



**Bendix® Wingman® Advanced™**

A Collision Mitigation Technology



Bendix



**A powerful  
combination  
of collision  
mitigation and  
full stability  
technologies**



# Bendix® Wingman® Advanced™



## The Key is Active Braking

The Bendix® Wingman® Advanced™ system is the latest innovation for commercial vehicles from the industry leader in active braking technologies – Bendix Commercial Vehicle Systems. Bendix Wingman Advanced brings together adaptive cruise control with braking features along with collision mitigation technology, and our full-stability technology – Bendix® ESP® – providing your fleet with a system that can help. Your fleet benefits from a potent combination of active safety technologies that can help your drivers in collisions, roll-overs, and loss-of-control situations. In addition, the system can provide data, to help keep you in the know about what's happening out on the road.

### Helping your drivers on the highway

According to the National Highway Traffic Safety Administration (NHTSA), on average 2-3 rear-end collisions involving heavy trucks occur somewhere in the U.S. every hour. When the distance between your driver's truck and the vehicle they're following starts to close, Bendix Wingman Advanced provides the driver following distance alerts and, if necessary, will apply the brakes to help the driver potentially avoid the collision, or help reduce its severity.

Unique to Bendix Wingman Advanced are stationary object alerts. These alerts give the driver a warning (up to 3.0 seconds) of a metallic object, such as a stalled car, blocking the lane of travel.

### Providing information you can use

Performance on the road is important, but you also need actionable information to know what's happening out there. The Bendix Wingman Advanced system can deliver important data your fleet can use, such as following distance information, alerts given, and stability events. Knowing about close calls and other insights from the road can help you assess and update your driver training needs and support fleet operations.

### Making a positive contribution to your bottom line

It's all about getting a quick return on your safety investment. The Bendix Wingman Advanced system helps your fleet in two significant ways. First, by helping drivers potentially avoid rear-end collisions or, at least, help reduce their severity, your fleet may see fewer accidents and less accident-related costs. Second, the system can help your drivers stay in cruise control longer, which – depending on your fleet operations – can result in significant fuel savings.



Bendix® Wingman® Advanced™  
 Bendix® Wingman® ACB  
 Bendix® VORAD® SmartCruise®

## Bendix® system comparison

When compared to our other forward collision mitigation technologies, you can see why we call it “Advanced”.

### Feature

#### Alerts (are always available whether cruise control is engaged or not)

- Following Distance Alerts - audible and visual alerts which let driver know when getting too close to forward vehicle ■ ■ ■
- Impact Alerts – audible and visual alerts warning the driver that a collision with the forward vehicle is likely and that they should address the situation immediately ■ ■ ■
- Stationary Object Alerts - audible and visual alerts that provide the driver up to a 3.0 second alert when a metallic object(s) may be blocking lane of travel ■ ■ ■

#### Adaptive Cruise Control with Braking (functions when cruise control is on and speed is set)

- Reduces throttle to help the driver maintain a set following distance behind a forward vehicle ■ ■ ■
- Engages engine retarder to help the driver maintain a set following distance behind a forward vehicle ■ ■ ■
- Applies foundation brakes to help the driver maintain a set following distance behind a forward vehicle ■ ■

#### Electronic Stability System

- Bendix® ESP® full stability system to help drivers mitigate rollovers and loss-of-control situations on wet and dry roadways ■ ■

#### Collision Mitigation (functions whether or not cruise control is on and speed is set)

- Provides audible and visual alerts to the driver and applies the brakes when the system determines a collision with forward vehicle is imminent ■

■ ■ ■ Denotes system feature



**Simply put, Bendix Wingman Advanced delivers the most active safety technology available today!**

## The Bendix Wingman Advanced system doesn't replace the need for safe drivers

*No commercial vehicle safety technology replaces the most important safety components of all – a skilled, alert professional driver exercising safe driving habits, as well as continuous, comprehensive driver training.*

# The Key is Active Braking



## Does your collision mitigation system do this?

*The Bendix® Wingman® Advanced™ system:*

### **Provides more control on slick surfaces;**

Apply the brakes automatically on an icy roadway and the risk of losing control increases. Bendix Wingman Advanced is built on the Bendix® ESP® full stability system. Full stability does more than roll-only systems to help keep trucks under control when brakes are automatically applied on slick surfaces.

### **Delivers more braking power when your drivers need it;**

Roll-only systems typically do not apply steer axle brakes – full stability systems do. Bendix Wingman Advanced delivers up to 2/3 (67%) of vehicle braking power. Competitive systems don't deliver as much. By building on a full-stability platform, all brakes – steer, drive, and trailer – are available and can be controlled as necessary to provide maximum braking power and a more even braking distribution.

### **Less wear and tear on your brakes which equals lower maintenance costs, less vehicle downtime;**

The adaptive cruise control with braking feature of Bendix Wingman Advanced helps your drivers keep a set following distance by reducing throttle, engaging the engine retarder or, if necessary, applying the brakes. This progressive approach means brakes only get used when they're really needed resulting in less brake wear and more savings.

### **Delivers "Always Available" driver alerts;**

As following distance closes, drivers receive unique visual and audible warnings to aid their response. Fewer false warnings means drivers react when the system alerts.

### **Alerts drivers to stationary road hazards;**

Stationary object alert can provide drivers with an extra warning about metallic objects such as standing vehicles blocking their lane of travel day or night, rain or shine, fog or snow.

### **Provides useful information; and**

Delivers valuable data about following distance, alerts, and stability interventions that you can use to help target driver training needs.

### **Can deliver a quick ROI.**

Potentially avoiding a collision or reducing the severity of just one crash can add up to substantial savings from accident and other related costs. And, the increased use of cruise control can contribute to overall fuel savings for your fleet.

**For complete details about the Bendix® Wingman® Advanced™ system, contact your Bendix Account Manager, call 1-800-AIR-BRAKE (1-800-247-2725), or visit [www.bendix.com](http://www.bendix.com) today.**

### **Bendix® ESP® stability for added protection and performance**

Bendix ESP, with over 100,000 systems delivered, is an integral part of the Bendix Wingman Advanced system, helping your drivers mitigate roll-over and loss-of-control situations on dry, wet, snow and ice-covered pavement. Plus, Bendix ESP helps Bendix Wingman Advanced use more brakes on the vehicle to deliver more braking power and better balanced brake applications.

