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ELECTRONIC THERMOSTAT



Owner's Manual MODEL 8551

5-2 Day Programmable Thermostat



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IMPORTANT: READ ALL INSTRUCTIONS THOROUGHLY

Programming your Aprilaire[®] Thermostat is done in three easy steps: setting the clock, setting the event times, and setting your desired temperatures.

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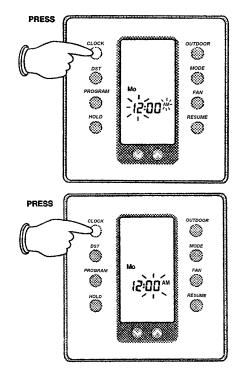
Setting Or Changing The Clock

Step 1: If you are currently in Daylight Saving Time (first Sunday in April thru fourth Sunday in October), press the **DST** button and " \bigcup_{+1H} " will appear in the lower right-hand corner of the display.

Step 2: Press the CLOCK button and "Mo" (or another day of the week) will flash. Use the DECREASE or INCREASE button to change the flashing symbol to the current day of week.

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Step 3: Press the **CLOCK** button again and "12:" (hours) and "AM" or "PM" will flash. Use the **DECREASE** or **INCREASE** button to change the flashing symbol to the current hour making sure the hour has the proper AM or PM designation.

Step 4: Press the **CLOCK** button and ":00" (minutes) will flash. Use the **DECREASE** or **INCREASE** button to change the flashing symbol to the current minute.

Step 5: Press the **CLOCK** button again. The clock is now set and the current time appears on the display.



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Setting Or Changing The Weekday Program

Programming your Aprilaire Electronic Thermostat involves selecting the temperature you want in your home and selecting the time you want it to be that temperature. Your Aprilaire Thermostat will allow a maximum of 4 time schedules per day. Each time schedule is known as an "event." The **Morning** event is typically when you wake up and is the first event of the day. The **Day** event is typically set when you leave for work. The **Evening** event is typically set when you come home from work and the **Night** event is set when you go to bed. Each event will have 1 cooling temperature. Your Aprilaire Thermostat allows 1 program for Monday through Friday and 1 program for Saturday and Sunday. Complete the chart on page 4 with your desired temperatures and time schedules before beginning programming.

NOTE: It will take some time for your cooling system to reach the desired temperature when returning from a setback. Therefore, it is suggested you set your program time before the actual time you want your home to reach the desired temperature. For example, if you get up at 7:00 AM and have a 6 degree setback, set your **Morning** event at 6:00 AM to be sure the desired temperature is reached by 7:00 AM.

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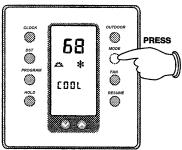
PROGRAM SCHEDULE

			TIME SCHEDULE	
EVENT	Thermostat Symbol	DESIRED TEMPERATURE SETTING	Monday - Friday	SATURDAY & SUNDAY
Morning	Ď:			
Day	Ņ			
Evening	þ			
Night	\langle			

NOTE: While programming you must press a button at least every 15 seconds or the thermostat will revert back to the operational mode. If this happens, simply repeatedly press the **PROGRAM** button until you get back to where you left off. The information you have already entered has been retained.

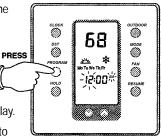
NOTE: If consecutive events have the same temperature, you can skip an event by simultaneously pressing the **PROGRAM** and **MODE** buttons. Press and release the **PROGRAM** button to advance to the next event.

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Step 1: Press and release the MODE button until the word "COOL" and the " COOL" cooling symbol appear on the display.

Step 2: Press and release the PROGRAM button – "Mo Tu We Th Fr"; Morning event symbol "____"; flashing "12:" (or some

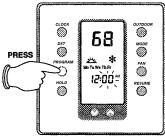


other hour); and flashing "AM" or "PM" will appear on the display. You are now setting the time you want your cooling equipment to come on in the morning.

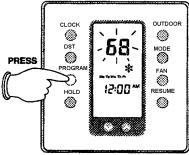
Step 3: Press the **DECREASE** button or **INCREASE** button to set the desired hour for the **Morning**

Step 4: Press and release the **PROGRAM** button – ":00" (or some other minutes) will flash.

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Step 5: Press the **DECREASE** button or **INCREASE** button to set the desired minutes for the **Morning** <u>"-----"</u> event (program starting times are set in ten-minute increments).

Step 6: Press and release the **PROGRAM** button – the current cooling temperature will begin to flash. You are now setting the cooling temperature you desire in the morning.

