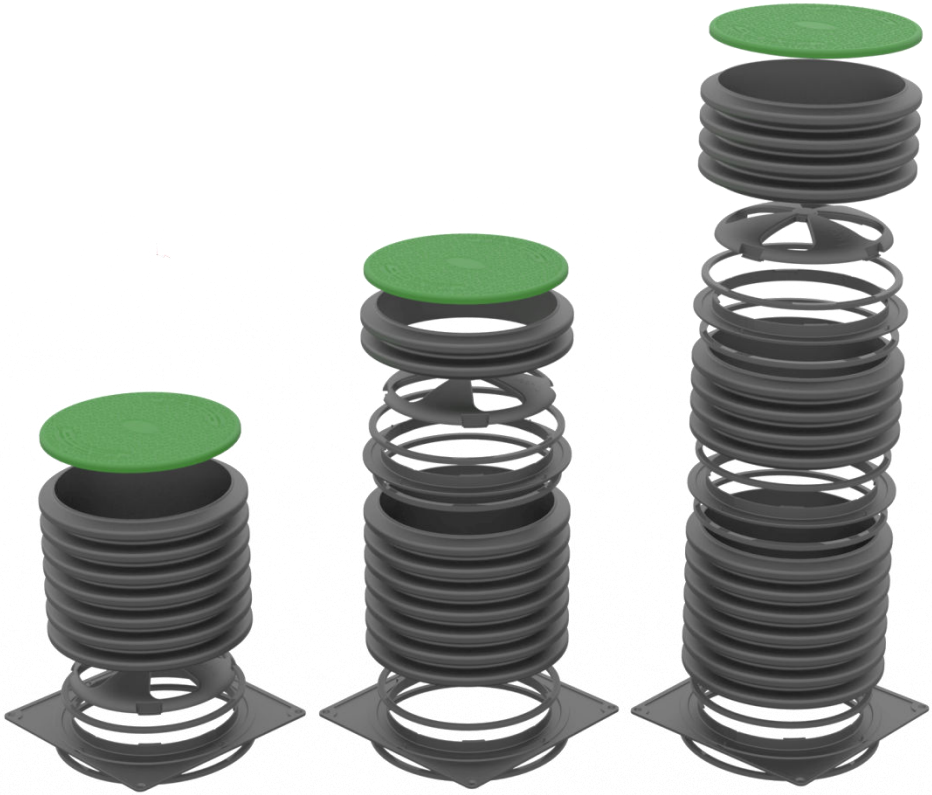
Installation Guide
For
Aero-Stream® Septic Tank Riser Kits



For additional assistance please contact us at:

Technical Support
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OR
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P/N 103173 Rev. B

Critical Safety Warning:

Always securely attach cover to riser by installing and tightening the (4) screws using the appropriate driver tool. Cover must be checked after each tank servicing. Cover must be inspected regularly for damage and security. The secondary safety barrier must be securely fastened in place at all times. The safety barrier must only be removed to gain entry into the tank by a properly credentialed professional donning appropriate safety gear.

Do not stack riser pipe higher than 50" without the consultation of a qualified engineer.

Aero-Stream kits are not rated or certified for vehicular and/or lawn utility equipment. ***Minor foot traffic only*** is recommended.

Permits:

Prior to the installation of the product, the installer must obtain any and all required State and local permits. The installer must strictly comply with all pertinent State and local requirements. Failure to comply with these requirements is a violation of state and municipal codes.

Tools Required:

- Safety Gloves/Glasses
- Utility Knife
- Electric Drill (hammer drill recommended)
- #3 Phillips head driver bit
- 5/32" drill bit (carbide tip if septic tank is concrete)

IMPORTANT! Use sanitary gloves when working with septic system components, installing equipment into the septic system or handling any equipment that has come into contact with septic effluent. Wear protective eye gear at all times during the installation process.

