

OnGuard™

Collision Safety Systems



**Getting you home safely.
That's why we've developed OnGuard.™**

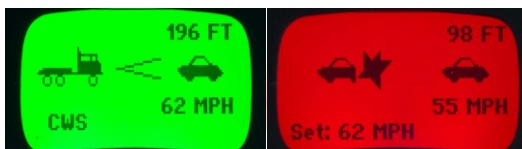
OnGuard is the first Collision Safety System with Active Braking that maintains a safe following distance and helps avoid rear-end collisions by braking as needed.

With OnGuard, drivers can prevent or greatly reduce the impact of a rear-end collision.

OnGuard uses forward-looking radar sensor technology featuring advanced algorithms to monitor the distance to the vehicle ahead.



When OnGuard detects that a potential collision is developing, it sends audible and visual warnings through an in-cab dash display so the driver is alerted to take the appropriate corrective action.



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Active Braking makes the difference.

If a potential rear-end collision is developing without the driver taking action to decelerate the vehicle, OnGuard's Active Braking automatically de-throttles the engine, applies the engine and foundation brakes to provide up to .25Gs of braking power.

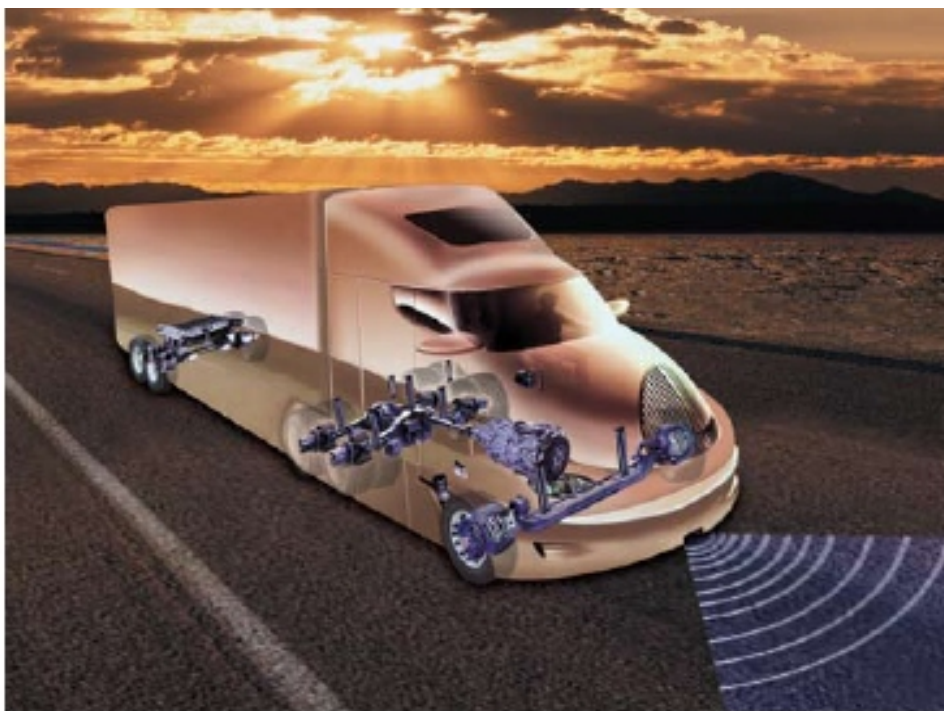
Active Braking can energize brakes prior to driver demand – when unsafe distances are detected – reducing the time to achieve proper braking pressure. This reaction time reduction can help the driver to either prevent a collision or greatly reduce its impact. 90% of rear-end accidents caused by delay in driver recognition can be prevented – if the driver is able to recognize the situation one second earlier.*

In adaptive cruise control mode, OnGuard automatically attempts to maintain a safe distance behind the vehicle ahead, accelerating or decelerating as needed.

**OnGuard is so smart, it sees around curves.
And eliminates false alerts.**

OnGuard radar sensor technology uses an internal gyro to detect a curve approaching and adjusts the radar beam as necessary to see objects around the bend. With Meritor WABCO's smart algorithms, engineers have been able to nearly eliminate false alerts and unnecessary speed changes. With OnGuard, drivers only get warned when they need to.





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With OnGuard, the driver is always in control.

The driver can override the Active Braking system at any time by simply taking the appropriate braking action.

The OnGuard system operates in two distinct modes: Adaptive Cruise Control (ACC) with Active Braking or full collision mitigation mode. In ACC mode, the system can be switched on or off by the driver. In collision mitigation mode, the system has all the features of ACC with Active Braking but cannot be switched off by the driver – the system is always on.

OnGuard is fully integrated with Meritor WABCO's Stability Control Systems and anti-lock braking system (ABS) ECU.

No matter how effective any system may be, no system can prevent loss of control, rollover or collision in all driving conditions. It remains the responsibility of the driver to ensure that the physical limits of the vehicle are not exceeded and to follow safe driving procedures.

More protection from the complete system.

OnGuard is part of the Meritor WABCO family of Collision Safety System products.

The system is fully integrated with Meritor WABCO anti-lock braking and Stability Control Systems Electronic Control Unit (ECU). It works in conjunction with the company's Electronic Stability Control (ESC), Roll Stability Control (RSC) and Automatic Traction Control (ATC). The result is a comprehensive protection package for your driver. Your commercial vehicle. Your fleet. And the public.

MERITOR WABCO

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*Source: National Highway Traffic Safety Administration (NHTSA)