Installation Guide
For
Aero-Stream® Septic Tank Riser Kits

Technical Support:

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P/N 102368 Rev. N

Critical Safety Warnings:

Always securely attach cover to riser by installing and tightening the (4) screws using an appropriate driver tool. Cover must be checked after each tank service. 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.

UV Exposure:

Our covers are manufactured using the highest quality UV inhibitor package available to ensure superior resistance to sunlight degradation. However, prolonged exposure to UV radiation will inevitably cause some degree of fading or color change over time. The rate and extent of fading will vary depending on factors such as geographic location, sun intensity, and duration of exposure.

To restore the original appearance, the cover may be recoated using Krylon® Fusion for Plastic – Spring Grass (Part No. K02724007) or an equivalent product suitable for outdoor plastic applications.

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.

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

Before the Installation:

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 can be installed. Assembly processes may differ for your specific model. Please **always** follow the illustrated installation guide that is shipped with the product for specific instructions regarding the assembly process.

Installation / Application Temperature:

Installation can be performed in outdoor temperature ranges of 20°F to 120°F. The butyl sealant begins to soften in temperatures ≥70°F. Store the butyl sealant in a cool, dry environment prior to installation.

Tools Required:

- Safety Gloves AND 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.

Contents

Overview of Aero-Stream® Septic Tank Riser Kit

Figure 1 illustrates typical construction of septic tank riser kits 7” – 19” tall.

