

AIR CONDITIONER

DESCRIPTION

1. General

The air conditioner system in the Avensis Verso/Picnic has the following features:

Front Air Conditioner and Heater Unit	<ul style="list-style-type: none"> • A semi-center location air conditioner and heater unit has been adopted. • A multi-tank, super-slim structure evaporator has been adopted. (Only for front A/C) • A straight flow (full-path flow) aluminum heater core has been adopted. • A 2-way flow type air conditioner and heater unit has been provided on the 1CD-FTV engine models for Europe, and on the 1AZ-FE engine LHD models for Europe with cold area specification.
Rear Heater Unit	The rear heater unit is the same as the previous type, although it has been relocated under the front right seat.
Rear Cooler	<ul style="list-style-type: none"> • To ensure the comfort of the second and third seat occupants, the rear cooler unit has been provided with dedicated blower outlets for the respective seats. • A multi-tank, super-slim structure evaporator has been adopted.

► Equipment List ◀

Destination			Europe	Australia	General Countries
Front A/C			OPT	STD	←
Front Heater	1AZ-FE Engine	Conventional	STD	←	←
		2-Way Flow + PTC* ¹	OPT* ²	—	—
	1CD-FTV Engine	2-Way Flow	STD	—	—
		2-Way Flow + PTC* ¹	OPT* ²	—	—
Rear Cooler			OPT* ³	STD	←
Rear Heater		LHD	OPT* ²	—	—
		RHD	STD		
Clean Air Filter			OPT* ³	STD	←

*1: Only for LHD Models *2: Cold Area Specification Models

