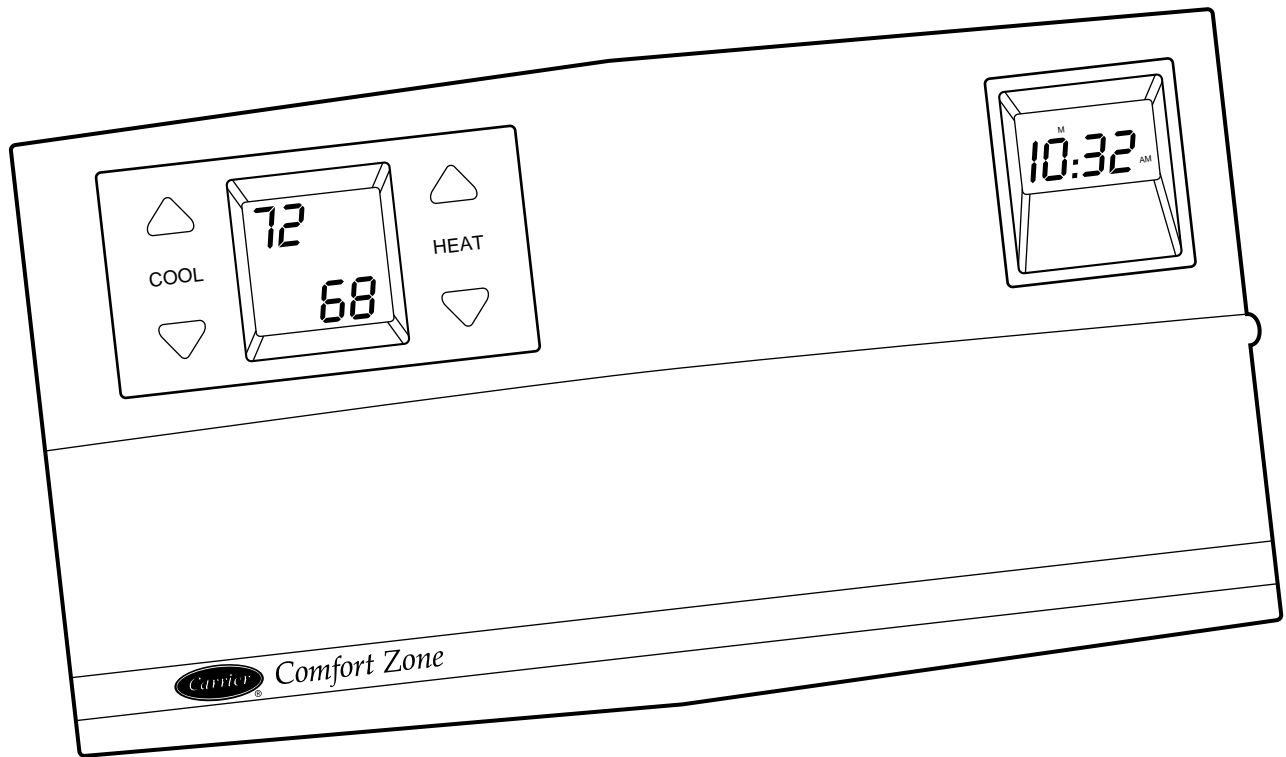




COMFORT ZONE

A GUIDE TO OPERATING YOUR RESIDENTIAL COMFORT ZONE SYSTEM

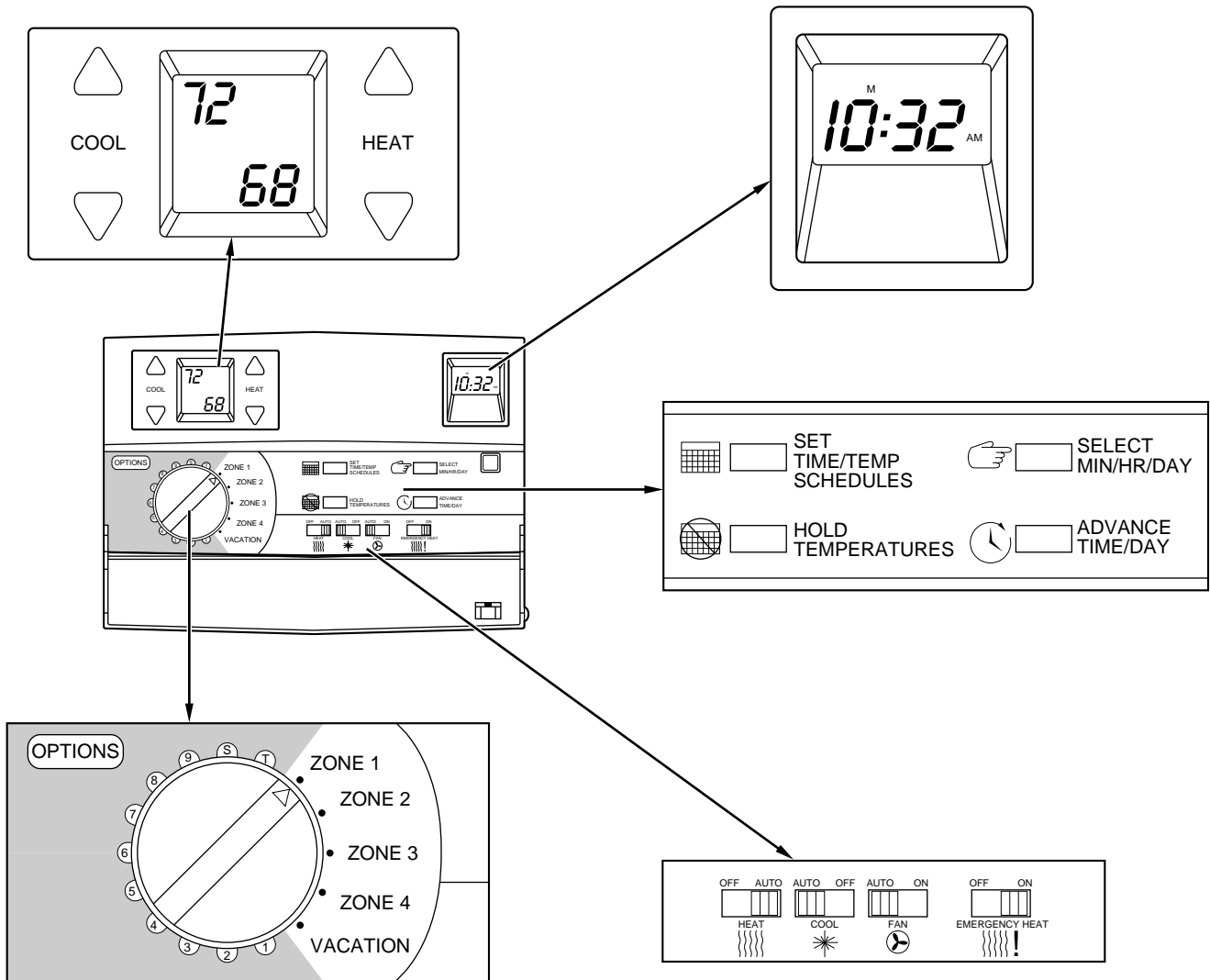
HOME OWNER'S GUIDE



NOTE TO INSTALLER: THIS MANUAL SHOULD BE LEFT WITH THE EQUIPMENT USER.

INTRODUCTION

The Comfort Zone Controller is the Program Center for your Comfort Zone System. The Comfort Zone Controller provides the ability to program the System for the unique demands of each zone at different times during the day and the week. To make programming the system easier, it's a good idea to become familiar with the various parts of the Comfort Zone Controller.



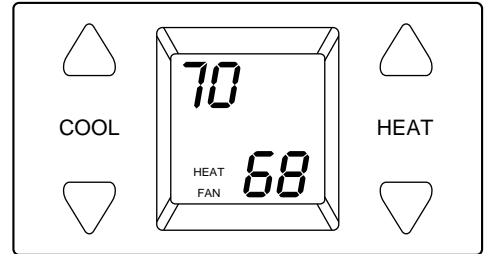
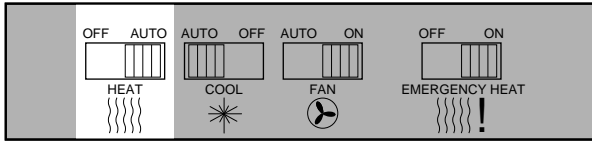
A95554

1. **Controller Display** — Indicates zone set points, zone temperatures, and programming information and allows setpoint adjustment.
