

Installation Instructions for ZEBRA Lane Delineators

Steel Spike Method: *For Asphalt surfaces only.*

Tools needed:

- High speed hammer drill with a 7/16" masonry bit.
- Small sledge hammer for driving spikes.

1. Position the Zebra in the desired location and position. Using the three (3) holes molded into the Zebra as a template, with chalk or the drill bit, mark the pavement at each hole.
2. Remove the Zebra. Using a high-speed hammer drill and a 7/16" masonry bit, drill a hole through the asphalt at each marked location to avoid fracturing the asphalt with the spike. With a broom or leaf blower, blow the dust and debris away from the pavement that will be under the Zebra.
3. Place the Zebra, bottom up, next to the installation position. Remove the protective 'release' paper from one side of the 4" x 30" strip of the butyl tape that was provided with your Zebra. Apply this butyl tape, centered, to the bottom of the Zebra, ensuring that it extends the complete length down the center of the Zebra. Smooth and adhere the tape to the bottom of the Zebra by hand or with a roller.
4. Make sure the pavement is thoroughly clean and dry. Remove the remaining protective 'release' paper from the butyl adhesive on the bottom of the Zebra. Align the holes in the Zebra with the holes you drilled in the pavement and lower the Zebra into position. Press down with firm hand pressure.
5. Starting with the center hole, drive the spikes through the Zebra and into the drilled hole until the spike is snug against the counter bored surface of the Zebra's molded mounting hole. **DO NOT DRIVE BEYOND "SNUG"**. If driven too far the spike may damage the Zebra and will void the warranty.
6. Repeat the process in the front and then in the back of the Zebra until all three (3) spikes have been driven flush with the top of the mounting holes.
7. Your Zebra came with three (3) black caps, one for each mounting hole on the Zebra. Insert these to keep water and debris from filling the Zebra's mounting holes.
8. With a utility knife, carefully trace the forward and back end of the Zebra to trim off excess butyl adhesive that extends beyond the edges of the Zebra.

Lag Bolt Method: *For Concrete or thick Asphalt only.*

Tools needed:

- High speed hammer drill with a 3/4" masonry drill bit.
- Impact wrench or heavy ratchet with 3/4" socket.

1. Position the Zebra in the desired location and position. Using the three (3) holes molded into the Zebra as a template, with chalk or the drill bit, mark the pavement at each hole.
2. Remove the Zebra. Using a high-speed hammer drill with a 3/4" masonry bit, drill a hole at each marked location to a depth of 3 1/2" below the road surface. With a broom or leaf blower, blow the dust and debris away from the pavement that will be under the Zebra.
3. Insert lag anchor into each hole in the pavement (large anchor opening on top). Tap the anchor into the hole with a hammer so that the anchors are set flush with the surface.
4. Place the Zebra, bottom up, next to the installation position. Remove the protective 'release' paper from one side of the 4" x 30" strip of the butyl tape that was provided with your Zebra. Apply this butyl tape, centered, to the bottom of the Zebra, ensuring that it extends the complete length down the center of the Zebra. Smooth and adhere the tape to the bottom of the Zebra by hand or with a roller.
5. Make sure the pavement is thoroughly clean and dry. Remove the remaining protective 'release' paper from the butyl adhesive on the bottom of the Zebra. Align the holes in the Zebra with the holes you drilled in the pavement and lower the Zebra into position. Press down with firm hand pressure.
6. Slip a washer onto a lag bolt, insert the bolt through the center mounting hole in the Zebra and tighten the bolt about three quarters of the way with the 3/4" socket. Repeat the process in the front and then in the back of the Zebra. Then, go back and tighten all three (3) lag bolts until they are tightened snug against the counter bored surface of the Zebra's pre-molded holes. **DO NOT DRIVE OVER TIGHTEN**. Over tightening may damage the Zebra and will void the warranty.
7. Your Zebra came with three (3) black caps, one for each mounting hole on the Zebra. Insert these to keep water and debris from filling the Zebra's mounting holes.
8. With a utility knife, carefully trace the forward and back end of the Zebra to trim off excess butyl adhesive that extends beyond the edges of the Zebra.