

## **INSTALLATION & MAINTAINANCE – RB36 Directional Traffic Spike Controllers - Surface Mount Model**

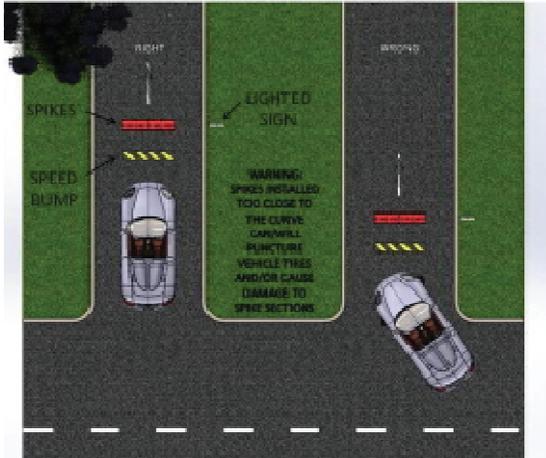


**Carefully determine the location for your Directional Traffic Spike Control Units. Locate so that when the tires of the vehicle pass over the teeth they are parallel to the teeth. Place the units at least 15' – 20' into the lane.**

**Install the Directional Traffic Controller perpendicular to the flow of traffic. If vehicles cross the controller at an angle other than 90 degrees the spikes may cause sidewall and direct damage to the tires. Check all bolts to insure none have loosened during shipping, and tighten as necessary. Loctite is recommended for final installation.**

- **Crossing the controller at other than 90 degrees or turning directly over a controller can cause damage to the tread or sidewalls of vehicle tires.**

- Proper selection and placement of the controller or the use of boundary posts, curbs, etc. can prevent turning or crossing at other than the required 90 degrees.



- 5 MPH When Crossing Any Spike Controller – Use Speed Bumps to Control Vehicle Speed if Needed
- Vehicles Must Cross Perpendicular to the Spike Path, No Turns or Crossing at an Angle other than 90 Degree
- Warning Signs Should Always be Visible

*If you are installing a snow melting heater cable element in your system, you will need to plan for the location of the where your thermostat and power will be located. See instructions with your heater cable.*

**2. Clean the area with a leaf blower, broom or other method to insure a clean and dry surface.**

**3. Mark the location with a chalk line or other suitable marks to assist in aligning and locating the units in the desired position. You may also place the individual segments in the location you wish to install them and then mark the location. Make sure the teeth are orientated the correct way.**

## **Concrete Surface Installation**

- 4. When bolting into concrete (not recommended for asphalt) drill holes in the road surface in the corresponding holes on each segment.**
- 5. Place your anchors per manufacturer's instructions. Do not use an anchor that will stick up above the traffic control unit that could cause damage to the passing tires.**

**The recommended product is a ½” Large Diameter Tapcon Concrete Anchor or “LDT” by SIMPSON STRONG TIE, REDHEAD or similar. 4 to 5 inches in length is usually sufficient.**

## **Asphalt Surface Installation**

- 6. If your surface is asphalt the best method of application is using Construction Grade Epoxy supplied by Secure Lane or your local hardware vendor.**
- 7. Turn each spike and end unit over and place close but not in the exact installation location on a cardboard or other protective material to catch any epoxy spills. The epoxy has a relatively short setting time and proper positioning of the segments can be facilitated by having them aligned and positioned close to the installation location.**
- 8. Check to make sure that all units are aligned correctly.**  
**Check the orientation again to insure they are correct to the traffic. Unlatch the latch down mechanism for this procedure.**
- 9. Check again to make sure the area is dry and clean of any debris to insure the best bonding of the epoxy.**
- 10. Follow the epoxy manufacturer's instructions for mixing and preparing the epoxy that will be used to affix the segments to the drive surface. It is advised that several items including rags, cardboard or the like be available for clean up of any epoxy overrun that may be encountered during installation. A stiff**

**brush or small spatula works well for applying the epoxy mixture to the units.**

**11. Start with an outside-toothed segment (the epoxy should be applied to the toothed segments first and then end cap sections last if you are using them).**

**12. Apply a coating of epoxy along the front edge and back edge and along each cross member coating all of the bottom plate that will contact the road surface.**

**13. After application of the epoxy turn the segment over and place in the previously marked position. Check the teeth position to make sure they are in the correct direction for the traffic flow.**

**14. Proceed with the next segment inline, following the same procedure and installing them with the interlocks securely in place.**

