

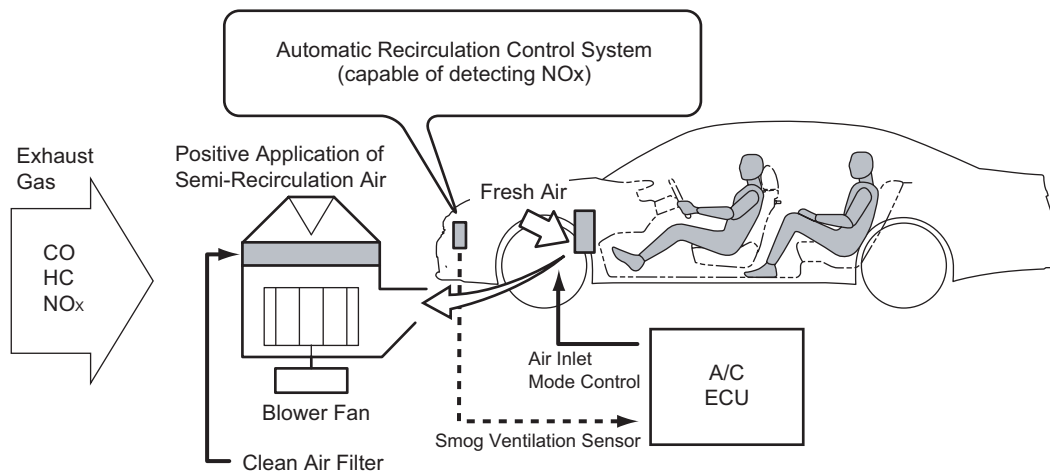
Automatic Recirculation Control

- This system uses a smog ventilation sensor to detect the harmful elements (CO, HC, NO_x, etc.) in the exhaust gases. Then, it automatically prevents those harmful substances from entering the cabin and brings in clean air (by switching between fresh and recirculated air) in order to improve air quality in the cabin.
- The automatic exhaust gas sensing type fresh-recirculation switching system uses the front air conditioner ECU to comprehensively determine the signals detected by the smog ventilation sensor. Then, it automatically switches the air outlets between fresh and recirculation modes, and corrects the airflow volume of the recirculation, semi-recirculation, and fresh air. Regardless of the signals that are detected, this system automatically switches to recirculation or fresh air when the conditions require maximum cooling in the middle of the summer, or defog the windows in the winter. Thus, the design of this system does not impair the ease of use or safety of the air conditioner system.

NOTICE

- This system is not used for some areas.
- The smog ventilation sensor cannot detect elements such as the smoke from a bonfire or factory exhaust, foul or animal odors, and dirt or dust particles. Therefore, the air inlet modes are not switched in accordance with those elements.
- Depending on the direction of the wind, the smog ventilation sensor might not be able to detect the exhaust gas elements, and could emit an odor.

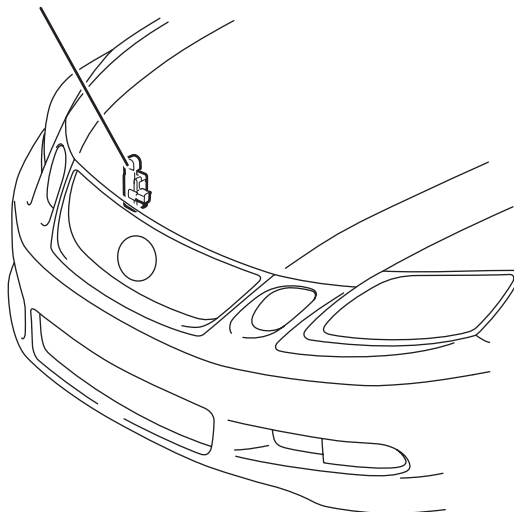
Automatic Recirculation Control System



Smog Ventilation Sensor

- Installed in front of the condenser, this sensor detects the harmful elements (CO, HC, NOx, etc.) in the exhaust gases and outputs them to the air conditioner ECU in the form of detection signals.

Smog Ventilation Sensor



A4270100E

Automatic Recirculation Switch

- This switch is located in the air conditioner operation area of the integration panel. Each time this switch is pressed, the air inlet modes change as follows: auto mode -> fresh air mode -> recirculation air mode -> auto mode. It will switch to the sensor sensitivity adjustment mode when this switch is pressed and held approximately 1.7 seconds while the vehicle is stopped.

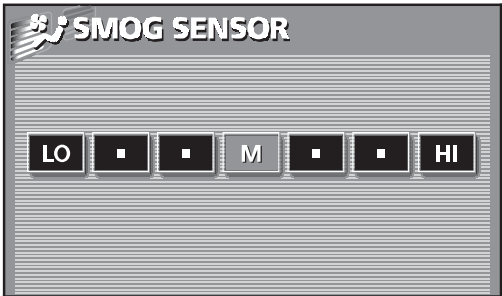


Automatic Recirculation Switch

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Sensor Sensitivity Adjustment Switch

- The detection sensitivity of the smog ventilation sensor can be adjusted as shown below.



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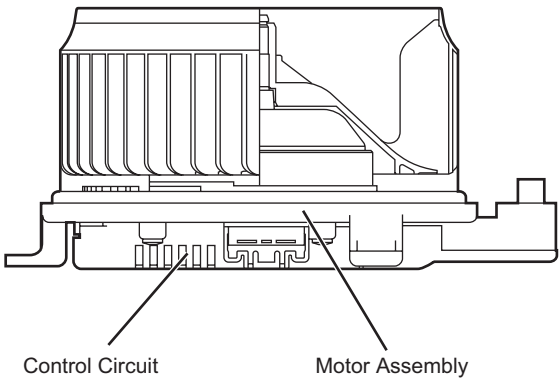
List of Operations

Item	Description
Operation	• Press and hold the automatic recirculation switch for approximately 1.7 seconds while the vehicle is stopped.
Display	• The multi display panel switches to the sensor sensitivity adjustment mode.
Adjustment	• Press the touch switches on the screen to adjust the detection sensitivity of the smog ventilation sensor. • The sensitivity adjustment ranges from HI to LO in 7 stages.

AC

Blower Fan

- As on the previous model, the blower motor and the blower motor controller have been integrated for space savings. In addition, a brushless motor is used, in which the brushes have been discontinued and the number of contacting parts has been reduced, thus realizing a low-noise operation.



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