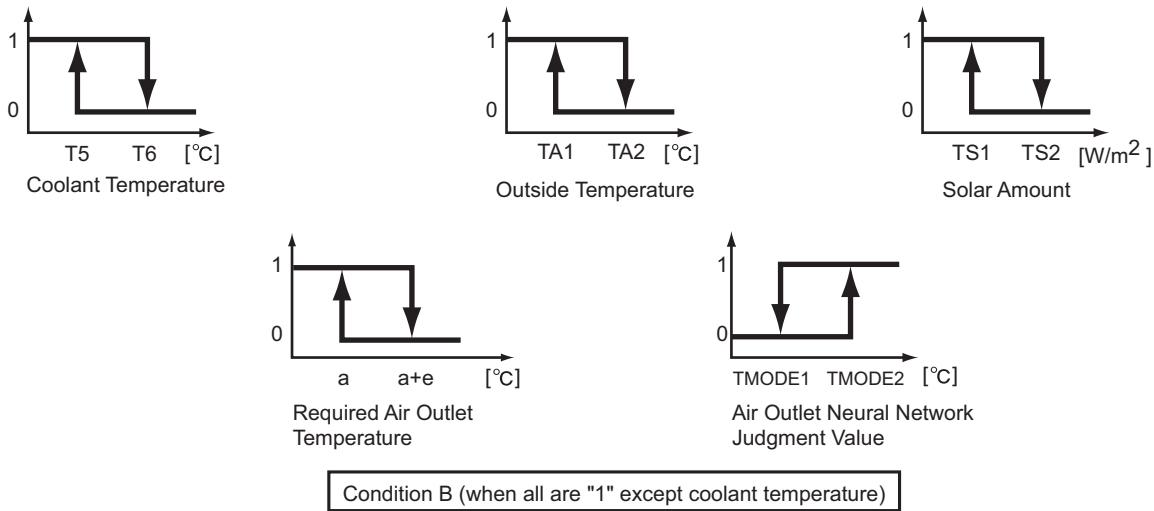
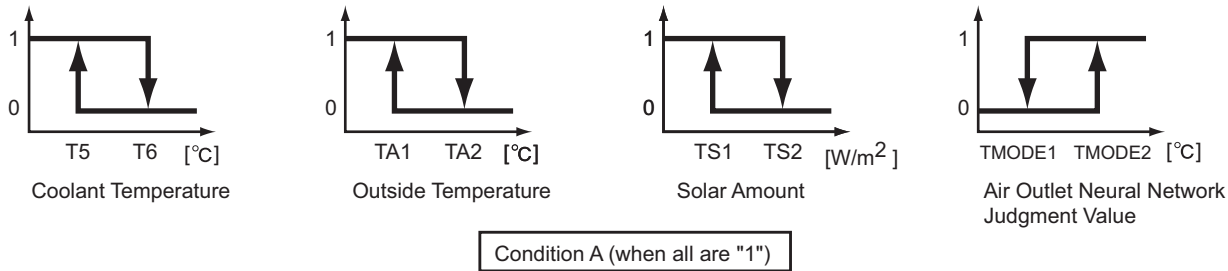


Low-Temperature FOOT/DEF Control

- When one of the conditions (A or B) shown below is met, the system automatically switches the air outlet mode to FOOT/DEF, in order to prevent the windows from becoming fogged at a low temperature or when the vehicle is being driven at high speeds.



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Air Inlet Control

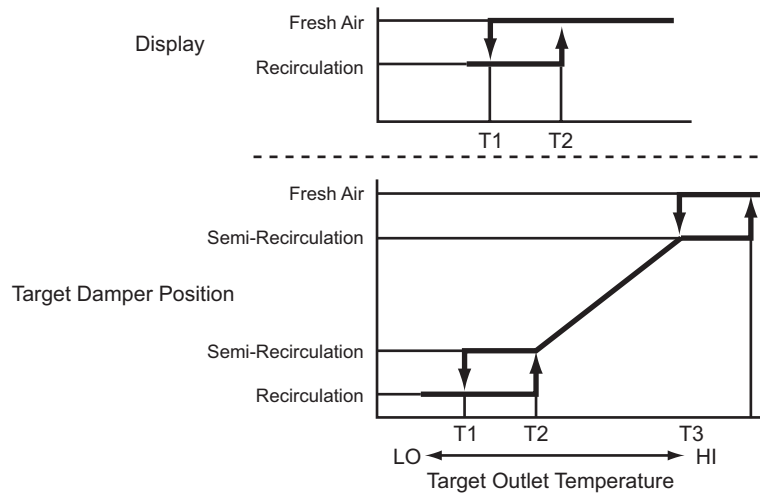
- The following types of air inlet controls are used: air inlet servomotor control, exhaust gas & air inlet servomotor control, etc.

Manual Control

- This control switches the air inlet mode to suit the position of the automatic recirculation switch that has been selected.

Air Inlet Servomotor Control

- This control calculates the target damper position as shown in the diagram, based on the driver's target outlet temperature calculated by the neural network. Then, this control automatically switches the air inlet mode in accordance with the target damper position. In addition, this control changes the timing in which the air inlet mode switches from recirculation to fresh air, or fresh air to recirculation, depending on the vehicle speed.



Note: The T1, T2, and T3 change to high when the vehicle speed is slow, and to low when the vehicle speed is fast.

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Exhaust Gas & Air Inlet Servomotor Control

- This control compares the aforementioned target damper position of the air inlet servomotor and the target damper position based on the contamination level of the recirculated air. Then, it controls the damper position closer towards recirculation.

AC

Air Quality Control

- This control is used for vehicle with the automatic recirculation control system. Upon receiving the input of a detection signal from the smog ventilation sensor, the air conditioner ECU calculates the contamination levels of the fresh air and the recirculated air. Then, it controls the air inlet modes as shown in the table (control list) below.

List of Air Quality Control

Input Signal		Output Signal
Contamination Levels of The Fresh Air	Contamination Levels of The Recirculated Air	Air Inlet Mode
4(High)	ON	The recirculation mode
	OFF	↑
3	ON	The fresh mode
	OFF	The recirculation mode
2	ON	The fresh mode
	OFF	Semi-Recirculation or fresh mode
1(Low)	ON	The fresh mode
	OFF	↑