CAUTION: INSTALLER AND SERVICE PERSONNEL MUST PLACE THIS GUIDE IN PLASTIC POUCH AND ENSURE IT IS ATTACHED TO SAFETY BARRIER.

Installation Video:

An installation video overviewing the assembly of our kits can be viewed at www.Aero-Stream.com. This video is only a high-level description on how the riser is to be installed. Please always follow the illustrated installation guide that is shipped with the product for specific instructions regarding the assembly process.

Overview of Aero-Stream® Septic Tank Riser Kit

Figure 1 illustrates typical construction of septic tank riser kits 6” – 18” tall.

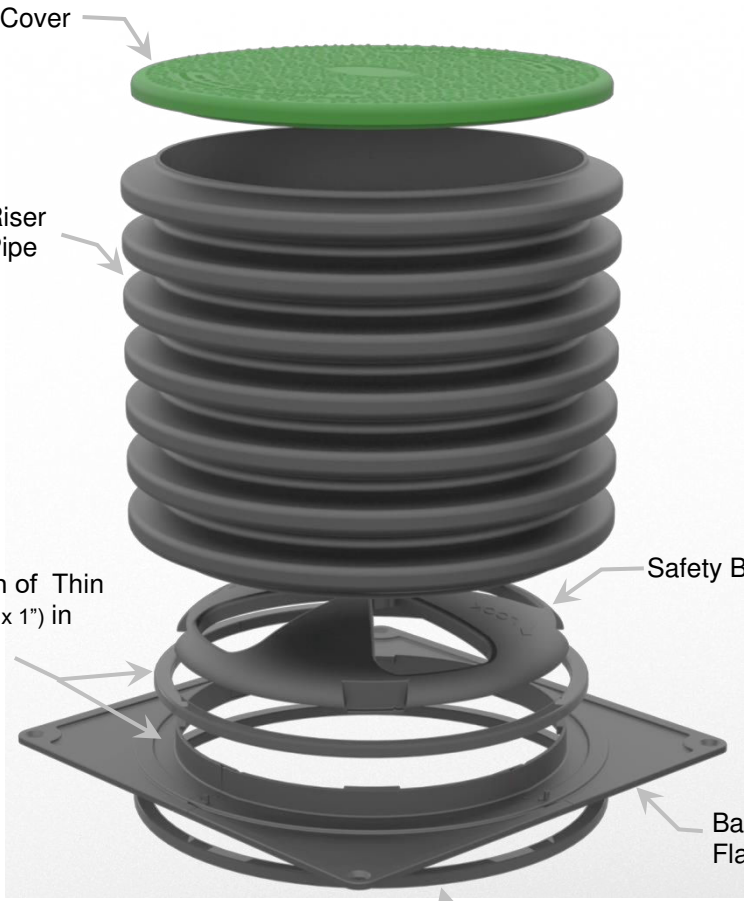


Figure 2 illustrates typical construction of septic tank riser kits 20” – 38” tall.

