

Road Kop Speed Cushion Installation Instructions

Equipment and Tools Required

Please note: Quantities specified below are suggested quantities that are likely to be required for each installation.

Quantity	Description
1	2.5 kva (minimum) or 2500 watt portable generator
2	Hammer drills (slow speed, high torque works best)
3	Masonry drill bits 9/16" x 18" long (ORDER IN ADVANCE)
2	110v extension cords - 50' long x 12 gauge
1	Air (or 110 volts) Impact wrench, 1/2" drive
1	100 p.s.i. portable air compressor with 50' long hose and nozzle.
1	2 lb ball peen hammer
1	Medium size screwdriver
2	17mm deep socket - 1/2" drive
*1	Resin gun for 2 component resin – not available in stores
1	Long nose air nozzle
1	Tape measure - 50' long
1	Chalk line with chalk
1	Stiff broom
1	Dust pan
1	Dust brush

Optional Equipment:

1	5000 watt power inverter (in lieu of compressor and generator)
1	Wet / Dry shop vacuum with long nozzle

NOTES:

Additional masonry drill bits may be required depending on the total number of speed cushions to be installed. There are many variables, but usually 1 drill bit will drill at least 3 speed cushions before needing to be re-sharpened or replaced.

** The **RESIN GUN** is a specialty tool required for all speed cushion installations. It can be purchased from Lake Traffic Solutions.*

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Note: There must not be more than 3'6" (*maximum*) space from curb face to cushion, and between cushions.

The Road Kop speed cushion consists of: 2 left corner modules
2 right corner modules
6 center modules.

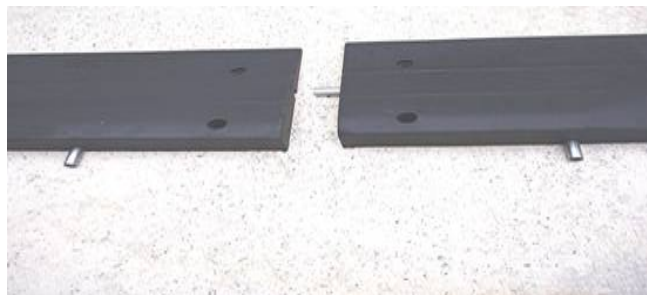
Each installation kit consists of:

- 41 Stainless steel hex head lag bolts with stainless steel washers
- 41 pavement anchors
- 41 caps
- 2 tubes of adhesive with mixers
- 13 metal dowels

1. To begin installation, use chalk lines to determine proper placement and spacing. Once the modules are in place, you should not have to move them again.
2. Begin with either corner module that fits into your chalk line scheme. Insert the dowel pins as shown, making sure they are fully seated. Place the corner on the pavement per your chalk line.



3. Next, take the opposite corner module, insert one dowel pin on the long side and place it on the pavement together with the first corner interlocking the two as shown.



4. Take a center module and insert 2 dowel pins



5. Place the corner on the pavement next to the corresponding corner.



6. Add the other 2 center modules and the remaining corner module in the same manner.



7. Be sure the alignment is still as desired. Fill in the other modules to complete the cushion. You are now ready to bolt the cushion to the pavement.

Anchoring to the pavement requires:

9/16" masonry bit (preferably 18" long)

Heavy duty hammer drill

Long nose air nozzle (or vacuum)

Impact wrench

Resin gun for adhesive (**only available from Lake Traffic Solutions**)

8. Begin drilling as shown. An 18" bit makes the installation easier on the installer but is not mandatory.



9. Drill all holes to a depth of 7" from module surface (4" into the pavement.) Thoroughly blow out all holes or use a vacuum. Assemble all pavement anchors, bolts and washers as shown below:



10. Connect the static mixer to the adhesive tube and insert into the resin gun. Prime the adhesive gun until the resin at the tip is gray.



11. Insert the mixer in the hole and apply the adhesive (generally 2 pumps).

Warning: resin will harden in 15 minutes or less.



12. Immediately insert and pound the anchor/bolt/washer combo into the hole until the lip of the anchor is at pavement level.



13. Tighten the bolt with the impact wrench ensuring the washer is firmly seated. **DO NOT** over tighten.



14. Insert the rubber caps in each hole.

15. Add warning signs and pavement markings. We supply these as well.



Finished Installation