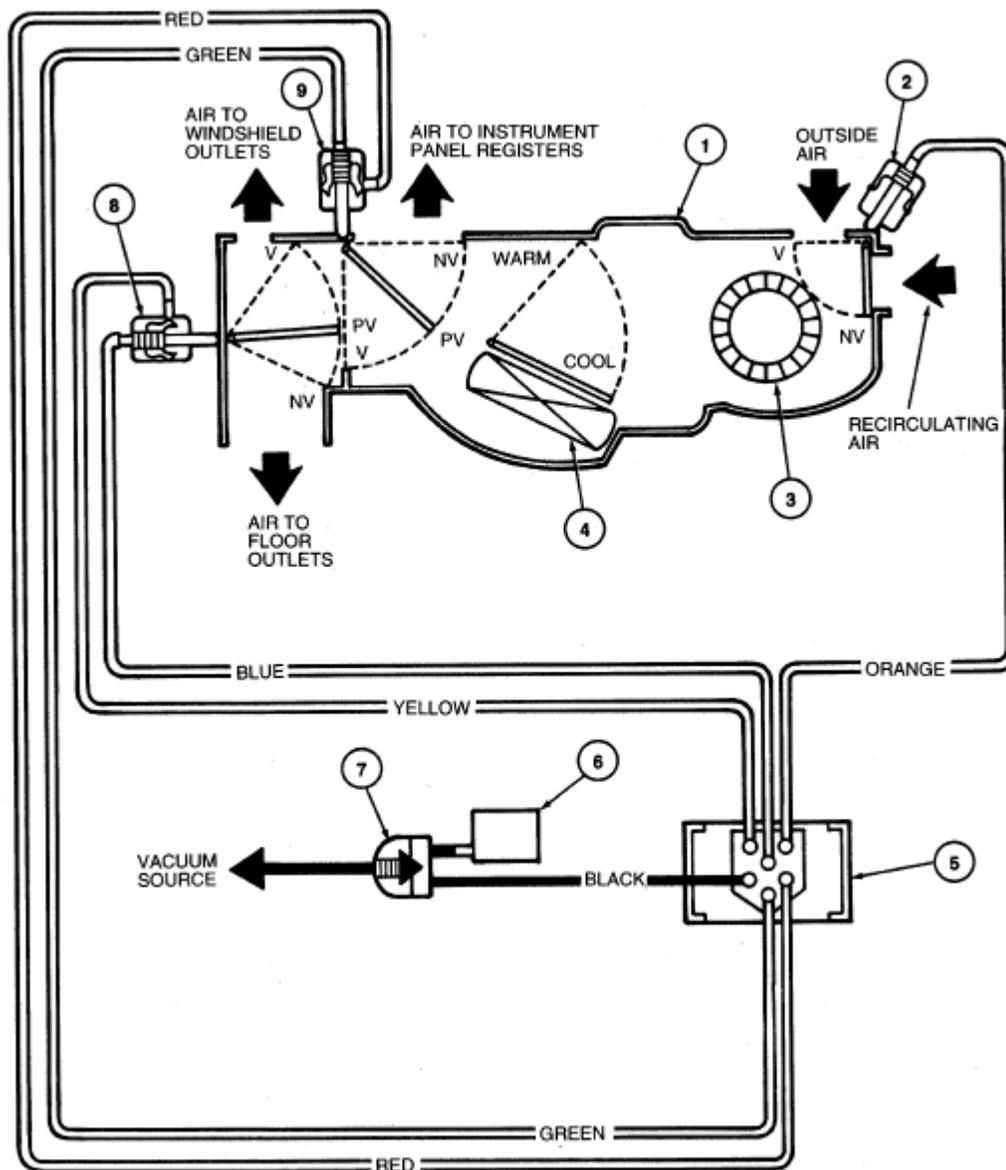


System Airflow

The following illustrations contain system vacuum schematics and vacuum motor charts which show vacuum routings and airflow when the controls are set at their various positions. Vacuum control motor charts illustrate vacuum line routings and air distribution during the various system operating conditions.