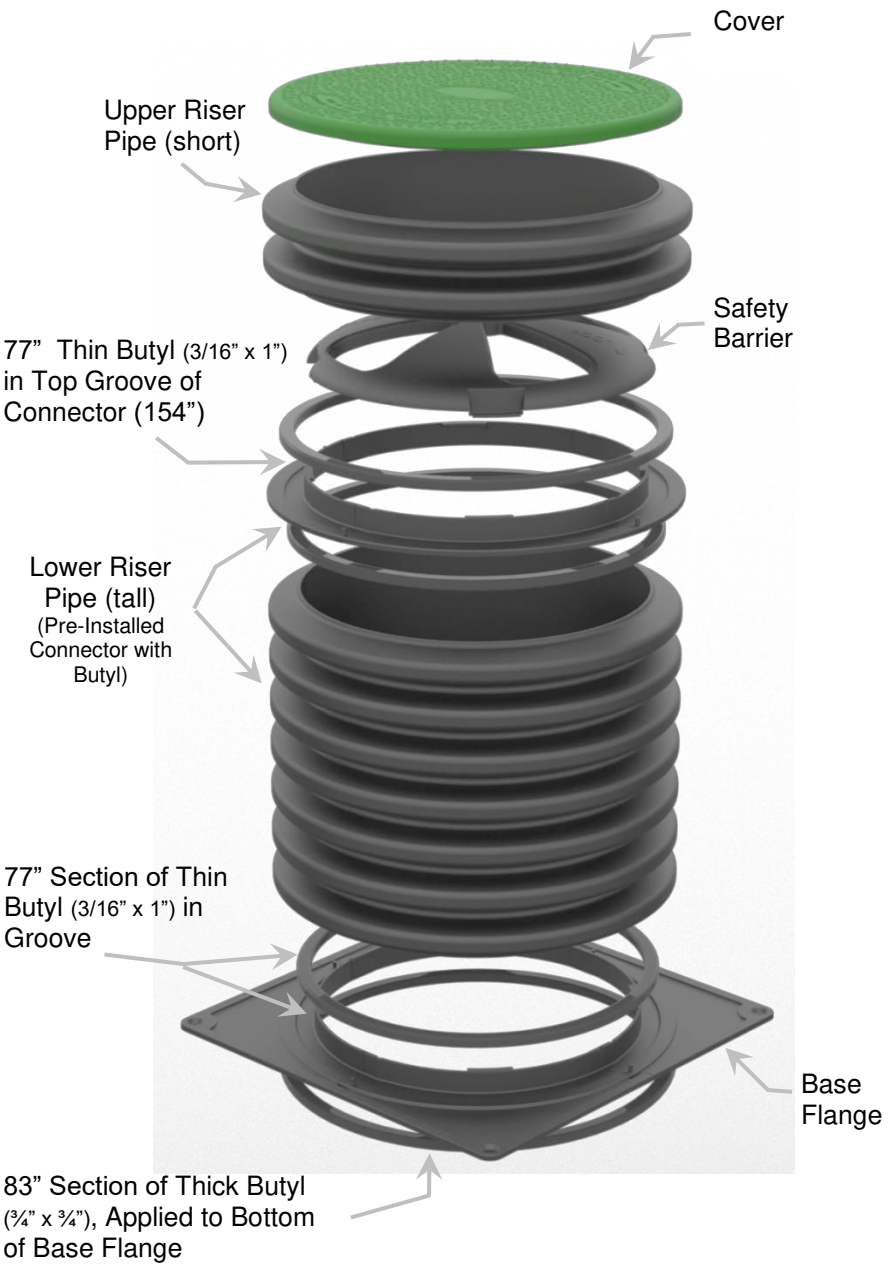
