



**Transpo Industries, Inc.** manufactures a variety of innovative products and materials designed for improving road safety and bridge preservation. The company's reputation as an expert in rehabilitation, preservation and safety has made Transpo a leading supplier since 1968.

[WWW.TRANSPO.COM](http://WWW.TRANSPO.COM)



## Break-Safe®

### OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORT SYSTEM

#### Saving Lives With Breakaway Support System

Transpo's Break-Safe® is a breakaway support system for ground mounted signs located within roadside clear zones or other locations vulnerable to vehicular impacts. The omni-directional system is designed to break away quickly and cleanly upon impact, thus saving lives and reducing property damage costs.

All Break-Safe® models are FHWA approved for use on the National Highway System (NHS) and Federal-Aid projects.

Break-Safe® is designed to support a wide range of post sizes, up to and including the largest permitted by AASHTO. The flexibility built into the system provides many choices when selecting post types for specific applications.



Transpo offers a detailed sign selection program designed to meet the specific needs of any project. Details can be found on our [Break-Safe® Sign Post Selection Program online](#).

**The only breakaway system with proven consistent and predictable behavior when impacted.**

TYPE A MODELS		
Model	Size	Type
AI4	3", 4"	Standard I-Beams
AI6	6"x9"	Wide Flange I-Beams
AP	3", 3.5", 4", 4.5"	O.D. Round Pipes
AS	2.5", 3", 3.5", 4"	Square Tubes

TYPE B MODELS		
Model	Size	Type
B525	6", 8"	Wide Flange I-Beams
	5", 6"	Square Tubes
B650	10" - 21"	Wide Flange I-Beams
	7", 8"	Square Tubes



**SAFER TRANSPORTATION THROUGH INNOVATION**



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#### Break-Safe® Sign Post Selection Program

This is a valuable, FREE, tool on our website, designed to select the appropriate sign supports and Break-Safe® model for a wide variety of sign configurations.

#### Omni-Directional Breakaway Performance

Break-Safe® couplings are omni-directional, meaning the system breaks away with consistent, predictable behavior, regardless of the vehicle's angle of impact. Accident research and field experience have demonstrated that vehicles often leave the roadway and impact structures at high angles of incident. This unique capability exceeds FHWA and AASHTO requirements for impact performance.

#### Hinge Plates

In addition to Break-Safe®'s symmetrical coupling design, the system includes hinge plates that connect the upper and lower sections of each post in multi-post sign installations. When only one post of a multi-post sign is impacted, the Break-Safe® Hinge Plates allow the lower post section to swing out away from the vehicle, while the non-impacted posts remain intact.

#### High Structural Capacity

Break-Safe® offers unmatched, high structural load-carrying capacity. New national signing standards specify increased sign sizes for visibility in addition to increased wind load levels. The changes create a significant increase in structural demands on sign supports. Break-Safe® is available in a variety of models, designed to accommodate different sign configurations and post types. The high-strength coupling and L-bracket design provides increasing structural capacity as the size of the post increases.



#### High Durability

All Break-Safe® couplings and hardware are hot-dip galvanized in accordance with ASTM A153 to provide proven corrosion protection in harsh roadside environments.

#### Easy to Install and Maintain

No special tools or equipment are required to properly install and maintain Break-Safe®. All components are easily secured using the American Institute of Steel Construction (AISC) turn-of-nut tightening method, which eliminates the torque requirement typical with other systems.

#### Low Profile

Break-Safe® offers the lowest stub height after impact of any current breakaway system for signs. This is essential for maximum safety and allows for variations in foundation height. Break-Safe®'s after impact stub height is less than one inch above the top foundation.



### Need More Information?

**WWW.TRANSPO.COM/SAFETY**

Contact the safety experts at Transpo to find out more about the various products we offer. If you need advice on how to install the product, the professionals at Transpo will guide you through the process. Project specific questions? We can assist you in creating a cost-effective, tailored solution for your project.

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