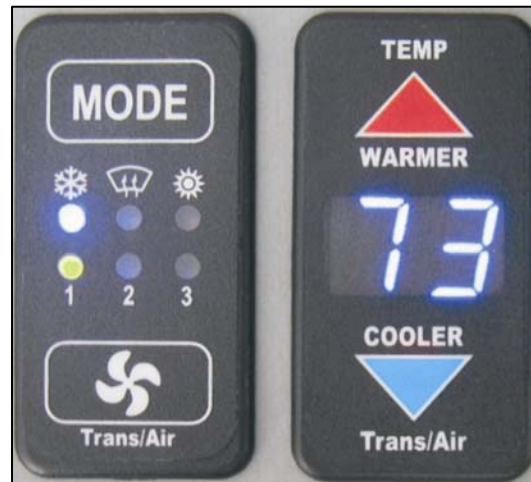# EC2.5 Digital Climate Control System with Optional Heat / Defog (Patent Pending)

EC2.5 Switches

FEATURES:

- **Microprocessor Based Climate Control**
- **Digital Thermostat**
- **Manual 3 Speed Fan Control**
- **Internal Temperature Sensors**
- **Illuminated Indicators**
- **OEM System Interface Capability (Tie-in)**
- **Service Reminder**
- **Compressor Clutch Cycling Protection**
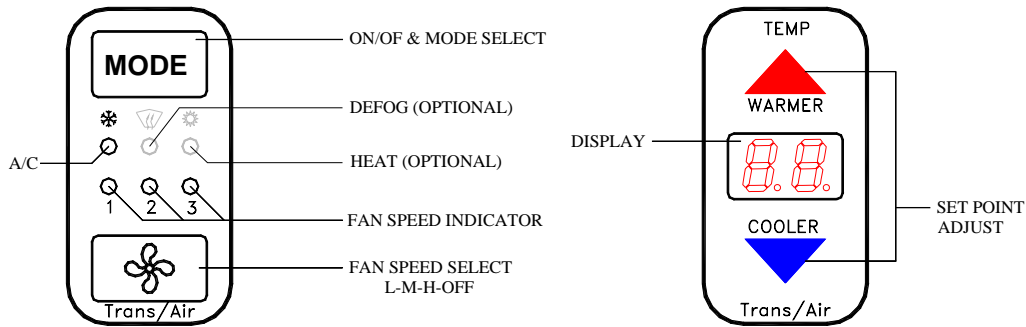- **Installs In OEM Rocker Switch Cutouts**
- **Optional Heat / Defog Control**

EC 2.5 with OPTIONAL HEAT / DEFOG OPERATION MANUAL

The EC2.5 climate control system has two driver control modules: Mode/Fan control switch and Thermostat. The Mode/Fan control switch turns system on/off and controls evaporator blower speed. The Thermostat displays cabin air temperature, service codes and adjusts set point temperature.

BASIC OPERATION

Turn system on

With the vehicle running, press the MODE button to turn EC2.5 system on. The A/C indicator will light up indicating system is in A/C mode. Fan speed indicator 1 will light up indicating the fan speed is Low. Thermostat will also turn on automatically. LED display shows cabin air temperature.

Select mode of operation (Heat / Defog Optional)

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

Change fan speed

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

Change set point temperature

The thermostat LCD display shows cabin air temperature during normal operation. Press UP or DOWN arrow once for set point mode. The set point temperature and a flashing decimal point will be displayed on the LED in set point mode. Press the UP or DOWN arrow again to adjust the set point to the desired value. After 5 seconds, EC2.5 will switch back to normal operating mode displaying cabin temperature. The new set point then becomes effective.

The default set point temperature is 70°F. This setting is stored in EC2.5's non-volatile memory. It takes effect every time the system turns on. To change the default set point 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 set point value will be stored into the non-volatile memory and become the default set point.

Turn system off

Press the MODE button until all the mode indicators turn off. The fan speed indicators and the thermostat LCD display will turn off consequently.

Fan Only mode operation

Press the FAN button while the EC2.5 system is 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 LCD still shows the cabin air temperature. To turn Fan Only mode off, just keep pressing the FAN button until all the fan speed indicators turn off.

TROUBLE SHOOTING

Service Indicator	
Hi	Internal temperature above 90 °F
Lo	Internal temperature below 60 °F
Sr	Service required
	High pressure fault or
	Low pressure fault

No service required when the thermostat LCD 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.