Step 7: Press the **DECREASE** button or **INCREASE** button to set the desired cooling temperature for the **Morning** "-``_____" event.

Step 8: Press and release the **PROGRAM** button – the **Day** "-Q-" event symbol will appear. You are now setting the time and cooling temperature you want throughout the day.

Step 9: Repeat steps 2-6 to complete programming for the Day "-O-" event.
Step 10: Press and release the PROGRAM button – the Evening " event symbol will appear.

You are now setting the time and cooling temperature you want during the evening.

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Step 11: Repeat steps 2-6 to complete programming for the Evening " event.

Step 12: Press and release the **PROGRAM** button – the **Night** " ((" event symbol will appear. You are now setting the time and cooling temperature you want at night.

Step 13: Repeat steps 2-6 to complete programming for the Night " ((" event.

Setting Or Changing The Weekend Program

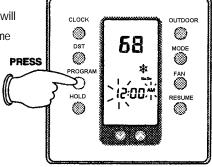
 Step 1: After setting the Night " ((" event Weekday program, press and release the PROGRAM button.

 "Sa Su"; the Morning "_______" event symbol; flashing

 "12:" (or some other hour); and flashing "AM" or "PM" will appear on the display. You are now programming the time and temperatures for the weekend.

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Step 2: Repeat steps 2-6 identical to Weekday programming for **Morning** "_____", **Day** "____", **Day** "____", **Evening** " ____", and **Night** " ((" events for cooling mode as applicable.



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Reviewing Programmed Time Schedules And Temperature Settings

Press and release the **PROGRAM** button repeatedly to advance to "**Mo Tu We Th Fr**", or "**Sa Su**" and specific event. Continue pressing the **PROGRAM** button to review the time schedules and temperature settings for each desired event.

To Start Running The Program

After all temperatures and start times have been programmed, press and release the **RESUME** button to start running programs. If no button is pressed, the thermostat will resume automatically in approximately 15 seconds.

For Best Performance

The Aprilaire Model 8551 thermostat is designed for accurate temperature control and easy operation. The following guidelines should be followed to ensure proper operation of the thermostat:

1. When the thermostat is operating, close the cover to allow for proper air circulation over the temperature sensor.

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- 2. Do not place anything which can give off warm or cool air, such as candles, lamps, or portable humidifiers, near the thermostat.
- 3. Although the thermostat is internally equipped to prevent short cycling of the air conditioner, it is possible to inadvertently override this protection. Do not start, stop, and restart the equipment without allowing a minimum of 2 minutes between cooling cycles.

Thermostat Operation

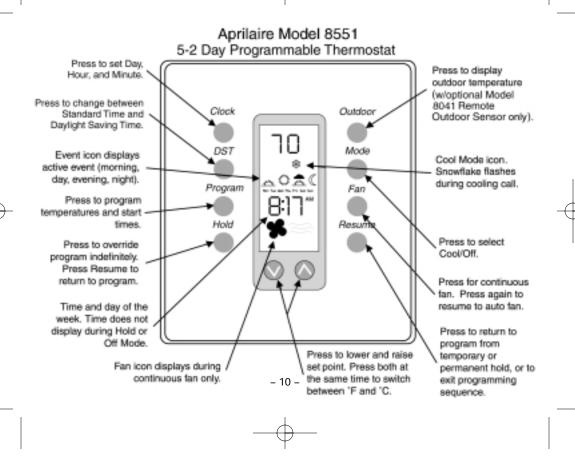
The Model 8551 is a full-featured thermostat which allows for additional control and operations after basic time and temperature programming is completed. In addition to the programming buttons used to set up all event times and temperatures, additional buttons control the following functions:

TEMPERATURE CONTROL

- *Reading the Actual Room Temperature:* The Model 8551 normally displays the room temperature, not the set-point temperature.
- Check the Set-Point Temperature: Press and release the DECREASE button or INCREASE button. The thermostat will display the programmed set-point temperature and a thermometer for 5 seconds before automatically returning to the actual room temperature display.