2. **Clock Display** — Indicates the current time and day and the start times/weekly periods during programming.
3. **Programming Adjustment Buttons** — Allows for programming weekly periods, start times for each zone and set the clock for day and time.
4. **System Switches** — Provides for selection of HEAT, COOL, FAN and EMERGENCY HEAT operation.
5. **Zone Selector Dial** — Provides access to information and programming for each ZONE and selection of VACATION mode. OPTION area is for use by installation or servicing technicians.

SYSTEM SWITCHES

System Switches select the desired equipment operation.

Heat Switch

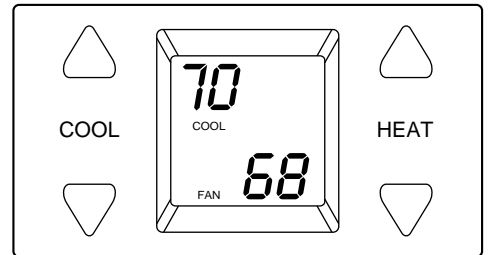
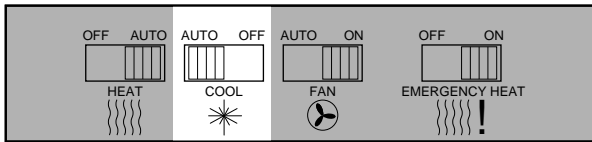


A95555

OFF - Heat will not come on.

