The thermostat is designed to display temperatures from 41°F to 99°F. However, it will operate from 40°F to 105°F. If the temperature is between 40°F and 45°F then the 4 will be displayed. If the temperature is between 100°F and 39°F then 99 will be displayed.

The chart to the left shows the system functions with the 9330-33* thermostats. The thermostat must sit idle for five seconds until the fan speed is changed. The thermostat will then send a signal to the control board. The thermostat will not send the signal to the control board in the following situations:

- The thermostat is in an area that is not suitable for use. This may include areas that are not heated or cooled.
- The thermostat is not connected to the correct appliance. This may include areas that are not connected to the correct appliance.
- The thermostat is not connected to the correct sensor. This may include areas that are not connected to the correct sensor.
- The thermostat is not connected to the correct control board. This may include areas that are not connected to the correct control board.
- The thermostat is not connected to the correct thermostat system. This may include areas that are not connected to the correct thermostat system.

The chart at the left shows the system functions with the 9330-33* thermostats.
Thermostat and Room Temperature Sensor Location

The system is designed to work one of two ways. A built-in temperature sensor in the thermostat can control zone 1. In the case the thermostat must be located in zone 1. On the other hand, a remote temperature sensor can be connected to zone 1. This solution would allow the thermostat to control the temperature of a zone other than zone 1. The thermostat must always have a remote temperature sensor to control the system.

If a remote temperature sensor is installed, then the control box mounted in the return air plenum has an opening that allows viewing of the green LED on the control box. This opening will be accessible after removing all remote sensors and the thermostat if the remote sensor is also installed. Note: The green LED on the control box will be located virtually anywhere in the coach as long as the user can get to it to operate it.

CAUTION:
1. Always locate the thermostat near the zone 1 sensor. (see installation instructions for the air conditioner control if necessary).
2. Each zone must be controlled by an upper unit control board. When installed, this board is located in the return air plenum of the air conditioner (see installation instructions for the air conditioner control if necessary).

Setting the Upper Control Board

WARNING:
When adjusting the jumpers on the upper unit control board be sure to line Voltage, no power to thermostat (remove ceiling assembly grille and look in round opening of control box for green LED light. Light not displayed, there is a problem with the 12 Volt DC control voltage and it must be serviced by a licensed technician.

When in the programming mode, the following sequence of options will be toggled through in this sequence:

When the LED is not lighted, there is a problem with the 12 Volt DC control voltage and it must be serviced by a licensed technician. When the LED is not lighted, there is a problem with the 12 Volt DC control voltage and it must be serviced by a licensed technician.

CAUTION:
1. Setpoint cannot be adjusted
2. Built-in delay for communication signal
3. Heat pump is unable to keep up with heating demand, system locks out heat pump for 2 hours and backup heat becomes primary heat source for 2 hours.

Attach the Wall Thermostat and Room Temperature Sensors

1. Attach the new sensor to the wall (using 3M HD screws). The new sensor is wired to the two terminals marked “ROOM” on the control box wire harness.
2. The thermostat cover is removed by gently pulling on the left and right sides.
3. Connect motor coach wiring harness to thermostat wire plug (see diagram below).
4. The system does not operate below 9.75VDC.

CAUTION:
1. Setting the Upper Control Board
2. Press the “ZONE” button until zone 1 is displayed on the LCD.
3. When in the programming mode, the following sequence of options will be toggled through in this sequence:

If these applications are connected: the thermostat LCD display that the generator will not be called for fan only operation or for gas heat operation.

Each zone temperature may be outside display range of thermostat (thermostat designed to show 41°F-110°F)

Communication signal lost to that zone (Signal wire might have vibrated loose).

The system is programmed to show the temperature of the room that the thermostat is to be used as the zone 1 temperature sensor.

When the LED is not lighted, there is a problem with the 12 Volt DC control voltage and it must be serviced by a licensed technician.

CAUTION:
1. Setpoint cannot be adjusted
2. Built-in delay for communication signal
3. Heat pump is unable to keep up with heating demand, system locks out heat pump for 2 hours and backup heat becomes primary heat source for 2 hours.

Unit not responding
1. Communication signal to that zone (Signal wire might have vibrated loose).
2. The system is programmed to show the temperature of the room that the thermostat is to be used as the zone 1 temperature sensor.

Two or more wires have shorted operation
1. Verify which wires may be the same zone. Have service technician check.

Unit not responding
1. Communication signal to that zone (Signal wire might have vibrated loose).
2. The system is programmed to show the temperature of the room that the thermostat is to be used as the zone 1 temperature sensor.

Programming the Upper Control Board

Communication signal lost to that zone (Signal wire might have vibrated loose).

The system does not operate below 9.75VDC.

Heat pump is unable to keep up with heating demand, system locks out heat pump for 2 hours and backup heat becomes primary heat source for 2 hours.

When the LED is not lighted, there is a problem with the 12 Volt DC control voltage and it must be serviced by a licensed technician.

CAUTION:
1. Setting the Upper Control Board
2. Press the “ZONE” button until zone 1 is displayed on the LCD.
3. When in the programming mode, the following sequence of options will be toggled through in this sequence:

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Unit not responding
1. Communication signal to that zone (Signal wire might have vibrated loose).
2. The system is programmed to show the temperature of the room that the thermostat is to be used as the zone 1 temperature sensor.

Programming the Thermostat

Press the SYSTEM button until OFF.

Put the thermostat in the programming mode by double pressing the buttons that are located to the right of the LCD until words flash on the LCD, which should be about 5 seconds.

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If these applications are connected: the thermostat LCD display that the generator will not be called for fan only operation or for gas heat operation.

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The system is programmed to show the temperature of the room that the thermostat is to be used as the zone 1 temperature sensor.

Two or more wires have shorted operation
1. Verify which wires may be the same zone. Have service technician check.

Unit not responding
1. Communication signal to that zone (Signal wire might have vibrated loose).
2. The system is programmed to show the temperature of the room that the thermostat is to be used as the zone 1 temperature sensor.

Troubleshooting

No display on LCD
1. No power to thermostat (Remove ceiling assembly grille and look in round opening of control box for green LED light. Light not displayed, there is a problem with the 12 Volt DC control voltage and it must be serviced by a licensed technician.

CAUTION:
1. Setting the Upper Control Board
2. Press the “ZONE” button until zone 1 is displayed on the LCD.
3. When in the programming mode, the following sequence of options will be toggled through in this sequence:

If these applications are connected: the thermostat LCD display that the generator will not be called for fan only operation or for gas heat operation.

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1. Verify which wires may be the same zone. Have service technician check.

Unit not responding
1. Communication signal to that zone (Signal wire might have vibrated loose).
2. The system is programmed to show the temperature of the room that the thermostat is to be used as the zone 1 temperature sensor.

System Wiring Diagram

RV Products
A Division of AirPride, Inc.
P.O. Box 4020, Wichita, KS 67204
Web: www.rvcomfort.com

DANGER:
When wiring the thermostat, never attempt to do this under any circumstances without proper training. This procedure could result in injury or death.

CAUTION:
1. Setting the Upper Control Board
2. Press the “ZONE” button until zone 1 is displayed on the LCD.
3. When in the programming mode, the following sequence of options will be toggled through in this sequence:

If these applications are connected: the thermostat LCD display that the generator will not be called for fan only operation or for gas heat operation.

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