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- Temporarily Override the Set Temperature: Press and hold the DECREASE button or
 INCREASE button to change the room set-point temperature in 1 degree increments.
 The new set-point temperature will be held for 3 hours, then the thermostat will automatically
 return to the program.
- Hold a New Temperature Set Point: Press and hold the DECREASE button or INCREASE button or INCREASE button to change the room set-point temperature in 1 degree increments. The new set-point temperature can be maintained indefinitely by pressing and releasing the HOLD button. The word "HOLD" will be displayed. The thermostat will maintain this new set-point temperature until the RESUME button is pressed returning the thermostat to the original program. This procedure is typically used during extended vacant periods (vacations, business trips, etc.), to hold an economical set point until you return.
- Returning to Programmed Operation: At any time, press the RESUME button to return the thermostat to operate as programmed.

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- Change Between °C and °F: The thermostat has the capability of displaying either Celsius or Fahrenheit temperatures. If the displayed temperature seems abnormally high or low (ie: 70°F = 21°C) you may need to switch to °C or °F by simultaneously pressing the DECREASE button and the INCREASE button.
- Checking the Outdoor Temperature: If your thermostat was installed with the optional Aprilaire® Outdoor Temperature Sensor, simply press the OUTDOOR button and the thermostat will display the outdoor temperature for 3 seconds before automatically returning to the actual room temperature display.

TIME CONTROL

 Change From 12- to 24-Hour Clock: Press and release the CLOCK button, then press the MODE button. To return to a standard clock, repeat the process.

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EQUIPMENT CONTROL

- Turning on the Fan: At any time the system fan can run continuously by pressing the FAN button. The Fan icon, " Second Will appear in the lower part of the display indicating that the fan is operating continuously. To return the fan to the normal operating mode, press the FAN button again which will remove the icon from the display. In the normal operating mode the fan will only run when the air conditioning is operating. Continuous fan operation is beneficial if your system is equipped with a high efficiency air cleaner, or to circulate air in the home when the air conditioning is not needed.
- Selecting Cooling Mode: Press the MODE button until the word "COOL" appears on the display. In this mode the air conditioning system will maintain temperature according to the programming previously completed unless an override temperature has been entered. Note that a Snowflake icon,
 " *** ", is on the display, which flashes when the air conditioning is running.
- Turning the System Off: Press the MODE button until the word "OFF" appears on the display. In this
 mode, the air conditioning system will not operate regardless of the temperature. The thermostat can
 still be programmed, the optional outdoor temperature sensor will work, and the fan will turn on if the
 FAN button is pressed.

NOTE: After selecting a new mode, the thermostat initiates a delay of up to 4 minutes to protect the cooling equipment.

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Optional Settings For Additional Thermostat Features

The Model 8551 thermostat is equipped with 2 **DIP** switches located inside the thermostat on the printed circuit board. These switches are preset by the factory to typical home air conditioning system requirements. The installing contractor also reviewed the settings during installation to be sure the thermostat will operate properly with your air conditioning system.

The **DIP** switches can however be changed to customize the thermostat's operation to your particular needs. This should only be done after consulting with your contractor.

The Model 8551 DIP switches control the following functions:

No. 1 – 4 min./2 min. Minimum Equipment On/Off Times. This switch is factory preset at 2 minutes. This switch provides short cycle protection for the air conditioning unit. If you feel that the air conditioning system turns on and off too many times per hour, ask your contractor about changing the switch to a 4 minute minimum on time. Keep in mind however that this may increase the overall temperature variation in the house due to longer run and off times. DO NOT change the position of this switch without first consulting with your contractor.

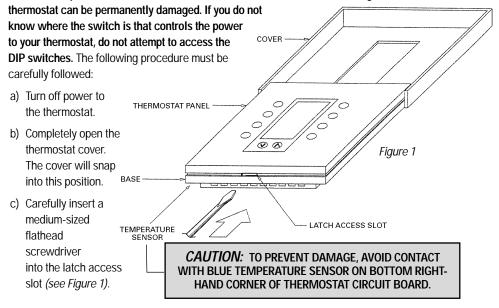
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- No. 2 Keypad Lock. If tampering with the thermostat is expected and unwanted, the keypad can be locked by moving this switch from the factory set OFF position to the ON position. This should not be done until all programming is finalized. In the locked position only the following functions can be done:
 - The outdoor temperature button will display the outdoor temperature.
 - The **DECREASE** button or **INCREASE** button will temporarily change the set point a maximum of plus or minus 3 degrees for a period of 1 hour, before the thermostat automatically returns to the original program.

If the thermostat does not respond when a button is pushed it may be because the keypad has been locked. A **Lock** icon " a " will appear when pushing any buttons other than the buttons outlined above.

