Operation Manual
Trans/Air EC 4.0 Climate Control System

The EC4.0 climate control system has two driver control switches: Mode/Fan Speed switch and Thermostat. The Mode/Fan Speed switch turns system on/off and controls evaporator blower speed. The Thermostat displays cabin air temperature, fault and service codes, and adjusts set point temperature.

BASIC OPERATION

Turn System On

With the vehicle running, press either the MODE or the FAN button to turn EC4.0 system on. The A/C indicator will light up indicating system is in A/C mode. Fan speed indicator 3 will light up indicating the fan speed is High. Thermostat will turn on automatically with LED displaying cabin air temperature.

Select Mode of Operation (Heat/Defrost Optional)

Press MODE button to change the operation mode between A/C, Defrost or Heat.

Change Fan Speed

Press the FAN button to change the fan speed between Low, Medium, and High.

Change Setpoint Temperature

The thermostat LED display shows cabin air temperature during normal operation. Press UP or DOWN arrow once for setpoint mode. The setpoint temperature and a flashing decimal point will be displayed on the LED in setpoint mode. Press the UP or DOWN arrow again to adjust the setpoint to the desired value. After 5 seconds, EC4.0 will switch back to normal operating mode displaying cabin temperature. The new setpoint then becomes effective.

The default setpoint temperature is 70°F. This setting is stored in EC4.0’s non-volatile memory and takes effect every time the system turns on. To change the default setpoint temperature setting, go into the setting mode and adjust the set point to the desired value, then press the UP and DOWN arrow simultaneously. The new setpoint value will be stored into the non-volatile memory and become the default setpoint.

Setpoint Range

The Display has a setpoint range from 60°F to 90°F
Note: Software control range is only from 65°F to 90°F

Turn System Off

Press the MODE button until all the mode indicators turn off. Press the MODE button again to turn fans and thermostat LED display off, indicating complete system shut down.

Fan Only Mode Operation

Press the MODE button until all the mode indicators turn off. The A/C system will be running in Fan Only mode. (Only evaporator blowers run, compressor and condenser remain off.) Press the FAN button to set the fan to desired speed (Low, Medium or High). In Fan Only mode, the thermostat LED still shows the cabin air temperature. To turn Fan Only mode off, press the MODE button and the system will turn off.

TROUBLE SHOOTING

<table>
<thead>
<tr>
<th>Fault Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP</td>
<td>High Pressure Fault</td>
</tr>
<tr>
<td>LP</td>
<td>Low Pressure Fault</td>
</tr>
<tr>
<td>Lu</td>
<td>Low Clutch Voltage/Blown Fuse</td>
</tr>
<tr>
<td>Sr</td>
<td>Maintenance Required</td>
</tr>
<tr>
<td>System Indicator</td>
<td>Return Air Temperature Above 90°F</td>
</tr>
<tr>
<td>Hi*</td>
<td>Return Air Temperature Below 60°F</td>
</tr>
<tr>
<td>Lo*</td>
<td>1000 Hour Service Reminder</td>
</tr>
</tbody>
</table>

*No service required when the thermostat LED shows “Hi” or “Lo”.
Turn the system off and then turn it back on to reset the “Sr” code.
Service is required if “Sr” code can not be reset.

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