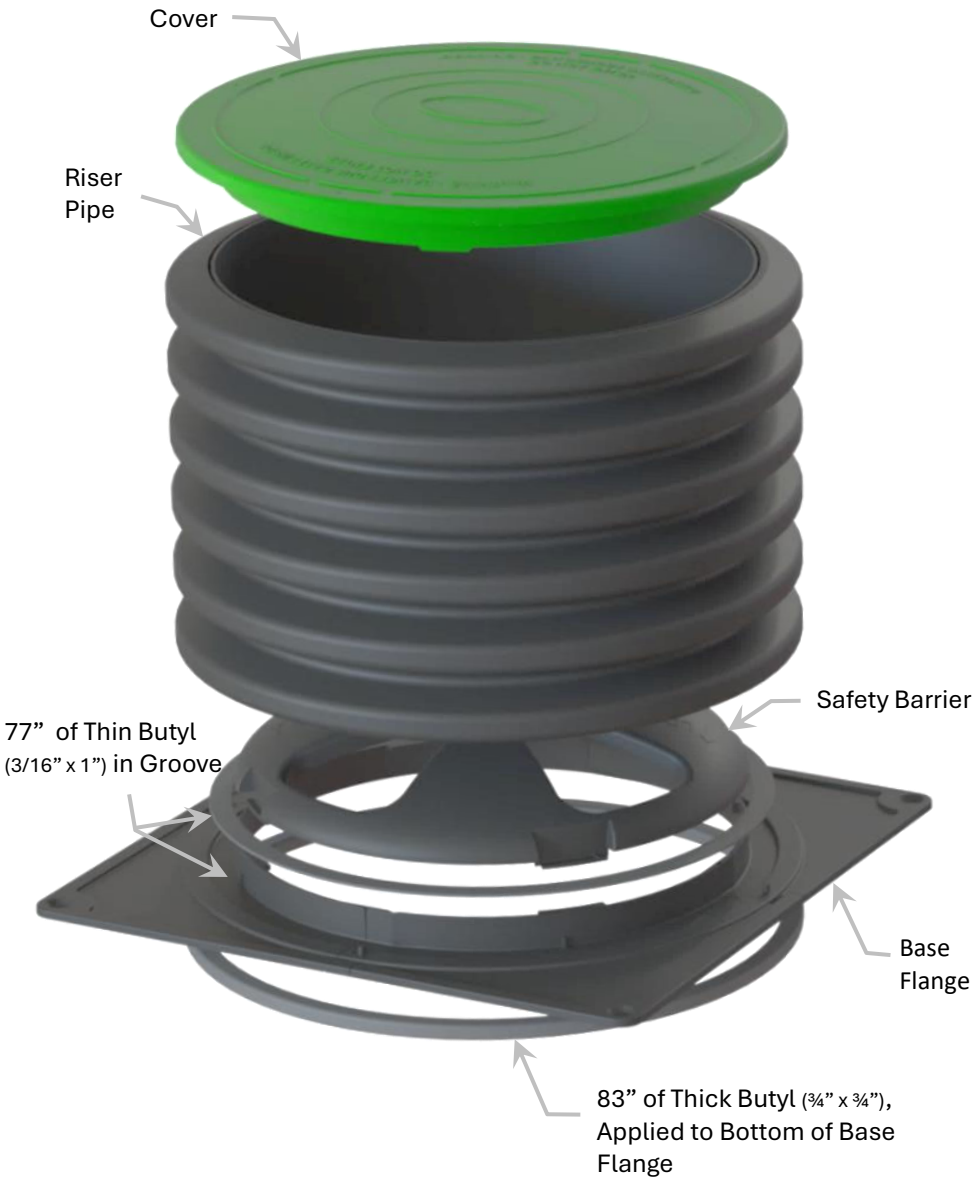


Figure 2 illustrates typical construction of septic tank riser kits 23” – 35” tall.