Vacuum Control Diagram



AM0107-A

Item	Part Number	Description
1	19850	A/C Evaporator Housing
2	18A318	Heater and Inlet Duct Door Vacuum Control Motor
3	18527	Blower Motor
4	18476	Heater Core
5	19C827	Vacuum Hose Harness
6	19A566	A/C Vacuum Reservoir Tank and Bracket
7	19A563	A/C Vacuum Check Valve
8	18A318	Windshield Defroster Door Vacuum Control Motor
9	18A318	Heater Air Damper Door Vacuum Control Motor

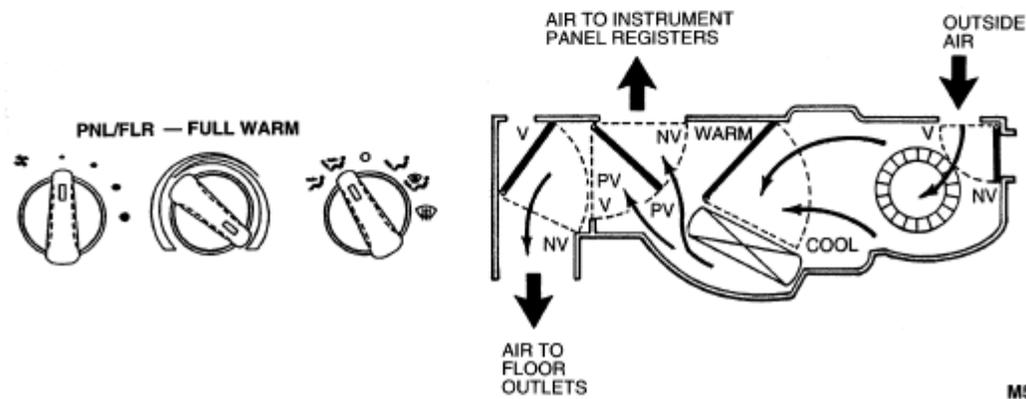
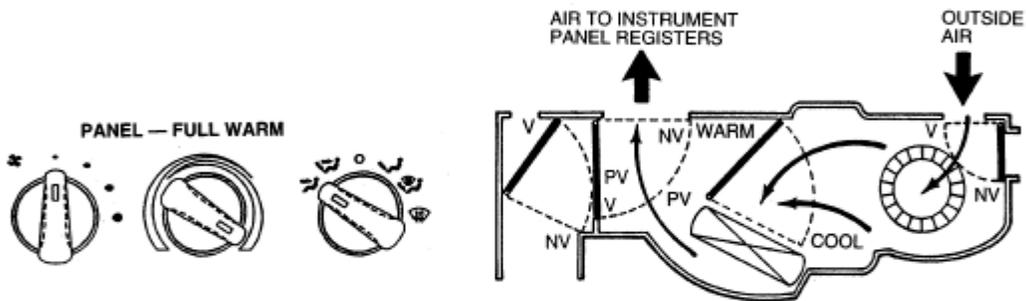
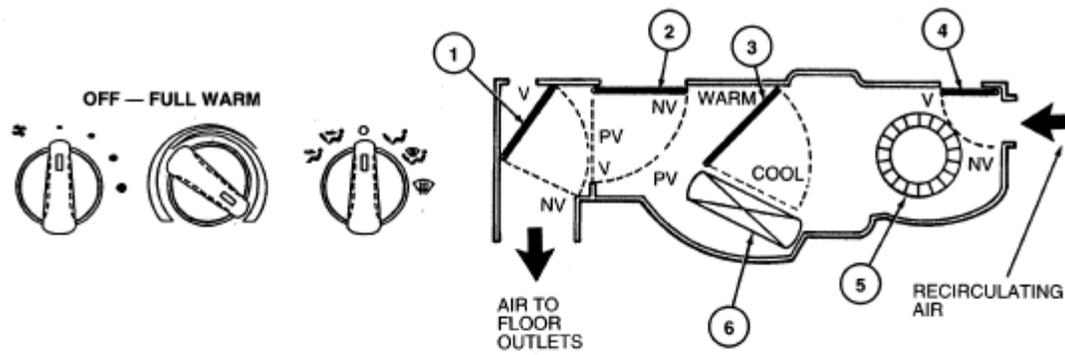
VACUUM CONTROL CHART

