05I3E–01

DESCRIPTION

1. GENERAL

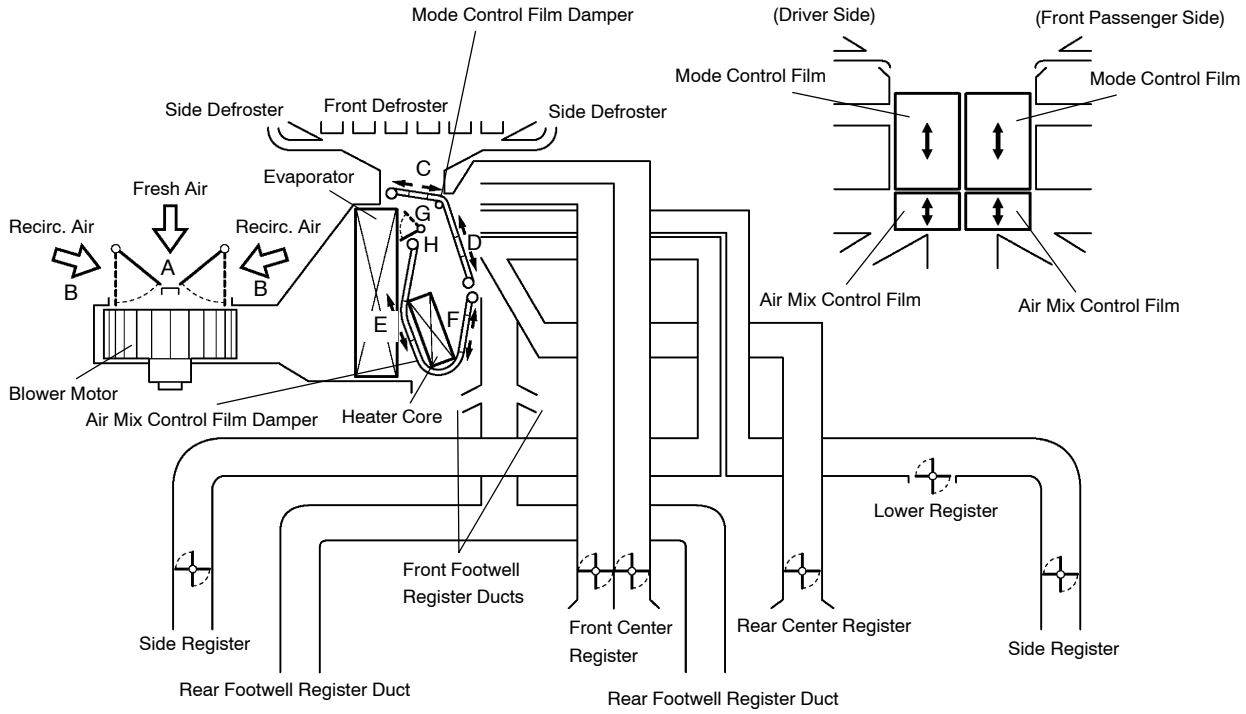
(a) The air conditioning system has the following features:

- In compliance with the temperature set at the temperature control switch, the neural network control calculates the outlet temperature based on the input signals from various sensors. In addition, corrections in accordance with the signals from the evaporative temperature sensor and the water temperature sensor are added to control the outlet air temperature.
- Controls the front and rear blower motors in accordance with the airflow volume that has been calculated by neural network control based on the input signals from various sensors.
- Automatically switches the outlets in accordance with the outlet mode ratio that has been calculated by the neural network control based on the input signals from various sensors.
- Automatically controls the air inlet control damper in accordance with the airflow volume that has been calculated by the neural network control.
- Turns the compressor on/off and controls the discharge capacity based on the signals from various sensors (*1).
- Based on the signals from the ambient temperature sensor, this control calculates the outside temperature, which is then corrected in the air conditioning amplifier, and shown in the multi–information display in the combination meter.
- Switched the rear defogger and outside rear view mirror heaters on for 15 minutes when the rear defogger switch is switched on. Switched them off if the switch is pressed while they are operating.
- Controls the orientation and the angle of the front center register based on the input signals from various sensors and on the outlet mode.
- Determines whether the clean air filter (for the front A/C) is clogged by monitoring the air inlets, and airflow volume.
- The A/C amplifier automatically controls the air inlets based on the signals from the smog ventilation sensor.
- Improves the air quality by linking the air inlet control damper and the blower motor (for the rear A/C and air purifier), based on the signals from the exhaust gas sensor and the smoke sensor.
- Checks the sensors in accordance with operation of the air conditioner switches.