*3: with front A/C Models

► Performance ◀

Item		Single	Dual		
			Front		Rear
			2-way Flow	Conventional	
Cooling Performance	Cooling Output W (Kcal/h)	5600	6700		
	Air Flow Volume m³/h	510	510		340*¹
					305*²
	Power Consumption W	260	260		180
Heater Performance	Heater Output W (Kcal/h)	—	6000	5500	1950
	Air Flow Volume m³/h	—	350	330	100
	Power Consumption W	—	220		40

*1: without Moon Roof

*2: with Moon Roof

► Specification ◀

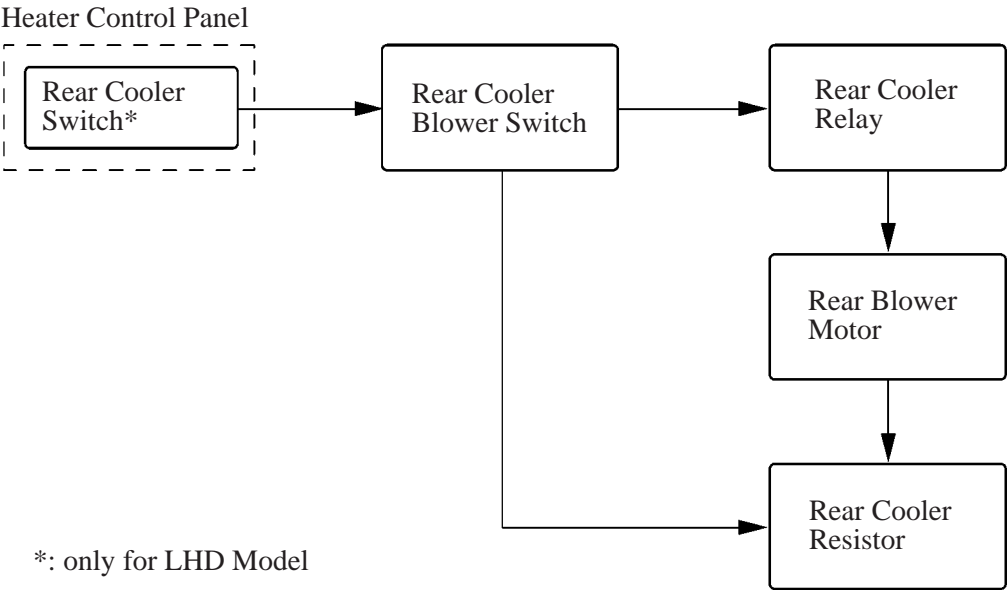
Item				Front	Rear
Ventilation and Heater	Heater Core	Type		Straight Flow (Full-path Flow)	Flat Tube
		Size W × H × L mm (in.)		216.9 × 140 × 46 (8.5 × 5.5 × 1.8)	160 × 92.7 × 36 (6.3 × 3.6 × 1.4)
		Fin Pitch mm (in.)		1.8 (0.07)	2.8 (0.11)
	Blower	Motor Type	2-way Flow	S80Fs13T	—
			Conventional	S70F14T	50Fs23T
		Fan Size Dia × H mm (in.)	2-way Flow	160 × 43 (6.3 × 1.7)* ¹ 142 × 44 (5.6 × 1.7)* ²	—
			Conventional	158 × 80 (6.2 × 3.1)	115 × 65 (4.5 × 2.6)
Front A/C and Rear Cooler	Condenser	Type		Multi-flow (Sub-cool)	
		Size W × H × L mm (in.)		710 × 378.3 × 16 (27.9 × 14.9 × 0.6)	
		Fin Pitch mm (in.)		3.2 (0.13)* ³ 2.8 (0.11)* ⁴	
	Evaporator	Type		Draw Cup	Draw Cup
		Size W × H × L mm (in.)		253.2 × 235 × 58 (9.97 × 9.3 × 2.3)	126.2 × 255 × 58 (5.0 × 10.0 × 2.3)
		Fin Pitch mm (in.)		3.0 (0.12)	3.5 (0.14)
	Compressor	Type		10S15* ³ 10S17* ⁴	
	Refrigerant	Type		R134a	
		Volume		500 g* ³ 800 g* ⁴	

