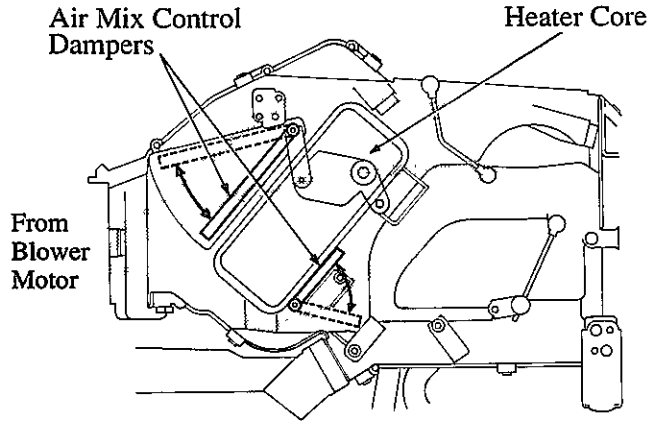
■ CONSTRUCTION AND OPERATION

1. Heater Unit

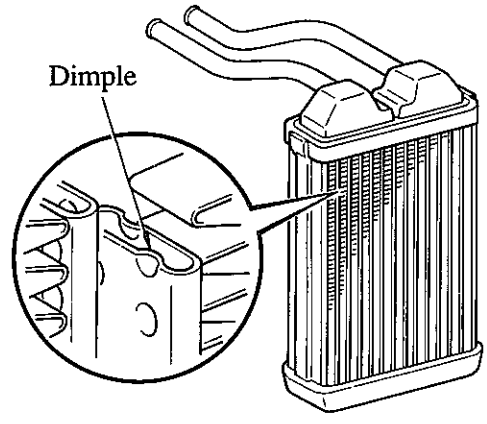
Three-Flow Level Type Front Heater Unit

The construction of the three-flow level type front heater unit is shown at right. This type features lower air flow resistance.



Dimple Tube Type Heater Core

A large number of dimples are added to the heater core, increasing its radiation surface area and providing good heat transfer efficiency, thus improving heat radiation performance.



2. Cooling Unit

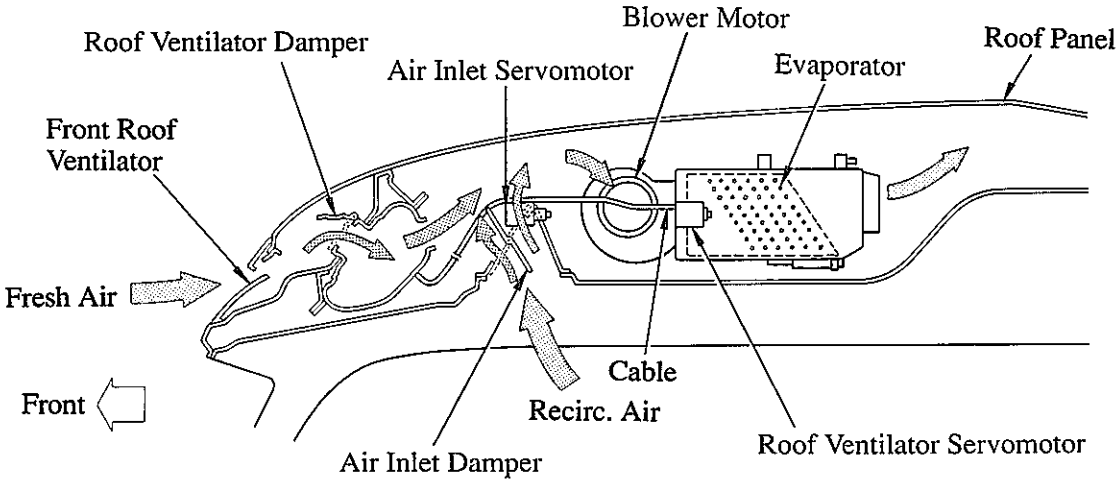
Cooler Amplifier

The cooler amplifier has the same function as those models using a conventional manually operated cooler.
Each function is explained below in detail.

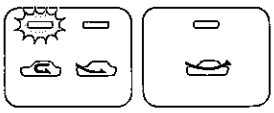
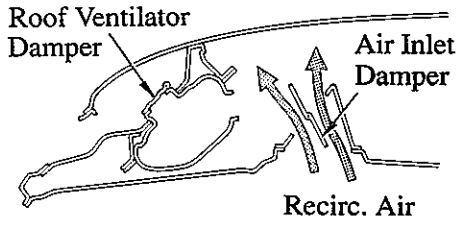
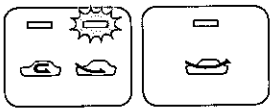
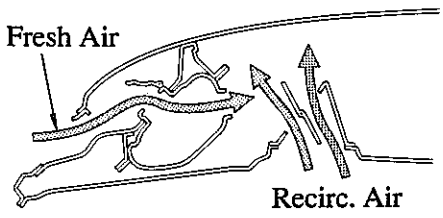
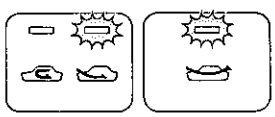
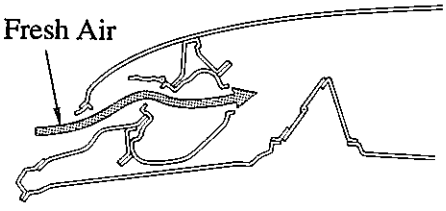
Function	Details
Magnetic Clutch Relay Control	● When the blower switch and the cooler switch are turned on together, the magnetic clutch relay turns on and activates the compressor. ● When one of the following conditions is met while the compressor is turned on, the magnetic clutch relay is turned off and stops the compressor: i) The refrigerator pressure is too low or too high and the low or high pressure switch of the dual pressure switch is turned off. ii) The air temperature immediately after passage through the evaporator is detected by the thermistor to be below 3°C (37.4°F).

Servomotors

The servomotors are activated by the operation of the Recirculate/Fresh (,) and the Ram Air Ventilation ( ) switches. The servomotors, in turn, operate the dampers in the roof ventilator duct and air inlet duct to provide functions such as Fresh/Recirculated air switchover or forced air ventilation. The basic construction and operation of the servomotors are the same as those of the previous model.



▶Function◀

Switch	Servomotor Function	Damper Position and Air Flow
RECIRC. Switch is on  (RECIRC. Mode)	Servomotors close the roof ventilator damper, and open the air inlet damper, causing the recirculated air to flow.	
FRESH Switch is on  (FRESH Mode)	Both the roof ventilator damper and air inlet damper are opened by their respective servomotors to allow the flow of the fresh and recirculated air.	
Ram Air Ventilation Switch is on  (VENT mode)	The roof ventilator damper is opened (switching to FRESH mode) and the air inlet damper is closed by their respective servomotors to force in fresh air flow.	

BE