following items 2-6 above.
8. Press the DAY button to change between weekday and weekend programming. To set the weekend schedule, repeat items 2 through 7, entering values in 13) through 24) in Table 1.
9. Press END/HOLD to exit the programming mode.

## Modifying Your Weekly Comfort Schedule

If you choose to change any of your weekly schedule, press PROGRAM at any time. You will enter the programming schedule at the present day, present mode, but always in the morning period. You are ready to set the new starting time for the morning period. One press of the TIME/TEMP button and you are ready to set the new morning temperature. To set values for other periods, use the PROGRAM button. To set values for other days, use the DAY button. Press HOLD/END and you are finished.

## Overriding Your Comfort Schedule

There are two ways to override your comfort schedule.

### Method 1 — Manual Operation

By pressing the HOLD/END button to turn on the HOLD icon, the thermostat will maintain the current temperature settings and ignore the comfort schedule for an indefinite period of time. The word HOLD will appear in the display. Press the HOLD/END button a second time and the thermostat will return the temperature

settings to the programmed comfort schedule. Pressing HOLD/END will not alter your programmed comfort schedule.

### Method 2 — Temporary Override

At the first press of the UP or DOWN button, the current temperature setting will appear on the display. Pressing the UP or DOWN button again will temporarily change the setpoint as needed. At the next programmed time, the programmed comfort schedule will resume.

## CHANGING BATTERIES

In some situations, two AA batteries are the power source for the thermostat. If batteries are used with your equipment then they should last about one year. As the batteries lose their power a battery icon appears on the display. As the batteries get weaker, the icon goes down to one black bar and then none. As the icon becomes empty, you will begin to lose thermostat functions because the batteries are losing their power. When the batteries are completely dead, you won't be able to use the thermostat.

When using batteries for power, we recommend you replace them with two AA alkaline batteries. They are in a compartment under the lid on top of the thermostat. You do not have to remove the thermostat from the wall to replace the batteries. Simply open the lid, lift out the batteries, and replace them like you would any other battery operated device.

## TROUBLESHOOTING

### What if AUX HEAT appears on the display? (Heat pump model only)

If auxiliary heat is on, you will see AUX HEAT indicator in the display. When it is on this means the system has determined that it's too cold outside for your heat pump to heat the house without help, so it's getting help from the electric heaters. This happens automatically.

**NOTE:** This indicator does not mean there is a problem with your system.

### What if E-Heat appears on the display?

If the heat pump is not working properly, you can manually turn on the emergency heat for extra help in heating. You'll know there's a problem if the house can't seem to get warm when it's cold outside.

You want to avoid using emergency heat, though, because it's the most expensive option. And, of course, if you suspect a problem with your heat pump, call your heating and cooling dealer immediately.

Table 1 – Programming Table

ENERGY STAR FACTORY DEFAULT VALUES				NEW COMFORT SCHEDULE					
PERIOD	TIME	COOL	HEAT	MoTuWeThFr TIME	COOL	HEAT	SaSu TIME	COOL	HEAT
MORNING	6:00 A.M.	78°F 26°C	68°F 20°C	1)	2)	3)	13)	14)	15)
DAY	8:00 A.M.	85°F 29°C	60°F 16°C	4)	5)	6)	16)	17)	18)
EVE	5:00 P.M.	78°F 26°C	68°F 20°C	7)	8)	9)	19)	20)	21)
NIGHT	10:00 P.M.	82°F 28°C	60°F 16°C	10)	11)	12)	22)	23)	24)



# Bryant Heating & Cooling Systems

## Limited Warranty for Thermostats

### FOR WARRANTY SERVICE OR REPAIR:

Contact the installer or a Bryant dealer. You may be able to find the installer's name on the equipment or in your Owner's Packet. You can also find a Bryant dealer online at [www.bryant.com](http://www.bryant.com)

For help, contact: Bryant Heating & Cooling Systems, Consumer Relations, P.O. Box 4808, Syracuse, New York 13221, Phone 1-800-428-4326

**PRODUCT REGISTRATION:** You can register your product online at [www.bryant.com](http://www.bryant.com).

Model Number \_\_\_\_\_ Serial Number \_\_\_\_\_  
 Date of Installation \_\_\_\_\_ Installed by \_\_\_\_\_  
 Name of Owner \_\_\_\_\_ Address of Installation \_\_\_\_\_

Bryant Heating & Cooling Systems (hereinafter "Company") warrants this product against failure due to defect in materials or workmanship under normal use and maintenance as follows. All warranty periods begin on the date of original installation. If a part fails due to defect during the applicable warranty period Company will provide a new or remanufactured part, at Company's option, to replace the failed defective part at no charge for the part. Alternatively, and at its option, the Company will provide a credit in the amount of the then factory selling price for a new equivalent part toward the retail purchase price of a new Company product. Except as otherwise stated herein, those are Company's exclusive obligations under this warranty for a product failure. This limited warranty is subject to all provisions, conditions, limitations and exclusions listed below and on the reverse (if any) of this document.

