

**DESCRIPTION AND OPERATION (Continued)****MAX A/C (Recirculated Air)**

When the function selector knob is in the MAX A/C position:

- The outside / recirc door is at full vacuum, closing off outside air.
- The floor-panel door is at no vacuum, blocking airflow to the floor registers.
- The panel-defrost door is at full vacuum, closing off airflow to the defrosters.
- Temperature control is usually set for maximum cold, but may be heated if desired.
- Air will be picked up at the recirc opening by the blower motor. Airflow across the evaporator core will be diverted past the heater core and then directed into the passenger compartment through the instrument panel registers.

The A/C System Schematic and Vacuum control Chart illustration shows the Function Selector Valve Detent Position chart and a schematic of mode selector knob functions.

Air flow charts 1 and 2 correlate specific airflow conditions which occur when a given function selector knob setting is made.

**OFF**

When the function selector knob is in the OFF position:

- The outside / recirc door is at full vacuum. As a result, outside air is closed off and recirc air is admitted to the system.
- The panel-defrost door and the floor-panel door are both at full vacuum, closing off the passages to the defrosters.

**NORM A/C (Outside Air)**

When the function selector knob is in the NORM A/C position:

- The outside / recirc door is set at no vacuum. This blocks the recirc passage and allows the admittance of outside air.
- All other door positions are the same as those previously described for the MAX A/C setting.
- Temperature setting can be changed manually as desired.
- The compressor will be operating when NORM A/C is selected.

**VENT**

When the function selector knob is in the VENT position:

- The outside / recirc door, with no vacuum being applied, will block recirculated air and admit outside air. From there, air flows through the system to the instrument panel registers.
- The floor-panel door is at no vacuum to block airflow to the floor registers.
- The panel-defrost door is at full vacuum, closing off airflow to the defrosters.

- The air conditioned airflow is admitted into the system when the function selector knob is in the VENT position, but the temperature control knob may be adjusted to heat the air, if desired.

**FLOOR**

When the function selector knob is in the FLOOR position:

- The outside / recirc door is in the no vacuum position, blocking recirc air and admitting outside air.
- The floor-panel door is in the vacuum position, closing off all but a minimum of airflow to the defrosters.
- The blend door is positioned to mix air flowing through the heater core and air from outside to achieve the desired temperature level.
- The panel-defrost door is in the no vacuum position, blocking air circulation to the panel registers.

**MIX**

When the function selector knob is in the MIX position:

- The outside / recirc air door and the panel-defrost door are in the no vacuum position.
- The floor-panel door is in the partial vacuum position, allowing airflow to both panel registers and floor duct.
- The A/C compressor operates to dehumidify the air and reduce windshield fogging.

**DEFROST**

When the function selector knob is in the DEFROST position:

- The outside / recirc door is in the no vacuum position, admitting outside air.
- Both the floor-panel and the panel-defrost doors are in the no vacuum position, so that the most of the incoming air is directed to the defroster nozzles. There is a slight air bleed to the floor registers.
- The temperature control knob setting will determine the amount of heat introduced into the airflow.
- The A/C clutch will also operate when the DEFROST position is selected. This dehumidifies incoming air and reduces windshield fogging.

**Components****Control Assembly**

The control assembly consists of three main parts:

- The function selector knob, a vacuum selector valve combined with an internal electrical switch
- Blower switch, an electrical switch that provides four speeds of blower operation
- The temperature control knob, which controls the position of the electric blend door actuator mounted on evaporator assembly