

## **TECHNICAL SERVICE** Bulletin

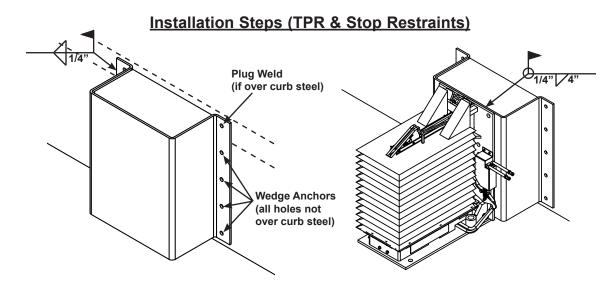
Date: 1/22/18

TSB # 18-047

## **Restraint Cantilever Bracket Install**

Poweramp, McGuire and DLM transport vehicle restraints are designed for flexible mounting options to meet customer needs. In some situations, a cantilever bracket may be required to maintain a mounting surface for the restraint while spacing the vehicle restraint off of the exterior wall. This TSB provides an overview of installing these cantilever brackets.

**Note:** Systems, LLC can provide vehicle restraint cantilever brackets in various projections and configurations to meet specific customer install requirements. Kits including all necessary hardware are also available. A generic cantilever bracket is shown to provide an example.



- 1. Locate cantilever bracket at desired location on dock face. Space bracket 1/2" above drive apron.
- 2. Using the cantilever bracket back plate as a guide, drill all holes for wedge anchors (3/4" x 5-1/4" minimum), then install wedge anchors. Torque to manufacturer's specs.
- 3. Apply a continuous 1/4" fillet weld and plug weld mounting holes where cantilever bracket meets curb steel.
- 4. Mount vehicle restraint to cantilever bracket:
  - **TPR restraints**: Position roller track on cantilever bracket, spaced 1/2" above the drive. Stitch weld restraint track to cantilever bracket with 4" long, 1/4" fillet welds. Plug weld all restraint mounting holes to cantilever bracket.
  - **PowerStop/Stop-Tite restraints**: Position restraint back plate on cantilever bracket, with floor plate resting on drive. Stitch weld restraint to cantilever bracket with 4" long, 1/4" fillet welds.
- 5. Continue with vehicle restraint installation per instructions in Owner's/User's Manual.



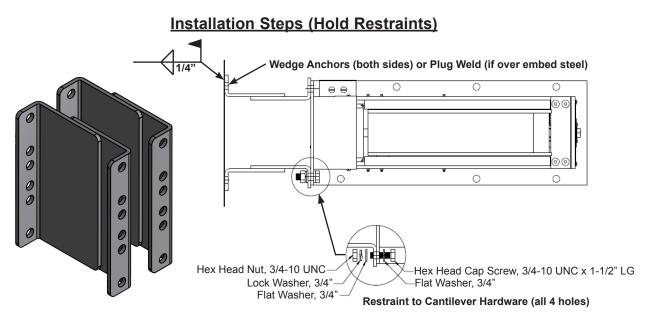
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## **Restraint Cantilever Bracket Install (continued)**

**Note:** Systems, LLC can provide vehicle restraint cantilever brackets in various projections and configurations to meet specific customer install requirements. Kits including all necessary hardware are also available. A generic cantilever bracket is shown to provide an example.



- 1. Bolt vehicle restraint to cantilever brackets using all four (4) available holes.
- 2. Locate assembly at desired location on dock face.
- 3. Using the cantilever brackets as a guide, drill all holes for wedge anchors (3/4" x 5-1/4" minimum), then install wedge anchors. Torque to manufacturer's specs.
- 4. Apply a continuous 1/4" fillet weld on outer perimeter and plug weld mounting holes where cantilever bracket meets embedded mounting plate.

**Note:** A minimum of eight (8) holes must be either anchored or plug welded to the dock face.

5. Continue with vehicle restraint installation per instructions in Owner's/User's Manual.