WEIGHTED FLUSH MOUNT STAND-ALONE TRAFFIC SPIKE SYSTEM

With advancements in tire construction, and with the many different types, sizes and styles of tires, we cannot guarantee that traffic control spikes will penetrate all tires. For use with automotive and light pickup trucks only.

CAUTION: Installation and use of traffic control spike unit in areas that are subject to freezing weather with the potential of snow and ice accumulation is not recommended. The unit may freeze in the up position and cause unintended injury or damage due the inability of the spikes to retract.

DOORKING®
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Inglewood, California 90301
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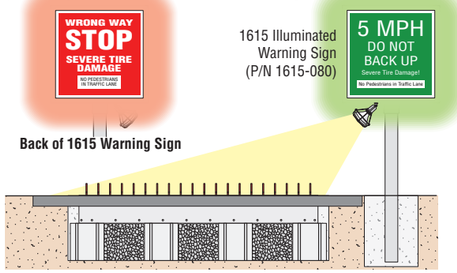
Safety Information

PLEASE READ THIS FIRST

Traffic spikes are not intended for use on high stress facilities such as hospitals, emergency rooms or busy roadways where vehicular traffic is traveling at full speed. **Traffic spikes should only be used in a parking situation or other areas where traffic can be slowed to a maximum of 5 miles before crossing the traffic spikes.** Failure to follow these guidelines may result in bodily injury, vehicle damage and extreme wear and tear on hardware.

Identify Spikes to Vehicular Traffic

It is extremely important that traffic spikes are installed in an area that is illuminated and clearly marked with warning signs (DoorKing's model 1615 illuminated warning sign kits).

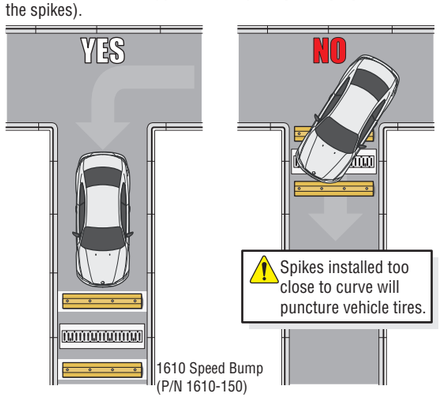


Additional lighting, warning signs and pavement markings can be used to increase awareness for potential danger and to separate pedestrians from vehicular traffic.

Control Vehicular Traffic

Traffic must be slowed to a **cautious speed** prior to crossing the traffic spikes to avoid accidents and excessive wear and tear on hardware. Speed-bumps should be installed where additional speed control is desired and also serves to prolong the life of the traffic spikes (see 1610 speed bump for concrete surfaces).

Traffic spikes must always be installed at a 90° angle, never installed in blind spots, corners, curves, (enough straight-away must be available to allow vehicles that have just completed a turn to straighten out and approach the spike system **perpendicular** to the spikes).



Traffic spikes must be installed in flat-leveled concrete avoiding bumps or dips including uphill or downhill slopes minimizing the possibility of water draining into the spike assembly.