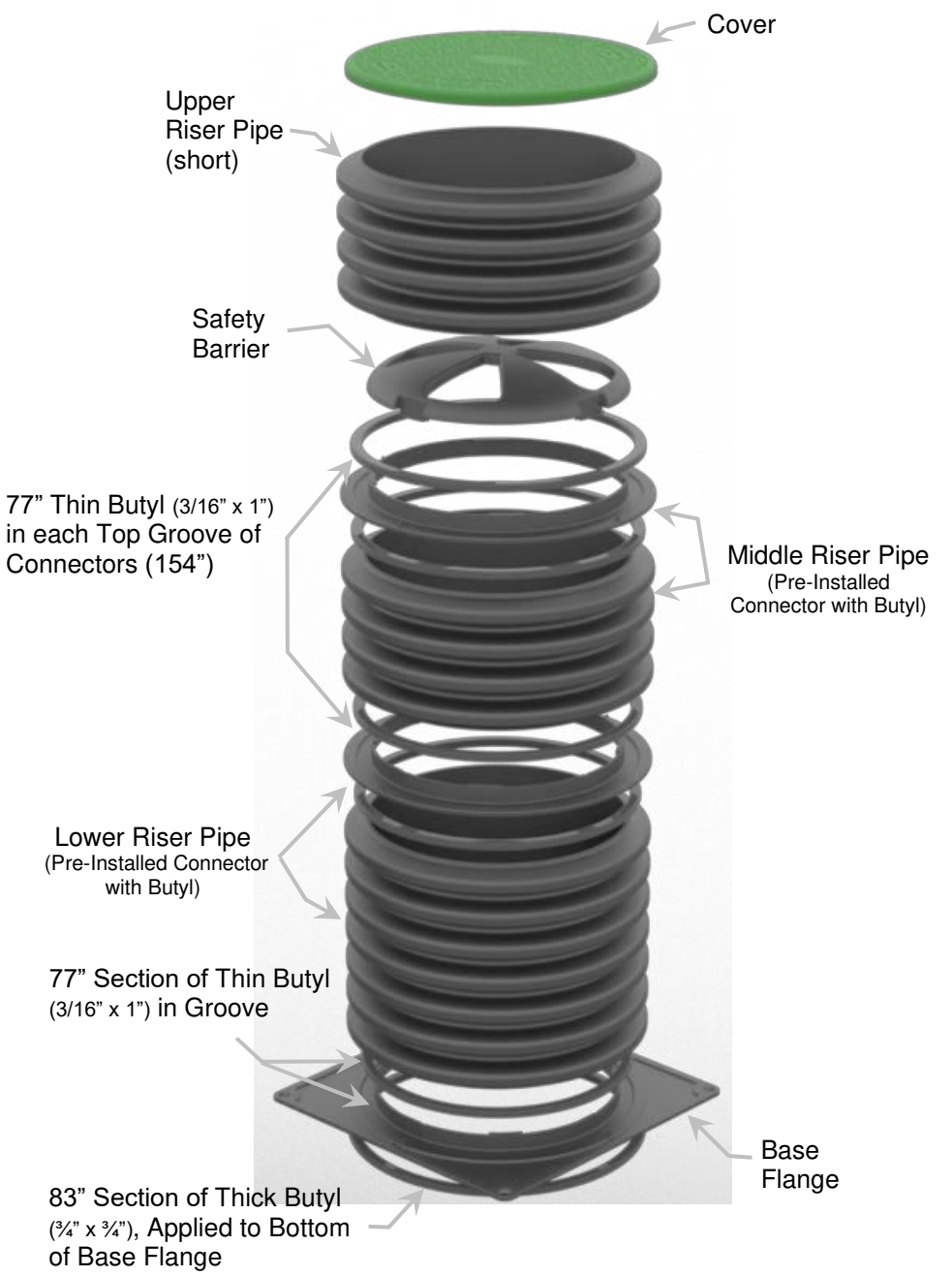


