

AUDIO AMPLIFIER

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Purpose, Function

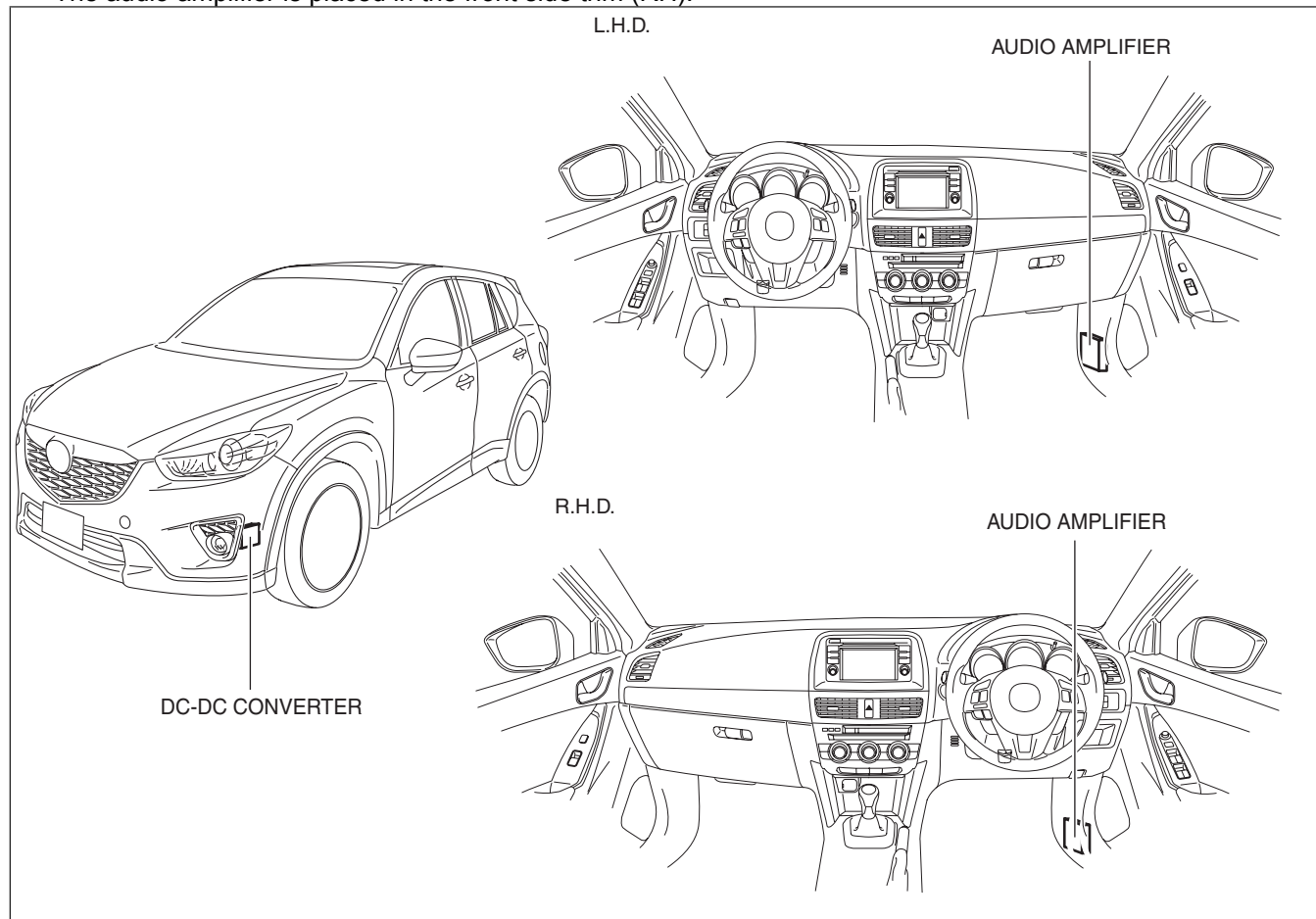
- The audio signal (analog voltage waveform) output from the unit equipped on the vehicle is converted into a digital pulse. The converted digital pulse signal is amplified and sent to the speakers.

Function

- When the audio amplifier receives a voltage increase request signal from the PCM, output current to the speakers is controlled at 10 A or less to assure input voltage to the DC-DC converter when the engine is re-started by the i-stop control. (With i-stop system)

Construction

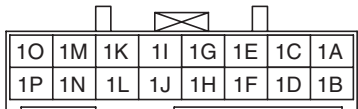
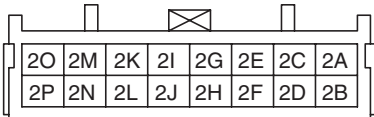
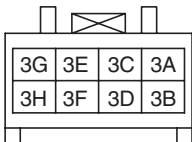
- The audio amplifier is placed in the front side trim (RH).



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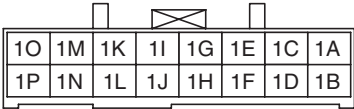
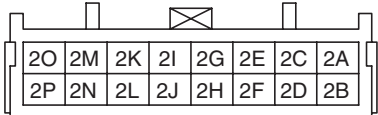
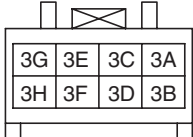
Terminal Layout and Signal

L.H.D.