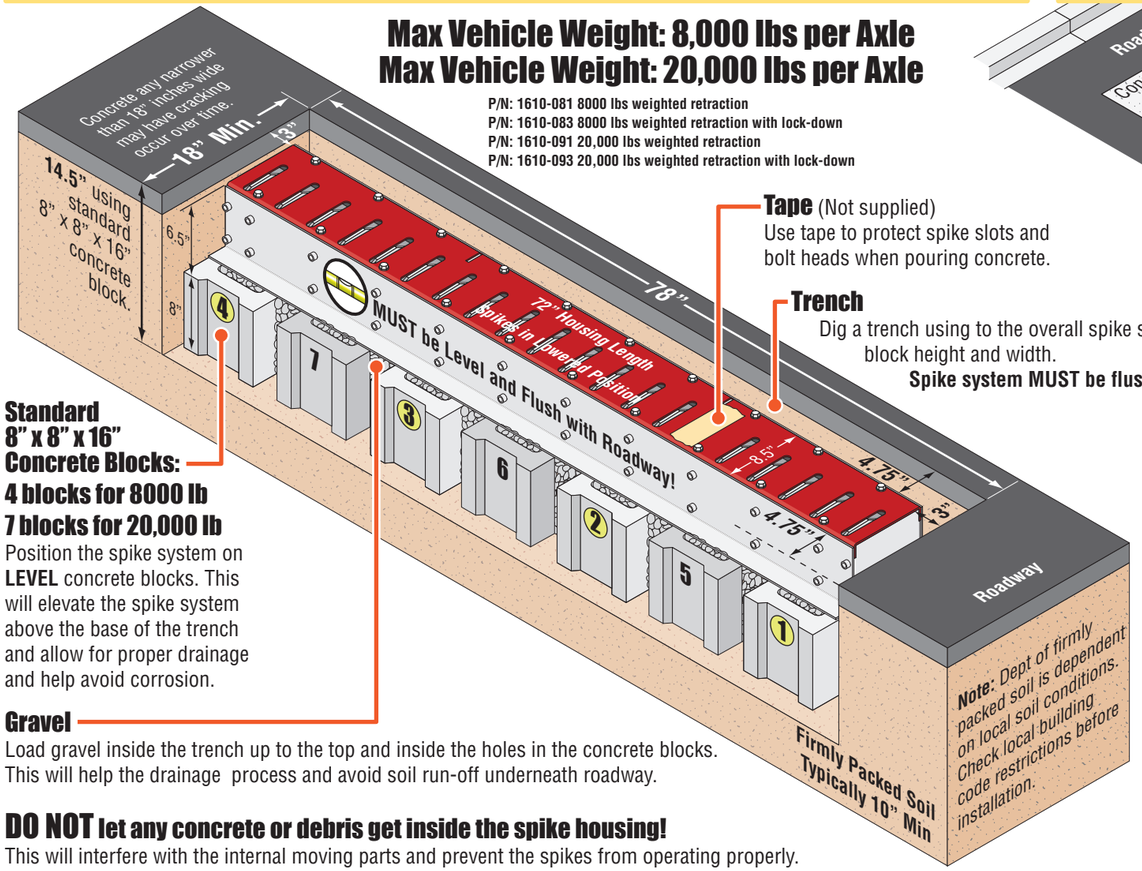
Regular Maintenance of Spike System

Regular inspection and removal of dirt, debris, gravel, and rock is required in order to keep traffic spikes functioning properly. **Neglecting to regularly clean dirt and debris from inside traffic spikes is the number one cause of excessive breakage and traffic spike malfunction.**

Installation

Max Vehicle Weight: 8,000 lbs per Axle
Max Vehicle Weight: 20,000 lbs per Axle

P/N: 1610-081 8000 lbs weighted retraction
P/N: 1610-083 8000 lbs weighted retraction with lock-down
P/N: 1610-091 20,000 lbs weighted retraction
P/N: 1610-093 20,000 lbs weighted retraction with lock-down



Standard 8" x 8" x 16" Concrete Blocks:
4 blocks for 8000 lb
7 blocks for 20,000 lb
Position the spike system on **LEVEL** concrete blocks. This will elevate the spike system above the base of the trench and allow for proper drainage and help avoid corrosion.

Tape (Not supplied)
Use tape to protect spike slots and bolt heads when pouring concrete.

Trench
Dig a trench using to the overall spike system and concrete block height and width.
Spike system MUST be flush with the roadway.

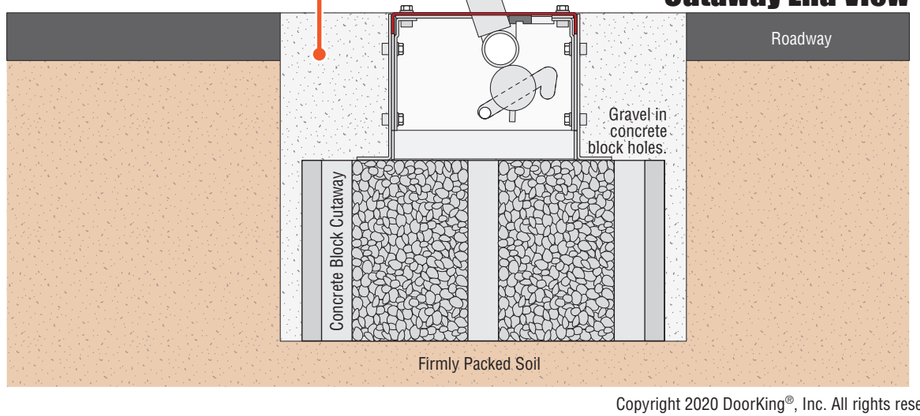
Gravel
Load gravel inside the trench up to the top and inside the holes in the concrete blocks. This will help the drainage process and avoid soil run-off underneath roadway.

DO NOT let any concrete or debris get inside the spike housing!
This will interfere with the internal moving parts and prevent the spikes from operating properly.

