

## SPEAKER [WITHOUT Bose®]

id092000110400

### Purpose

- Converts the audio signal from the audio unit to sound.

### Function

- Full-range speakers, which can output wide-range sound from low to high frequency, have been adopted.

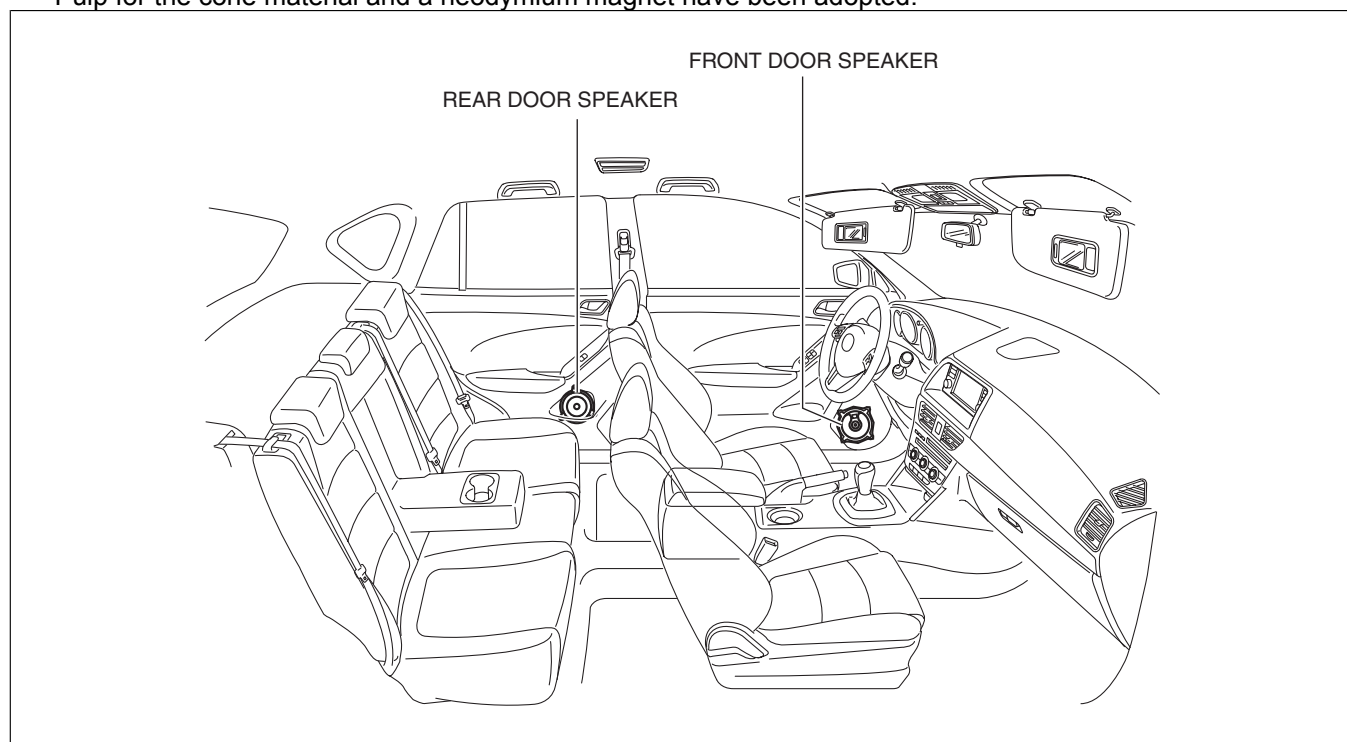
### Specification

Item		Front door speaker	Rear speaker	Tweeter
Rated input	(W)	10	10	10
Max. input	(W)	25	25	25
Rated impedance	(ohm)	3.4 — 4.6	3.4 — 4.6	3.4 — 4.6
Size	(mm {in})	165 {6.5} (229 {9})	165 {6.5}	80 {3.1}

