

Installation

[1] Site selection, placing barriers

Place surface-mounted spike barriers:

- **On flat surfaces**, made of concrete or asphalt.
- Where the **max speed of travel is 10mph or less**.
- **Away from public roads**, so unintentional damage does not occur.
- **Away from pedestrian areas**, or restrict pedestrians from the area.
- **90 degrees to the flow of traffic**, so that unintended tire damage does not occur.

Locate your ROADSHARK installation hardware. Prepare surface by removing any debris. Place the ROADSHARK barriers into the exact location they will be permanently installed to, placing all barrier modules directly beside each other with no gap.

Make sure the blades are facing the correct direction before installing.



[2] Remove lock-down bolts, then cover plates

Remove the center lock-down bolt from each unit with a 3/4" socket. **Keep this bolt to lock down the blades later, if desired.**

Remove the **cover plate bolts** and name plates using an impact drill with a 3/4" socket. Remove the cover plate to expose the mounting holes.

[3] Drill pilot holes, install anchor bolts

Using a **3/8" drill bit with a hammer drill** (if available), or a standard drill, create pilot holes for the anchor bolts. Using the mounting holes as a guide, drill to 4.25" depth.

After drilling all pilot holes, **clear out any dust/debris** that would obstruct installation hardware. Then, using an impact drill with a 3/4" socket, install the anchor bolts.



[4] Secure cover plates, install accessories

Once the cover plates are reinstalled, install beveled end caps if applicable. Place signage and nighttime illumination to **inform drivers about potential tire damage**.

The barrier is now ready for normal use.

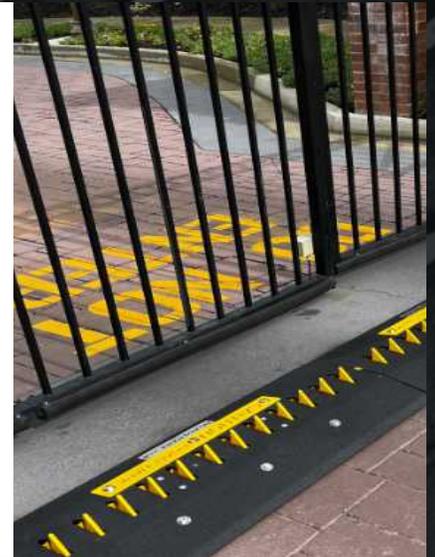
Maintenance guide 

Maintenance

Maintenance Schedule

After installation, periodically inspect barriers to ensure proper functionality. During the first month of usage, **weekly inspection** is recommended.

Task	Frequency
Spring replacement	3-6 months (depending on usage)
Remove cover plate and clear debris/dirt with air blower or pressure wash	3 months
(Optional) Apply waterproof grease to axle bushings and springs for smooth operation and longevity	6 months (or when new springs are installed)
(Optional) Clean blades and exterior with low pressure water	1 month



Spring Replacement

1. Remove cover plate.
2. Rotate axle so that blades point upwards.
3. Remove old spring and replace with new spring.*
4. Re-install cover plate.

*Note: The springs for the left side and right side are different, and will only be installable to the correct side.

Generally, "SM" model units should have 2 springs, one on each side of the unit. "TT" (TigerTeeth) only require one spring (on either side) for proper functionality.

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