Terminal	Signal
	1A —
	1B —
	1C —
	1D —
	1E Front door speaker input LH (-)
	1F Front door speaker input LH (+)
	1G Front door speaker input RH (-)
	1H Front door speaker input RH (+)
	1I Rear door speaker input LH (-)
	1J Rear door speaker input LH (+)
	1K Rear door speaker input RH (-)
	1L Rear door speaker input RH (+)
	1M —
	1N —
	1O AudioPilot®2 microphone (+)
	1P AudioPilot®2 microphone (-)
	2A D-pillar speaker (+)
	2B D-pillar speaker (-)
	2C Tweeter input RH (+)
	2D Body select
	2E Tweeter input RH(-)
	2F AMP control (SW B+)
	2G Tweeter input LH (-)
	2H Vehicle speed signal
	2I Tweeter input LH (+)
	2J AudioPilot®2
	2K Rear door speaker output RH (-)
	2L i-stop control*
	2M Rear door speaker output RH (+)
	2N —
	2O Rear door speaker output LH (+)
	2P Rear door speaker output LH (-)
	3A B+
	3B Ground
	3C Front door speaker output RH (+)
	3D Front door speaker output RH (-)
	3E Front door speaker output LH (-)
	3F Front door speaker output LH (-)
	3G Front door speaker (+)
	3H Front door speaker (-)

* : With i-stop system

R.H.D.

Terminal	Signal
	1A
	1B
	1C
	1D
	1E
	1F
	1G
	1H
	1I
	1J
	1K
	1L
	1M
	1N
	1O
	1P
	2A
	2B
	2C
	2D
	2E
	2F
	2G
	2H
	2I
	2J
	2K
	2L
	2M
	2N
	2O
	2P
	3A
	3B
	3C
	3D
	3E
	3F
	3G
	3H

Operation**Note**

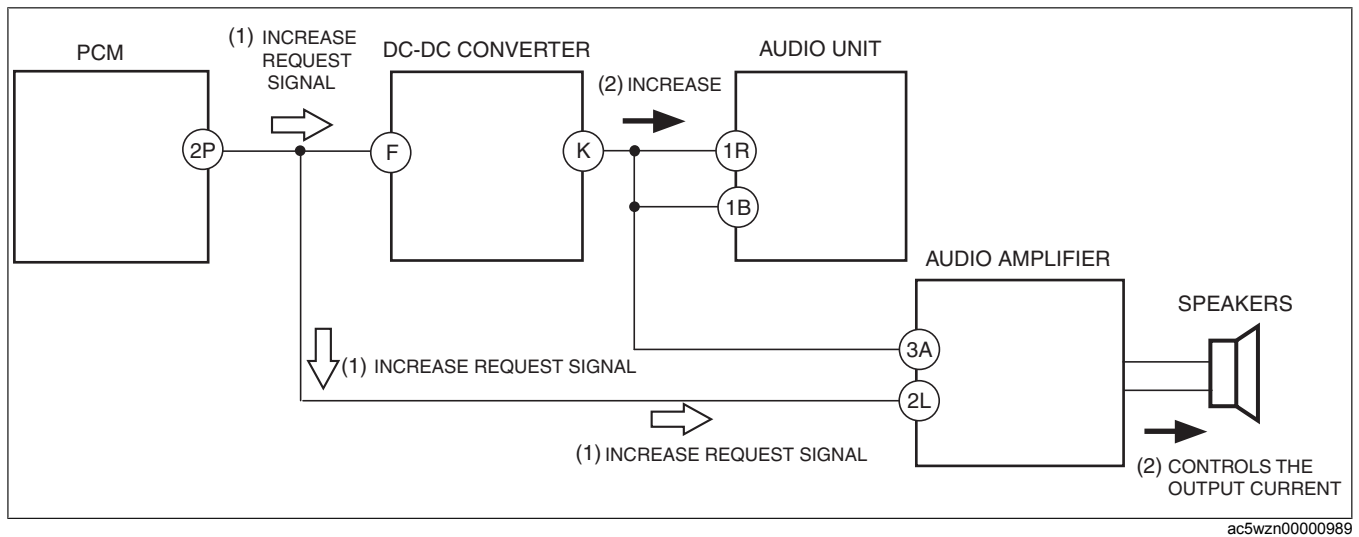
- For the audio amplifier operation, refer to the AUDIO SYSTEM.

Engine restart by i-stop (With i-stop system)

- The PCM sends a boost request signal to the DC-DC converter and audio amplifier when the engine is restarted by the i-stop control.
- The DC-DC converter increases the electric current voltage to the audio unit, and when the audio amplifier receives the increase request signal, it controls the output current to the speakers at 10 A or less.

Note

- If the audio amplifier performs current control when the audio volume is 50 or more, the audio volume may decrease for approx. 0.3 s.



Fail-safe

- Function not equipped.