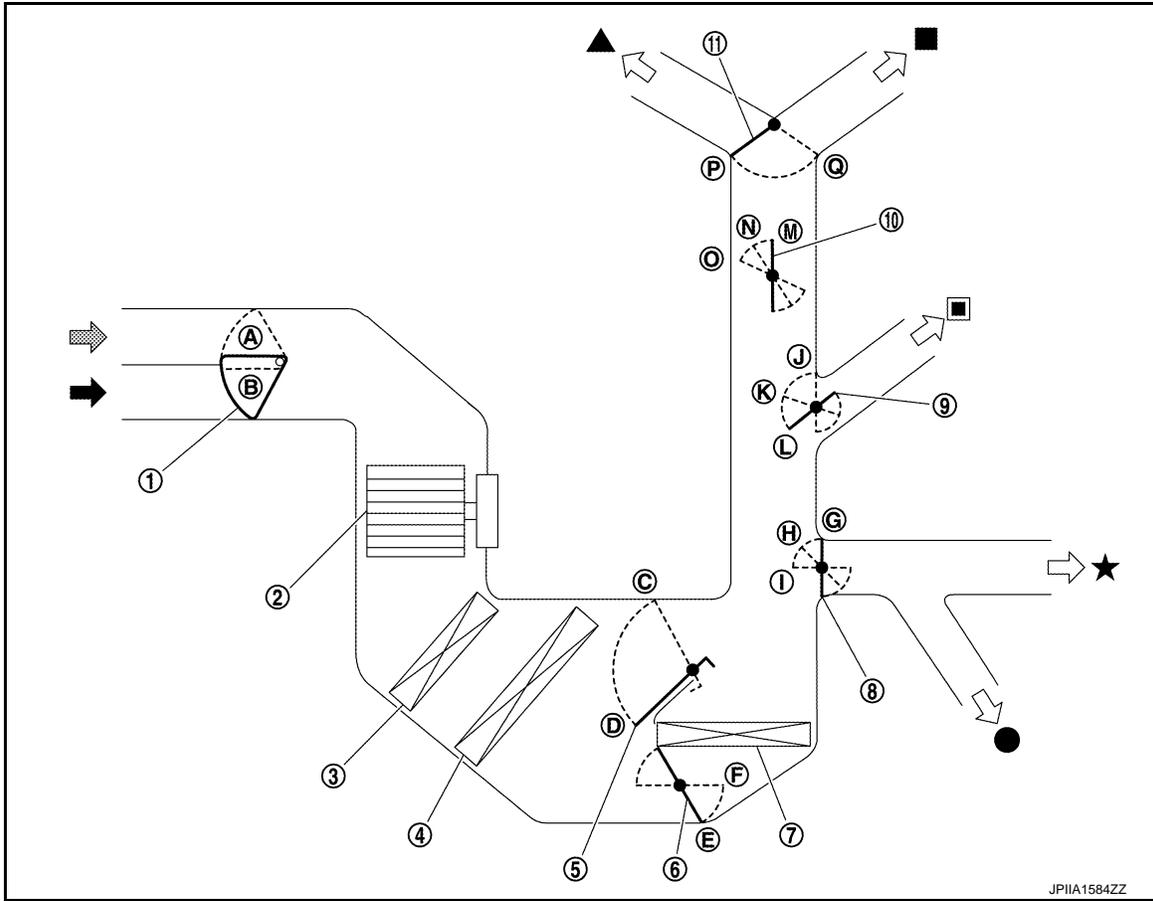


SYSTEM

< SYSTEM DESCRIPTION >

[TYPE 1]



JPIIA1584ZZ

- | | | |
|------------------------|--|---------------------------|
| 1. Intake door | 2. Blower motor | 3. Air conditioner filter |
| 4. Evaporator | 5. Upper air mix door | 6. Lower air mix door |
| 7. Heater core | 8. Foot door | 9. Side ventilator door |
| 10. Sub defroster door | 11. Center ventilator and defroster door | |
| ◀ Fresh air intake | ◀ Recirculation air | ▲ Defroster |
| ■ Center ventilator | ■ Side ventilator | ★ Foot |
| ● Rear foot* | | |

*: With rear foot duct

Switch/dial position		Door position					
		Center ventilator and defroster door	Sub defroster door	Side ventilator door	Foot door	Intake door	Upper air mix door
AUTO switch	AUTO	AUTO					

SYSTEM

< SYSTEM DESCRIPTION >

[TYPE 1]

