

DESCRIPTION AND OPERATION (Continued)

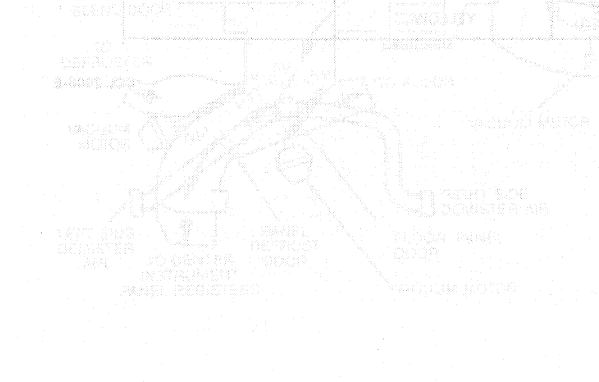
Temperature Control

Temperature control of the manual A/C-heater system is determined by the position of the temperature control knob on the control assembly and is accomplished by means of a control cable between the control assembly and the temperature blend door. System airflow is manually controlled by the control assembly. A vacuum selector valve, controlled by the function selector knob, distributes vacuum to the various door vacuum motors, which in turn direct the airflow through the system.

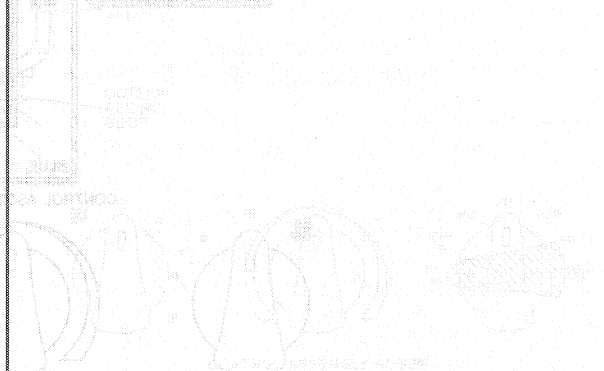
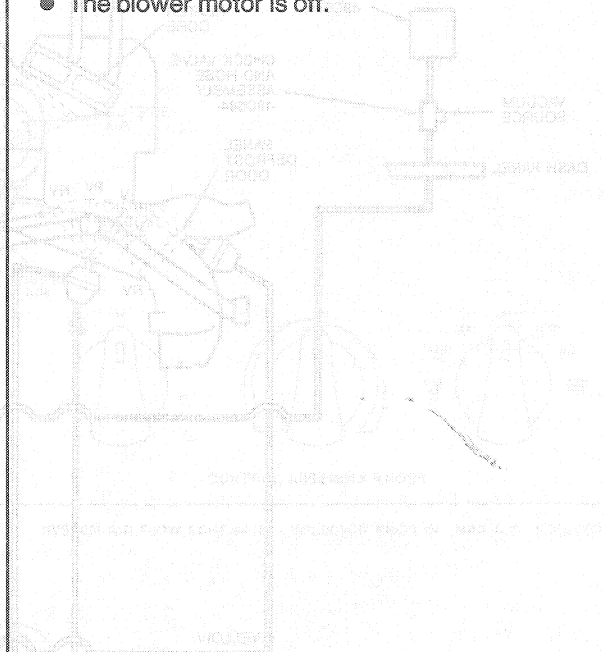
The system uses what is called a "reheat" method to provide conditioned air to the vehicle interior. With this method, all airflow from the blower passes through the evaporator core, where it is cooled and dehumidified. Temperature is then regulated by reheating a portion of the cooled dry air and blending it with the remaining cool air to the desired temperature. Temperature blending is varied by the temperature blend door, which controls the amount of cooled air that flows through or around the heater core, where it is mixed and directed into the distribution plenum. The air is finally directed to the heater ducts, the defroster nozzles, or the instrument panel registers according to function selector knob position.

System Airflow

The following three illustrations correlate the action which takes place when the function select knob is rotated to each of its seven detent locations: MAX A/C, NORM A/C, VENT, OFF, FLOOR, MIX and DEFROST. The first illustration shows the control assembly with its function selector knob in the OFF position, and its temperature control knob midway between its maximum WARM and maximum COOL settings. The fan knob is set at a LO blower speed. Other blower speed settings include: MEDIUM LOW, MEDIUM HIGH and HI. The illustration also provides a schematic of the manual A/C-heater system and the doors which respond to full vacuum, partial vacuum, and no vacuum when supplied by a separate vacuum motor for each door. These doors are: air outside / recirc door, a panel-defrost door in the plenum chamber and a floor-panel door which is designed to provide full, partial or no vacuum positions. The blend door is manually controlled by a cable and moves according to the position of the temperature control knob.



- The blend door may be positioned anywhere within the range of its cable travel, from full heat to full cold.
- The blower motor is off.



FUNCTION SELECTOR KNOB POSITION	VACUUM MOTOR	VACUUM MOTOR	VACUUM MOTOR
OFF	NO VACUUM	NO VACUUM	NO VACUUM
FLOOR	FULL VACUUM	PARTIAL VACUUM	NO VACUUM
MIX	FULL VACUUM	PARTIAL VACUUM	NO VACUUM
DEFROST	FULL VACUUM	PARTIAL VACUUM	NO VACUUM
MIX	FULL VACUUM	PARTIAL VACUUM	NO VACUUM
FLOOR	FULL VACUUM	PARTIAL VACUUM	NO VACUUM
OFF	NO VACUUM	NO VACUUM	NO VACUUM