Figure 3 illustrates typical construction of septic tank riser kits 44” – 50” tall.



Orientating Pipe during Installation:

Depending on the model purchased, the pipe section(s) with your kit may contain a ***corrugation cut*** *(Fig. 4)* and ***bell end*** (Fig. 5). For riser assemblies containing a bell cut style, ensure the **bell end** is installed downward (Fig. 6), facing the base flange, or connector (assemblies >20”). For pipe sections with a corrugation cut on each end, either side can be positioned downward (Fig. 1-3).

Figure 4: Corrugation Cut

Figure 5: Bell End

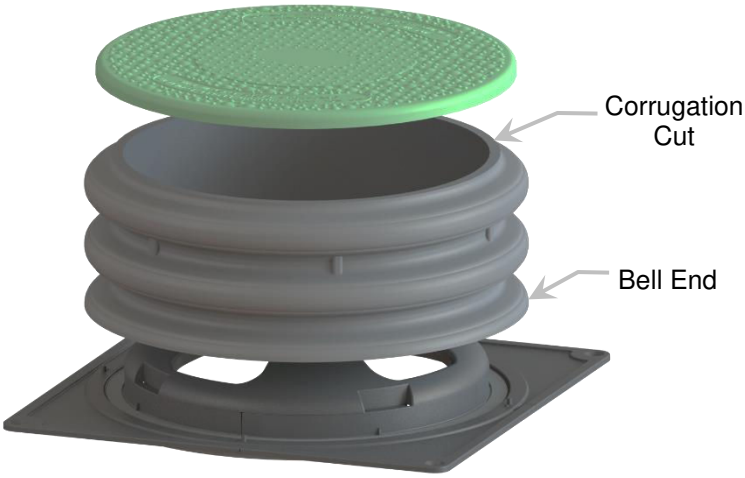


Figure 6: Bell End Installation

The Installation Process:

Installation must be performed by person possessing mechanical competence.

1.) Assemble base flange by interlocking the four sections as shown in Fig. 7 below:

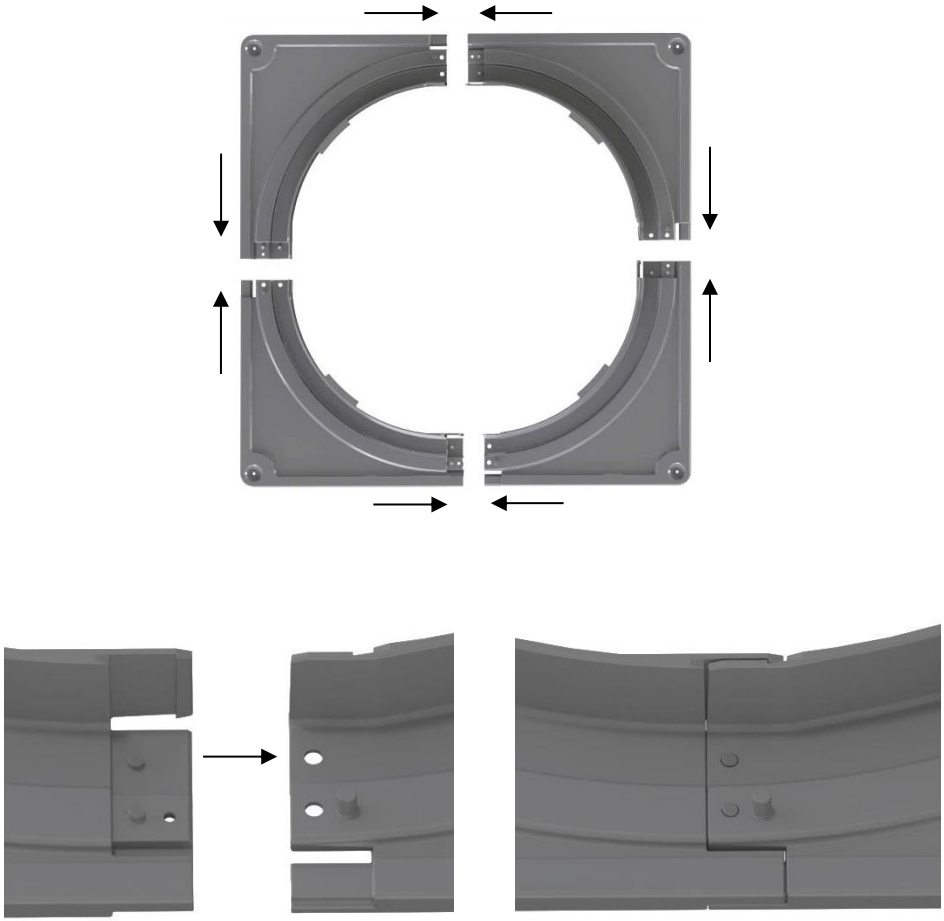


Figure 7: Assembly of base flange

2.) With the backing tape upward, apply approximately 77” of thin butyl (3/16” x 1”) around the perimeter of the base flange where the riser pipe will meet the flange (Fig. 8). Overlap and knead the ends of the butyl together to ensure a water-tight seal.

