

**TraFFix  
Devices Inc.**



**Scorpion II<sup>®</sup>  
TA**

**Towable  
Attenuator**

**Engineered Products for Safer Highways**

**Scorpion II<sup>®</sup> TL-3 Towable Attenuator  
MASH Tested, Passed and Eligible**



10002-TL3M-12TA  
(Arrowboards, Uprights Sold Separately)

- The FIRST and ONLY Towable Attenuator eligible for MASH, TL-3.
- FHWA Eligibility Letter, CC-138.
- Infinite weight tested and eligible allows the Scorpion II<sup>®</sup> Towable Attenuator to be used on heavy host vehicles (minimum 12,000 lbs.), with no upper weight limit.
- Scorpion II<sup>®</sup> remained attached to the host vehicle and pintle hook during all impact testing.
- Telescoping Anti-Rotational System (TARS) minimizes Scorpion II Attenuator rotation during angled and offset impacts, preventing separation from host vehicle.
- No additional hardware required for connection to host vehicle.
- The Scorpion II<sup>®</sup> proven modular design crushes in progressive stages allowing quick and economical replacement of damaged parts.
- LED Lights standard on all Scorpion II<sup>®</sup> Towable Attenuators.
- The unique curved design gives full width protection to the back of the host vehicle and shields the deadly "coffin corners" of the truck.
- Rear axle placement improves towing stability and prevents the tail from "bottoming out" on driveways and uneven surfaces.
- MASH tested and eligible with optional display panel, which can be easily attached to Scorpion II<sup>®</sup> Towable Attenuator.





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## Scorpion II TL-3 (62.5 mph/100 kph) Towable Attenuator

### Specification

The Towable Attenuator (TA) is a mobile crash cushion designed with a trailer tongue and axle/wheel that connects directly to the support vehicle's trailer connection and from a lunette eye on the attenuator. The TA can be used on support vehicles with a minimum actual/curb weight of 12,000 lbs with no upper weight limit (infinite weight). The TA has overall dimensions of 17.8 ft (5.4 m) x 8 ft (2.4 m) x 4.3 ft (1.3 m) with ground clearance of 12.0 in  $\pm$  1.0 in (305 mm  $\pm$  25 mm). The TA consists of three main components: the trailer tongue, front Strut, and rear Cartridge. The trailer tongue is positioned nearest to the support vehicle, the Strut is bolted to the tongue and Cartridge. The Cartridge is the rear most component, furthest away from the support vehicle. The trailer tongue acts as a standard single point connection under normal towing conditions. The trailer tongue is designed with an integral Telescoping Anti-Rotation System (TARS) that is activated when the TA is impacted. The forward sliding action occurs during an impact, upon completion of the full telescoping action the outboard anti-rotation supports come into contact with support vehicle frame plate which in turn prevents angular rotation about the rear of the host vehicle. The Strut consists of four outboard convex aluminum tubes forming an aluminum structural weldment. The aluminum structural weldments bolt directly to the TARS tongue and the rear Cartridge. The structural assembly encompasses the aluminum crush Module D. The Cartridge consists of four outboard convex aluminum tubes forming an aluminum structural weldment. The aluminum structural weldments bolt directly the Struts steel angles and rear trailer diaphragm. The TA uses a Cartridge Trailer Diaphragm with an axle/wheel attachment for towing the TA. The structural assembly encompasses the two aluminum crush Module C's. Attached to the rear most end of the Cartridge is the single crush Module A.



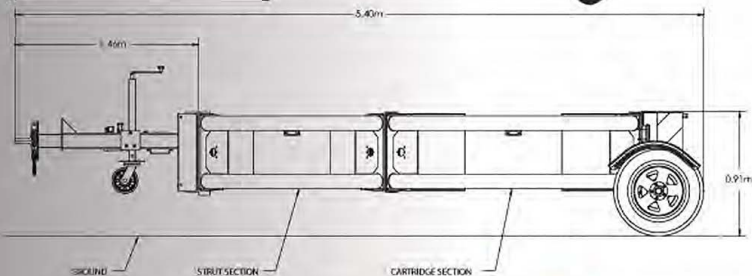
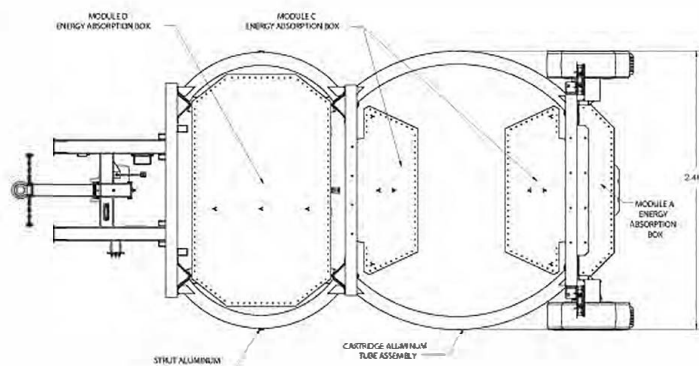
Scorpion II<sup>®</sup> TL-3 Towable Attenuator with Display Panel Impacted by 5,006 lbs (2,271 kg) Pick-Up Truck

### TL-3 SPECIFICATIONS

Length: 17.8 ft (5.4 m)  
Width: 7.8 ft (2.4 m)  
Height from the ground:  
12.0 in  $\pm$  1.0 in  
(3045 mm  $\pm$  25.4 mm)



1. Steel tongue section including TARS<sup>™</sup>
2. Aluminum strut section
3. Aluminum cartridge section
4. Axle wheel assembly
5. Curved re-directing aluminum tubes



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**CROC**  
CRASH SOLUTIONS

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