*1: Motor Side *2: Fan Side

*3: Single A/C *4: Dual A/C

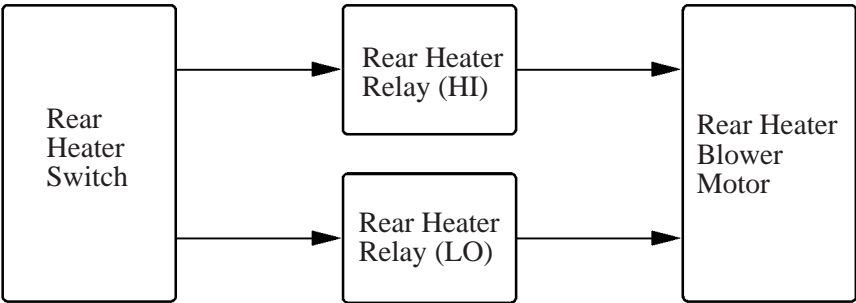
1CD-FTV Engine

► Rear Cooler ◀



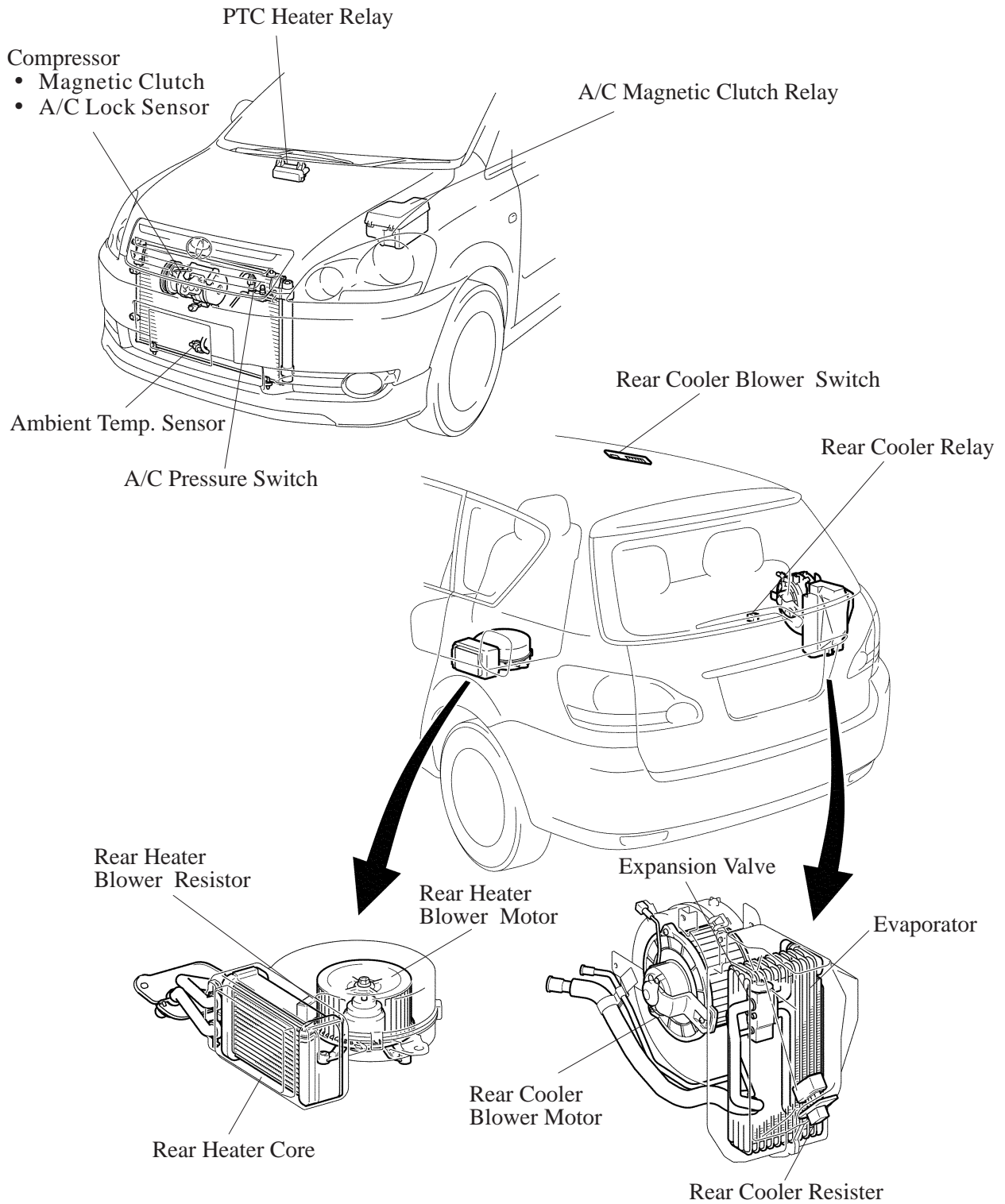
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► Rear Heater ◀