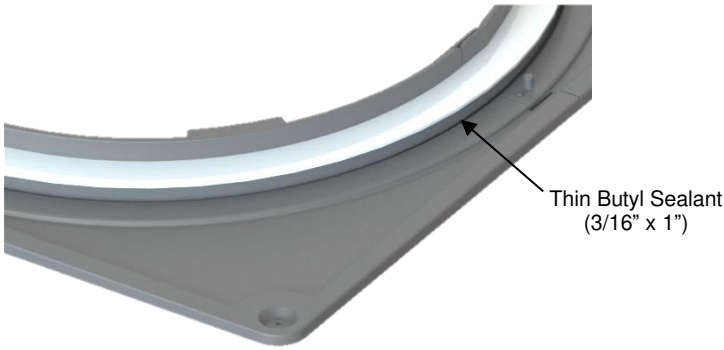


Figure 8

3.) Remove the backing tape from the sealant rope and discard the tape.

4.) Center the riser pipe on the base flange so the gap is even all of the way around. Do not apply downward pressure while adjusting the gap. When the even gap is reached, lightly lower the riser pipe onto the butyl. As required, make final adjustments, and apply firm downward pressure to seat the riser pipe into the butyl. Apply the pressure all around the riser pipe every 30 degrees.

5.) Locate the four (4) mounting dimples on the inside perimeter of the base flange (Fig.9).

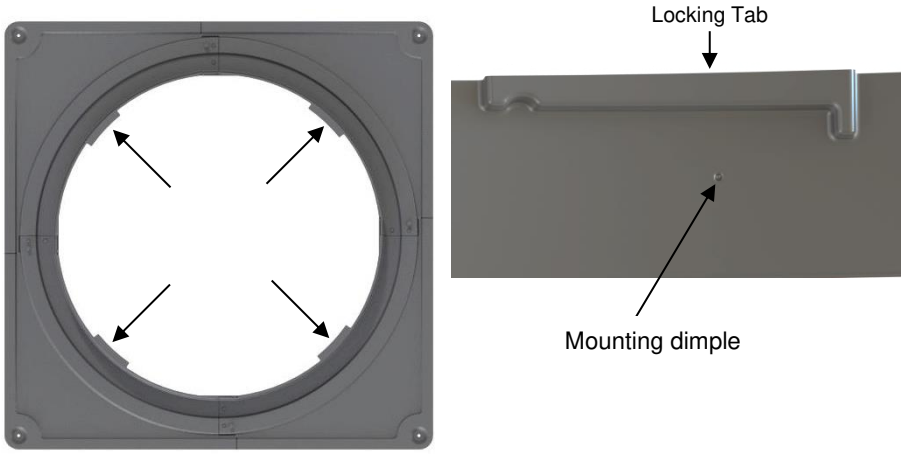


Figure 9: Locate four mounting dimples

6.) Install four (4) provided #12 x 1” screws into mounting dimples to attach the base flange to the riser pipe. Drive the screws until the head makes contact with the base flange & slightly compresses the flange (Fig 10.) & (Fig 11). There should be a visible gap (approximately 1/2”) all around, between base flange & pipe once installed. OPTIONAL: Mounting dimples can be pre-drilled with 1/8” bit to facilitate screw installation.

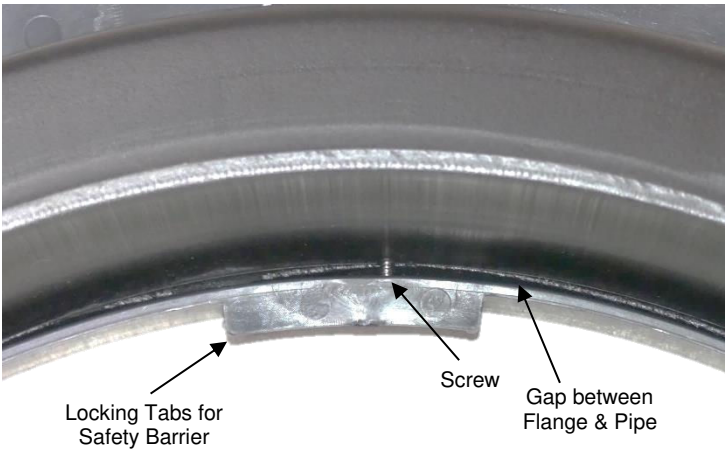


Figure 10: Screw installed (Top down view)