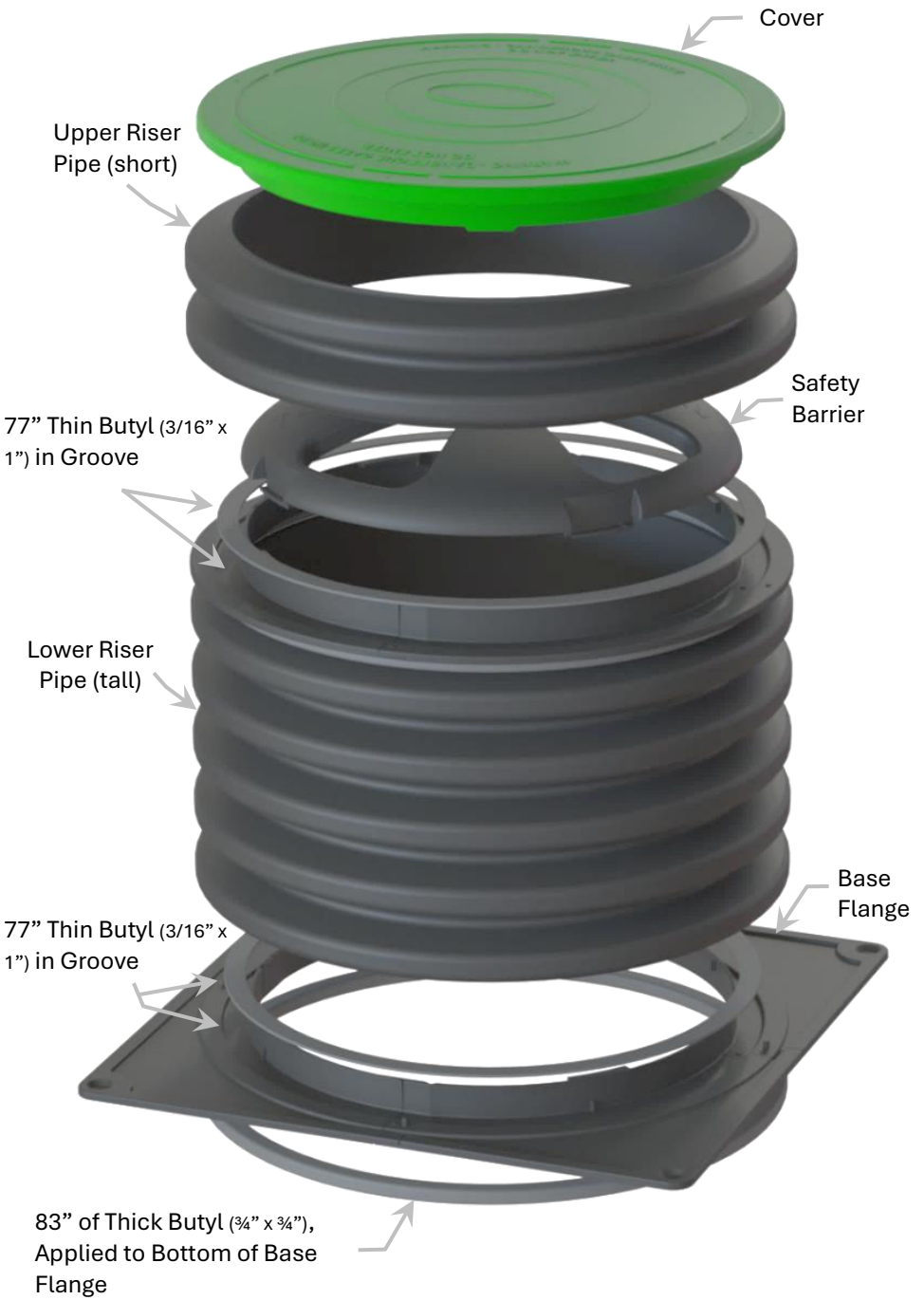
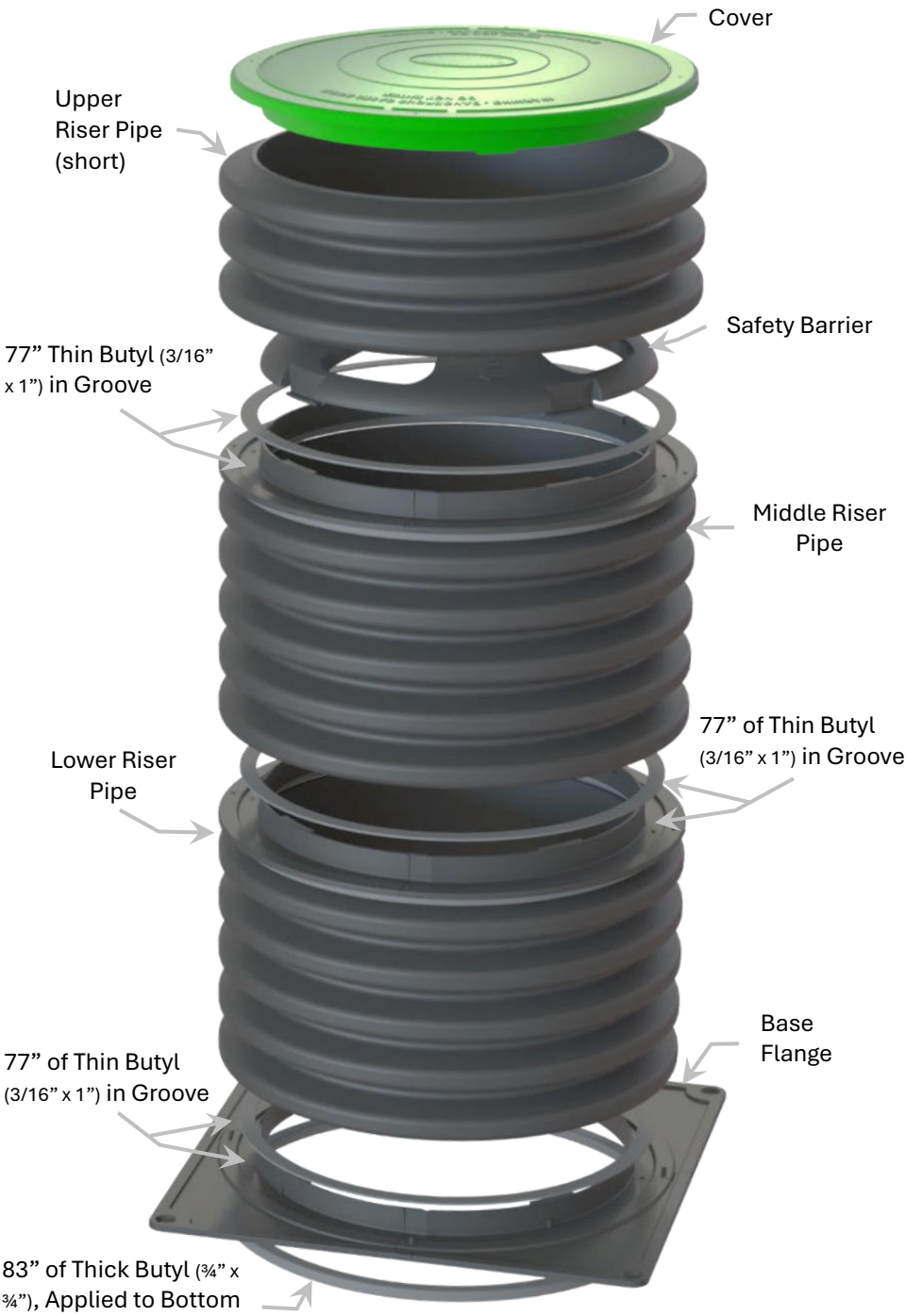