**15. After all the toothed segments are installed; the end sections can then be installed in a like manner.**

**16. Be sure to apply the epoxy as recommended to insure the proper distribution of the epoxy for the maximum adhesion of each segment. The amount of epoxy needed depends on the condition of the road surface. If the road surface has uneven areas or missing asphalt, more epoxy is needed to fill in and get a secure adhesion. If the asphalt is in good condition, a 1 gallon kit is needed for every 9 to 12 feet of spike. More is needed if road surface is in poor condition.**

**17. After all the segments and end section are in place you may then nail the units to the road surface using hardened nails. This is desired to insure the units stay fixed and do not move while the epoxy sets.**

**18. It is recommended that a sufficient time be allowed for the Epoxy to set before traffic is allowed to pass over the traffic controllers. The time allowable time will depend on the environment where the units are being installed and the epoxy**

being used (you may wish to use a minimum of four hours).  
Check the epoxy manufacturer's recommendations.

**19. Maintain adequate warning barricades in place throughout the construction and curing process and until ready to activate.**

**20. When ready to activate make sure all warning signs and any other precautions you may have taken are in place. Then activate the teeth by loosening the latch down device and be sure to retighten the latch down mechanism after activating the teeth.**

**Remember that 5 MPH is the recommended speed when crossing traffic spike units. Warning Signs should always be in place.**

## **SAFETY NOTICE**

**Traffic Spike Systems are an inherently damaging product and are intended to puncture tires. There are risks and liabilities involved in the use of these products. To minimize your exposure, it is extremely important that adequate safety measures are taken in the installation, location, site conditions, use and maintenance of the units. Warning signs should be installed at all sites where spikes are installed. Illumination of the spike units especially in areas of adjacent pedestrian traffic is recommended.**

**It is the end users responsibility to check with local authorities for permission to use traffic spikes for their intended use.**

**Site Conditions – Carefully select your site so that the units are installed in a solid surface asphalt or concrete. Traffic spike**

**systems should not be installed in dirt, on any curve, inclines or where the road surface is uneven or where the road surface is in poor condition. Also, do not install in areas where there is significant water runoff that could potentially do damage to the components of the units. Use caution and install precautions when installing near high pedestrian traffic.**

### **MAINTENANCE Directional Traffic Spike Controllers:**

**It is necessary to maintain your Directional Traffic Spike System Controllers consisting of periodic inspection insuring proper tooth and shaft movement and cleaning of any debris that may have settled or lodged inside the controller (Maintenance schedule is dependent upon the site environment. Example: if there is a tree canopy overhead and a lot of organic matter accumulates, then a more regular schedule should be implemented. )**

**Accumulated debris can be vacuumed, blown or manually cleaned out by unbolting the top-plate, which gives free access to the inner cavity of the unit. If debris is allowed to build up the unit will malfunction which could cause damage to the unit or to vehicle tires traveling in the correct direction. The accumulation of organic matter and debris may cause premature rusting and deterioration of steel components.**

**With proper installation and maintenance of Directional Traffic System Spike Controllers, they will provide many years of cost-effective and reliable directional access control.**

**Secure Lane LLC will not be responsible for property, vehicles, tires, or personal damage resulting from improper installation. Secure Lane LLC will not be responsible for repairing malfunctions or replacing parts resulting from improper installation. Replacement parts needed in order to repair**

**damage or malfunction caused by improper installation or abuse are not covered under manufacturer's warranty.**

#### **Manufacturer's Limited Warranty**

SECURE LANE LLC warrants that the Traffic Control Spikes System shall be free from all defects in material and workmanship for a period of one year (12 Months) from the date of the original invoice under normal use and service and specifically excludes surface paint, any work, products done by others. SECURE LANE'S obligation under this warranty is specifically limited to repairing or replacing, at its option, any defective part, which upon examination by SECURE LANE proves to be defective during the warranty period. This warranty excludes any and all labor in regards to repair or replacement. This warranty shall not apply to surface paint or to any part which has been improperly installed, improperly maintained, rust or deterioration due to water retention, improper drainage or weather, accident, improper use, speed exceeding five miles per hour, traffic going the wrong way causing damage or any part which has been altered or repaired by any person not expressly authorized, by SECURE LANE, in writing to do so.

SECURE LANE shall in no event be liable neither for personal injury, tires, property damage or other incidental or consequential damages nor for any special damages or any further loss, which may arise in connection with any claim. However, if SECURE LANE is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of the cause or origin, SECURE LANE'S maximum liability shall not in any case exceed the purchase price of the individual product or products which shall be the complete and exclusive remedy against SECURE LANE.