Switch/dial position				Door position							
				Center ventilator and defroster door	Sub defroster door	Side ventilator door	Foot door	Intake door	Upper air mix door	Lower air mix door	
MODE switch	VENT			P	M	L	G	—	—	—	
	B/L				N	K	H				
	FOOT			Q	O	J	I				
	D/F				N						
DEF switch					M		G				
Intake switch				—	—	—	—	A	—	—	
								B			
Temperature control dial		Full cold (16°C)		—	—	—	—	—	D	E	
		16.5°C – 29.5°C								AUTO	AUTO
		Full hot (30°C)								C	F
OFF switch				P or Q*	M – O*	J – L*	G – I*	B	—	—	

*: Previous setting before turning air conditioning system OFF (FOOT when previous setting is automatic control).

AIR DISTRIBUTION

Without rear foot duct

Discharge air flow				
MODE/DEF setting position	Air outlet/distribution			
	Ventilator		Foot	Defroster
	Center	Side		
	52.6%	47.3%	—	—
	34.0%	27.7%	38.4%	—
	—	19.1%	57.9%	23.0%
	—	13.5%	42.4%	44.1%
	—	16.3%	—	83.8%

With rear foot duct

Discharge air flow					
MODE/DEF setting position	Air outlet/distribution				
	Ventilator		Foot		Defroster
	Center	Side	Front	Rear	
	52.6%	47.3%	—	—	—
	28.2%	25.9%	29.6%	16.3%	—
	—	16.3%	43.0%	21.0%	19.7%

SYSTEM

< SYSTEM DESCRIPTION >

[TYPE 1]

Discharge air flow					
MODE/DEF setting position	Air outlet/distribution				
	Ventilator		Foot		Defroster
	Center	Side	Front	Rear	
	—	12.2%	33.1%	16.3%	38.4%
	—	16.3%	—	—	83.8%

ECO Mode Control

INFOID:00000000626864

DESCRIPTION

- A/C auto amp. receives operation status of each switch (A/C operation signal), D-MODE setting status (ECO mode signal), and “CLIMATE ECO” setting status (A/C ECO setting signal) from multi display unit via CAN communication.
- A/C auto amp. operates air conditioning system in ECO mode, when D-MODE on multi display unit is set to ECO mode while air conditioning system is in automatic control.

NOTE:

- For setting procedure of D-MODE, refer to [AV-99. "NISSAN DYNAMIC CONTROL SYSTEM : System Description"](#).
- Activation or deactivation of ECO mode can be changed using multi display unit setting function (“CLIMATE ECO”). For setting procedure, refer to [AV-99. "NISSAN DYNAMIC CONTROL SYSTEM : System Description"](#).

CONTROL OUTLINE

During ECO mode operation, A/C auto amp. changes air flow and control characteristics of air inlet, within a range that may not spoil the comfort level, lowers operation ratio of compressor, and reduces the electrical load. This reduces engine load and improved fuel economy. Refer to the following items for details of each control.

Air Flow Control

- A/C auto amp. increases voltage to power transistor gate compared to ordinary operation and reduces voltage to blower motor. This reduces air flow.
- Since air flow is reduced, the amount of air that passes evaporator is reduced. Increase of evaporator temperature can be moderated. Evaporator temperature is easily shifted to temperature control range for low temperature protection control. Operation ratio of evaporator is reduced.
- Since air flow is reduced, the electrical load is reduced. Alternator power output can be moderated.

Air Inlet Control

- In the following conditions, A/C auto amp. controls air inlet and increases recirculation air mixing ratio compared to ordinary operation.
 - Ambient temperature: 25°C (77°F) or more
 - Temperature setting: Any temperature other than full cold (16°C) or full hot (30°C)
 - Air outlet: In automatic control
 - Air flow: In automatic control
 - Air inlet: In automatic control or in fresh air intake mode by manual control
 - A/C switch: ON
- By increasing recirculation air mixing ratio, cooled air in passenger room is circulated in larger amount than during ordinary operation. Air temperature blowing to evaporator is maintained at a low level. Evaporator temperature increase can be moderated. Evaporator temperature is easily shifted to temperature control range for low temperature protection control. Operation ratio of evaporator is reduced.

Fail-safe

INFOID:000000006692466

FAIL-SAFE FUNCTION

If a communication error exists between the A/C auto amp. and multi display unit for 2 seconds or longer, air conditioning is controlled under the following conditions:

- A/C display** : OFF
- Set temperature** : Setting before communication error occurs
- Air outlet** : AUTO