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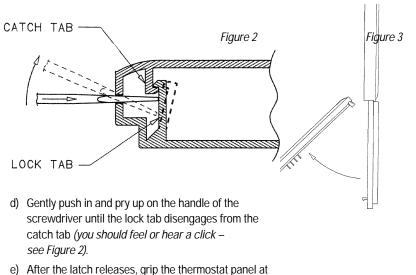
To change the DIP switch settings, the thermostat must be removed from the base which is attached to the wall. The power to the thermostat must be turned off before disassembling or the



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e) After the latch releases, grip the thermostat panel at the bottom corners and swing it up and away from the base to completely separate (See Figure 3).

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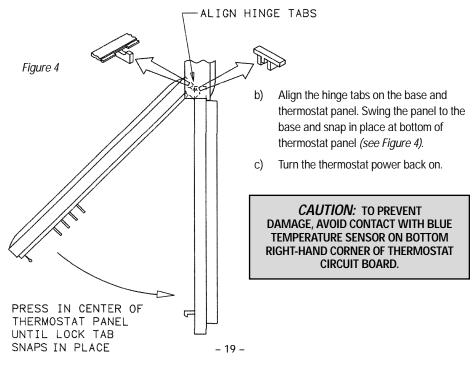


Once the thermostat panel has been opened and removed from the base, turn the thermostat over and locate the DIP switches found on the circuit board according to the following drawing:

Be careful to change only the intended DIP switches per the explanation given at the beginning of this section. After the DIP switches have been set to the desired position, carefully reassemble the thermostat. a) Place the cover on the base by lining up the 2 000 round pegs on the bottom of the cover with the 000 half circle cutouts on the top of the base. Note that the 2 bottom of the cover when fully open slides in behind the top of the base. Swing the cover fully open.

The cover will stay in place.

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In Case Of Power Failure

The Model 8551 thermostat does not require a battery. If the power goes out the letters "**AC**" appear on the display indicating power is not being supplied to the thermostat. "**AC**" will remain on the display for up to approximately 30 minutes after the power goes out. During the period that the power is off, the cooling system will not operate.

This thermostat is equipped with a continuous memory feature which does not require a battery. The thermostat will never lose what has been programmed regardless of the length of the power outage.

If the thermostat has been set to "**Hold**" a particular temperature, and the power fails, the thermostat will resume that temperature when the power is restored.

After a period of 30 minutes without power the clock will need to be reset. The clock will default to 12:00 AM. Refer to the Programming Instructions to reset the clock.

Cleaning

If the surface of the thermostat becomes dirty it can be cleaned with plain water or many non-abrasive household cleaners, such as glass cleaner. When using any cleaner be careful not to get any into the interior of the thermostat. Do not spray any cleaner directly onto the thermostat. Spray the cleaner onto a soft cloth and wipe the surface of the thermostat.

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Limited Warranty

Your Research Products Corporation Aprilaire[®] Thermostat unit is expressly warranted for two (2) years from date of installation to be free from defects in materials and workmanship.

Research Products Corporation's exclusive obligation under this warranty shall be to supply, without charge, a replacement for any thermostat which is found to be defective within a two (2) year period and which is returned, together with the date of installation, no later than thirty (30) days after said two (2) year period by you to either your original supplier or to Research Products Corporation, Madison, Wisconsin 53701.

THIS WARRANTY SHALL NOT OBLIGATE RESEARCH PRODUCTS CORPORATION FOR ANY LABOR COSTS AND SHALL NOT APPLY TO DEFECTS IN WORKMANSHIP OR MATERIALS FURNISHED BY YOUR INSTALLER AS CONTRASTED TO DEFECTS IN THE THERMOSTAT ITSELF.

IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED IN DURATION TO THE AFORESAID TWO YEAR PERIOD. RESEARCH PRODUCTS CORPORATION'S LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, OTHER THAN DAMAGES FOR PERSONAL INJURIES, RESULTING FROM ANY BREACH OF THE AFORESAID IMPLIED WARRANTIES OR THE ABOVE LIMITED WARRANTY IS EXPRESSLY EXCLUDED. THIS LIMITED WARRANTY IS VOID IF DEFECT(S) RESULT FROM FAILURE TO HAVE THIS THERMOSTAT INSTALLED BY A QUALIFIED COOLING AND AIR CONDITIONING CONTRACTOR. IF THE LIMITED WARRANTY IS VOID DUE TO FAILURE TO USE A QUALIFIED CONTRACTOR, ALL DISCLAIMERS OF IMPLIED WARRANTIES SHALL BE EFFECTIVE UPON INSTALLATION.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitations 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.

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