### OWNER-OCCUPIED, RESIDENTIAL APPLICATIONS

This warranty is to the original purchasing owner and is transferable only to the extent and as stated in the Warranty Conditions and below. The warranty period in years, depending on the part and the claimant, is as shown in the chart below.

Product	Limited Warranty (Years)	
	Original Owner	Subsequent Owner
T6, T2, T1 Thermostats***	10* (or 5)	5

\* If properly registered within 90 days, otherwise 5 years (except in California and Quebec and other jurisdictions that prohibit warranty benefits conditioned on registration, registration is not required to obtain longer warranty periods). See Warranty Conditions below.

\*\*\*Applies only to Thermostats. Active electronic finished good accessories, such as the optional ExP module, have different warranty terms. See product for details.

### OTHER RESIDENTIAL APPLICATIONS (Apartments, Rental Properties, etc.)

The warranty period is five (5) years. The warranty is to the original owner only and is not transferable.

### OTHER APPLICATIONS

The warranty is one (1) year on all such applications. The warranty is to the original owner only and is not transferable.

**LEGAL REMEDIES:** The owner must notify the Company in writing, by certified or registered letter to Bryant Heating & Cooling Systems, Warranty Claims, P.O. Box 4808, Syracuse, New York 13221, of any defect or complaint with the product, stating the defect or complaint and a specific request for repair, replacement, or other correction of the product under warranty, mailed at least thirty (30) days before pursuing any legal rights or remedies.



**THERMOSTAT LIMITED WARRANTY**

**WARRANTY CONDITIONS:**

1. To obtain the longer warranty periods as shown in the table under original owner, for the original purchaser, the product must be properly registered at [www.bryant.com](http://www.bryant.com) within ninety (90) days of original installation. In jurisdictions where warranty terms conditioned on registration are prohibited by law, registration is not required and the longer warranty period shown will be apply.
2. Where a product is installed in a newly constructed home, the date of installation is the date the homeowner purchased the home from the builder.
3. If the date of original installation cannot be verified, then the warranty period begins ninety (90) days from the date of product manufacture (as indicated by the model and serial number). Proof of purchase may be required at time of service.
4. The remainder of the first five years of warranty is freely transferable without registration.
5. Product must be installed properly and by a licensed HVAC technician.
6. The warranty applies only to products remaining in their original installation location.
7. Installation, use, care, and maintenance must be normal and in accordance with instructions contained in the Installation Instructions, Owner's Manual and Company's service information.
8. Defective parts must be returned to the distributor through a registered servicing dealer for credit.

**LIMITATIONS OF WARRANTIES: ALL IMPLIED WARRANTIES AND/OR CONDITIONS (INCLUDING IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE OR PURPOSE) ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. SOME STATES OR PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY OR CONDITION LASTS, SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESS WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON, WHATSOEVER.**

**THIS WARRANTY DOES NOT COVER:**

1. Labor or other costs incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts, or replacement parts, or new units.
2. Any product purchased over the Internet.
3. Normal maintenance as outlined in the installation and servicing instructions or Owner's Manual, including filter cleaning and/or replacement and lubrication.
4. Failure, damage or repairs from faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
5. Failure to start due to voltage conditions, blown fuses, open circuit breakers, or damages due to the inadequacy or interruption of electrical service.
6. Failure or damage due to floods, winds, fires, lightning, accidents, corrosive environments (rust, etc) or other conditions beyond the control of Company.
7. Parts not supplied or designated by Company, or damages resulting from their use.
8. Products installed outside the U.S.A. or its territories and Canada.
9. Electricity or fuel costs, or increases in electricity or fuel costs from any reason whatsoever, including additional or unusual use of supplemental electric heat.
10. Any cost to replace, refill or dispose of refrigerant, including the cost of refrigerant.
11. **ANY SPECIAL, INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER.** Some states or provinces do not allow the exclusion of incidental or consequential damages, so the above limitation may not apply to you.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province.

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