

## AIRFLOW MODE ACTUATOR [FULL-AUTO AIR CONDITIONER]

id0740a1320700

### Purpose

- The airflow mode actuator moves the mode door in the A/C unit to switch the air vent.

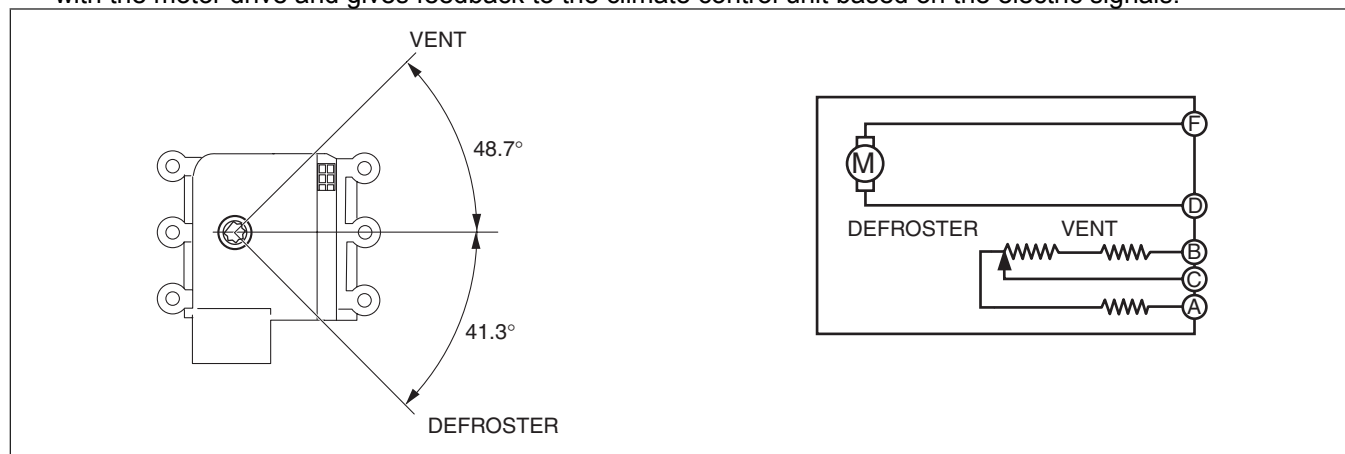
### Function

#### Door open/close function

- The airflow mode actuator drives the motor based on the signal from the climate control unit and moves the mode door to the VENT, BI-LEVEL, HEAT, DEF/HEAT, or DEFROSTER position.

#### Door position detection function

- The airflow mode actuator detects the changes in the mode door position using the potentiometer in conjunction with the motor drive and gives feedback to the climate control unit based on the electric signals.



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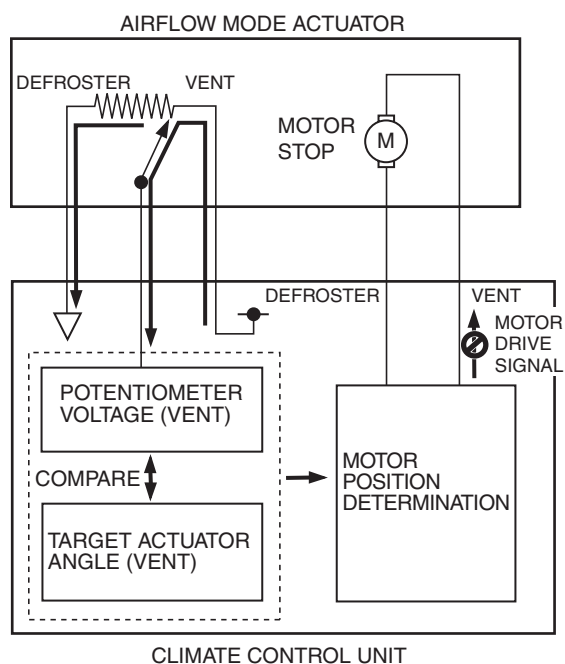
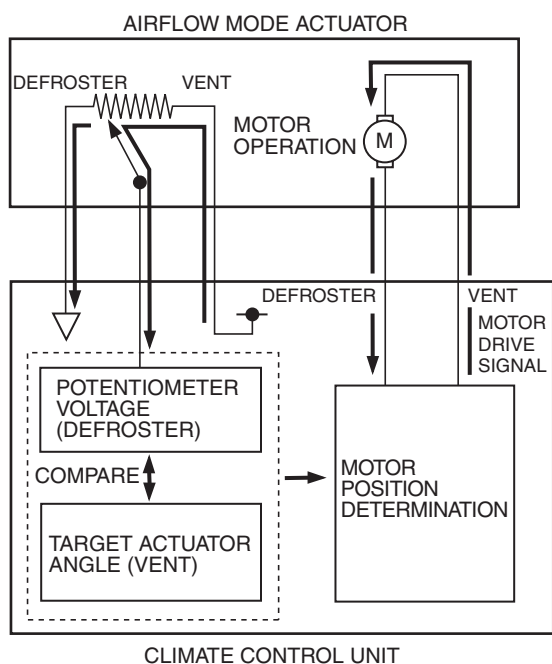
### Construction

- A potentiometer-type airflow mode actuator has been adopted.
- The airflow mode actuator is installed to the passenger's side in the A/C unit.

### Operation

- The climate control unit determines the airflow mode actuator target voltage based on the mode position determined by the airflow mode control.
- The climate control unit compares the voltage detected by the potentiometer in the airflow mode actuator with the target voltage.
- When the voltage detected by the potentiometer differs from the target voltage, the climate control unit outputs a motor drive signal.
- When the voltage detected by the potentiometer is equal to the target voltage, the climate control unit stops the motor drive signal to the airflow mode actuator.

MODE SWITCH SET TO VENT



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#### Fail-safe

- Function not equipped.