

SPEAKER [WITH Bose®, WITH CENTER DISPLAY]

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Purpose

- Converts the audio signal from the tuner and amp unit (TAU) to sound.
- High quality sound is provided for the driver and passengers.

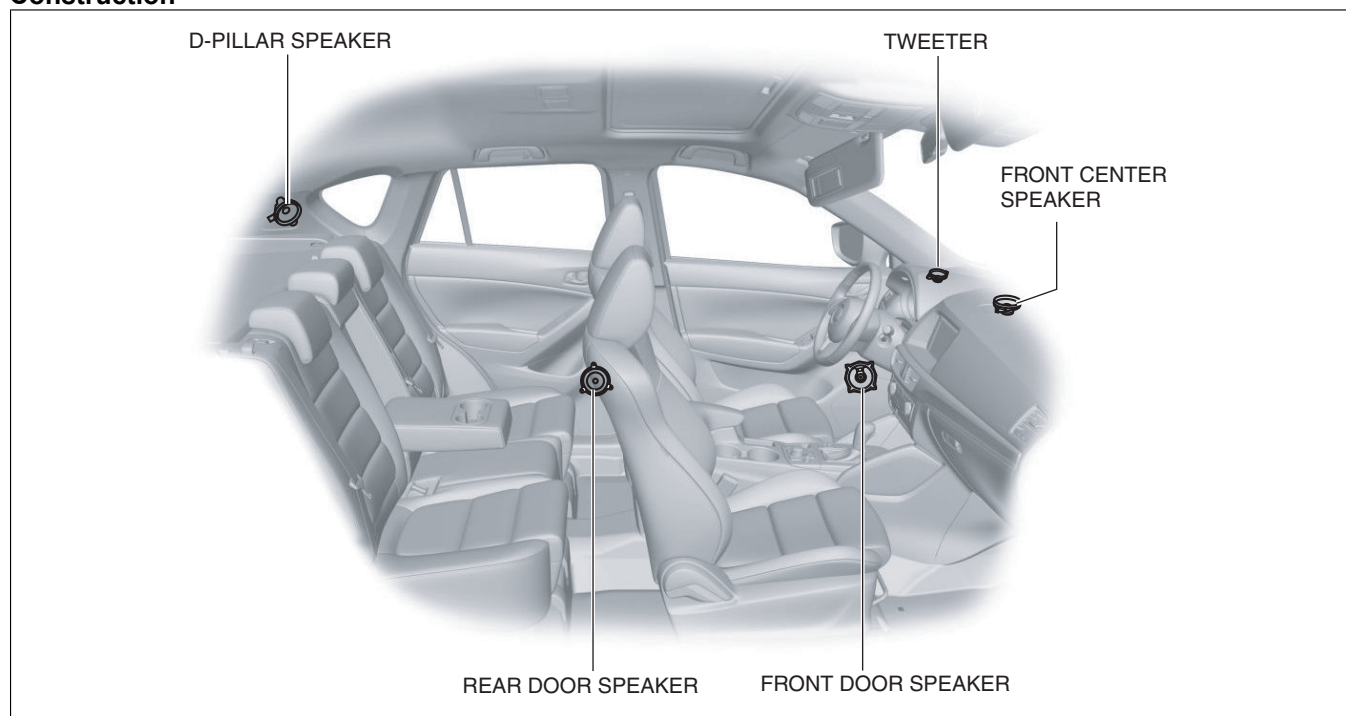
Function

- Full-range speakers, which can output wide-range sound from low to high frequency, have been adopted.
- A better sound effect and clear sound have been achieved by using tweeters (speaker for upper register sound range) which differ the range of the output sound and front door speaker (speaker for lower register sound range).

Specification

Item		Front door speaker	Rear door speaker	Tweeter	Front center speaker	D-pillar speaker
Rated impedance	(ohm)	1	3.7	3.6	3.6	3.6
Size	(cm {in})	23 {9.1}	13 {5.1}	6 {2}	8 {3}	6 {2}

Construction



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Front door speaker

- A cone-shaped dynamic speaker has been adopted for each speaker.
- A weight reduction was realized adopting pulp for the cone material and a neodymium magnet.

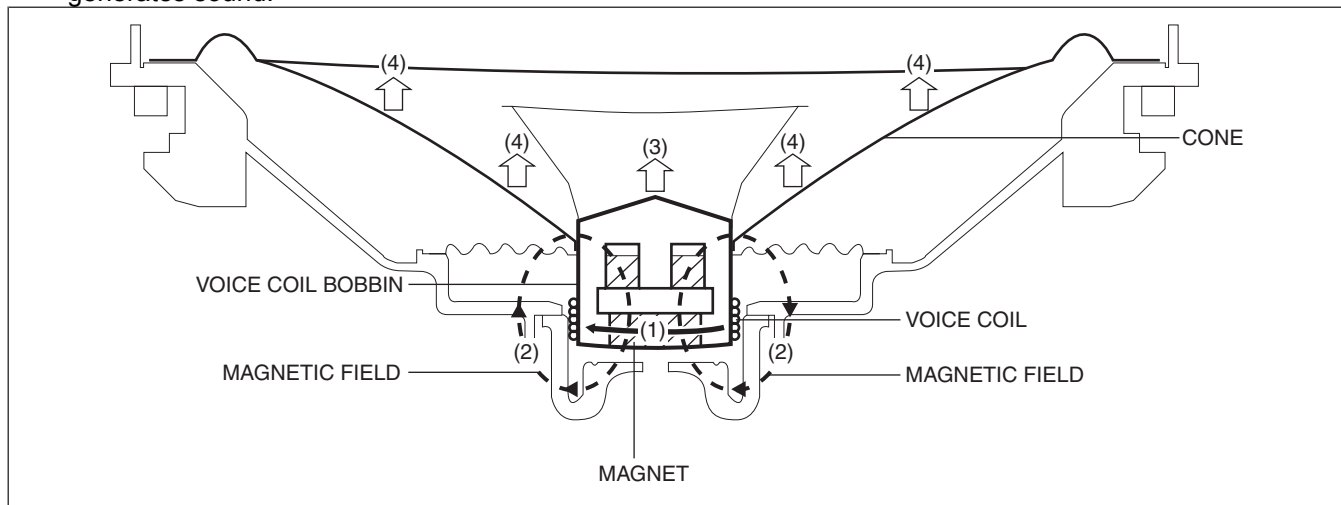
Front center speaker/tweeter/rear door speaker/D-pillar speaker

- A cone-shaped dynamic speaker has been adopted for each speaker.
- A weight reduction was realized adopting pulp for the cone material and a ferrite magnet.
- A better sound effect is achieved by the use of speakers which differ the range of the output sound.
 - Front door speaker (speaker for deep bass sound range)
 - Front center speaker (speaker for medium-to-high-sound range)
 - Tweeter (speaker for medium-to-high-sound range)
 - Rear door speaker (speaker for all sound ranges)
 - D-pillar speaker (speaker for medium-to-high-sound range)

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

- Not applicable