*1: Except G.C.C. Countries Models

2. MODEL POSITION AND DAMPER OPERATION

Front Air Conditioning:



Control Damper		Control Position	Damper Position	Operation
Air Inlet Control Damper		FRESH	B	Brings in fresh air.
		RECIRC	A	Recirculates internal air.
Air Mix Control Film Damper	Driver and Front Passenger Side	MAX COOL to MAX HOT (TEMP. SETTING 18 to 32°C (64 to 90°F)	E, F	Varies the mixture ratio of the fresh air and the recirculation air in order to regulate the temperature continuously from HOT to COOL.
Cool–air Bypass Damper	Driver and Front Passenger Side	MAX COOL to MAX HOT (TEMP. SETTING 18 to 32°C (64 to 90°F)	G, H	Cool air blows out of the front center register, rear center register, and side registers, in order to adjust the temperature around the heads of the occupants during cooling or warming.
Mode Control Film Damper	Driver and Front Passenger Side	FACE	D	Air blows out of the front and rear center registers, and side registers.
		BI–LEVEL	D	Air blows out of the front and rear center registers, side registers, and front and rear footwell register ducts.
		Multi Mode	–	In the multi mode, air blows out of all the air outlets.
		FOOT	D	Air blows out of the front and rear footwell register ducts. In addition, air blows out slightly from the front and side defrosters, and the side registers.
		FOOT/DEF*	C, D	Air blows out of the front and side defrosters to defrost the windshield, air also blows out from the front and rear footwell register ducts, and the side registers.
		DEF*	C	Air blows out of the front and side defrosters and side registers to defrost the windshield.

*: Only during manual operation.

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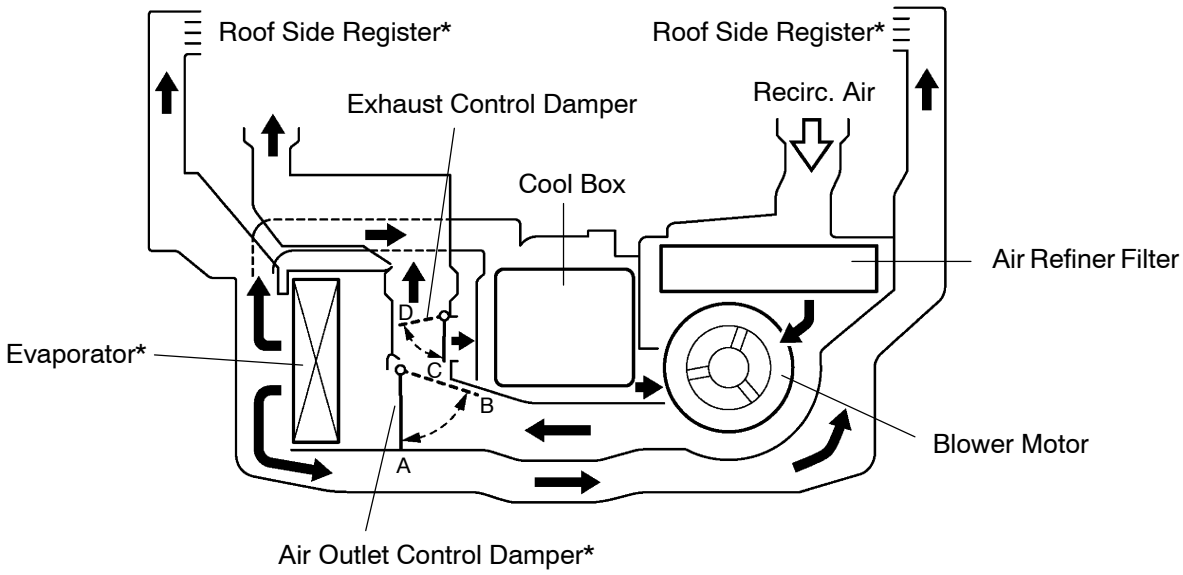
Rear Air Conditioning & Air Purifier



*: Only for Rear A/C

Control Damper	Control Position	Damper Position	Operation
Air Outlet Control Damper & Exhaust Control Damper	Air Purifier ON (FRESH Mode)	A, D	Cleaned air is discharged from the air vent in the luggage compartment.
	Air Purifier ON (RECIRC. Mode)	A, C	Cleaned air blows out of the dissipation grille.
	Rear Air Conditioning ON	B	Air blows out of the roof side registers.