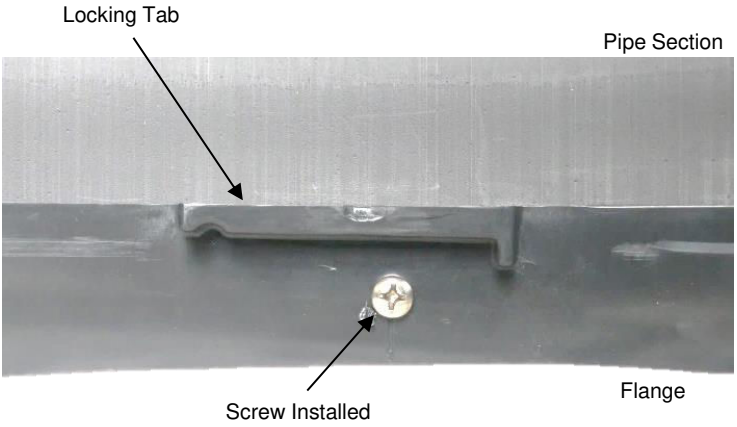


Figure 11: Screw installed (Side view)

Repeat steps 2 – 6 for each pipe section for risers 20” tall and greater.

How to Install the Safety Barrier:

7.) ***Locate the four mounting tabs on the safety barrier (Fig. 12). Insert the safety barrier into the locking tabs on base flange (Fig 11), (Fig. 12) & (Fig. 13). Barrier mounting tabs may require individual adjustment and alignment while seating the barrier onto flange. Note the barrier can bend slightly to accommodate for manufacturing tolerances. Once positioned, apply downward pressure to center of barrier.***

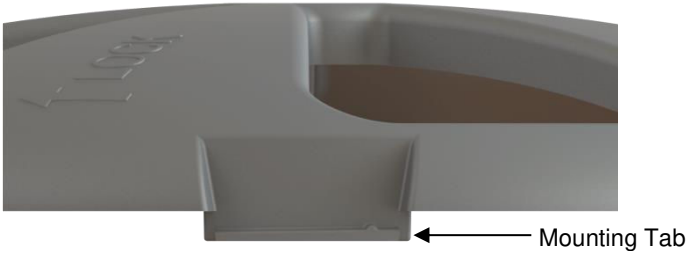


Figure 12

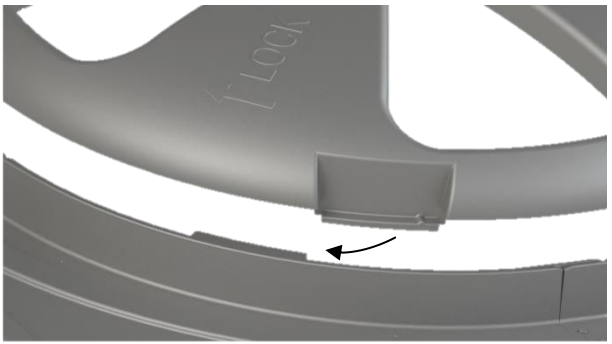


Figure 13: Inserting Safety Barrier

8.) ***Confirm all four mounting tabs are positioned adjacent to all four locking tabs. Rotate the safety barrier clockwise, the direction the "LOCK ARROW" points. A slight rap with the palm of the hands in the safety barrier triangular openings will seat the safety barrier in place.***

9.) ***Grasp the center of the safety barrier and pull upward. It must not dislodge from the assembly. If any of the mounting tabs are not engaged with the locking tabs, remove the safety barrier and repeat step 7 through step 9 until the safety barrier is secure.***

WARNING: FAILURE TO PROPERLY ENGAGE THE SAFTEY BARRIER WILL DEFEAT THE SAFETY FEATURE OF THE DEVICE!