AUTO - Heat will turn on when any zone is more than 1.5°F below the desired heat setpoint.

Cool Switch

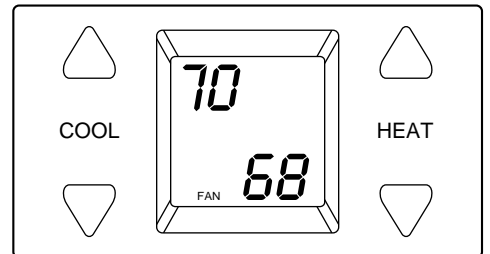
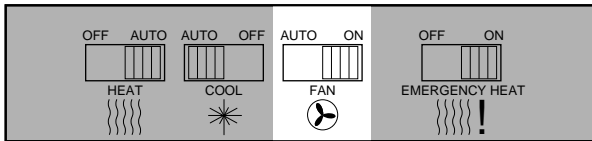


A95556

OFF - Cooling will not come on.

AUTO - Cooling will turn on when any zone is more than 1.5°F above the desired cool setpoint.

Fan Switch



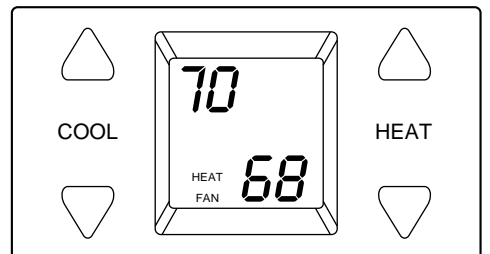
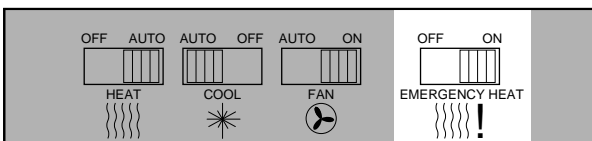
A95557

ON - Fan will stay on continuously (recommended).

AUTO - Fan will come on only when heating or cooling is required.

Emergency Heat Switch

(Heat Pump Systems)



A95558

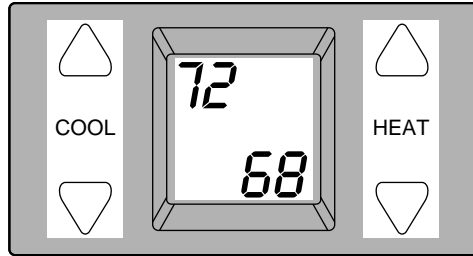
OFF - Electric strip heat will not come on unless there is a zone more than 2°F below the desired heat setpoint and comfort trend demand has been satisfied.

ON - When any zone requires heat, the electric strip heating will turn on. The compressor will remain off.

NORMAL OPERATION

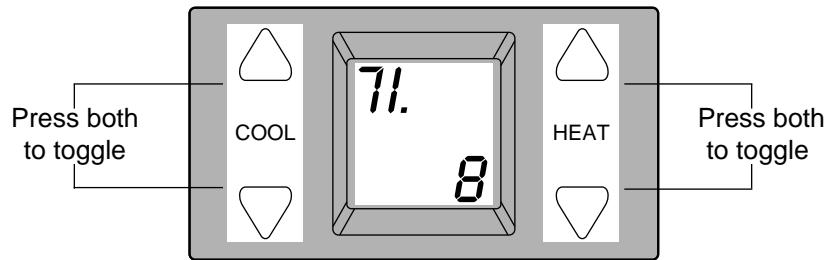
When set for normal operation (alternate display not ON), the Comfort Zone Controller display shows the current zone temperature setpoints and allows the adjustment of these setpoints using the setpoint buttons.

By pressing the upper and lower HEAT or COOL setpoint buttons simultaneously, the controller display will freeze the display showing indoor zone temperature. Push again to release.



**Setpoints are:
Cooling - 72
Heating - 68**

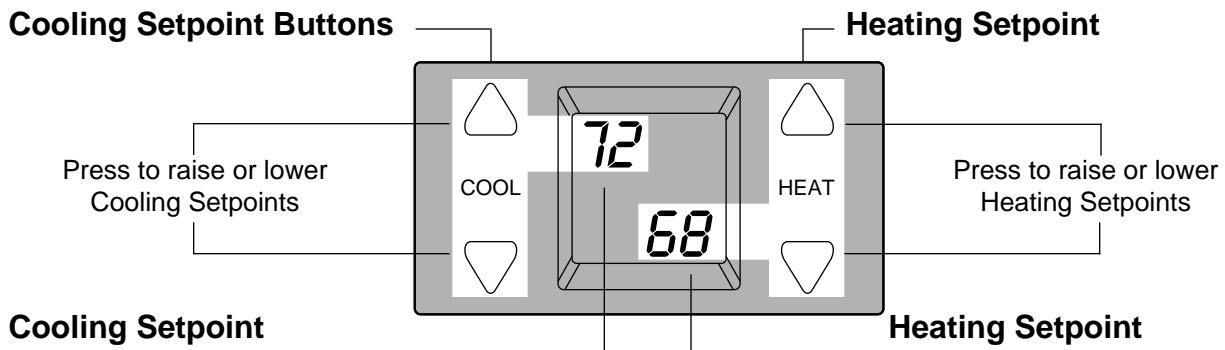
A95560



**Temperature
displayed
is 71.8°F**

A95585

If the alternate display feature is turned on (see Toggles Section), the controller display alternates between displaying the zone setpoints and zone temperature every 2 sec.

