Innovations for Safety™

RoadQuake® Safety System

Temporary Portable Rumble Strip (TPRS)

Product Guide

RoadQuake® 2F TPRS | RoadQuake® *T-Handle*™ | RoadQuake® 2F CRIB™ *Cargo Carrier*

Distributed by:

RoadQuake® Safety System

For faster, safer deployment and removal of RoadQuake® 2F Temporary Portable Rumble Strip.

RoadQuake® 2F TPRS

RoadQuake® T-Handle™

RoadQuake® 2F CRIB™ Cargo Carrier

RoadQuake TPRS alerts distracted drivers to changing road conditions.

Ideal for work zones where daily installation and removal is required:

- Pilot car or flagging operations
- Lane closures
- Traffic safety check-points
- Routine maintenance projects
- Paving operations

RoadQuake TPRS is:

Temporary - No nails or glue are needed for installation and use. Quick installation and removal, and no clean-up.

Portable - No installation equipment needed. A crew of 2 can install an array in minutes.

Durable - 3-5 year life under normal conditions. Suitable for use in rain and temperatures of 0˚ to 180˚ F and in speeds up to 80 mph.

RoadQuake Safety System Benefits:

- Workers can deploy and move TPRS arrays faster.
- Workers are less exposed to traffic.
- CRIB and T-Handle reduce potential for superficial stress caused by lifting and carrying RoadQuake TPRS.

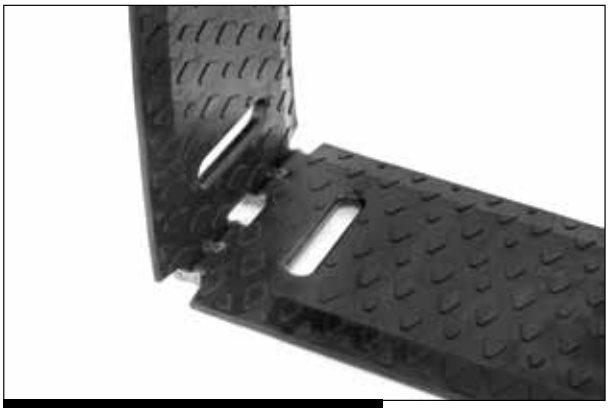
RQ TPRS meets Section 6F.87 of the *MUTCD*, 2009 Edition.

RoadQuake® 2*F* TPRS

Designed to reduce accidents and save lives, RoadQuake 2F TPRS alerts distracted drivers to changing road conditions, like work zones and check points.

RoadQuake 2F TPRS features a convenient, one-piece, folding design.

Folds for easy storage and transportation



Unfolds for easy deployment

US Patent No. 7,736,087. Other Patents Pending.

RoadQuake 2F TPRS Features:

- Meets Section 6F.87 of the *MUTCD*, 2009 Edition.
- Generates the same level of sound and vibration as milled strips.
- For posted speed limits up to 80 mph and temperatures from 0° to 180° F.
- 13" W x 3/4" H x 132" L, when unfolded. Covers an entire lane.
- Folds to a compact 66" length. Weighs 110 lbs.
- Ergonomic handles make installation and storage easy. Non-slip textured surface helps to keep RoadQuake 2F TPRS in place.
- Bevels on both sides take the guess-work out of installation.
- Hinge links meet ANSI Standard for master chain link, size 60-2.

RoadQuake® 2F CRIB™ Cargo Carrier

CRIB is a fully integrated cargo carrier designed specifically for the transport, deployment, removal, storage and safe-keeping of RoadQuake 2F TPRS.

CRIB holds a maximum of 6 each RoadQuake 2F TPRS in their folded position. That's enough to deploy 2 each 3-strip arrays. Because CRIB mounts to the exterior of a vehicle, CRIB eliminates the need to find extra space in crowded vehicles.

Stainless steel ball-bearing rollers at both ends facilitate easier deployment and removal.

CRIB mounts to the vehicle receiver using a Pintle mount. PSS includes an adjustable Pintle mount with each CRIB.