### Construction

#### 4 speaker type

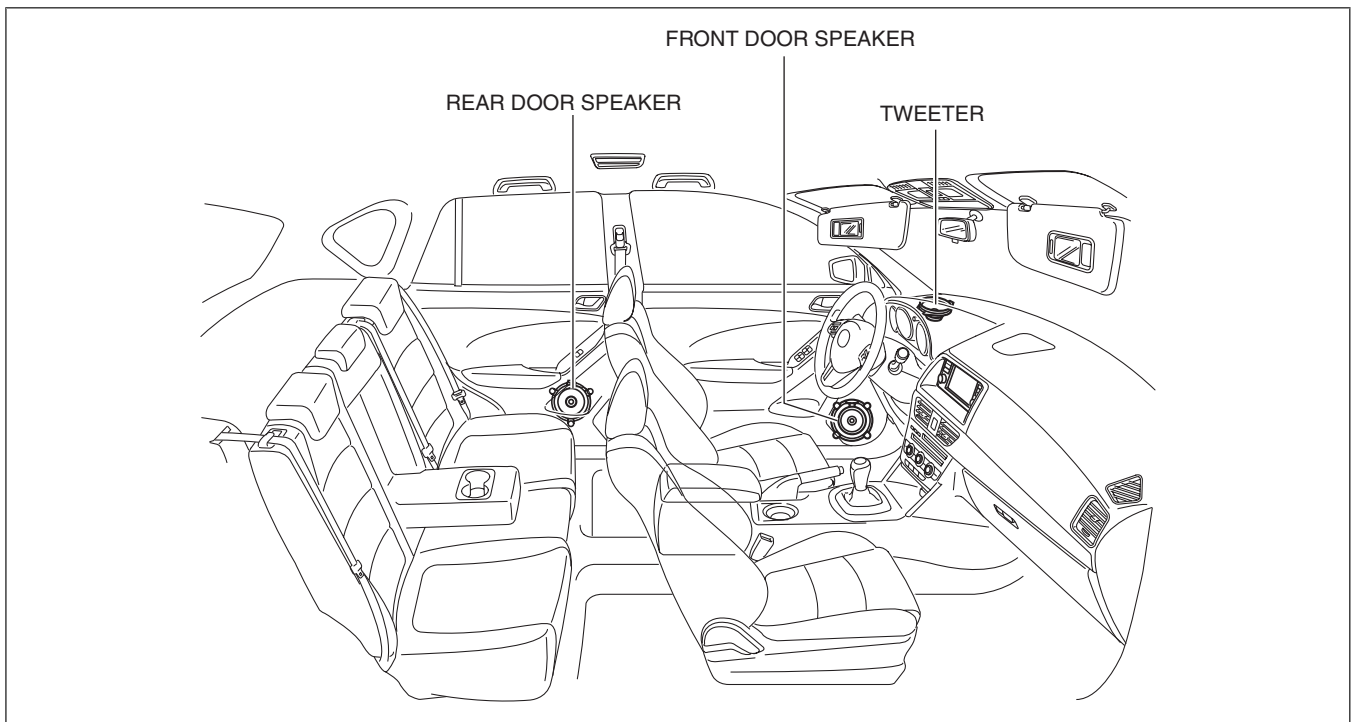
- A cone-shaped dynamic speaker has been adopted for each speaker.
- Pulp for the cone material and a neodymium magnet have been adopted.



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#### 6 speaker type

- A cone-shaped dynamic speaker has been adopted for each speaker.

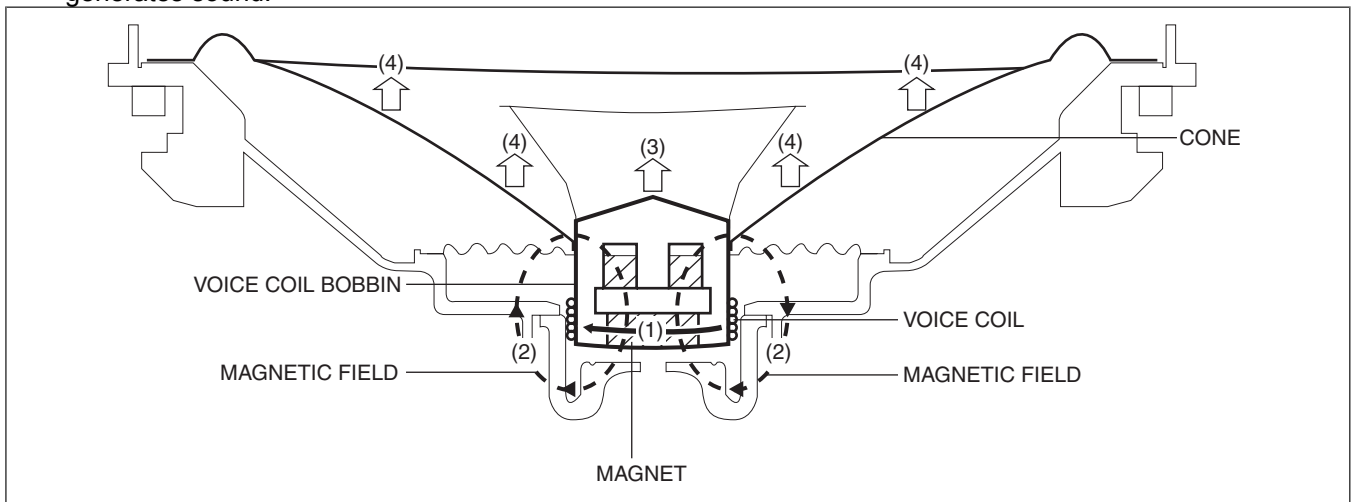


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- Front door speaker/rear door speaker
  - Pulp for the cone material and a neodymium magnet have been adopted.
- Tweeter
  - Polyethylene naphthalene for the cone material and a strontium ferrite magnet have been adopted.

#### Operation

1. The speaker sends the audio signal (current) from the audio unit to the voice coil.
2. When the audio signal (current) is sent to the voice coil, the coil becomes magnetized and a magnetic field occurs. Because the voice coil and the magnet pull and repel each other in the magnetic field, the voice coil vibrates.
3. Because the voice coil is wrapped around the voice coil bobbin, the voice coil bobbin vibrates when the voice coil vibrates.
4. When the voice coil bobbin vibrates, the cone (diaphragm) installed to the voice coil bobbin vibrates and generates sound.



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#### Fail-safe

- Function not equipped.