Figure 3 illustrates typical construction of septic tank riser kits 38” – 50” tall.



Assembly Process:

Installation must be performed by person possessing mechanical competence.

1.) Assemble base flange by interlocking the four sections as shown in Fig. 4 below:

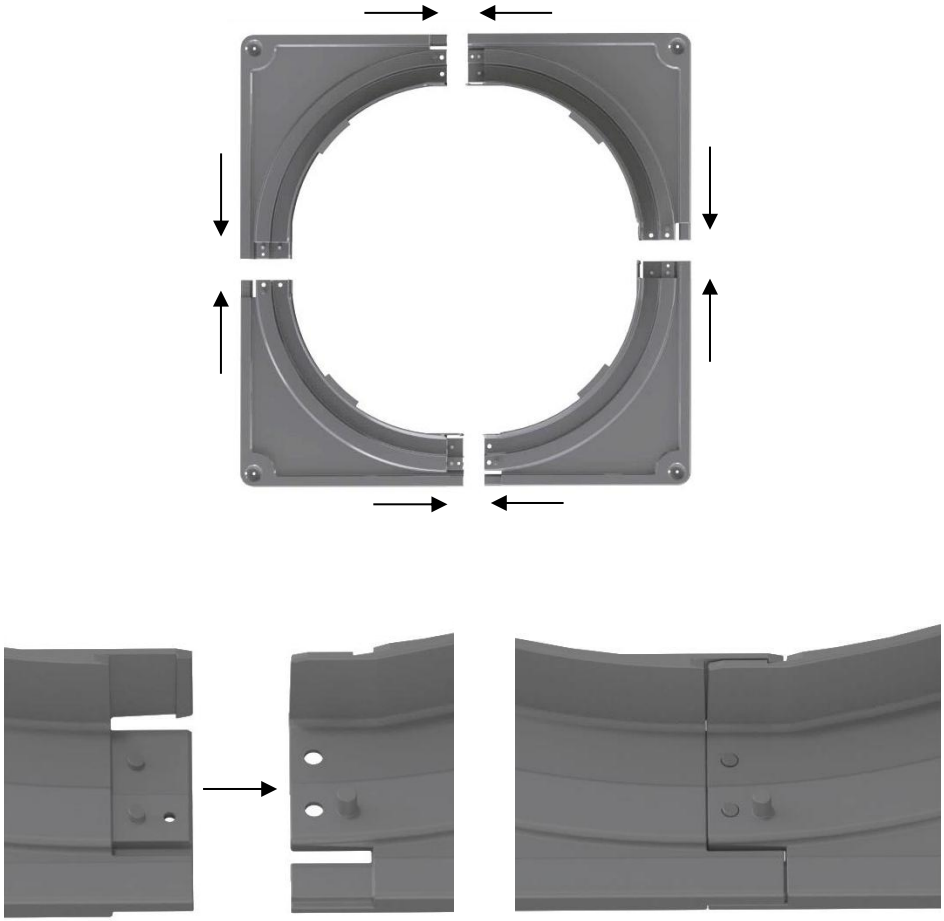


Figure 4: Assembly of base flange

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. 5). Remove the tape as you apply the butyl around the perimeter, and slightly stretch butyl. Overlap and knead the ends of the butyl together to ensure a water-tight seal.