CRIB Pintle mount

CRIB mounts to the vehicle receiver with a Pintle mount. We include a mount with each CRIB.

CRIB Features:

- CRIB, with mount, weighs 132 lbs. An individual RoadQuake 2F TPRS weighs 110 lbs. CRIB will hold a maximum 6 each RoadQuake 2F TPRS, for a total weight of 792 lbs.
- A Class IV or Class V receiver is required to transport CRIB and 6 each RoadQuake 2F TPRS units. Consult the vehicle manual for maximum Tongue Weight (TW) allowed.
- CRIB measures 17.5" W x 13.375" H x 70" L. Made of steel, CRIB is powder-coated in safety yellow, with reflective conspicuity tape applied to 3 sides.
- PSS also includes 2 adjustable straps with each CRIB, to hold TRPS during transport.

CRIB Benefits:

- Deployment and removal of an array of RoadQuake 2F TPRS can be a one person job.
- Reduces superficial stress to workers that could be caused by lifting and carrying RoadQuake 2F TPRS.
- Reduces overall deployment and removal time, when compared to RoadQuake 2 modular TPRS.
- Eliminates the need to find extra space in crowded vehicles.
- Places RoadQuake 2F TPRS in alignment with deployment location.

RoadQuake® *T-Handle*™

For use with any RoadQuake TPRS

RoadQuake T-Handle:

- Lifting RoadQuake Rumble Strips is easier, faster, safer.
- Reduces possibility of superficial stress caused by lifting, carrying RoadQuake TPRS.
- Fits all RoadQuake Products.
- Designed to complement RoadQuake 2F CRIB, as shown on right.
- Sturdy, comfortable, plastic grip with galvanized steel foot for durable outdoor use.
- Stores in toolbox, console, or glovebox.

RoadQuake T-Handle

Weight:
22 oz.

Easy to use:

Insert

Twist

Lift and carry

Watch our YouTube CRIB and T-Handle Video

RoadQuake® 2*F* TPRS

RoadQuake 2F TPRS Deployment and Unfolding Instructions

For more information on the use of RoadQuake 2F TPRS, contact us for a complimentary copy of our *Best Practices for Optimal Use of RQ TPRS* guide book.

Step 1: PSS recommends two people carry *RoadQuake **2F*** TPRS.

Step 2: Once in place, remove the carrying strap from the hinged side of the rumble strip.

Step 3: Then, simply unfold the rumble strip.

Step 4: Place in position.

Option: Use RoadQuake T-Handle in place of strap to carry RoadQuake.

Caution: Pinching Hazard

Note: If carrying by hand, use the carrying strap on the non-hinged side to transport *RoadQuake **2F*** TPRS. PSS ships 1 strap with each *RoadQuake **2F*** unit.

Do not put your hand through **both handles** of the non-hinged side when transporting *RoadQuake **2F*** TPRS. Doing so may cause slight pinching.

RoadQuake® 2 TPRS

Designed to reduce accidents and save lives, RoadQuake 2 TPRS alerts distracted drivers to changing road conditions, like work zones and check points.

Ergonomic handles

- RoadQuake 2 is 13" W x 3/4" H x 45" L. Weighs only 35 lbs.
- Generates the same level of sound and vibration as milled strips, and higher levels than glue-down strips.
- For posted speed limits up to 80 mph, and temperatures from 0° to 180° F.

- RoadQuake 2 is easy to transport and store.
- Ideal when transport and storage space is limited.
- Fits in virtually any vehicle.

- Assembles in minutes. No tools required.
- Features beveled edges on both sides for easy installation.
- For complete assembly instructions, see pages 8 & 9.

- 3 sections make 1 strip, 11' long, that traverses an entire lane.

- Installs in minutes.
- No glue, adhesives or nails required.
- No tools or equipment needed.

RoadQuake 2 meets Section 6F.87 of the *MUTCD*, 2009 Edition.

