The system will automatically maintain the vehicle passenger compartment temperature in the AUTO or manual mode by controlling the air conditioning, heat, and blower fan, regardless of outside temperature or weather conditions; but there may be times when it is desirable to override some or all of the system's automatic features, or take advantage of special automatic features to improve overall comfort.

BASIC OPERATION

Turn system on. With the vehicle running, press the AUTO button to turn the system on (see note 1).

Select mode of operation. Completely automatic operation is achieved by pressing the AUTO or manual button (see note 2).

Set the air direction control to select the proper air ducts (see note 3).

Set the desired comfort temperature using the buttons (see note 4).

ADVANCED OPERATION

The following advanced features may be selectively enabled or disabled by the installer:

External Temperature. Press the button to show the outside temperature instead of the set point temperature. The letter "E" will appear in the leftmost digit to indicate that the temperature being displayed is the external temperature (unless the external temperature is above 99°F [37°C] in which case the leftmost digit will be a zero [e.g. 100°F / 38°C]). The display will return to showing the set point temperature after approximately five seconds.

Ice Warning. The word "ICE" will appear briefly in the display window periodically when the external temperature is within +/− 6°F (+/− 3°C) of the freezing point, in order to warn the operator that conditions are favorable for the formation of ice on the road surface and extra care should be taken.

Manual Fan Speeds. If automatic regulation of heat and air conditioning is desired with a fixed fan speed instead of automatically varying fan speeds (eg. if a constant low speed is desired to minimize the noise of the blower fan, or if a constant high speed is desired to improve the air circulation to the rear of a large passenger compartment), use the button on the right side of the Control Module to select the desired fan speed. Pressing the button repeatedly causes the fan speed to scroll through speeds 1, 2, 3, and 4. Pressing the or button changes fan speed back to automatic.

Manual AC override. If you would like the AC to be on or off instead of varying automatically, this may be achieved by using the button on the right side of the Control Module. Pressing the button causes the AC to turn on and remain on even if cooling is not required. This mode may be desirable in humid conditions, because the air conditioner dehumidifies the air (this may help prevent window fogging). The temperature is still regulated automatically.

The button is the equivalent of the Econ mode on other systems. This prevents the AC from operating even if cooling is required. This mode of operation may be useful if AC is not desired, or if improved fuel economy is desired.

Manual Heat Mode. This mode is accessed by pressing the button repeatedly (or holding it down for an extended period) until the set point temperature has reached 86°F (30°C). Pressing the button once more will cause the word "hot" to appear in the display window. In this mode, the heater valve will be open constantly; and upon first entering this mode, the fan will be at the maximum (speed 4). You may select a lower fan speed by pressing the button. The AC is off in this mode, and there is no automatic regulation of the passenger compartment temperature. Pressing the button, or pressing either or button will cause the system to resume automatic operation. Use the buttons to select the desired set point temperature.

Manual AC Mode. This mode is accessed by pressing the button repeatedly (or holding it down for an extended period) until the set point temperature has reached 60°F (16°C). Pressing the button once more will cause the word "AC" to appear in the display window. The air conditioning will be on constantly and the fan will be at the maximum (speed 4). You may select a lower fan speed by pressing the button. The heat is off in this mode, and there is no automatic regulation of the passenger compartment temperature. Pressing the button, or pressing either or button will exit the manual AC mode and resume automatic operation. Use the buttons to select the desired set point temperature.
Manual Fan Only Mode. Access this mode using the (0) button. If the system is off, pressing the (0) button once will access the automatic operating mode, and pressing it again will access the manual fan mode as indicated by the word "FAN" appearing in the display window. In this mode, both heat and AC are off, and only the fan will operate. Upon first entering this mode, the fan will be at fan speed 1 (the minimum fan speed). You may select a different fan speed by pressing the (K) button. Press the (0) button to turn the system off completely or select automatic operation.

Recirculate Control. It is recommended that the (0) button be used in extreme temperature conditions (hot or cold) to permit the vehicle's heating or cooling systems to work most effectively. It may also be desirable to use recirculate when driving in a tunnel or city traffic to help keep out noxious fumes. It is not considered safe practice to use recirculate for extended periods when all windows and outside vents are closed, as the possible build-up of carbon dioxide may cause drowsiness. It is also advisable to use recirculate during cool, humid conditions as this may cause the windows to fog excessively. If the recirculate button on the control module has not been enabled, the OEM control may be used for the same purpose. This control may be marked "recirc" or (arrows forming a circle) or "MAX".

Defrost Button. The (0) button will cause the fan to go to manual fan speed 4 and turn the AC on. These are the conditions best suited to clearing a fogged windshield. You must use the OEM mode control to select the defrost position to direct the air towards the windshield. Unless this air direction is selected, the defrost function will be ineffective. Temperature will still be controlled automatically.

Coolant Temperature Threshold Thermostat. In cold weather conditions, the system will not permit the blower fan to operate in either (0) or (0) mode (it will operate in manual fan speeds or defrost mode) until the coolant temperature has elevated to the point that heat is available for the passenger compartment. This is to prevent cold air from blowing on the passengers when the vehicle is first started. It is not unusual for it to take several minutes of warm up time to raise the coolant temperature sufficiently for the fan to start blowing. Driving the vehicle will cause it to warm up more quickly than letting it idle.

IMPORTANT NOTES:

1) It is not necessary to turn the system off before shutting off the vehicle. The system will turn off automatically when the vehicle ignition is switched off, and will turn back on automatically when the vehicle is restarted, retaining in memory, and returning to operation, in the same mode and settings it was last operating in.

You may manually turn the system off at any time by pressing the (0) button. This turns off the heat, air conditioning, and blower fan completely.

2) There are two modes of fully automatic operation. In Auto Mode (0), the system will select and regulate heating and air conditioning and vary the fan speed from the minimum to the maximum possible speed. The Auto Lo Mode (0) also permits full automatic operation of heating and cooling, but the fan operates at lower minimum and maximum speeds. It is useful when the operator wishes to avoid the noise or rush of air possible at the highest operating speeds in Auto Mode (0). Generally, Auto Lo Mode (0) may be used under all conditions except the extremes of hot or cold when Auto Mode (0) is preferable.

3) Generally, best results are obtained when the dashbaord or panel vents are selected when the system is cooling, and the floor vents are selected when the system is heating. As a rule of thumb, heat is generally required at outside temperatures above 55°F (13°C). For safety, the windshield or defrost vents must be selected if the windshield needs to be defogged or defrosted.

Combination of vents, (eg. floor and windshield, or floor and panel) may be most comfortable in mild climate conditions when minimal heating or cooling is required. These combination positions may also offer better air distribution when the passenger compartment is large, or there are rear seat passengers.

Large differences in the perception of heating and cooling will be felt depending on whether the vent output blows directly on you or is positioned to blow the air indirectly into the passenger compartment.

Personal experimentation with the combination of vent selection and aiming will yield the best comfort results.

4) Most people find that their comfort zone is between 72°F (22°C) and 78°F (26°C). Certain factors such as the intensity of the sun, humidity, or season may affect your optimal comfort zone. Most people find that they are more comfortable with a warmer temperature at night than during the day.