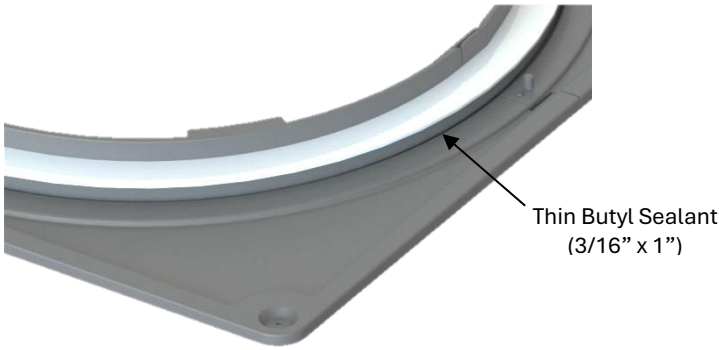


Figure 5: Applying butyl into groove

3.) Remove remaining backing tape from the butyl and discard.

4.) Center the riser pipe on the base flange so the gap is even all the way around. Do not apply downward pressure while adjusting the gap. When even gap is reached, 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.6).

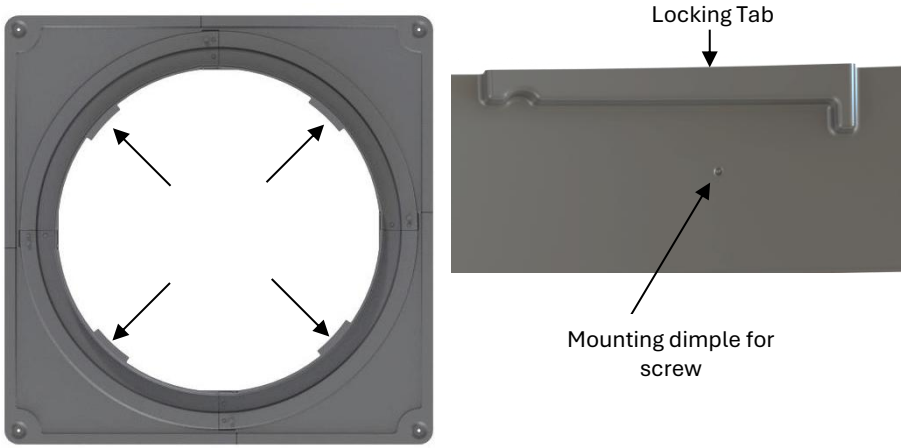


Figure 6: Locate four mounting dimples

6.) Install four (4) provided #12 x 3/4” 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 7.) & (Fig 8). 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.

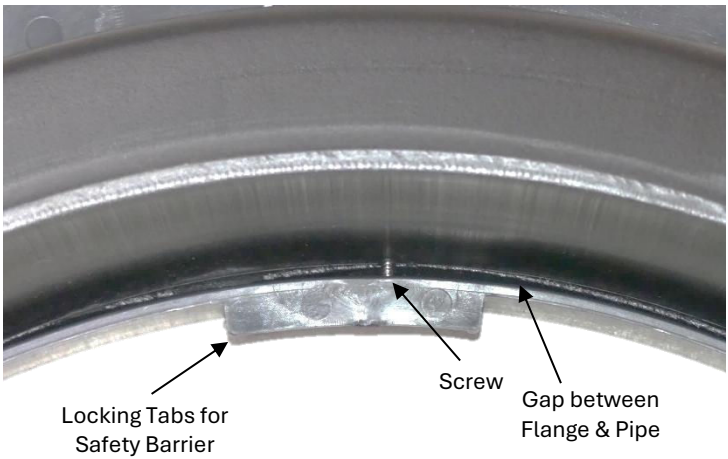


Figure 7: Screw installed (Top down view)

