

# Making it easy for you.

## Electronic Stability Control & Collision Mitigation



### Technicians

- Service of Electronic Stability Control (ESC) and Collision Mitigation equipped buses is nearly identical to your current practices. You may continue to use the latest version of Bendix ACom for diagnostic repair.
- **What special maintenance does the Bendix ESC system require?**
  - There are two areas that may require special attention. Bendix ACom will provide detailed information:
    - Front End Alignment – The steering angle sensor must be recalibrated to zero upon completion of front end alignment using ACOM
    - Yaw Rate Sensor – If removed or replaced, special precautions must be taken
- **What sensors are unique to Bendix ESC equipped buses? What are they for?**
  - Brake Pressure Sensor – Measures the operator's braking demand
  - Steering Angle Sensor – Senses the operator's steering demand and direction.
  - Yaw Rate Sensor – Senses the rotation of the vehicle.
  - Lateral Acceleration Sensor – Senses the side or lateral forces acting on the vehicle.
- **How will I know if there is a fault in the system?**
  - Depending on the nature of the failure, the operator may see an ABS, traction control, Malfunction Indicator Lamp (MIL), or any combination of the above. The dash mounted interface on Wingman Advanced and Wingman Fusion may also notify the operator of a system error.
- **Is the Bendix system available across all brake option types?**
  - Yes, the Bendix systems are compatible with air disc and air drum braking systems.
- **Is the Bendix system available with both Eaton and Allison transmissions?**
  - Yes, the system will function with any currently available Eaton or Allison Transmission.
- **Can the bus still be equipped with a grill mounted winter front cover?**
  - Yes; however, the radar must not be blocked by the winter front cover.
- **Can the Wingman Fusion camera be relocated?**
  - No, Bendix and IC Bus specify the camera location and calibrate accordingly.
- **Does this change how DOT inspections are performed?**
  - No. The Bendix systems much like the vehicle computer will recognize any faults in the system and display warning accordingly. Therefore, no testing of these systems is required at the time of DOT inspection. These systems are DOT approved.

No school bus safety technology replaces the most important safety component of all – a skilled, alert professional driver exercising safe driving habits, as well as continuous, comprehensive driver training. Responsibility for the safe operation of the vehicle remains with the driver at all times.

Under no circumstances should any individual willfully conduct testing or attempt to demonstrate the capabilities of units equipped with an Electronic Stability Control or Collision Mitigation system. Purposeful testing and/or demonstration of these systems can put the operator, passengers, participants, pedestrians, and other motorists at risk of serious injury or death.