



There's been a lot of talk about safety in the industry lately.
AEV has always done more than talk.

WE KNEW IT WAS TIME

To go beyond an acceleration simulator.
To go beyond deformable barrier or static load testing.

Time to do what the National Highway Traffic Safety Administration
and the Insurance Institute for Highway Safety do when they
validate the crashworthiness of a vehicle.

It was time for a real world, dynamic high-speed crash test.
Based on years of testing and experience, we knew our vehicle
was up to the challenge.

SEEING IS BELIEVING

Experience our high-speed, double-impact, industry-changing
crash test on our web site and see first-hand how AEV's
unrivaled commitment to safety continues to lead the industry
in performance, occupant protection and structural integrity.

View the crash test at: www.aev.com

Call for more information: 800.374.9749



AMERICAN EMERGENCY VEHICLES



A MEMBER OF THE HALCORE GROUP



Ambulance
Crashworthiness
Defined

Proven in crash tests to deliver lifesaving performance

At American Emergency Vehicles (AEV), "critical care" is what we do. It's the mission of the men and women who provide lifesaving response in our vehicles, and it's the spirit by which our master technicians, engineers and craftsmen build our superior quality products.

AEV AMBULANCES

Delivering the industry's unparalleled standards for occupant safety is critical to AEV. The handcrafted, customized care inside our manufacturing process means our ambulances deliver the performance and functionality our customers deserve, while providing the absolute best dependability and serviceability.

A CULTURE OF SAFETY

Safety runs deep at AEV. We are the only ambulance manufacturer that operates in a partnership with OSHA as a model safe work environment. AEV is an OSHA Star Company.

HISTORY OF TESTING

Stringent product testing is a vital component of the AEV design process. Independent testing laboratories have performed hundreds of different static and dynamic tests on all aspects of our vehicles.



DO NOT MERELY MEET FEDERAL SAFETY REGULATIONS... WE EXCEED THEM.

AT AEV, SAFETY IS NOT OPTIONAL

Although the assembly process is complex, our unwavering focus is simple; design and build an ambulance with unmatched structural integrity and occupant protection. This is a commitment to our customers that takes priority over the cost of manufacturing or ease of assembly. We use only top grade raw materials, the finest components and hardware, cabinets and compartments built and installed with meticulous attention toward strength and safety and engineered restraint systems for occupants and equipment. It's what you *can't* see on the surface that makes the real difference in AEV TraumaHawk vehicles.

REAL WORLD TESTING MEANS REAL WORLD SURVIVAL

CRASH TEST PROVEN

We believe that a crash simulation is not enough to effectively prove the crashworthiness and safety of a vehicle. Although expensive and revealing, an actual crash test was the best way to validate the structural integrity and occupant protection level of our ambulance in an actual collision.

We designed our crash test to reflect a common, and often deadly, risk faced by emergency vehicles; the threat of being hit broadside while driving through an intersection. We went beyond normal crash test protocol by exposing a new vehicle straight off the production line, to two back-to-back collisions instead of just one. Our tests were conducted by SAE Engineer members at a leading independent test facility used by the National Highway Transportation Safety Administration and automakers for their crash evaluation programs.

Since there are currently no federal standards for side impact testing of an ambulance, we reviewed the federal guidelines for side-impact crash testing of passenger cars, which requires an impact speed of 33 miles per hour. We did not feel that this 33 mile per hour speed would sufficiently recreate the potential risk of a severe ambulance intersection collision. So, we established our test speed at 42 miles per hour. This speed and energy generates about the same impact caused by dropping a full-sized sedan from a 6 story building. And, we were going to do it not just once, but twice.

After both violent impacts, it was clear that the structural integrity of our ambulance had done its job. Both passenger cars were destroyed, while the condition of the ambulance is more than impressive. Doors adjacent to the actual impact zone were unaffected and continued to function. Body structural members absorbed and dispelled the impact forces as predicted and designed. There was virtually no damage to the inside of the vehicle, and most importantly; the occupants remained securely belted in their seats.

TO US IT'S NOT JUST CRASH TESTING, IT'S ANOTHER STEP IN THE ONGOING VALIDATION OF THE AEV PRODUCT.



CRASHWORTHINESS TESTED. CRASHWORTHINESS CONFIRMED.



AMERICAN EMERGENCY VEHICLES

