

SPEAKER [WITH Bose®]

id0920zz010340

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 high frequency range) which differ the range of the output sound and bass-box (speaker for low frequency range).

Specification

Item	Front door speaker	Rear door speaker	Front center speaker	Rear speaker	Tweeter	Bass-box
Rated impedance (ohm)	1	3.7	3.6	3.6	3.4	1.24
Size (cm {in})	23 {9.1}	13.4 {5.28}	8 {3}	6.5 {2.6}	2.5{1}	13 {5.25}

Structure/Construction

Front door speaker

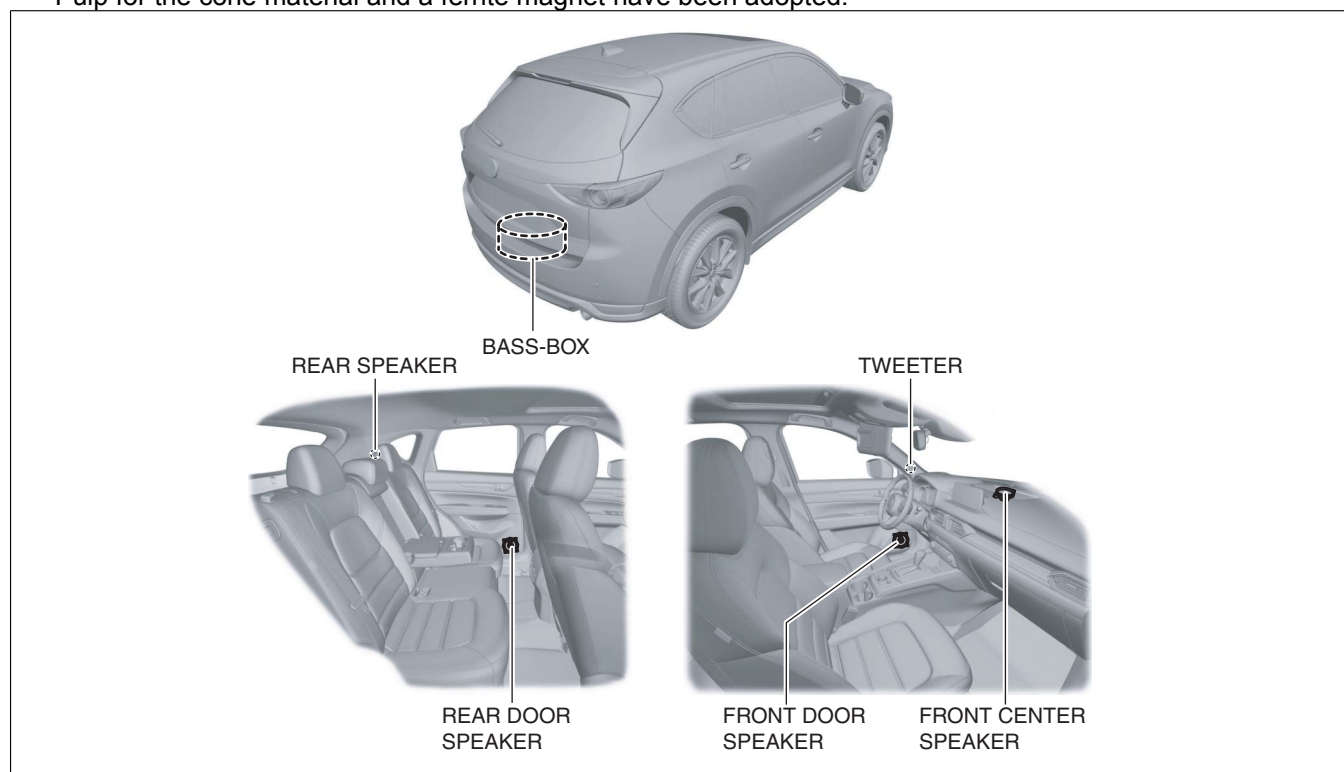
- A cone-shaped dynamic speaker has been adopted.
- Pulp for the cone material and a neodymium magnet have been adopted.

Tweeter

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

Rear door speaker/front center speaker/rear speaker/bass-box

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

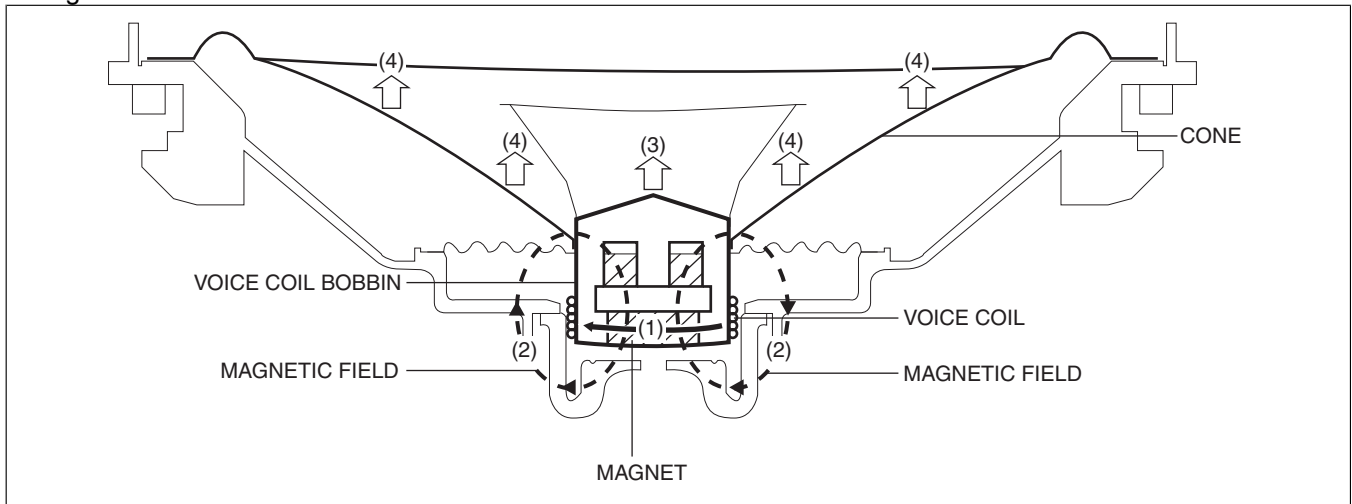


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- A better sound effect is achieved by the use of speakers which differ the range of the output sound.
 - Front door speaker (speaker for low frequency range)
 - Rear door speaker (speaker for all frequency ranges)
 - Front center speaker (speaker for medium-to-high-frequency range)
 - Rear speaker (speaker for medium-to-high-frequency range)
 - Tweeter (speaker for high frequency range)
 - Bass-box (speaker for low frequency 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