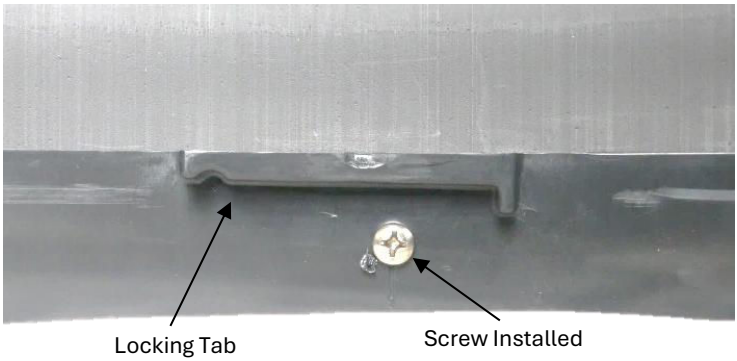


Figure 8: Screw installed (side view) attaching base flange to pipe.

Repeat steps 2 – 6 for each pipe section for risers 23” tall and greater. Pipe sections are stacked to achieve overall height. Note the install location for safety barrier. Reference (Fig. 2) and (Fig. 3).

Installing Safety Barrier:

7.) **Locate the four mounting tabs on the safety barrier (Fig. 9). Insert the safety barrier into the locking tabs on base flange (Fig 8), (Fig. 9) & (Fig. 10). 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.**

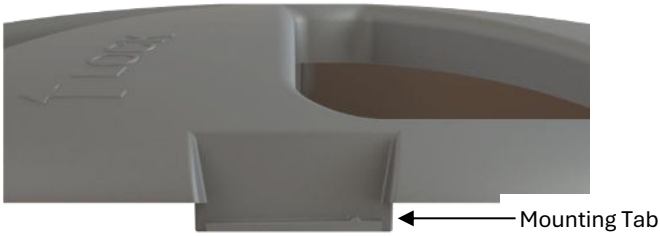


Figure 9: Locate Mounting Tab

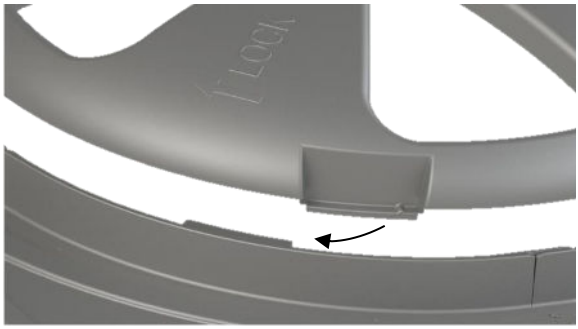


Figure 10: Installing Safety Barrier

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. Brush off sediment and dry surface as much as possible.

Figure 11: Prepping Tank Surface

11.) With the backing 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. 12). Remove the white tape from the butyl and discard the tape.

NON-CIRCULAR OPENINGS: DUE TO VARIATIONS IN TANK OPENING SIZES, THE BUTYL SEALANT MAY NEED TO BE **STRETCHED,** AND CAN BE APPLIED TO **ANY LOCATION** ON THE UNDERSIDE OF THE BASE FLANGE TO PROVIDE WATERTIGHT SEAL.

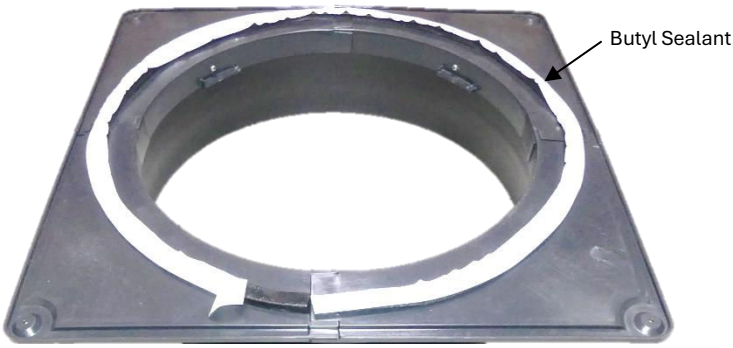


Figure 12: Butyl Sealant Install for 24 in. Circular Opening.