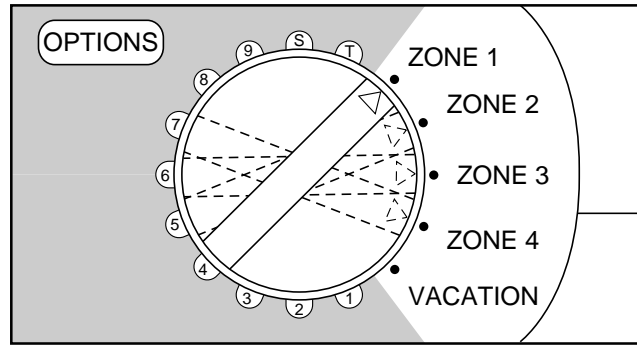


A95559

ZONE SETPOINTS

To view the setpoints for each zone, turn the Zone Selector Dial to the ZONE No. you wish to view.

The setpoints for the selected zone will be displayed in the controller display.



A95561

Example Setpoints Sat., Start Time - 7:00 AM

- ZONE 1 - Family and Living Rooms
- ZONE 2 - Kitchen and Laundry
- ZONE 3 - Bedrooms
- ZONE 4 - Home Office

ZONE 1

ZONE 2

ZONE 3

ZONE 4

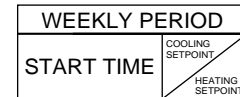
A95562

PROGRAM SCHEDULES

Each zone has 3 different weekly periods (Weekdays, Saturday and Sunday), and up to 4 different possible combinations of heating and cooling setpoints that can be programmed to provide automatic climate control depending upon the day of the week and the time of the day. Each zone can be programmed independently.

Example Weekly Schedule - Zone 1, Family and Living Rooms

WEEKDAYS		SATURDAY		SUNDAY	
6 AM	72 / 70	7 AM	72 / 68	8 AM	72 / 70
8 AM	85 / 65	10 AM	85 / 65	10 AM	85 / 65
5 PM	70 / 68	2 PM	70 / 68	7 PM	70 / 68
10 PM	85 / 65	11 PM	85 / 65	10 PM	85 / 65



A95563

A chart similar to the 1 in the example above has been provided in the back of this manual to assist you in programming. Complete the chart for Zones, Week Periods, Start Times, and Setpoints, then use the chart to program the controller.

NOTE: If no program schedules are desired for a particular zone, leave all times and temperatures in the factory default position. (i.e. Weekdays, Saturday, Sunday — 8:00 a.m. — 75/68)

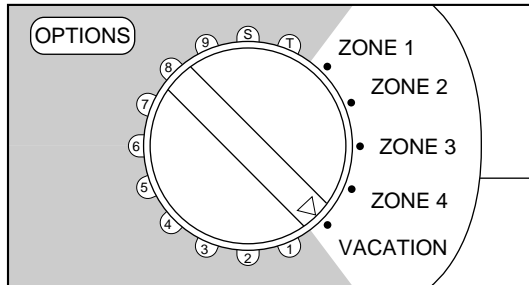
VACATION MODE

Vacation mode displays the current vacation temperature setpoints and allows the adjustment of these setpoints using the setpoint buttons. These setpoints control all zones until the selector dial is returned to 1 of the zone selection positions, then normal independent zone operation will resume.

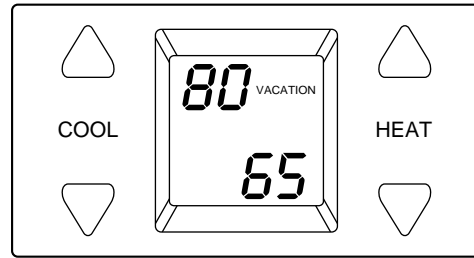
This mode can also be used to maintain the entire building at 1 constant temperature.

NOTE: If the FAN switch is set to ON, the fan will continue to run in vacation mode.

To enter vacation mode, turn the selector dial to vacation. The word "VACATION" will appear on the controller display whenever the system is in vacation mode.



A95564



A95565

SETTING THE CLOCK

The Clock Display will normally show the hr, minutes, AM or PM, and the day.

Follow these steps to adjust the clock settings.