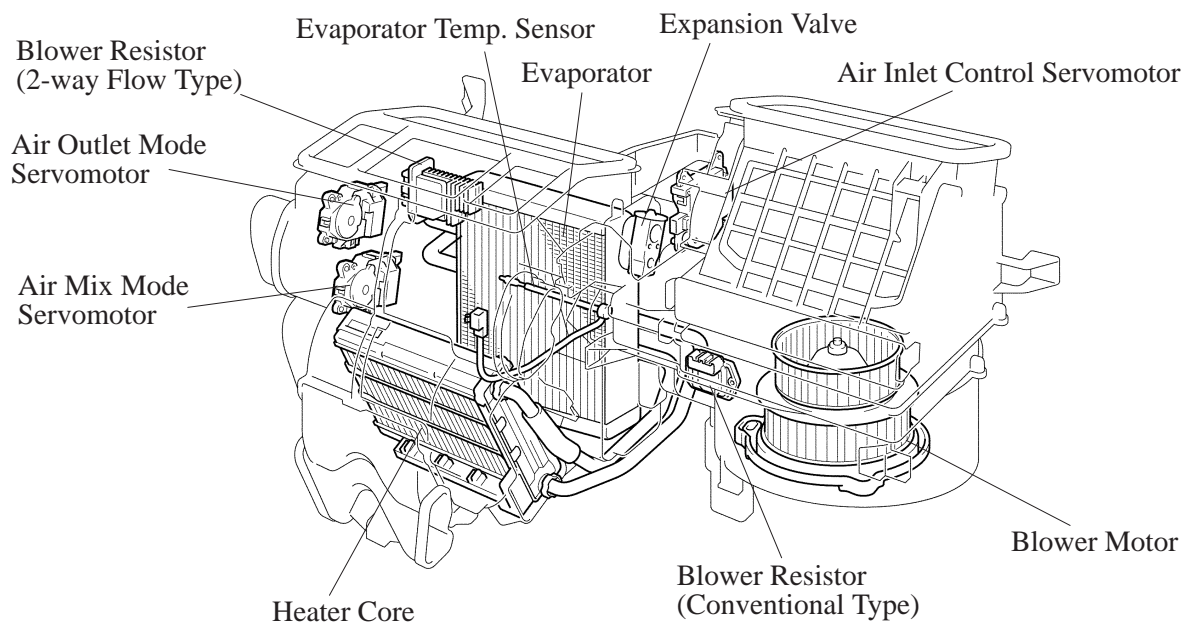
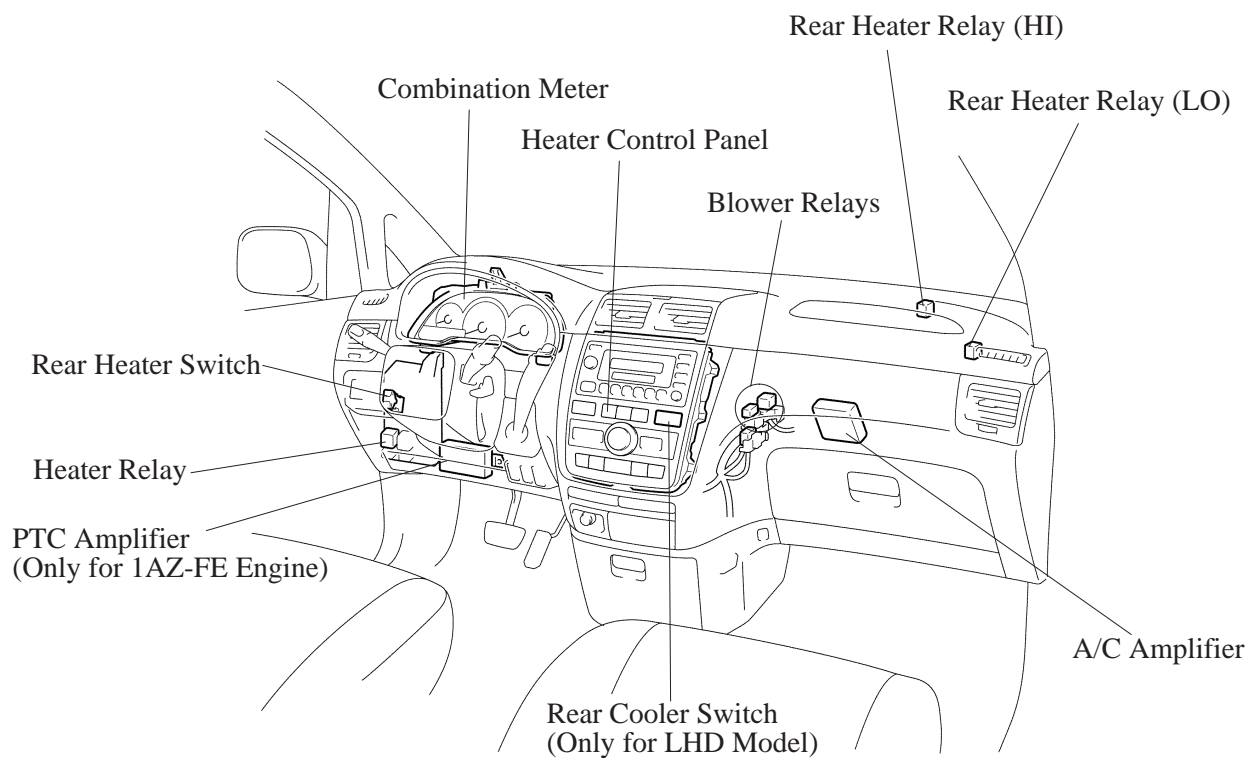


