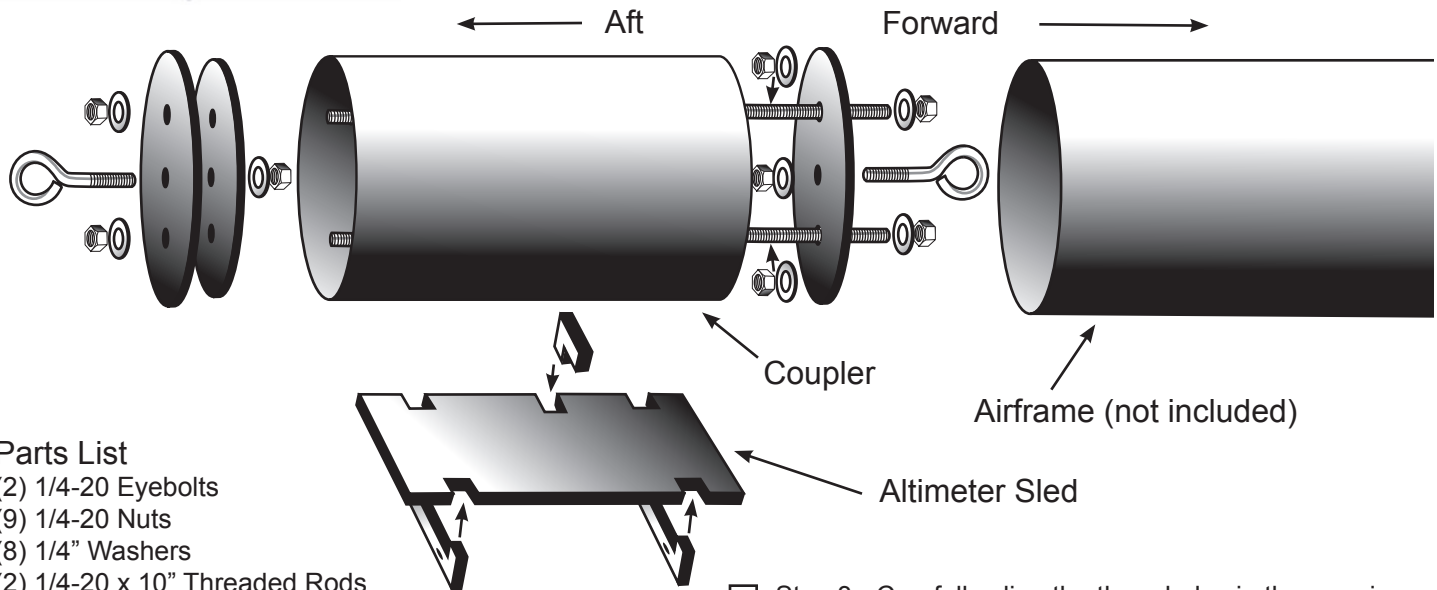


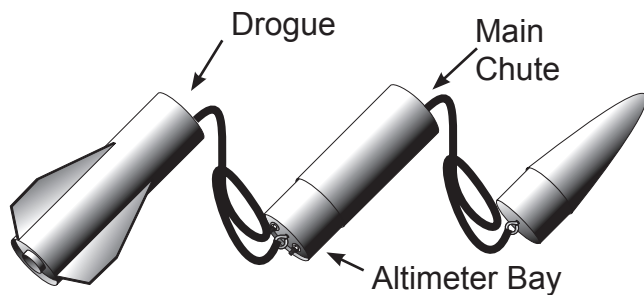
# 4" Altimeter Bay



## Parts List

- (2) 1/4-20 Eyebolts
- (9) 1/4-20 Nuts
- (8) 1/4" Washers
- (2) 1/4-20 x 10" Threaded Rods
- (1) Heavy Duty 8" Coupler
- (1) Altimeter Sled (4 parts)
- (2) Large Bulkheads (same OD as Coupler)
- (1) Smaller Bulkhead (fits inside Coupler)

These instructions will show how to assemble altimeter bay in a traditional configuration. The bay can be adapted to other configurations, but they are not covered here.



- Step 1 - Start with one of the larger bulkheads and attach the eyebolt and two threaded rods as shown in the diagram above. Use two washers and two nuts on each threaded rod to trap the plywood bulkhead. Most of the threaded rod should extend into the coupler. Leave about 1/4" of exposed threaded rod that extends forward. Use thread lock on all nuts to make sure they doesn't come loose later.
- Step 2 - Tack the forward bulkhead you just worked on to one end of the coupler with epoxy or CA glue. Be very careful that the bulkhead is aligned and flush with the outside of the coupler so that it will slide into the airframe later. Also make sure there is no glue on the outside of the coupler or bulkhead that would interfere with inserting into the airframe.

- Step 3 - Carefully align the three holes in the remaining 2 bulkheads and attach them together using the remaining eyebolt. Use thread lock to make sure the eyebolt doesn't come loose later. The smaller bulkhead will go into the coupler first. **IMPORTANT:** do not glue the bulkheads into the coupler - they need to be removed to insert the altimeter sled. Insert onto the open end of the coupler and attach with the remaining washers and nuts. **IMPORTANT:** do not use thread lock on these nuts so they can be removed later.
- Step 4 - Drill a 1/8" hole in each bulkhead to allow the ematch wire to pass through later.
- Step 5 - Apply epoxy to the inside of the airframe and insert the coupler assembly until there is 5" exposed (3" will be inserted into the airframe). **IMPORTANT:** make sure you insert the right end. The removable bulkheads should be outside the airframe.
- Step 6 - Assemble the altimeter tray as shown in the diagram using epoxy. Drill mounting holes into the sled and attach your altimeter. Notes: The L shaped piece of plywood acts as a shelf for a 9V battery to rest against. You can drill a hole on either side of the 9V battery to allow you to tie wrap the battery to the sled. The shelf should go on the aft end of the battery to allow the battery to rest on the shelf during liftoff. The sled will slide over the threaded rods and you can use the remaining 1/4-20 nut to lock the sled into place so it does not slide back and forth during flight.
- Step 7 - Mount your altimeter switch if needed (not included) and drill any vent holes if required. Make sure your switch and vent holes are mounted on the airframe and not the coupler. Refer to your altimeter manual to determine what is required for proper operation.