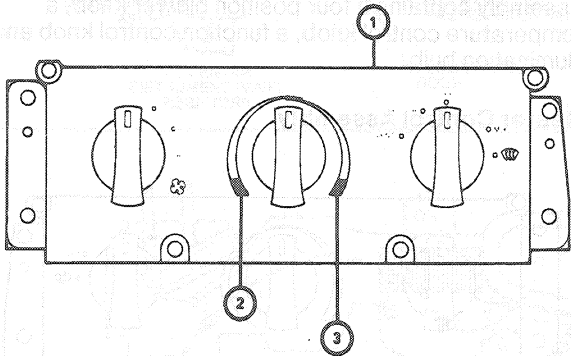## DESCRIPTION AND OPERATION (Continued)

Temperature Control

Temperature control of the heater and power ventilation system is determined by the position of the temperature control knob (between COOL and WARM) of the control assembly, and is accomplished by means of an electric blend door actuator 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 control knob, distributes vacuum to the various door vacuum motors which in turn, direct the airflow through the system.

Control Assembly — Temperature Control Knob

CCL 2586-C

ITEM DESCRIPTION
1. CONTROL ASSEMBLY (HEATER/POWER VENTILATION SYSTEM) - 18549
2. COOL BAND (BLUE)
3. WARM BAND (RED)

The system uses a temperature blend method to provide controlled temperature to the vehicle interior. With this method, all outside airflow from the blower passes through the heater case to the plenum assembly. Temperature is then regulated by heating a portion of the outside air and blending it with the remaining cooler outside air to the desired temperature. Temperature blending is varied by the temperature blend door which controls the amount of 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, depending upon the selection made with the function selector knob.

System Airflow and Vacuum Controls

The System Air Flow Schematic illustrates how air is circulated through the system when the function selector knob is in each of its detent positions. The following illustration adds a vacuum schematic and chart to a basic airflow schematic to show how the five lines in the vacuum harness are controlled by a selector valve assembly to operate three vacuum motors. The motors control the movement of:

- The outside-recirc door
- The panel-floor door
- The panel-defrost door