

HYDROCHAIN™ TRITON CHAMBER SUPPLEMENTAL INSTRUCTIONS

NOTE TO CONTRACTING INSTALLER: Before beginning the installation, read through this entire document as well as the HydroChain Triton Chamber Installation Manual. It is the contractor's responsibility to ensure that these procedures are followed.

SECTION 1: INTRODUCTION

1. These instructions relate to the cutting of chambers and end caps for correct piping installation when the piping diameter does not allow using a hole saw.
2. It is the responsibility of the project owner and the installing contractor performing the installation to understand and follow all requirements contained in this document (the edition in effect at the time of installation), and to comply with all federal, state or provincial, and local safety regulations that apply.

NOTE: The presence of our representative does not relieve the installer of having sole responsibility for proper installation.

3. No instructions or procedures presented in this manual should be interpreted so as to put at risk any person's health or safety, or to harm any property or the environment.
4. Work must be performed according to standard industry practices applicable to this installation and product operation.
5. Work must comply with all relevant codes, regulations and standards of appropriate governmental agencies, such as:
 - construction, health, safety and environmental codes
 - industry standard practices
6. For any questions on the interpretation of these instructions or for any other technical inquiries, contact us at stormwater.eng@shawcor.com.
7. We recommend wearing the following while cutting the chambers and end caps: protective gloves, safety glasses and long-sleeve shirts.
8. We recommend having the following tools at the site to cut the chambers and end caps:
 - Black marker (to trace and label the cutting pattern) – if chambers are black, use a light-colored marker instead
 - Tape measure
 - 20V cordless reciprocating saw with bimetal tapered blade (to enable making the curved cut)
 - 20V cordless drill with a drill bit of at least .5" diameter
 - 20V cordless grinder

NOTE: Be sure you have as many drill bits and saw blades as needed for the number of chambers and end caps you will need to cut.

SECTION 2: PRODUCT UNLOADING

9. Most often, the order will arrive in an enclosed trailer, not a flatbed.
10. The chambers are delivered on pallets. Move the pallets in the trailer to the trailer door by using either a rope or pallet jack.

11. Use a forklift with 60" forks to move the pallets on the ground.

NOTE: Insert the forks into the pallet, not through the stretch wrap around the chambers.

SECTION 3: CUTTING THE TRITON CHAMBERS

12. Determine the diameter of piping that will be installed and use the tape measure to locate the ring in the cut guide that fits that pipe diameter. **See IMAGE 1.**



IMAGE 1

13. Trace the ring with the marker. **See IMAGE 2.**



IMAGE 2

14. On the sides of the ribs, the cut has to be a horizontal line parallel to the ground. **See IMAGE 3.**

NOTE: On the top of the rib, the cutting pattern is an arc, but if the sides of the rib are not cut correctly, the piping hole will not be cut correctly.



IMAGE 3

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15. Drill a hole at each of the 8 points of intersection. **See IMAGE 4.**



IMAGE 4

16. Using the reciprocating saw, make the first cut, which is a horizontal parallel cut on the top right of the cut guide.
17. Then use the tip of the blade cut down to intersection.
18. The next cut has to be parallel to the way the pipe comes into the system in order to avoid a gap. **See IMAGE 5.**



IMAGE 5

19. Continue to cut from intersection to intersection until the piping hole is completely cut out. **See IMAGE 6.**



IMAGE 6

20. When you remove the cut-out portion of the chamber, use the black marker to note the top and bottom of the cut-out.

NOTE: This cut-out from the first chamber cutting becomes the template for cutting remaining chambers with the same piping diameter. See IMAGE 7.



IMAGE 7

21. Use a cordless grinder to remove any raised or uneven spots on the chamber cut that could impede the pipe being installed correctly.
22. For each subsequent same-diameter hole needed, place the template over the cut guide (matching top and bottom) and use it as a guide for tracing the correct cutting pattern.
23. Use the above procedure to cut out each subsequent piping hole.

SECTION 4: CUTTING THE END CAPS

24. Create a "table" for cutting the end caps by removing the slats from the pallet platform. This will allow you to keep the end cap flat while cutting.
25. Lay an end cap on the table and use the same procedure as above to determine the correct cut guide and cut the initial invert piping hole.
26. Use the chamber-cutting procedure above to drill holes wherever there is a transition between a flat surface and a vertical surface, and to cut out the end cap piping hole.
27. Once you cut the first end cap, use that cut-out portion as the template for other end cap same-diameter piping holes