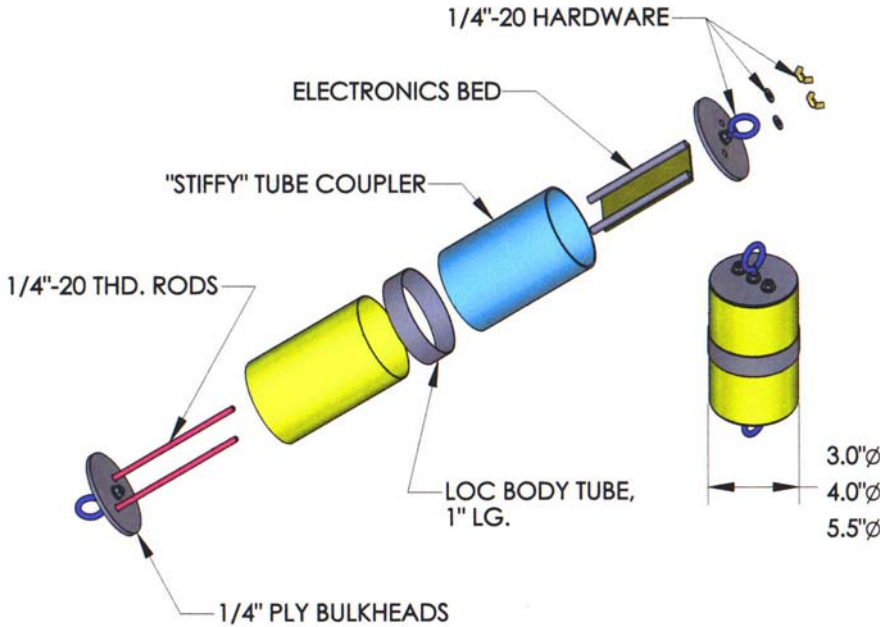


# LOC PRECISION ALTIMETER BAY

□ **EB-3.00**  
 ■ **EB-3.90**



The LOC/PRECISION model **EB-3.00** and **EB-3.90** altimeter bays are assembled in the same manner.

The electronics mounting sled is interchangeable between the 2 models and the **EB-5.50** electronics bay.

This design incorporates our Stiffy™ tube coupler stiffener, which provides additional strength and sealing capability to the assembly.

An optional 1" section of body tube is included with this assembly for mounting electrical switches and air holes if desired.

## PARTS LISTS

<u>COMPONENTS PACKAGE</u>			<u>HARDWARE PACKAGE</u>		
TC-3.00 or TC-3.90	TUBE COUPLER	1	LN-.25x20	NYLON INSERT LOCK NUT	2
STC-3.00 or STC-3.90	STIFFY™ TUBE COUPLER STIFFENER	1	WN-.25x20	WING NUT	2
EBP-3.00 OR EBP-3.90	WOOD END PLATE	2	EB-.25x20x1	TURNUED EYEBOLT	2
AT-6.5	1/4X20 ALL THREAD	2	FW-.25x20x1	1" FENDER WASHER	4
ES-3-4	ELECTRONICS MOUNTING SLED	1	NFW-.25x20	NYLON FLAT WASHER	2
LL-25	LUGS FOR MOUNTING ES-3-4	2	HN-.25x20	HEX NUT/JAM NUT	6
			W-.25	WASHER 1/4"	4

## ASSEMBLY

- Center the STIFFY™ tube coupler stiffener into the tube coupler and epoxy into place. This placement will allow for the wooden end plates to extend approximately 1/8" beyond each end of the tube coupler for strength and forms a seal to the outside area.
- Complete the Eye Bolt assemblies by screwing them onto the end plates – a dab of epoxy will help hold the 1/4-20 nuts in place.
- Secure one end plate to the 2 all thread pieces with nylon lock nuts on the outside of the assembly. Refer to the picture for the sequence if needed.
- The optional mounting ring of tube material can be centered and glued into place at this time if desired.
- Assemble the electronics sled by epoxying the launch lugs along the lines provided. Test fit the sled on the threaded rods and make any adjustments before the epoxy sets.
- Mount electronics per the manufacturer's suggested instructions and add any ports needed to complete your bay.

This versatile assembly can be mounted in a variety of ways to facilitate various electronic experiments. Other sizes are available.

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**Assembly Instructions**

**LOCIPrecision's Electronics Bays feature the universal mounting sled.**  
This convenient package makes conversion to electronic **Multi-Chute Deployment™** a snap!

**STIFFY™ and Coupler Tube Assembly**

Have some paper towels at hand – you will need them for this procedure. Identify the STIFFY™ tube coupler stiffener and the thinner tube coupler that the STIFFY™ fits inside. Mix a small quantity of 5-minute epoxy. With a Q-Tip or Popsicle stick, make two rings of epoxy on the inside of the thin coupler tube. Smear these flat with you index finger or Popsicle stick. Quickly and smoothly insert the STIFFY™ inside the tube coupler and make sure it is centered in the coupler tube (the same amount of coupler tube is showing at both ends. This is critical because the end plates need to fit inside the coupler tube and against the STIFFY™ equally at both ends. The end plates are designed to extend 1/8" at each end for strength. While holding the STIFFY™ tube in place firmly between your left hand thumb and index finger (reverse if you are left handed) use a paper towel to wipe any excess epoxy off the inside of the coupler tube and top end of the STIFFY™ tube. Make sure you hold this assembly still and have each end of the STIFFY™ equally recessed into the coupler tube. When the epoxy has setup, lay this assembly on its side to cure for 10 minutes. **WARNING:** It is critical that you wipe any epoxy off the end of the STIFFY tube where the epoxy oozed out when you inserted the STIFFY inside the coupler tube.