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. 13) at least 2” deep into the tank. If the tank is made of concrete, use a carbide tip masonry bit.

ENSURE HOLES ARE FREE OF ALL DEBRIS OR 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 13). Drive screw until screw head makes contact with base flange. DO NOT OVER TIGHTEN.

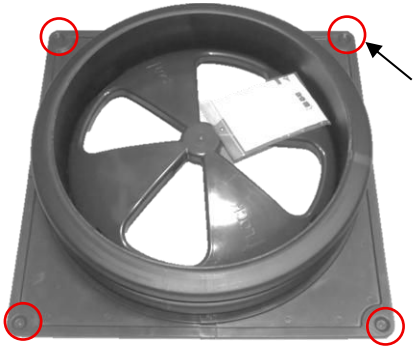


Figure 13: Masonry Fastener Location

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

Installing Cover:

16.) Locate foam gasket (Figure 14.)

Figure 14: Foam Gasket for Cover

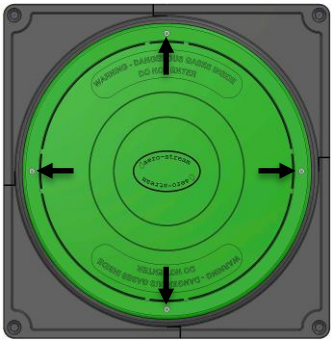
17.) Remove white tape backing from gasket and apply gasket into groove on the underside the cover, around the entire perimeter edge (Fig. 15).

Figure 15: Installing Foam Gasket

18.) Trim excess material so that the starting and ending point are tightly join up against one another. The gasket must **NOT** overlap itself.

19.) Center the cover on the pipe.

20.) Install four (4) cover security screws with washers. Set the tip into the riser pipe prior to driving the screw and point the screw inwards (towards the center of the kit). Drive until the screw/washer make contact with the cover. Drive the screw an additional ¼ turn to compress the gasket (Fig.16 & 17). **DO NOT OVERTIGHTEN.**



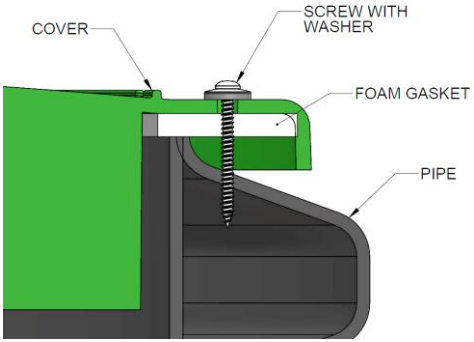


Figure 16 & 17: Securing Cover Screws

FAQs and Troubleshooting:

Do you remove the existing septic tank cover?

The existing septic cover should be removed. Our kits provide a water tight seal to the tank. The low-profile cover secures down with several screws & there's also a secondary safety barrier included as well to ensure our kits provide safe access to the septic tank.

Can I drive my lawn equipment and/or utility vehicle over the kit?

No. We recommend avoiding any substantial loads from machinery directly on the kit. The cover is designed for occasional foot traffic areas. For applications in high traffic areas the cover should be inspected every 6 months for deterioration and replaced at least every 3 years.

My opening is square/rectangular/oblong, and I can't put the butyl in the circular groove on the underside of the base flange.

The groove is meant as a general reference point for standard, 24" circular cleanouts. If your tank opening is oblong, square, or rectangular, the butyl sealant will need to be stretched and applied elsewhere on the base flange. We recommend placing the butyl sealant directly on the tank first and then lowering the assembled kit over top.

The butyl sealant is very sticky and hard to work with.

In warm temperatures the butyl sealant will soften. We recommend storing the butyl sealant in a cool dry location for at least 30 minutes prior to installation.

The pipe isn't fully seated and/or sitting flush on the base flange/connector.

This can occur if the corrugated pipe is out of round. Rotate pipe while applying downward pressure. If unsuccessful, contact Aero-Stream support.