

EXO SONDE BOTTOM PLATFORM

INSTALLATION INSTRUCTIONS



Figure 1: NexSens EXO Sonde Bottom Platform.

Overview

The NexSens EXO Sonde Bottom Platform offers a turnkey solution for bottom deploying a YSI EXO multi-parameter water quality sonde. Integrated mooring clamps are utilized for the specific EXO sonde size to secure the sonde for deployment. Included trawl floats with 18.5 lb. of buoyancy helps to keep the platform upright.

What's Included

Bottom Platform Accessories

- (1) EXO sonde cage w/ accessories
- (1) 3/4-10 Threaded rod assembly
- (1) Trawl float w/ 18.5lb. Buoyancy
- (1) 3/4" Slotted hex nut (Castle nut)
- (2) 3/4" Flat washers
- (2) 1/2" Shackles
- (1) 1/2" Galvanized chain (Customized length)
- (1) 35lb. Pyramid anchor
- (1) Installation guide

Installation & Deployment

- 1 Insert the threaded rod assembly through the trawl float and the top of the instrument cage.
 - a. Ensure a flat washer is on both sides of the trawl float.
 - b. Add the lock washer and castle nut to the end of the threaded rod.

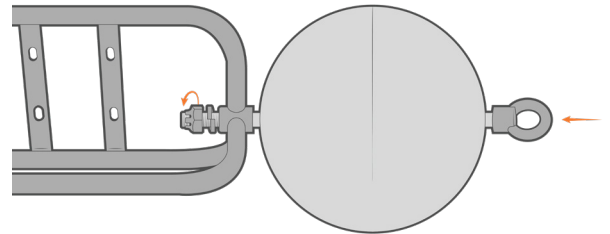


Figure 2: Attach the trawl float

- 2 Tighten the castle nut using a crescent wrench to completely flatten the lock washer.
 - a. Align the hole at the base of the bolt with one of the slots on the castle nut.
 - b. Insert the included cotter pin through the hole and bend the long leg for security.

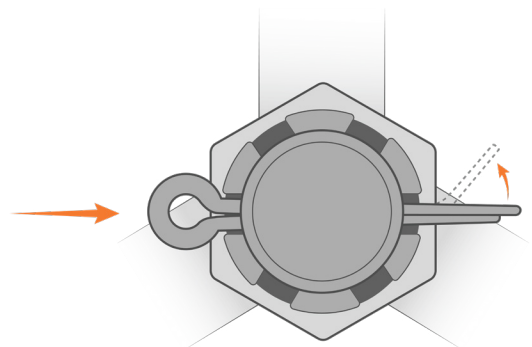


Figure 3: Insert the cotter pin and bend the long leg.

- ③ Attach the galvanized chain to the bottom of the EXO cage using the included 1/2" shackle.
 - a. Ensure to slightly over-tighten the shackle screw or run a zip tie through the screw hole and attach to the shackle for security.

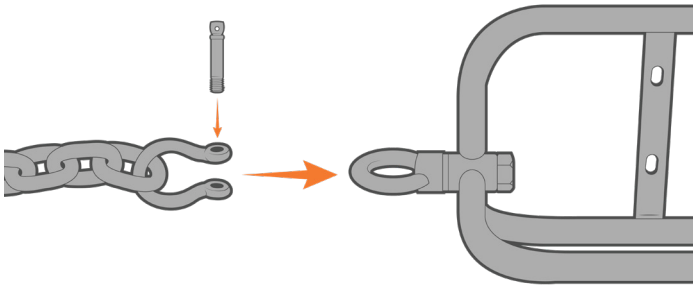


Figure 4: Connect the galvanized chain.

- ④ Attach the other end of the galvanized chain to the 35lb. anchor using an included 1/2" shackle.
 - a. Ensure to slightly over-tighten the shackle screw or run a zip tie through the screw hole and attach to the shackle for security.

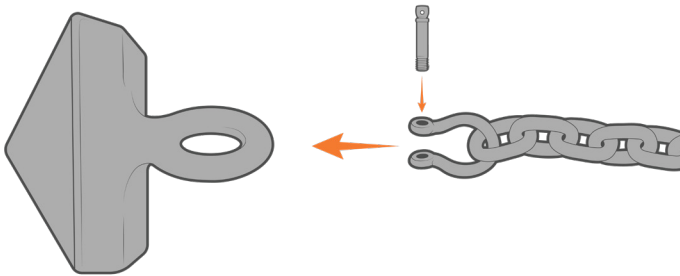


Figure 5: Connect the anchor.

- ⑤ Follow the EXO cage installation guide to securely mount the EXO sonde.
 - a. If using without an external data logger, ensure the sonde is setup for internal logging before deployment.
 - b. For best operation, ensure to perform a battery life calculation for the internal batteries to ensure they will last throughout the deployment.

Saltwater Deployment

Sacrificial zinc anodes should be used whenever a buoy is deployed in a saltwater environment to prevent corrosion. These zinc anodes must be inspected and replaced as needed.

Safe Deployment

Warning: Always follow safe marine and boating practices. Heavy anchors, ballast weights, and chain require careful maneuvering. Small boats with limited lifting equipment and boat clutter can be unsafe. Care must be taken during deployment to maintain a clean and safe environment.