







# AST-2922 Top Frame Retrofit

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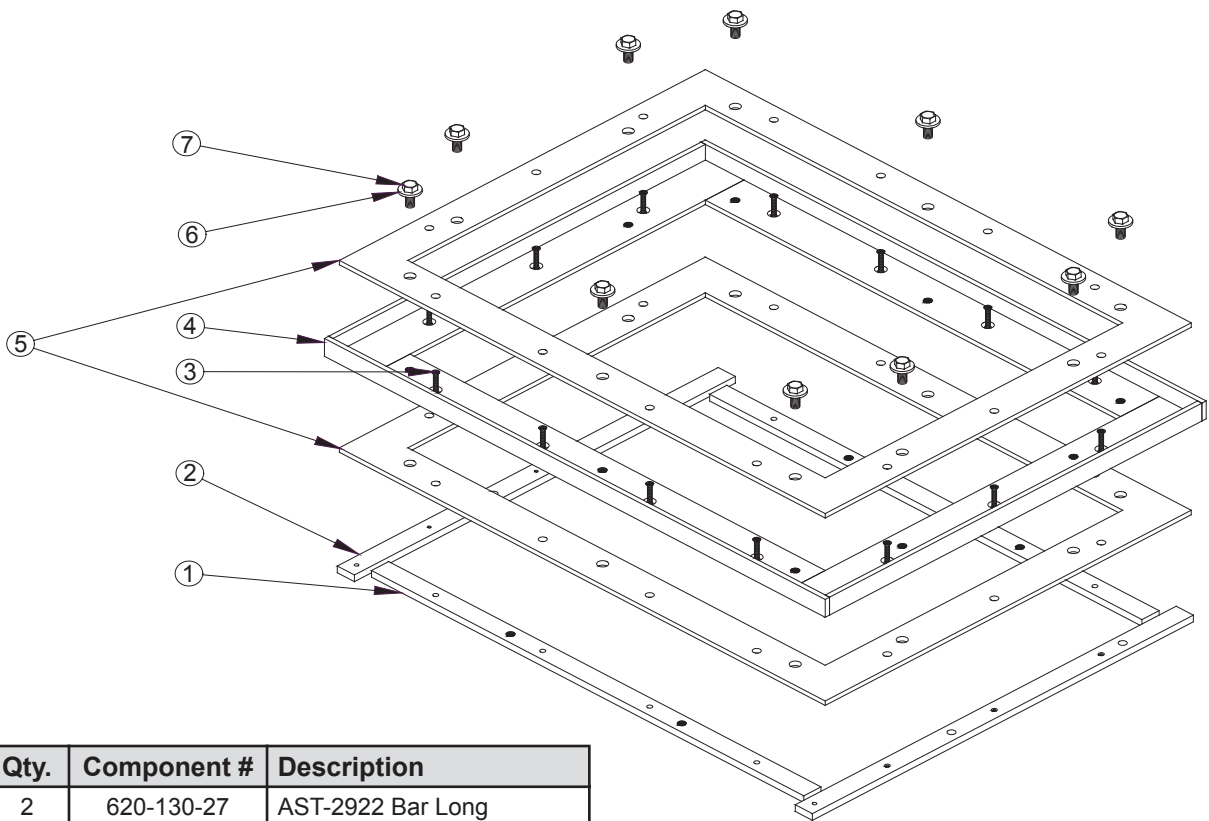
## Installation Instructions