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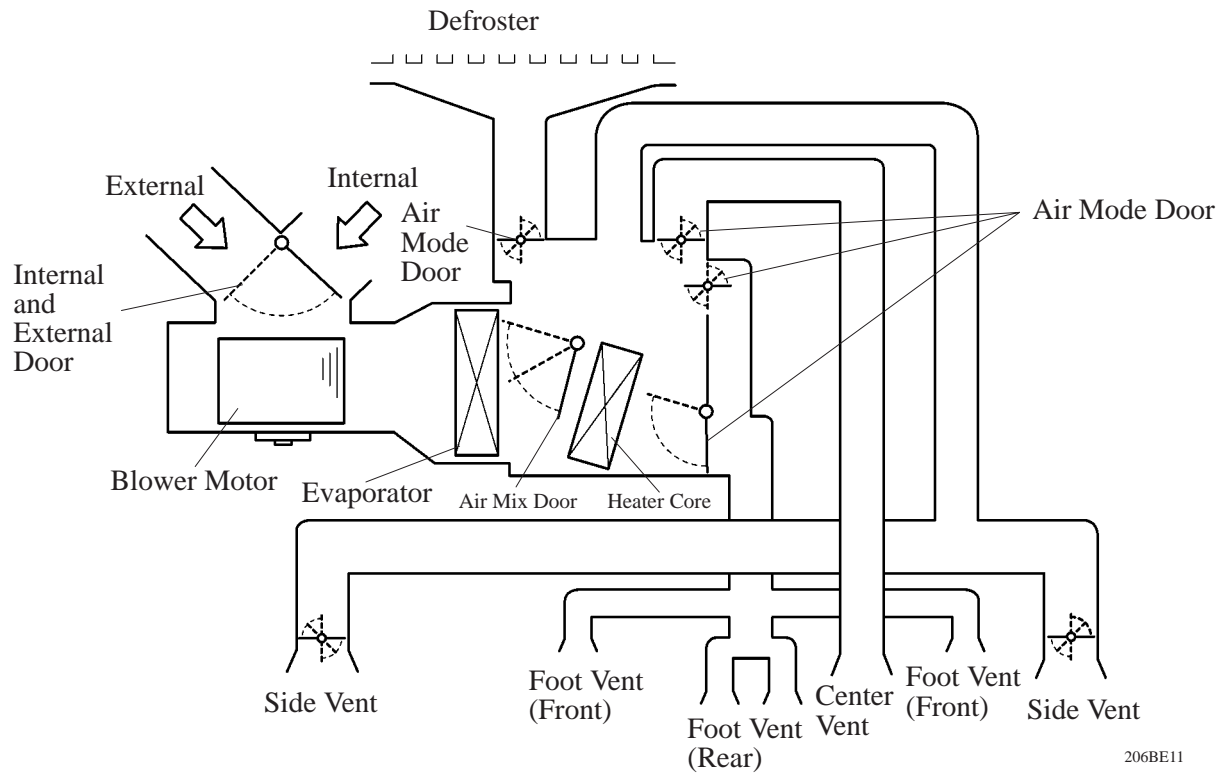
3. Layout of Component



