THE BOSE® SOUND SYSTEM FOR THE BUICK ENCORE

SEVEN HIGH-PERFORMANCE SPEAKERS

1. Two 1-inch (25mm) tweeters, one in each A-pillar.
2. Two 6.5-inch (165mm) woofers, one in each front door.
3. Two 5.25-inch (130mm) wide-range speakers, one in each rear door.
4. One 5.25-inch (130mm) Richbass® woofer in an 8-liter custom-engineered enclosure under the load floor.

SYSTEM ELECTRONICS

5. A Bose® digital amplifier with 6 channels of custom equalization and digital signal processing mounted in the rear cargo area.

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Better sound through research

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The Buick Encore compact crossover is built to offer a high level of performance in a small package. The optional Bose® sound system does this as well, filling the cabin with rich, lifelike sound. To deliver this audio performance, Bose engineers used proprietary analytic tools and techniques to custom-design the system to match the acoustics inside the Encore cabin.

SYSTEM HIGHLIGHTS

BASS MANAGEMENT – Bass management uses a proprietary algorithm, customized specifically for the acoustics of the vehicle cabin, which helps deliver music with more of the power and emotion of a live performance.

MULTIPLE BASS SOURCES – Reproducing music that is full and rich is challenging, even in a large room. To deliver music with all its emotional power, multiple strategically-placed bass sources provide low-frequency sound more evenly and deliver heightened musical impact. Research data used with a detailed acoustic blueprint of this vehicle's cabin helps the engineering team determine proper speaker type and placement. The result is more even low-frequency sound and music that has impact without overwhelming listeners.

RICHBASS® WOOFER – Innovative design allows the Richbass woofer to be just 5.25 inches (130mm) in diameter, while still delivering the performance of a larger speaker. In addition, the Richbass woofer is housed in an enclosure engineered to work acoustically with the Bose sound system in the vehicle. The enclosure can also be designed to fit in a specific part of the vehicle such as under seats, in spare-tire wells and inside center consoles, giving system and vehicle designers more placement options and giving vehicle owners the performance they want without sacrificing cabin or cargo space.

BOSE SYSTEM DESIGN PHILOSOPHY – Every vehicle model is different, and each has its own unique acoustic signature. Whether it's a sedan, a convertible or an SUV, the shape, size and materials of the cabin interior affect the sound quality differently. Just as every vehicle model is different, so too is each Bose® sound system.

The Bose approach is based on the philosophy that superior sound quality should be designed in from the start. More than 45 years of Bose research and experience have produced a deep understanding of acoustics, and how they can enhance – or detract from – the music.

CLEAN SHEET APPROACH – The Clean Sheet Approach requires Bose engineers to work with vehicle designers from the earliest stages of development. Instead of simply adding components after the vehicle is designed, Bose employs this scientific process of discovery. Using both in-vehicle measurements and mathematical models, proprietary design and analysis tools are used to assess the acoustic environment of the cabin as a whole. Nearly every decision about the sound system is based on this information, from speaker type and location, to signal processing and equalization.

PROPRIETARY BOSE® DIGITAL SIGNAL PROCESSING – To raise system performance to an even higher standard, Bose engineers use proprietary digital signal processing and multiple channels of custom equalization to help tune the sound specifically for this vehicle.

As a result, the system reproduces music with clear, lifelike sound and natural timbre. The sound at each speaker is smooth and realistic. Music sounds full and detailed, speech sounds natural, and the system can approach live performance levels without sounding distorted.

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