Watch our YouTube RoadQuake 2 Assembly Video.

US Patent No. 7,736,087. Other Patents Pending.

RoadQuake® 2 TPRS

RoadQuake 2 TPRS Assembly Instructions

RoadQuake 2 is a temporary device; no glue, adhesives or other fasteners are required for installation. RoadQuake 2 simply conforms to the surface of the road.

Prior to assembly or installation, sweep areas clear of gravel and other debris that may cause strips to move.

The only tool you will need for assembly is a 4x4 piece of wood, or an object of similar size.

The goal of assembly is to properly engage tabs with slots

Tabs and Slots:

RoadQuake 2 is ready-to-assemble. No hardware is required.

In the picture to the left, the section on the left is the “tabbed” section; the section on the right is the “slotted” section.

Note that both long edges are beveled, so that either edge can face traffic.

The channel under the tabs, shown here...

…must engage the rod on the slotted end, shown here

RoadQuake® 2 TPRS

RoadQuake 2 TPRS Assembly Instructions, continued

Put the 4x4 under the slotted end of the first section.
The wood will ELEVATE the slotted end.
Next, pick up the second section with the tabbed end down and nameplate facing you.
Straddle or stand next to the elevated section.

INSERT the tabbed end into the elevated slotted section.

ENGAGE the rod on the slotted end.

KICK the section in your hand to fully engage the channel on the rod.

Kicking Style

Picture 4 shows a sideways, soccer-style kick, using the instep of the foot. Straight-on, football-style is also acceptable. Simply straddle the section on the ground, insert and engage the section in hand, and kick straight-on, in football-style. Then proceed to Steps 5, 6 and 7.

Slowly DROP the section...

REMOVE the wood and...

STOMP on it, to complete the assembly.
You can now add a third section to make a full 11 foot strip that spans an entire lane.

Incorrect assembly

These sections have not been assembled correctly. Please repeat the assembly steps. But first, watch the YouTube RoadQuake 2 Assembly Video!

Correct assembly

Properly assembled sections should be smooth and flat, as shown in the picture above.

RoadQuake® 2 *RetroFit*™

Converts RoadQuake 2 TPRS to RoadQuake 2F TPRS

RetroFit Unit

Complete RoadQuake 2F TPRS RetroFit unit assembled

Unfolds for easy deployment

Folds for easy storage and transportation

Alerts drivers to changing road conditions...

- For posted speed limits up to 80 mph and temperatures from 0° to 180° F.
- RoadQuake 2 RetroFit is 132" long when unfolded. Covers an entire lane.
- Folds to a compact 66" length. Weighs 107 lbs.
- Meets Section 6F.87 of the *MUTCD*, 2009 Edition.

US Patent No. 7,736,087. Other Patents Pending.

Ideal for Work Zones where daily installation and removal is required

- At 13" W and 3/4" H, RoadQuake 2 RetroFit generates the same level of sound and vibration as milled strips.
- Ergonomic handles make installation and storage easy. Non-slip textured surface helps to keep RoadQuake 2 RetroFit in place.
- Bevels on both sides take the guess-work out of installation.
- Hinge links meet ANSI Standard for master chain link, size 60-2.

RoadQuake® 2 *RetroFit*™

Assembly insrtructions:
Simply attach RoadQuake 2 units to our RetroFit device, and apply pavement marking tape.

RoadQuake 2 RetroFit Folding Rumble Strip.

Elevate each end of RetroFit to connect RoadQuake 2 modular units.

Install RoadQuake 2 units to both sides of RetroFit.

Before applying tape, clean 4" around the assembled joints. Use soap and water or degreaser detergent to remove all dirt and debris. Rinse with clean water. Allow to dry.

Use a brush or coarse rag to apply a generous coating of denatured alcohol to the clean tape application surface. Allow to dry.

Apply flame treatment to tape application surface. For best results, use the tip of the torch across the entire application surface, constantly moving back and forth. Do not overheat or burn the rubber surface. Flame treatment will warm the surface of the rubber and burn off all remaining contamination to maximize adhesion.