Function	Function Selector Knob Position						Hose Color
	PANEL	PANEL FLOOR	OFF	FLOOR	FLOOR DEFROST	DEFROST	
Heater and Air Inlet Duct Door	NV	NV	V	NV	NV	NV	Orange
Heater Air Damper Door	V	NV	NV	NV	NV	NV	Red
	V	V	NV	NV	NV	NV	Green
Windshield Defroster Door	V	V	V	V	NV	NV	Yellow
	V	V	V	V	V	NV	Blue
Blower Motor	On	On	Off	On	On	On	—

V = Vacuum

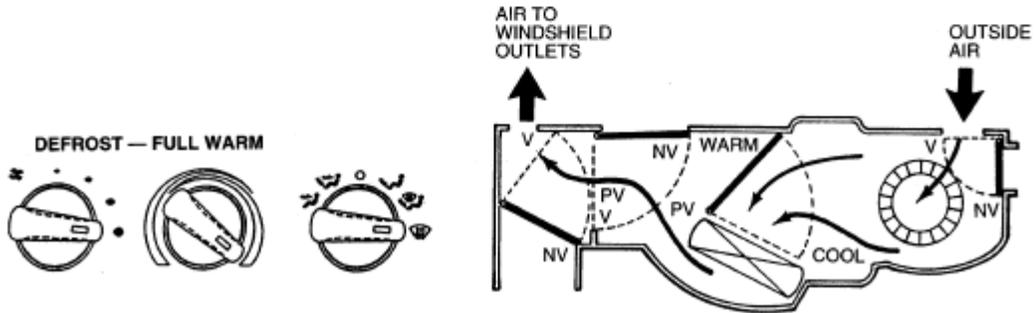
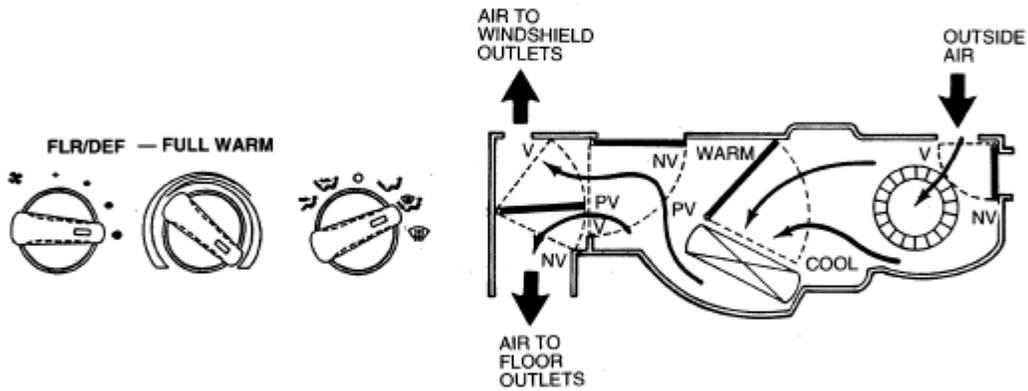
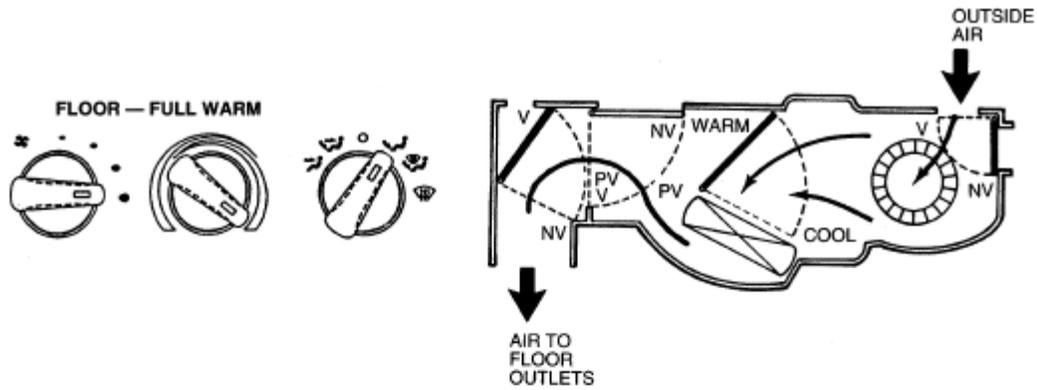
NV = No Vacuum