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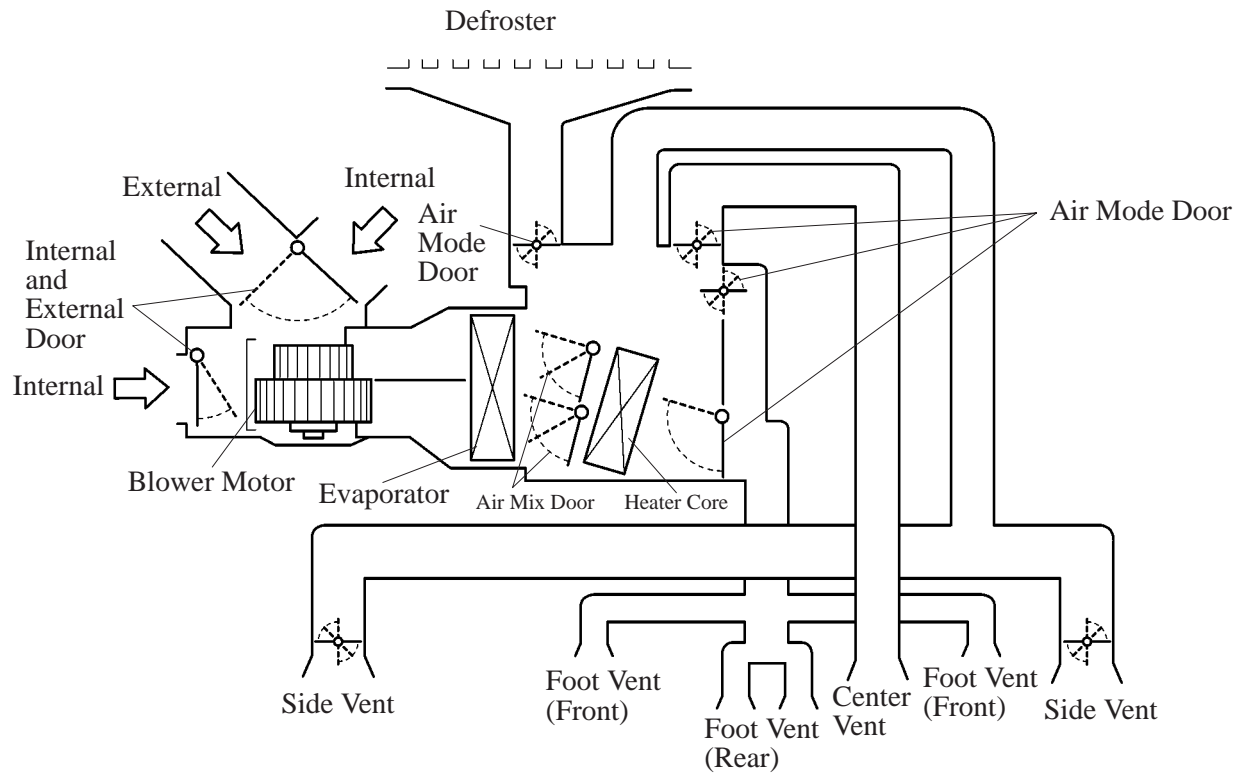


4. Damper Layout



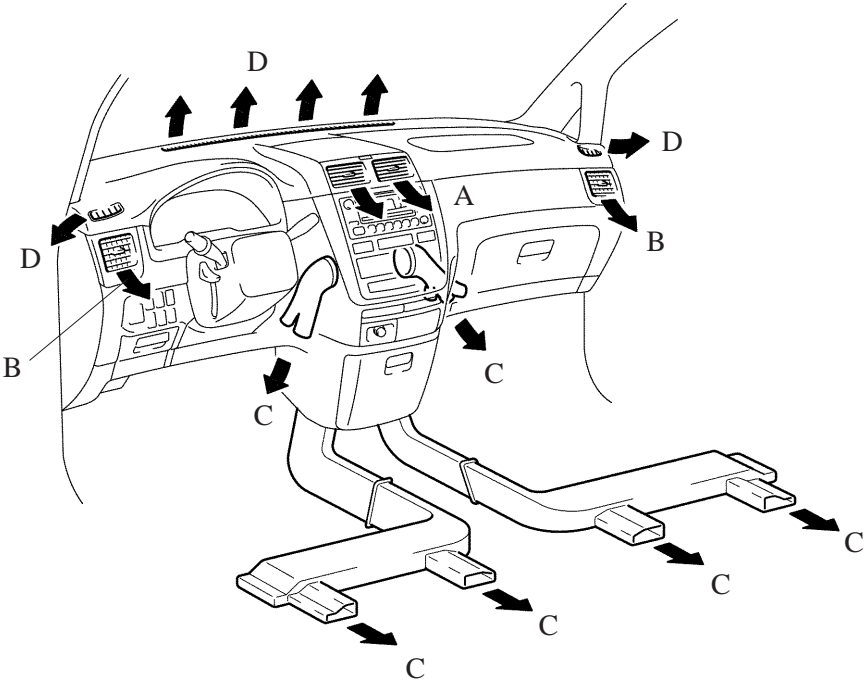
Conventional Type

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2-Way Flow Type

5. Air Outlets and Air Volume Rations



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Air outlet Mode	A	B	C	D
	Center Vent	Side Vent	Foot Vent	Defroster
 FACE 187BE24	○	○	—	—
 BI-LEVEL 187BE25	○	○	○	—
 FOOT 187BE26	—	○	○	○
 FOOT/DEF 187BE27	—	○	○	○
 DEF 187BE28	—	○	—	○

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