**Eye Bolt Assembly**

Prepare the two eyebolts by threading a 1/4" nut all the way down the threads of both eyebolts. Mix a small amount of 5-minute epoxy. Place a fender washer up to the 1/4" nut. Circle the center opening in one end plate with a thin application of epoxy. Insert the eyebolt/nut/washer assembly through the center hole in the end plate. Immediately slide a fender washer on the threads, followed by another 1/4" nut, eyeball the threaded end and make sure it is centered on the end plate, then firmly finger tighten. Quickly repeat this with the other end plate. If the epoxy is still workable, put a thin layer on each threaded end up to the nut. Check for any epoxy smears near the outside of the end plates and wipe them off.

**Electronics Slide Assembly**

In order to insure proper line up of the threaded rods, it is necessary to assemble the electronics slide now. Identify the small piece of rectangular plywood and flip it on the side where the two lines are drawn so they are facing up.

**Electronics Slide Assembly Continued**

up. Mix a small amount of 5-minute epoxy and carefully apply a thin bead of epoxy along the lines on the plywood, staying 1/4" away from the ends of the plywood. Take the two lugs (small, brown paper tubes) and align them along the two lines on the sled, centering the imaginary center of the lugs right over the lines on the sled. This must cure for at least 20 minutes. We will use this sled assembly to make sure the threaded rods installed in the next step are aligned perfectly.

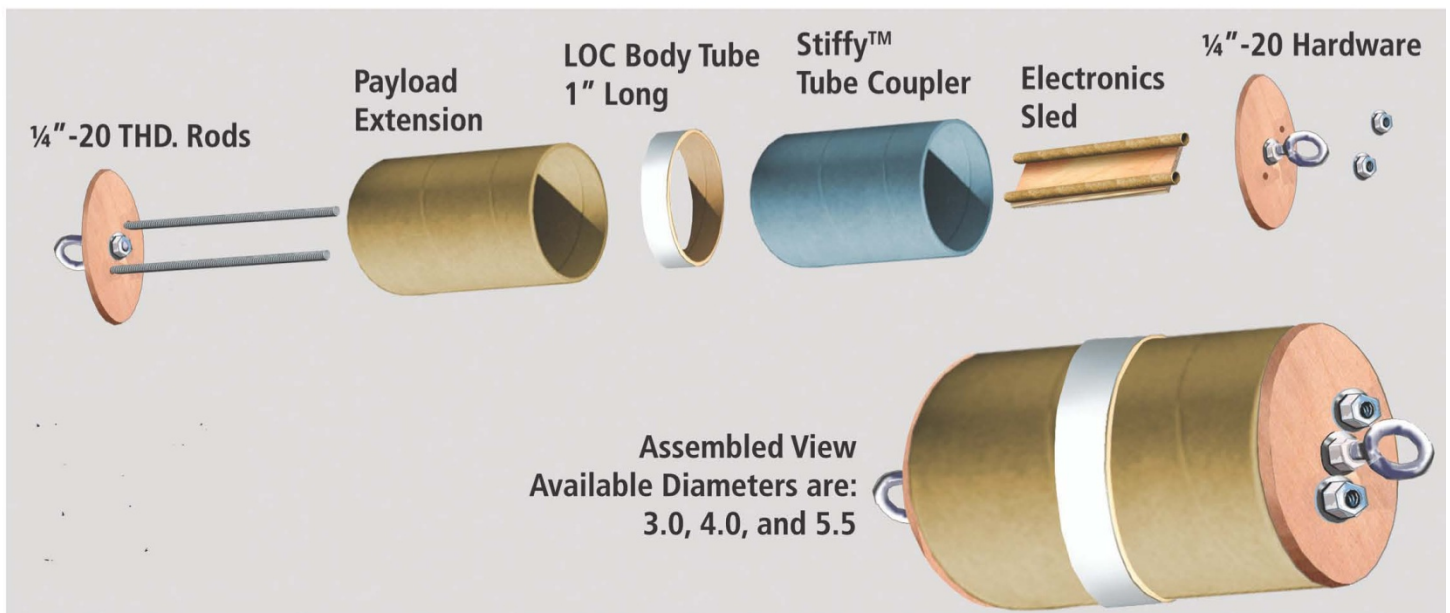
**Threaded Rod Assembly**

(NOTE: The following step is performed on both threaded rods.)

For this step, you will need two wrenches that can accommodate a 1/4" nut. Thread these two nuts up any end of the 1/4" threaded rod about 1" from the end and lock these nuts into place with the two wrenches by moving the wrenches in opposite directions on the two nuts. While keeping a wrench on the top 1/4" nut, using a wrench take a nylon insert lock nut and thread it on the end of the threaded rod until approximately 1/8" of the threads show though the nylon lock nut end. Repeat this with the other threaded rod. Remove the two 1/4" nuts and set them aside (Hint, you may need two 1/4" wrenches to separate the nuts.)

Mix a small quantity of 5-minute epoxy and apply a small circle of epoxy on the inside hole in one of the centering rings (the eyebolt faces away from the direction you are inserting the rod). Take a 1/4" washer and place it against the nylon lock nut and insert this assembly through one of the two holes in the end plate. Quickly apply a small amount of epoxy to the threads of the 1/4" rod on the inside of the end-plate. Slide on a 1/4" washer and apply a small band of epoxy slightly above where the nut will be when assembled. Immediately thread a 1/4" nut down all the way to the end plate and apply some epoxy to the threads and 1/4" nut on the inside face of the end plate. Repeat for the second threaded rod.

Test the threaded rod alignment by sliding the electronics sled onto the rods. Move the threaded rods slightly to accommodate the sled and let the assembly cure after you are satisfied the threaded rods are spaced well enough to let the electronics sled slide all the way down the rods.



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