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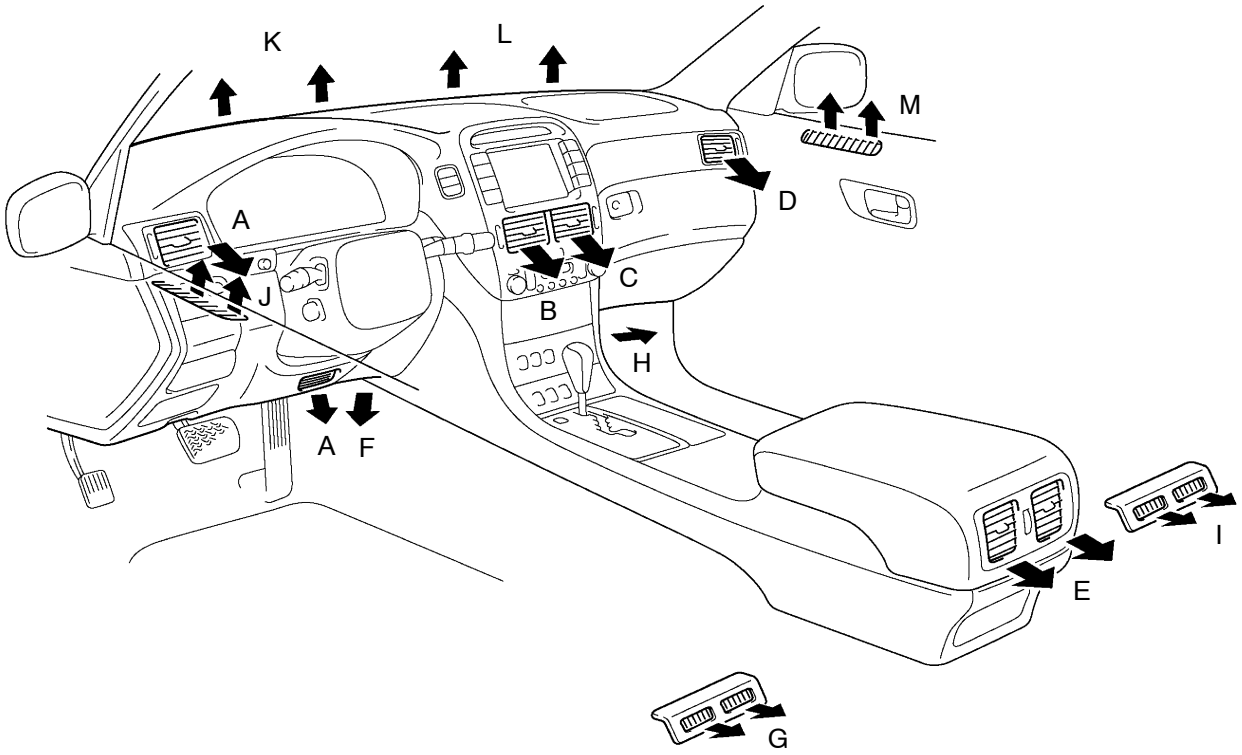
3. AIR OUTLETS AND AIR VOLUME RATIONS



Air Outlet Mode	Selectable Mode		Register					Footwell				Defroster			
			Driver		Front Passenger		Rear	Driver		Front Passenger		Driver		Front Passenger	
	Automatic	Manual	Center	Side	Center	Side	Center	Front	Rear	Front	Rear	Front	Side	Front	Side
FACE	●	●	○	○	○	○	○								
BI–LEVEL	●	●	○	○	○	○	○	○	○	○	○				
Multi	●	—	○	○	○	○	○	○	○	○	○	○	○	○	○
FOOT	●	●		○		○		○	○	○	○	○	○	○	○
FOOT /DEF	—	●		○		○		○	○	○	○	○	○	○	○
DEF	—	●		○		○						○	○	○	○
Air Outlet Position Symbol			B	A	C	D	E	F	G	H	I	K	J	L	M

The size of the circle ○ indicates the proportion of air flow volume.

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