- Warning**  Follow all federal, state and local laws governing the installation of this product and its associated systems. When no other regulations apply, follow NFPA codes 30, 30A and 70 from the National Fire Protection Association. Failure to follow these codes could result in severe injury, death, serious property damage and/or environmental contamination.
- Warning**  Before entering a containment sump, check for the presence of hydrocarbon vapors. If these vapors are inhaled they could cause dizziness or unconsciousness, and, if ignited, hydrocarbon vapors could explode causing serious injury or death. Electronic and electrical petroleum monitoring equipment is often housed in containment sumps designed to trap hazardous liquid spills and prevent contamination of the environment, and, as a consequence, containment sumps can trap dangerous amounts of hydrocarbon vapors. If these vapor levels reach unsafe amounts, exit the sump and ventilate it with fresh air before continuing work. While working in the sump, periodically check the atmosphere in the sump for unsafe vapor levels. Always have a second person standing by for assistance when working in, or around, a containment sump.
- Warning**  Always secure the work area from moving vehicles. The equipment in this manual is usually mounted underground, so reduced visibility puts service personnel working on this equipment in danger from moving vehicles entering the work area. To help eliminate these unsafe conditions, secure the area by using a service truck to block access to the work environment, or by using any other reasonable means available to ensure the safety of service personnel.
- Caution**  The part described in this document is one element of a system. All components of this system should be installed according to the manufacturer's specifications so that the system's integrity is not compromised. Test the complete system after installation according to all pertinent local, state and federal laws to ensure its proper operation. Failure to properly verify operation could lead to environmental contamination.

### **Procedure**

1. If the existing top frame of the AST (Aboveground Storage Tank) is below grade level, then the concrete in that area will need to be broken up.
2. Cut the concrete far enough away from the top frame (approximately 6 inches) so that the installer is able to work underneath the lip of the AST.
3. Remove the old hardware, composite lid and top frame from the AST.
4. Clean all of the surfaces using Acetone, Xylol or other general purpose cleaner. Scrape any remaining Bostic off of all of the surfaces.
5. Once all of the surfaces are ready, you'll notice ten large holes on the lip of the AST (two holes on each short end and three on the longer sides).
6. Start by placing the new top frame (P/N 426-150-04) over the AST and aligning the ten threaded holes in the top frame with the ten drilled holes in the AST. Center the holes as best as possible.
7. Secure the top frame to the AST using vise grips or clamps. The frame will be used as the template for the additional holes that need to be drilled.
8. Using a ¼" drill bit, drill fourteen holes into the AST at each countersunk hole location in the top frame. Remove the top frame.
9. De-burr the holes that were drilled in the previous step.
10. Place one of the supplied gaskets (P/N 999-855-53) onto the AST, aligning all of the holes that are cut in the gasket with those in the AST.
11. Place the top frame over the gasket making sure that all of the holes are aligned and that no gasket is obstructing the hole locations.
12. Four bars are included with the retrofit application, two short bars (P/N 429-110-01) and two long bars (P/N 429-110-02).
13. The short bars are used on the ends of the AST, and the long bars on the sides. The short bars will have three ¼" –20 UNC threaded holes, the long bars will have four.

14. Place the short bar underneath one of the ends of the AST and place one 1/4"-20 x 1-1/4" Phillips head SS screw (P/N 614-100-01) through the center countersunk hole.
15. Align the screw with the center hole on the bar and hand-tighten it. Repeat this for the holes on each end of the short bar.
16. Using the same method as explained in the two previous steps, continue attaching the short and long bars with screws around the top frame until all fourteen screws are loosely hand-tightened.
17. There should be no interference between the ends of the four bars underneath the AST. If there is interference at the end of the bars, check to see if the screws are placed in the correct position.
18. Starting with one of the bars, begin to tighten the screws with a cordless driver or other tool. Compress the gasket to approximately half its original thickness. It is important to tighten the bars evenly so as not to strip the threads or cause an uneven compression of the seal.
19. When finished, place the other gasket onto the top frame and align the holes.
20. Place the composite lid (not included in AST kits) over the top of the gasket inside the top frame.
21. Replace the old sealing washers with the new sealing washers provided (P/N 642-025-01), slide a washer onto each 3/8"-16 UNC bolt (P/N 620-130-27) and hand-tighten it into place.
22. Finish tightening the bolts in a cross pattern, compressing the seal in an even fashion, until the lid is flush with the top of the steel frame.



Item	Qty.	Component #	Description
1	2	620-130-27	AST-2922 Bar Long
2	2	642-025-01	AST-2922 Bar Short
3	14	999-855-53	1/4"-20 x 1.25" Flat Head
4	1	426-150-04	AST-2922 Steel Frame
5	2	641-100-01	AST One Piece Gasket
6	10	429-110-01	3/8" x 7/8" Sealing Washer
7	10	429-110-02	3/8"-16 x 1" SS HHB



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