Clock Display

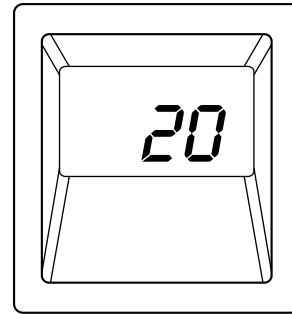
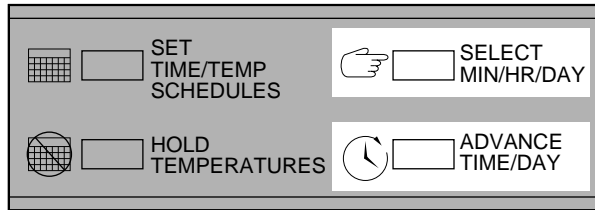


A95566

1. Set the Minutes

Press the SELECT MIN/HR/DAY button once.

Press the ADVANCE TIME/DAY button to scroll to the proper minutes.

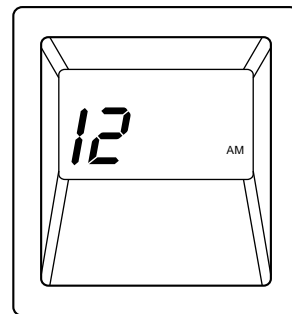
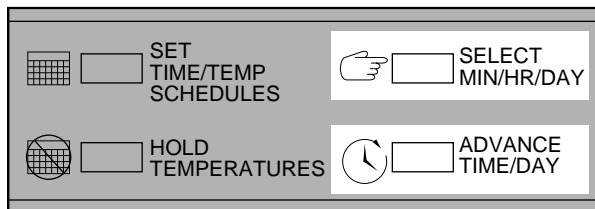


A95567

2. Set the Hour

Press the SELECT MIN/HR/DAY button once again.

Press the ADVANCE TIME/DAY button to scroll to the proper hr, AM or PM.



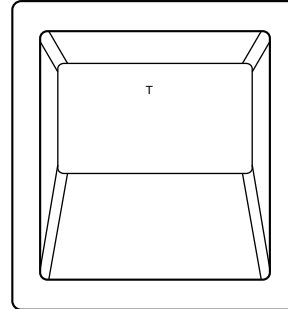
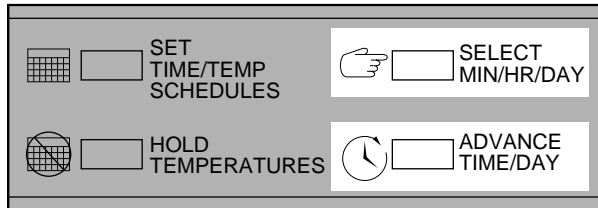
A95568

SETTING THE CLOCK

3. Set the Day

Press the SELECT MIN/HR/DAY button once again.

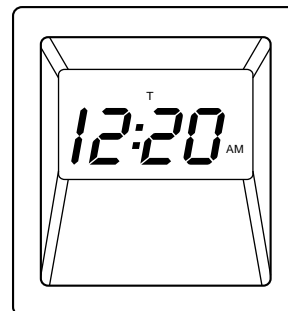
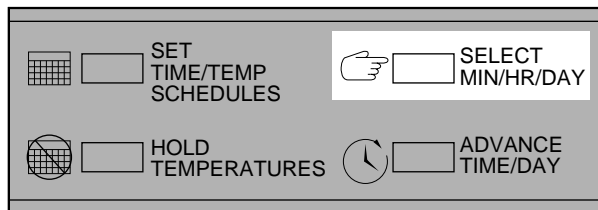
Press the ADVANCE TIME/DAY button to scroll to the proper day.



A95569

4. Return to Normal Operation

Press the SELECT MIN/HR/DAY button once again. The newly programmed time and day will be displayed.



A95570

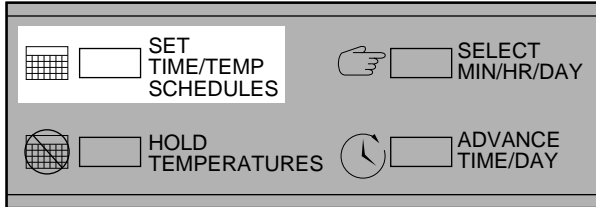
PROGRAMMING THE SYSTEM

NOTE: See programming chart in rear of owner guide.

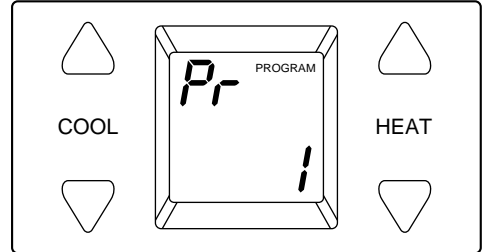
1. Enter Program Mode

Press the SET TIME/TEMP SCHEDULES button to enter program mode.

The program mode and the current zone will be shown on the controller display.



