Speed Humps

Speed humps are raised devices, parabolic in shape, placed across the road to slow traffic. They are often considered the most traditional road calming solution. Speed humps slow traffic more gradually than speed bumps, although less so than speed tables.

Installation Tools

- Chalk
- Chalk line
- Measuring tape
- Impact or hammer drills (we recommend that you have two heavy duty hammer drills, preferably spline drills)
- High speed drills (we recommend that you have two electric drills)
- Drill bits carbide tip, At least two 9/16” dia., 10-12” long
- 3lb Hammer
- 10lb Sledge hammer (for final adjustment)
- 11/16” drive socket with a12” extension
- Street broom
- Utility knife or a hack saw (used for trimming the rubber as needed)
- Crow bars, gooseneck wrecking bars
- Portable air compressor able to maintain 120psi (used to blow out the debris after the holes are drilled)
- Generator and extension cords to run all four drills
- One 24” 2”X4” piece of wood. This is used to knock the panels in place.
- Appropriate signage in accordance to ITE’s State of the Practice on Traffic Calming as well as ITE’s Manual on Uniformed Traffic Control Devices (MUTCD)

Installation Process

Step1.
Clean the surrounding installation area by using the street broom.

Step2.
Using the Chalk line mark a line parallel to the curb and one that is perpendicular to the road. Use these lines to square up your traffic calming device.

Step 3.
Identify and separate the pieces that run parallel to the curb for both sides of the device.

Step 4.
Assemble and position the first row of outside units. Make sure that all of the tongues are facing out towards the center of the device. Attach the interlocking units using the tongue and groove system as shown to lock the pieces together.

Step 5.
Drill 9/16” diameter holes into the asphalt, through the existing holes of the first row using the hammer drill. The holes should be 3 1/2” to 4” deep in order to accommodate the plastic shields which are 3” long.

Step 6.
Use an air compressor remove all of the debris from the holes are clear of dust and debris. Compressor should be able to maintain 120psi

Step 7.
Install plastic anchors into the holes in order to keep the units from shifting.

Step 8.
Using the high speed drill insert the bolts and washer into the plastic anchor. Ensure that the bolts are snug but do not over tighten.

Step 9.
Once the first row has been bolted to the ground you can begin assembling the next row of panels and using a 10 lb sledge hammer knock the row snug to the first row. Continue make and connecting the additional rows while at the same time drilling out the holes for the rows that have been completed. Continue installing the rows until half the width of the street is completed. Then, proceed to the other half. This order allows traffic to flow through half the street at any given time.

Precautions:

- From a safety point of view, steel toe boots and safety gloves are required.
- Make sure that the units are tight and well aligned before moving from one step to another.
- Make sure the holes are clear of dust and debris before installing the anchors
- Remember that all of the bolts need to be installed for the warranty to be in affect.
- Traffic Calming devices must be removed in the fall prior to the arrival of snow and installed in the spring after the last snow storm.
- Quarterly inspections should be made of each traffic calming device.