Mounting the Riser Kit:

10.) Expose and clean a 32” x 32” square area on the top of the septic tank centered on the clean-out opening on the tank.

Figure 14

11.) With the white tape upward, apply 83” of thick butyl (3/4”) around the bottom of the base flange, overlapping and kneading the ends of the butyl together (Fig. 15). Remove the white tape from the sealant rope and discard the tape.

Figure 15

Due to variations in tank opening sizes, the butyl sealant may need to be stretched and can applied to any location on the underside of the base flange to provide watertight seal.

12.) Center the riser assembly on the tank clean-out opening and apply pressure around the perimeter of the base flange above the butyl to compress sealant between the tank and the base flange.

13.) Drill (4) 5/32” diameter holes through the four corners of the base flange (Fig. 16) at least 2” deep into the tank. If the tank is made of concrete, use a carbide tip masonry bit.

Warning: Ensure holes are free of debris *otherwise fastener failure may occur*

14.) Fasten the base flange to the tank using four (4) provided 3/16” X 1 ¾” blue masonry screws (Fig 16).

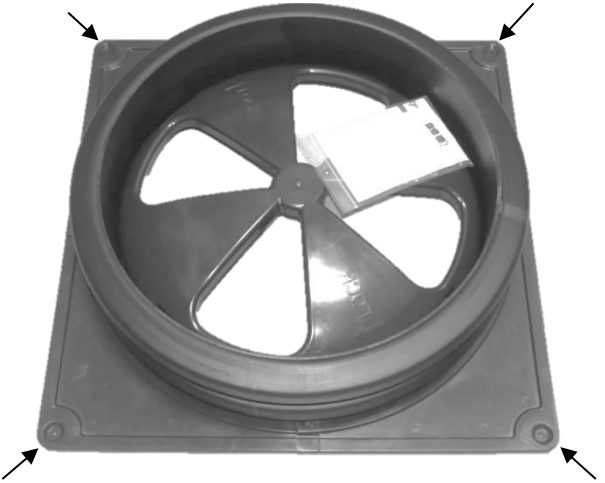


Figure 16: Mounting Base Flange

15.) Backfill around riser with sand or washed stone to prevent movement from frost if applicable in your climate.

16.) Install four (4) cover security screws (riveted to underside of cover during shipping) and tighten (2 in-lbs.) with appropriate driver tool to secure riser cover to riser pipe (Fig.17)

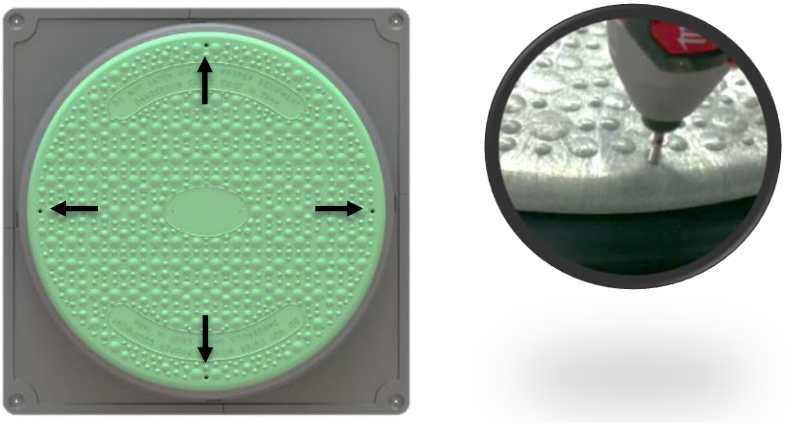


Figure 17: Cover installed