

4Front[®] Frontal Crash Airbag Protection by IMMI[®]

4Front Frontal Crash Airbag

Large surface area when deployed to protect head and neck

IMMI Steering Wheel with Integrated Airbag

Sensor

Triggers airbag



School Bus Specification - 4Front Airbag

FRONTAL CRASH PROTECTION SYSTEM

Bus shall be equipped with a frontal crash protection system designed and qualified by the manufacturer or a 3rd party testing facility to protect the driver in the event of a frontal crash. The system shall include the following:

- a. A driver side airbag mounted in the steering wheel and designed to protect the head and torso of the driver, when used in combination with the required 3-point seat belt.
- b. A supplemental restraint system (SRS) sensor shall be provided. The sensor shall activate all pyrotechnic devices when a frontal crash severe enough to warrant firing the airbag occurs. The SRS sensor shall perform real time diagnostics of all critical subsystems and shall record inputs immediately before and during a frontal crash event. An indicator lamp shall be visible on the vehicle's instrument panel allowing the driver to monitor the operational status of the SRS system
- c. An SRS label shall be provided in the driver's area (location to be approved by the state) to indicate the bus is equipped with an airbag system as part of the broader safety system on the vehicle. Label shall be phosphorescent for visibility in low light conditions inside the vehicle.

What's Going on Inside

The 4Front steering wheel airbag is specifically designed for commercial vehicles. While passenger car airbags deploy primarily in a horizontal trajectory toward the driver, the 4Front airbag deploys vertically (toward the vehicle's roof) while expanding outwardly at the same time. The reduced height-to-diameter ratio is designed to protect the driver's chest from the wheel rim while also affording head and neck protection.



Horn Pad: available with integrated IMMI 4Front airbag

Emblem: Custom logos available



Airbag Mounting System

Integrated Hub: available to fit any vehicle

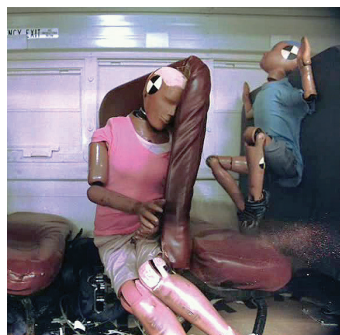
Testing



SafeGuard tests all of its school bus seating at The Center for Advanced Product Evaluation (CAPE®) - the only crash test facility of its kind in the world.

CAPE is equipped to handle the school bus testing of all shapes and size with the largest barrier block in the world as well as a 90 degree rollover machine designed for large commercial vehicles.

CAPE tests the most common standards: FMVSS 210, 222, and 225.



Unbelted passengers in a crash demonstration

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IMMI and SafeGuard remind you to always buckle up.

SafeGuard 

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