Center the 12.5" long tape at equal distances from the outside edges. Apply tape about 1/2" from the inside edge of the RoadQuake 2 handle. Make sure tape is properly aligned prior to final application.

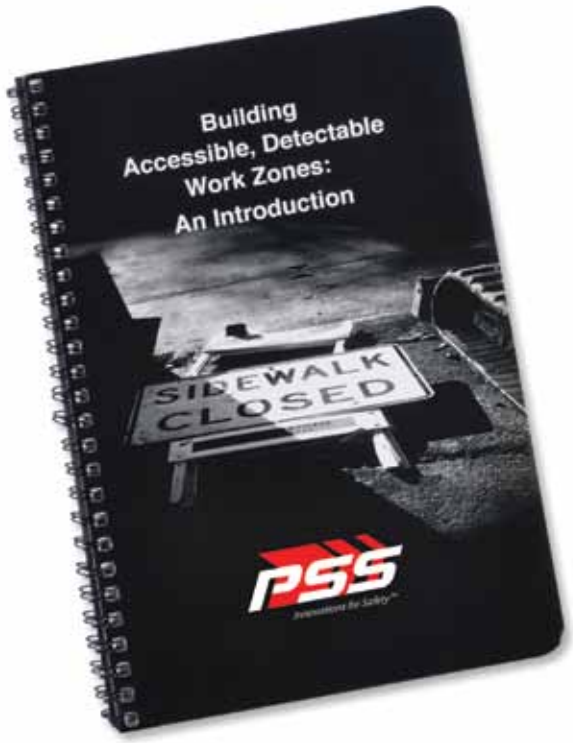
White reflective tape shown for demonstration purposes. Standard color for RetroFit shipments is black.

Once tape is properly positioned, apply firm pressure along the complete tape surface to eliminate trapped air pockets and assure good adhesive bond. For best results, allow minimum 24 hour adhesive cure time prior to rumble strip deployment.

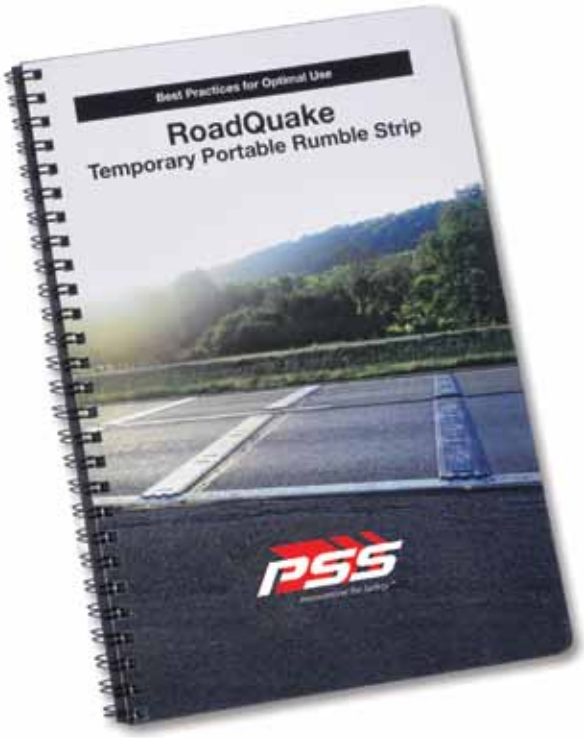
Assembled RoadQuake 2 RetroFit Rumble Strip.

Periodically examine the reflective tape for excessive wear or loss of adhesion.

Watch the YouTube RoadQuake 2 Assembly Video.



Building Accessible, Detectable Work Zones



Best Practices for Optimal Use of RoadQuake TPRS

Please contact us for a complimentary copy of our guide books.

Innovations for Safety™

PSS
2444 Baldwin Road
Cleveland OH 44104
800-662-6338
PSS-Innovations.com

Contact PSS Sales

Copyright © 2016