A95571

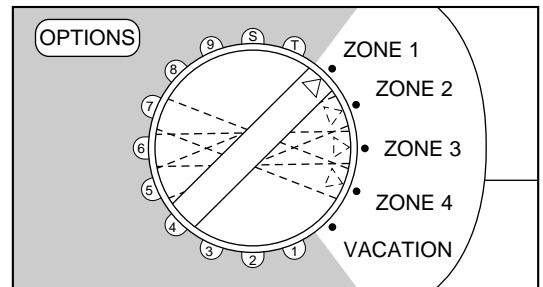


A95572

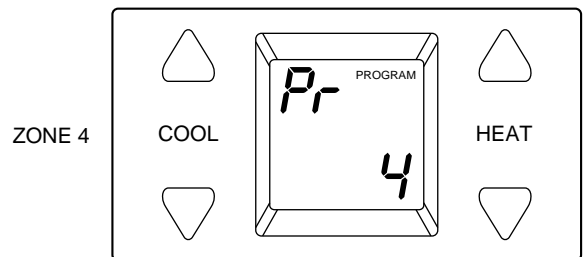
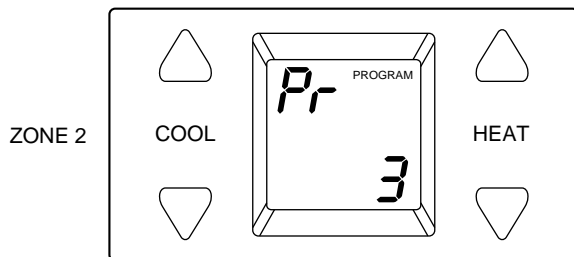
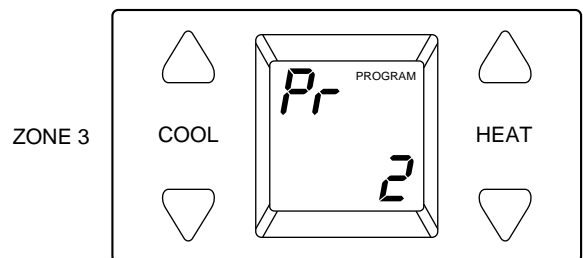
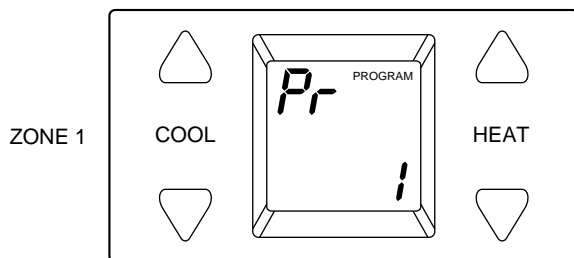
2. Select a Zone

Turn the Selection Dial to the ZONE to be programmed.

Choices are ZONE 1, ZONE 2, ZONE 3, or ZONE 4.



A95561



A95573

PROGRAMMING

3. Select a Weekly Period

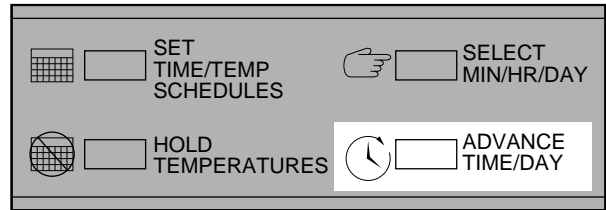
The clock display will show "MTWTHF."

Pressing the ADVANCE TIME/DAY button selects the weekly period to be programmed.

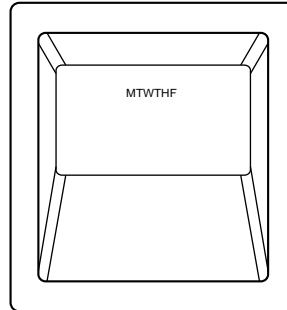
Pressing the ADVANCE TIME/DAY button 1 time will change the clock display from "MTWTHF" to "SA."

A second press will change the display to "SU."

A third press returns the display to "MTWTHF."



A94475



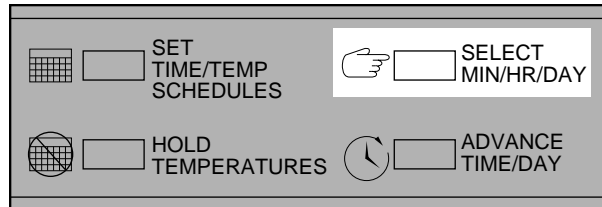
A95576

4. Program Time Periods

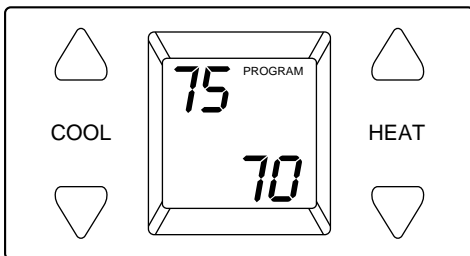
There are 4 start times that can be programmed in each weekly period.

Press the SELECT MIN/HR/DAY button to program the start times for the selected weekly period.

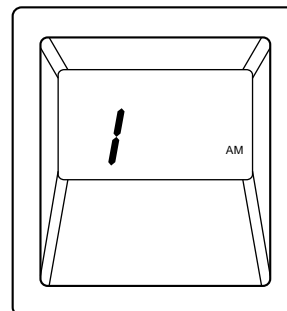
Pressing the SELECT MIN/HR/DAY button 1 time shows the first program start time on the clock display and the setpoints, with the word "PROGRAM" for this start time on the controller display.



