

SPEAKER [WITHOUT Bose®]

id0920zz010341

Purpose

- Converts the audio signal from the tuner and amp unit (TAU) 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 door speaker	Tweeter
Max. input (W)	25	25	25
Rated impedance (ohm)	3.4 — 4.6	3.4 — 4.6	3.4 — 4.6
Size (cm {in})	16.5 {6.5}	16.5 {6.5}	3 {1}

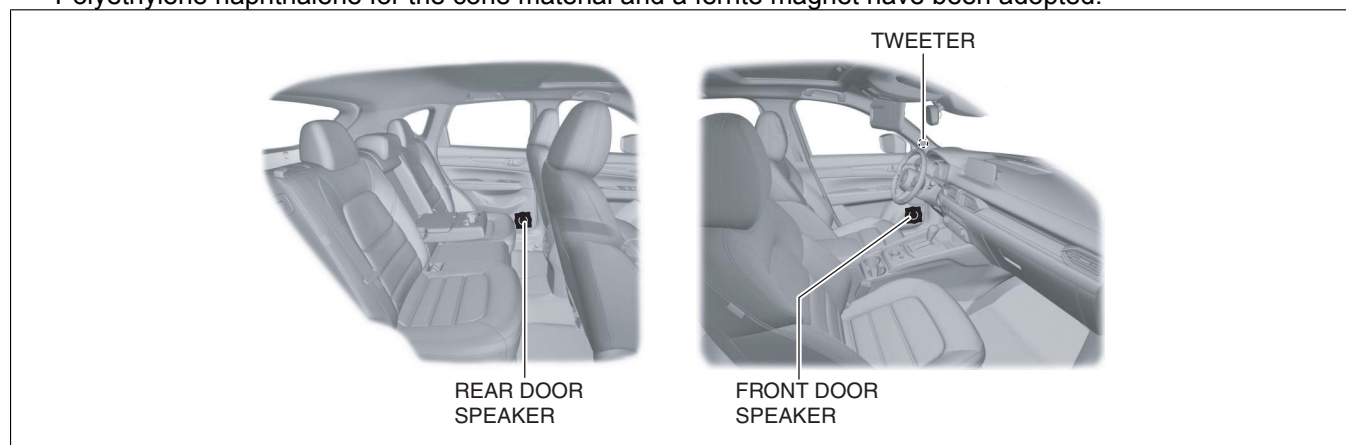
Structure/Construction

Front door speaker/rear door speaker

- A cone-shaped dynamic speaker has been adopted for each speaker.
- A weight reduction was realized by using pulp for the cone material and adopting a strontium barium ferrite magnet.

Tweeter

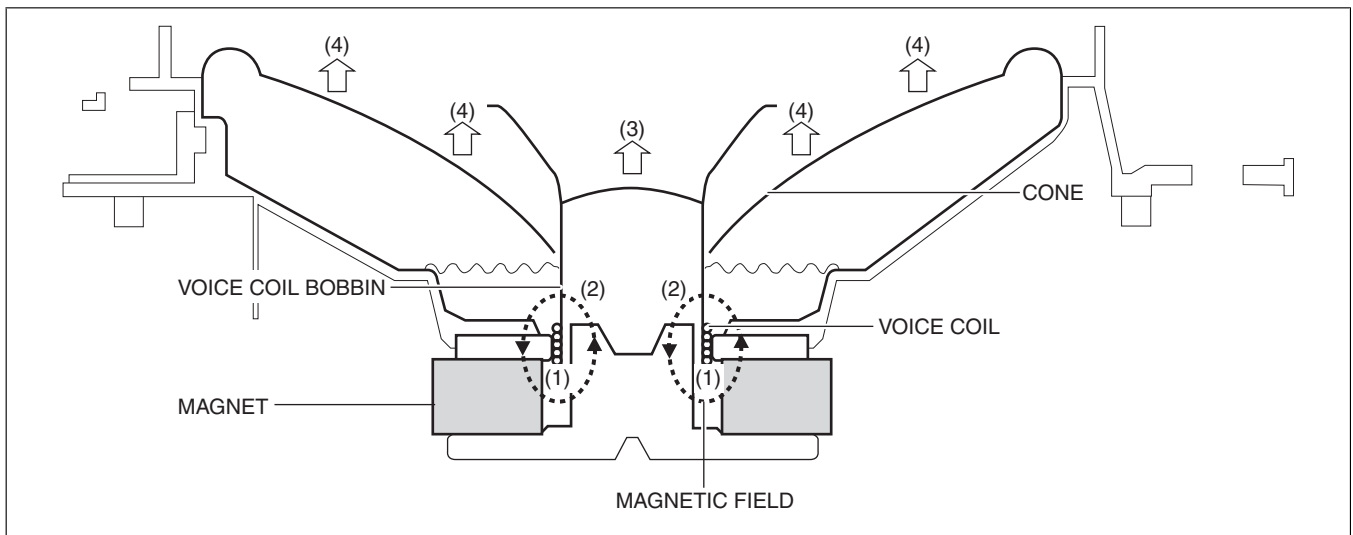
- A cone-shaped dynamic speaker has been adopted for each speaker.
- Polyethylene naphthalene for the cone material and a ferrite magnet have been adopted.



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Operation

- The speaker sends the audio signal (current) from the audio unit to the voice coil.
- 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.
- Because the voice coil is wrapped around the voice coil bobbin, the voice coil bobbin vibrates when the voice coil vibrates.
- 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

- Not applicable