System Airflow Schematic—OFF, PANEL, PANEL/FLOOR



M5152-A

System Airflow Schematic—FLOOR, FLOOR/DEFROST, DEFROST



M5153-A

Item	Part Number	Description
1	18A478	Windshield Defroster Door
2	—	Heater Air Damper Door
3	—	Air Temperature Control Door
4	19C802	A/C Damper Inlet Door
5	18527	Blower Motor
6	18476	Heater Core

OFF

When the function selector knob (18519) is in the OFF position:

- the A/C damper inlet door (19C802) is at full vacuum. As a result, outside air is closed off and recirc air is admitted to the system.
- the heater air damper door is at no vacuum and the windshield defroster door (18A478) is at full vacuum, closing off the passages to the windshield defroster hose nozzle (18490) .
- the air temperature control door position may be anywhere within its range of adjustment from FULL HEAT to FULL COOL.
- the blower motor (18527) is off.

PANEL

When the function selector knob is in the PANEL position:

- the A/C damper inlet door , with no vacuum being applied, will block recirc air and admit outside air. From there, airflow is directed through the system to the instrument panel A/C registers (19893) .
- the heater air damper door is at full vacuum to block airflow to the heater outlet floor duct (18C433) .
- the windshield defroster door is at full vacuum, closing off airflow to the windshield defroster hose nozzle .
- the temperature setting can be changed manually as desired.
- the blower motor is on.

PANEL/FLOOR

When the function selector knob is in the PNL/FLR position:

- the A/C damper inlet door is in the no vacuum position, blocking recirculating air and admitting outside air.
- the heater air damper door is in the partial vacuum position, allowing airflow to both the heater outlet floor duct and A/C register .
- the windshield defroster door is at full vacuum, closing off airflow to the windshield defroster hose nozzle .
- the temperature setting can be changed manually as desired.
- the blower motor is on.

FLOOR

When the function selector knob is in the FLOOR position:

- the A/C damper inlet door is in the no vacuum position to block recirc air and admit outside air.
- the heater air damper door is in the no vacuum position closing off airflow to the A/C registers .
- the A/C air temperature control door can be positioned to mix air flowing through the heater core (18476) and air from outside to achieve the desired temperature level.

- the windshield defroster door is in the full vacuum position to block air circulation to the windshield defroster hose nozzle .
- the blower motor is on.

FLOOR/DEFROST

When the function selector knob is in the FLR/DEF position:

- the A/C damper inlet door and the heater air damper door are in the no vacuum position.
- the windshield defroster door is in the partial vacuum position allowing airflow to both heater outlet floor duct and windshield defroster hose nozzle.
- the blower motor is on.

DEFROST

When the function selector knob is in the DEFROST position:

- the A/C damper inlet door is in the no vacuum position to admit outside air.
 - both the heater air damper door and the windshield defroster door are in the no vacuum position so that most of the incoming air is directed to the windshield defroster hose nozzle . There is also airflow to the A/C side window demister and hose (19E630) .
 - the temperature control knob setting will determine the amount of heat being introduced into the airflow.
 - the blower motor is on.
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