A95575



A95578

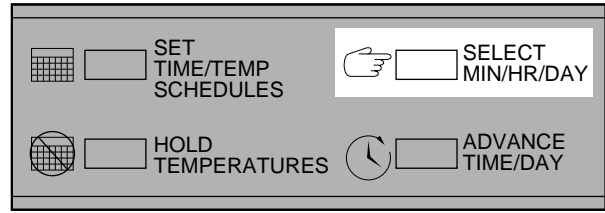


A95577

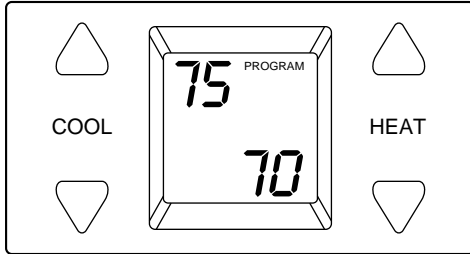
PROGRAMMING

To **ONLY VIEW** the start times and setpoints for each start time, press the SELECT MIN/HR/DAY button a second time. This will display the second start time and setpoints.

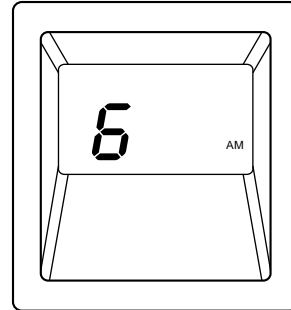
Additional presses will display start times 3 and 4, then return to weekly period display.



A95575



A95578



A95579

NOTE: While in the program mode, if a period of 4-1/2 minutes passes without a change to some value, the controller will revert to normal operation.

PROGRAMMING

5. Program Start Time

PLEASE NOTE: START TIMES MUST BE PROGRAMMED IN CHRONOLOGICAL ORDER
AND ALL START TIMES MUST BE IN THE SAME DAY.

RIGHT

6 AM - Time Period 1
8 AM - Time Period 2
5 PM - Time Period 3
9 PM - Time Period 4

WRONG

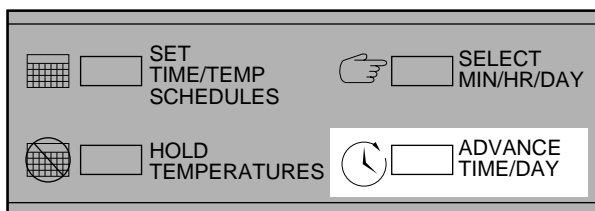
6 AM - Time Period 1
2 AM - Time Period 2
9 PM - Time Period 3
5 PM - Time Period 4

WRONG

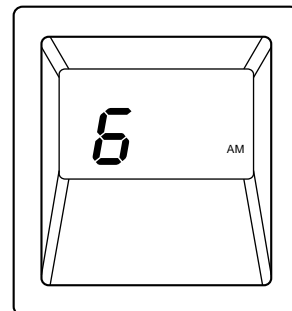
8 AM - Time Period 1
5 PM - Time Period 2
2 AM - Time Period 3
6 AM - Time Period 4

NOTE: It is not recommended to use 12.00 a.m. for programming schedule. This may result in a time period programming error.

Press the ADVANCE TIME/DAY button until the desired start time is displayed.



A95574

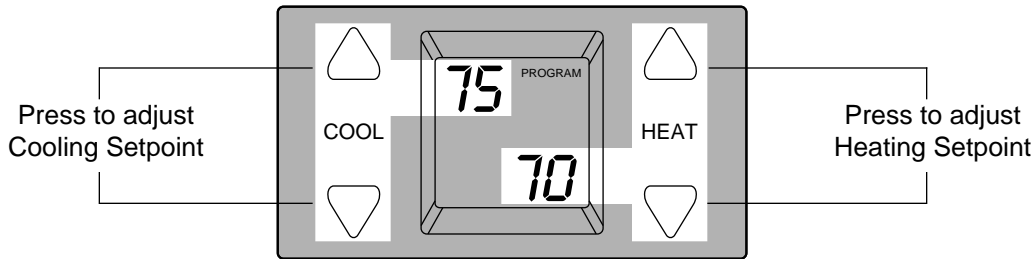


A95579

PROGRAMMING

6. Adjust Setpoints

Adjust the setpoints using the setpoint UP and DOWN buttons until the desired temperatures for the selected time period appear in the display. These setpoints will be used during the time period currently displayed in the clock window.



A95580

7. Complete Time Period Programming

Repeat steps 4 through 6 to program remaining weekly period start times. Each weekly period can be programmed with 4 different time periods.

8. Complete Week Schedule

After completing start time programming, press the SELECT MIN/HR/DAY button until "MTWTHF" reappears in the clock display.

Repeat steps 3 through 7 to program remaining weekly periods. Once finished, this will complete the programming of 1 zone.

