

## BENDIX® TABS-6 ADVANCED

### BENDIX® TABS-6 ADVANCED ROLL STABILITY SYSTEM FOR TRAILERS – TRAILER STABILITY MADE SIMPLE

Bendix® TABS-6 Advanced roll stability system provides trailers with core antilock braking, along with a trailer roll stability system in one efficient package that's simple to install and simple to maintain. It's the first single-channel, tank-mountable trailer roll stability system available.

#### Advanced performance in a simple package

It's a fact... rollovers are an issue that can impact every North American fleet. They are expensive – not only in terms of safety and property impacted – but also in downtime, productivity, customer satisfaction and fleet reputation. While multiple trailer-based solutions exist, the simplest solution is the best one ... the Bendix® TABS-6 Advanced stability system.

This dynamic system will intervene automatically when detecting conditions that may lead to a trailer rollover – typically even before the driver realizes an intervention is needed. The system provides quick and reliable stability performance while simplifying installation and maintenance.

#### Improving safety improves the bottom line

Most people don't think of a safety system as contributing to the bottom line. However, when you consider the costs of accident related vehicle damage, downtime, clean-up, etc...it's easy to see how it does. Every dollar saved through incident reduction goes directly to the bottom line – a \$100,000 accident means a fleet operating on a 5% margin has to grow revenue by \$2 million to cover the lost profit. Simply preventing one accident can often cover the cost of installing TABS-6 Advanced on every trailer in a large fleet.

#### For maximum stability – combine Bendix® ESP® on the tractor with TABS-6 Advanced on the trailer

Bendix testing shows that a fleet gets the maximum amount of stability protection available by having Bendix® ESP® on the tractor and the Bendix TABS-6 Advanced on the trailer. Why? Because the systems work to complement each other, covering a wider variety of potential rollover scenarios and applying more braking power. By having Bendix stability systems on both the tractors and trailers, a fleet's stability margin can increase over either system alone.

#### How It Works...

The Bendix® TABS-6 Advanced trailer stability system continuously monitors a variety of trailer parameters using sensors to determine if the trailer is reaching a critical stability threshold. When such a situation develops, the system will quickly and automatically intervene to assist the driver by applying the trailer brakes to mitigate a potential rollover.



Utility 3000R undergoing testing

#### Designed for robust performance, flexibility and easy maintenance

The key system components – the modulator, the lateral acceleration sensor and the ECU – are efficiently housed in an environmentally-protected central modular unit. Only the wheel speed sensors are external – keeping wire and hose connections to a minimum. A locking connector cover that provides a second line of defense against water and road grime, helps deter tampering, ensuring the system is available when rollover intervention is required.

The Bendix TABS-6 Advanced roll stability system functionality is compatible with various electrical systems – from 8 volt to 32 volt ranges – without the need for a power converter. And custom applications, such as automatic trailer axle air-suspension control, are also available.

Maintenance for the system is no more than what is required for a standard trailer ABS system. Components are replacement only, which means no need for repairs. Diagnostics are simple, using PLC communication with Bendix® ACom® ABS diagnostic software and our exclusive Bendix® Trailer Remote Diagnostic Unit (TRDU™).

#### Adding stability to your fleet is an easy retrofit!

Our system can be easily retrofitted to a fleet's existing trailers with ABS, and added to trailers without ABS. By upgrading their trailers with the TABS-6 Advanced roll stability system, fleets not only get the benefit of ABS, but the added functionality of a roll-stability system. For any fleet, adding trailer stability delivers an additional measure of safety in their operations.



## BENDIX® TABS-6 ADVANCED

### Data fleets can use from the exclusive Bendix Trailer Control Unit (TCU)

Fleets need information from their on-vehicle systems to clarify diagnostics, maintenance schedules, and trailer usage. The optional Bendix® Trailer Control Unit (TCU™) provides this, plus additional data, in an easy-to-use, menu-driven unit mounted directly to the trailer:

The Bendix® TCU™ collects and stores information such as mileage, trip distance, service intervals, brake system diagnostics, and stability events. It will even read the pressure in the trailer air suspension bags and display this data as trailer axle weight, eliminating the need for other

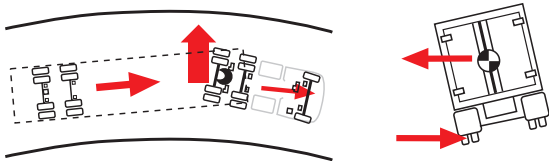
on-board scale systems. Data is displayed right on the unit and can also be downloaded via a PC using Bendix ACom diagnostic software (version 6.0 or later) when the trailer is back at the terminal. Auxiliary pins provide features such as dome lamp control and auxiliary warning lamps.

### Good drivers and good driving practices are still key

No stability system eliminates the need for good drivers, good driving practices or good driver training. A stability system is designed to complement these safe practices, providing additional driver support when unforeseen circumstances arise.

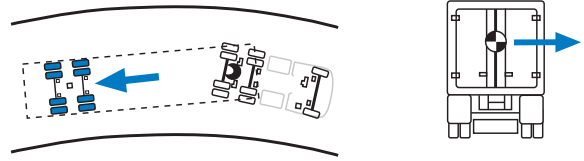
#### Driving Scenario:

A vehicle enters a curve too fast, on a high friction pavement, resulting in high lateral (side) forces acting at the trailer's center of gravity (CG). The high friction between the wheels and the pavement create a "hinge" effect allowing the forces at the CG to push the vehicle over.



#### How the Bendix® TABS-6 Advanced trailer stability system responds:

The Bendix® TABS-6 Advanced functionality applies pressure to the trailer brakes to reduce vehicle speed and mitigate the tendency of the vehicle to roll over.



### Applications

Designed for trailers and dollies requiring single channel ABS. Application is for 2S/1M (2 wheel speed sensors/1 modulator). Works with all trailer types – from flatbed and tankers, to vans and bulk haulers.

Features	Benefits
Innovative, single channel approach	Same as most popular trailer ABS
Compact, inclusive design	Quick and easy tank, frame rail, or cross member installation <ul style="list-style-type: none"> <li>• Minimizes connections and hoses</li> <li>• Simplifies inspection and maintenance</li> </ul>
No external power converter	Works on systems ranging from 8 volt to 32 volt
Retrofit capabilities	Easy to add roll-stability to existing ABS trailers <ul style="list-style-type: none"> <li>• Can be retrofit to non-ABS trailers</li> </ul>
Cost	Competitive price enables almost any fleet to add roll-stability
Rollover mitigation	Can help fleets reduce rollovers, improve safety <ul style="list-style-type: none"> <li>• Potentially reduce accident related costs</li> </ul>



TABS-6 Advanced



Trailer Control Unit (TCU™)

### Simple, Flexible, Smart.

The Bendix® TABS-6 Advanced roll stability system makes trailer roll stability simple. For all the details, talk to your Bendix Account Manager, call 1-800-AIR-BRAKE (1-800-247-2725) or visit [www.bendix.com](http://www.bendix.com) today.

