

Bosch introduces comfort stop feature in the U.S. to make coming to a complete stop more comfortable

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New software-driven feature reduces head-bob, making stops smoother for passengers.

- ▶ The new comfort stop feature from Bosch is designed to address smoother braking to a standstill for a better driving experience.
- ▶ The comfort stop feature is supported across Bosch decoupled braking systems
- ▶ The comfort stop feature is built on the Bosch motion software stack, a platform that bridges physical components with intelligent motion control systems.

Farmington Hills, Mich. – Nothing ruins a ride faster than a sudden jolt at a stoplight. That-jerk forward, the “head-bob” that can make passengers queasy, is a common complaint in everyday commuting. In fact, one-third of Americans report motion-related discomfort as passengers (according to the National Institute of Health); it’s a problem many drivers don’t even realize they’re creating.

The new Bosch comfort stop feature aims to address this issue. By using intelligent software to gently manage the last portion before a vehicle comes to a complete standstill, the comfort stop feature delivers braking that feels more like a chauffeured ride than a jerky commute. Resulting in possible decrease in motion sickness and fatigue, and a calmer drive experience. As vehicles become increasingly electrified and automated, this kind of seamless stopping is more than a comfort feature, it unlocks the many opportunities of software-driven mobility.

Software at the Wheel End

At the heart of the comfort stop feature is intelligent software. By coordinating signals from braking systems, drivetrain controls and vehicle dynamics software, comfort stop feature is designed to precisely manage the final moments at the

end of stop. This software-driven approach allows automakers to integrate the comfort stop feature across powertrains, vehicle classes and segments.

How It Works

The comfort stop feature is supported across Bosch decoupled braking architectures. Drivers maintain steady pressure on the brake, while the system subtly manages the final moments of bringing the vehicle to standstill.

The comfort stop feature offers two technical solutions: one using a conventional friction brake system and the other harnessing electric motors in battery-electric vehicles.

Benefits of each variant may include:

- Achieving up to a 70%–90% reduction in end-of-stop jerk compared to conventional braking (numbers are based on a comparison with the deactivated state of the function in the same vehicle and driving maneuver)
- Increased passenger comfort, especially in stop-and-go traffic
- A smoother overall experience during commutes and daily driving

Passengers Notice a Difference

To validate these results, Bosch invited 65 consumers, from backseat passengers to seasoned drivers, to experience the comfort stop feature firsthand. Participants in the user experience study said the smoother braking made stopping noticeably more comfortable, further supporting that the comfort stop feature delivers a better in-car experience as Bosch brings this feature to the U.S. market.

- “I have severe motion sickness, and this would really help me!” – adult driver
- “You don’t have to feel the pressure of the seatbelt which gives me confidence.” – adult driver
- “It’s like landing on a cloud.” – adult driver
- “Awesome with an exclamation point!” – child passenger

Built for the Future of Mobility

The comfort stop feature is built on the Bosch Vehicle Motion Management software stack, a next-generation platform that bridges physical components with intelligent motion control systems. This architecture enables automakers to add features such as smoother braking or more responsive steering through software, including over-the-air updates.

“The comfort stop feature helps redefine what it means to bring a vehicle to a complete standstill,” said Christian Sperrle, Director of product management for Vehicle Motion, Bosch Mobility Americas. “By smoothing the final phase of braking through advanced software coordination, we’re helping to enhance ride quality, deliver greater comfort, and set a new benchmark for driver and passenger experiences.”

In electric vehicles, the comfort stop feature coordinates with regenerative braking to maximize energy recovery while maintaining a comfortable stop. For automated driving, bringing a vehicle smoothly and predictably to a standstill is an important factor in building user trust and acceptance.

The comfort stop feature is one part of the larger Bosch Vehicle Motion Management ecosystem. This software-defined approach enables automakers to scale advanced motion control across vehicle classes, from passenger cars to light commercial vehicles and autonomous fleets.

For more information on Bosch mobility [visit the website here](#).

Press photos and infocharts are available on the Bosch Media Service at us.bosch-press.com.

Contact:

Megan Bonelli
Megan.bonelli@us.bosch.com
947-281-7062

About Bosch

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The Bosch Group is a leading global supplier of technology and services. It employs roughly 418,000 associates worldwide (as of December 31, 2024). The company generated sales of 90.3 billion euros (\$97.7 billion USD) in 2024. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. With its business activities, the company aims to use technology to help shape universal trends such as automation, electrification, digitalization, connectivity, and an orientation to sustainability. In this context, Bosch’s broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in sensor technology, software, and services to offer customers cross-domain solutions from a single source. It also applies its expertise in connectivity and artificial intelligence in order to develop and manufacture user-friendly, sustainable products. With technology that is “Invented for life,” Bosch wants to help improve quality of life and conserve natural resources. The Bosch Group comprises Robert Bosch GmbH and its roughly 490 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch’s global manufacturing, engineering, and sales network covers nearly every country in the world. Bosch’s innovative

strength is key to the company's further development. At 136 locations across the globe, Bosch employs some 87,000 associates in research and development. The company was set up in Stuttgart in 1886 by Robert Bosch (1861–1942) as "Workshop for Precision Mechanics and Electrical Engineering." The special ownership structure of Robert Bosch GmbH guarantees the entrepreneurial freedom of the Bosch Group, making it possible for the company to plan over the long term and to undertake significant upfront investments in the safeguarding of its future. Ninety-four percent of the share capital of Robert Bosch GmbH is held by Robert Bosch Stiftung GmbH, a limited liability company with a charitable purpose. The remaining shares are held by Robert Bosch GmbH and by a company owned by the Bosch family. The majority of voting rights are held by Robert Bosch Industrietreuhand KG. It is entrusted with the task of safeguarding the company's long-term existence and in particular its financial independence – in line with the mission handed down in the will of the company's founder, Robert Bosch.

Additional information is available online at www.bosch.com, www.bosch-press.com.

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