

Coleman

Heating and Cooling Control



Introduction

For detailed descriptions of the various operating conditions, refer to the manufacturer's operating instructions found in **Installation and Operating Instructions for 8330A335* Multiple Zone Thermostat Controller System:**

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When making changes to the thermostat settings, allow 20 seconds before your changes take affect in the roof A/C units.

The roof A/C units may or may not be equipped with a heat pump. See your Coach Information Kit for the specific components that are installed.

For those roof A/C units equipped with a heat pump, **Heat Pump Lockout** may occur if the set temperature is raised 5° F or more above the zone ambient temperature. This condition is indicated by the thermostat display showing **Elec** on solid with the word **Gas** flashing on and off slowly about every 3 seconds. Once the heat pump lockout state occurs, the gas heat becomes the primary heat source and the

QUICK GUIDES

2007 Tribute 260, Inspire 360, Allure 400 Series, Intrigue 530, Magna 630, Affinity 700 Custom

Effective: All 2007 coaches

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heat pump will not run for 2 hours. Any call-for-heat during lockout activates **Gas Heat**, which means the LP furnace or hydronic heating as long as these systems are turned on.

Cycling power does not clear this condition. To clear a **Heat Pump Lockout**, wait for two hours to pass, and then adjust the thermostat set point to less than 4° F above the ambient temperature. Next, allow the heat pump to run a couple minutes, and then move the set point down below ambient. Since the electric heat was able to satisfy the heat demand, the lockout counter is reset to zero.

The set temperatures are not adjustable when the thermostat is turned off or when the displayed zone is set to run **Fan High** or **Fan Low** in that zone, or if the displayed zone is turned off.

Once the heating and cooling set temperatures are set, they are stored permanently in memory for each zone.

The fan speed for the heating mode is dependent on the type of heat that is installed for each zone and cannot be changed.

Setting the Thermostat

1. Move the operation slide switch to **Cool**.
2. Press the up arrow (▲) of the **SETPOINT** button to place the thermostat in the Set mode. **Set** appears. Press the **SETPOINT** button arrows (▲ and ▼) to adjust the set temperature to the preferred temperature for the mode.
3. Press **ZONE** to change the displayed zone on the thermostat to the next zone. Adjust the set temperature for each zone.
4. Move the operation slide switch to **Heat** and repeat steps 2 and 3.
5. Move the operation slide switch to **Cool**.
6. Press **MODE** to change the thermostat to the preferred cool mode for that zone.

7. Press the **ZONE** button to store the settings in memory.
Cool Auto — The fan speed varies depending on the cooling needs. (default setting).
Cool High or Cool Low — The fan runs continuously at the selected speed. The roof A/C cycles to cool the air to maintain the Cool set temperature.
Fan High and Fan Low — The fan runs continuously at the selected speed. The fan circulates only ambient air. No cooling by the roof A/C unit occurs.
Off — The roof A/C unit in that zone is off. No fan and no cooling in that zone.
8. Repeat the above steps as needed for each zone.
9. Move the operation slide switch to **Heat**.
10. Press the **MODE** button to change the thermostat to the preferred heat mode for that zone.
11. Press the **ZONE** button to store the settings in memory.
12. Repeat the above steps as needed for each zone.

Troubleshooting

No display on the LCD – No power to the thermostat. (Remove the ceiling assembly grill and look in the round opening of the control box for a green LED. No light means no power to the control box.) The fuse on the thermostat may be open.

Heat or Cool appears on the thermostat, but can't modify settings – Appliances may not be installed. Check the Coach Information Kit.

ER appears on the thermostat – The current temperature may be outside the operating range of the thermostat. The external room sensor circuit may be disrupted. Contact a service technician.

Temperature does not change on the thermostat when the unit is running – The current temperature may be outside the operating range of the thermostat.

Appliances are not responding to the thermostat setting changes – Zone or appliance settings in the roof A/C unit may not be correct for the zones or appliances installed. Built-in delay for the communication signal.

Setpoint cannot be adjusted – The check setting of the thermostat setpoint cannot be adjusted when the operation slide switch is set to **Off** or **Cool**, or when the **Heat** mode is set to **Off**, or when the zone is turned off, or when **Fan** is set to run **High** or **Low** continuously.

Gas flashing on LCD display – The backup heat source is energized to supplement primary heat.

Backup heat source is running with the Heat Pump idle – Heat pump is unable to keep up with heating demand, system locks out heat pump for 2 hours and backup heat becomes the primary heat source for those 2 hours.

Two or more units have identical operation – Roof A/C units may be set to the same zone. Contact a service technician.

Unit not responding – Communication signal lost to that zone (signal wire might have vibrated loose). The system locks out operation below 9.75 VDC.