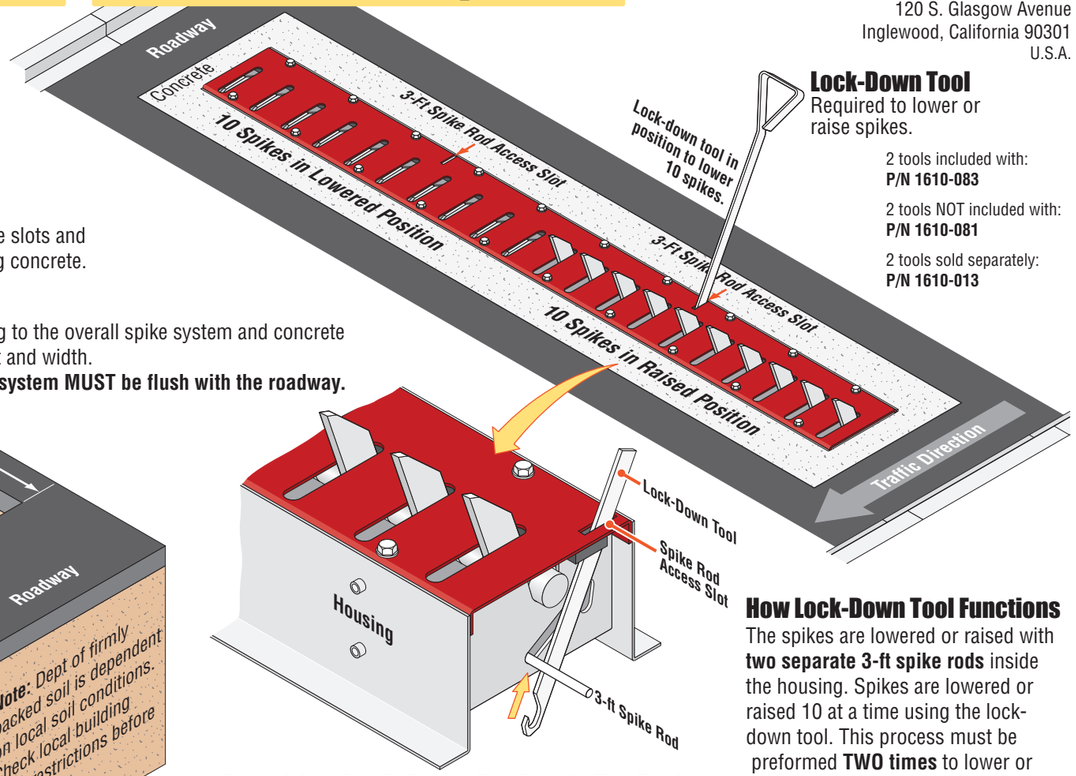
Poured Concrete
Pour concrete completely around the Spike system. Make sure **ALL** surfaces are flush with each other.

Traffic Direction
Only when spikes are raised

Cutaway End View



Lower or Raise Spikes



Lock-Down Tool
Required to lower or raise spikes.

2 tools included with:
P/N 1610-083

2 tools NOT included with:
P/N 1610-081

2 tools sold separately:
P/N 1610-013

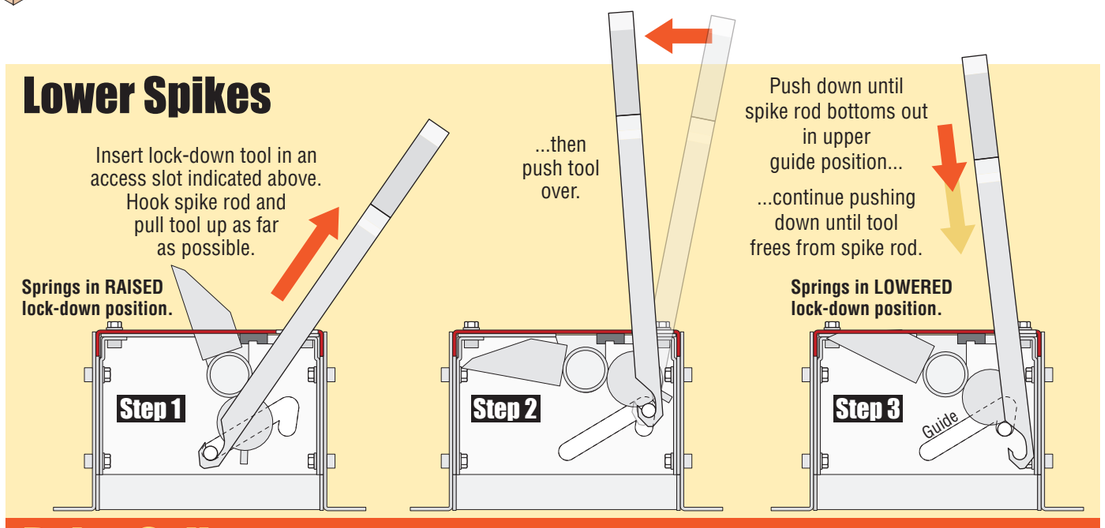
How Lock-Down Tool Functions

The spikes are lowered or raised with **two separate 3-ft spike rods** inside the housing. Spikes are lowered or raised 10 at a time using the lock-down tool. This process must be preformed **TWO times** to lower or raise **ALL** 20 spikes

Attaching Lock-Down Tool to Spike Rod

Push lock-down tool further into slot than necessary. Pull back on tool until hook catches the spike rod.

Lower Spikes



Raise Spikes Reverse the 3 Steps above.