9. Program a Different Zone

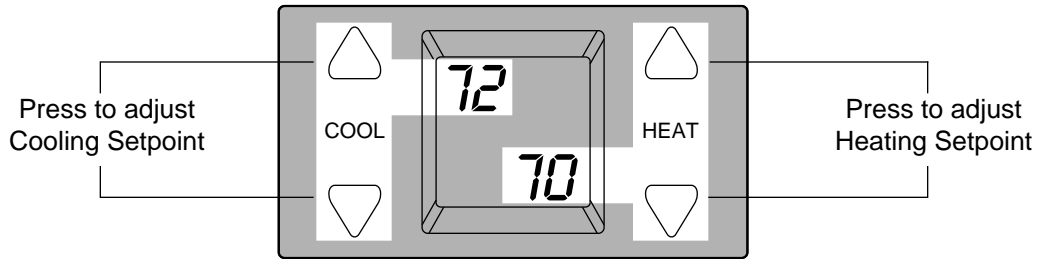
To program a different zone, turn the selection dial to the desired ZONE to be programmed and repeat steps 2 through 8.

10. Exit Program Mode

Exit the program mode by pressing the SET TIME/TEMP SCHEDULES button.

OVERRIDING PROGRAMMING

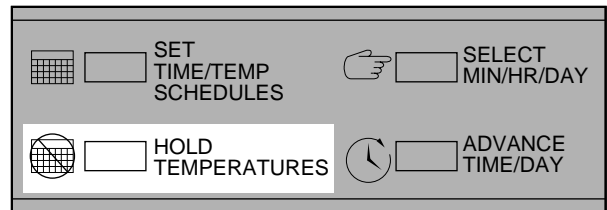
To override the time programming, press any setpoint button. This will also adjust the setpoints for the override period. Once the setpoints are adjusted, they will not change until the next programmed time period.



A95581

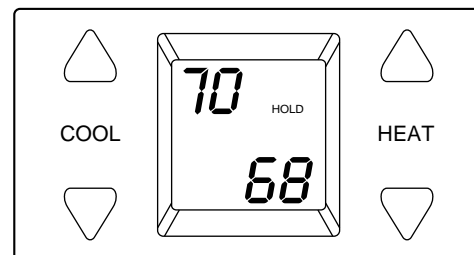
If the HOLD TEMPERATURES button is pressed, the current setpoints will not change with time, but remain at the last values entered for as long as the hold mode is active.

To release the hold mode, press the HOLD TEMPERATURES button a second time.



A95582






The controller display will show the word HOLD whenever the hold mode is active.





A95583

PROGRAMMING QUICK REFERENCE

Program

1. Press SET TIME/TEMP SCHEDULES  to enter program mode.
2. Select desired zone, using zone select dial.
3. Press ADVANCE TIME/DAY  to select weekly period to program.
4. Press SELECT MIN/HR/DAY  to program selected daily period.
5. Press ADVANCE TIME/DAY  to change time for selected period.
6. Adjust temperature setpoints for selected period.
7. Repeat steps 4–6 to program remaining periods in daily schedule.
8. Repeat steps 3–7 to program remaining weekly periods.
9. Repeat steps 2–8 to program remaining zones.
10. Press SET TIME/TEMP SCHEDULES  at any time to exit program mode.

Time Set

1. Press SELECT MIN/HR/DAY  to enter time set mode.
2. Press ADVANCE TIME/DAY  to change minutes.
3. Repeat steps 1–2 to set hrs/days or exit.

Hold

Press HOLD TEMPERATURES  to retain current temperature setpoints.

PROGRAMMING CHART

ZONE 1		MTWTHF		SA		SU	
AREA		START TIME	Cool Heat	START TIME	Cool Heat	START TIME	Cool Heat
COMMENTS:	TIME PERIOD 1						
	TIME PERIOD 2						
	TIME PERIOD 3						
	TIME PERIOD 4						

ZONE 2		MTWTHF		SA		SU	
AREA		START TIME	Cool Heat	START TIME	Cool Heat	START TIME	Cool Heat
COMMENTS:	TIME PERIOD 1						
	TIME PERIOD 2						
	TIME PERIOD 3						
	TIME PERIOD 4						

ZONE 3		MTWTHF		SA		SU	
AREA		START TIME	Cool Heat	START TIME	Cool Heat	START TIME	Cool Heat
COMMENTS:	TIME PERIOD 1						
	TIME PERIOD 2						
	TIME PERIOD 3						
	TIME PERIOD 4						

ZONE 4		MTWTHF		SA		SU	
AREA		START TIME	Cool Heat	START TIME	Cool Heat	START TIME	Cool Heat
COMMENTS:	TIME PERIOD 1						
	TIME PERIOD 2						
	TIME PERIOD 3						
	TIME PERIOD 4						

A95584



TO OBTAIN INFORMATION ON PARTS: Consult your installing dealer or classified section of your local telephone directory under the "Heating Equipment" or "Air Conditioning Contractors & Systems" headings for dealer listing by brand name. Have available the Model No., Series Letter & Serial No. of your equipment to insure correct replacement part.

Carrier Corporation • Syracuse, New York 13221

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