

YSHAWK3

SANDHAWK



Height: 66.5"
Weight: 31oz
Diameter: 3"

Motor Suggestions:
F - H Impulse

*29mm motors to be used with 29mm MMA-2 Adapter

Kit Features Include:

- Slotted Airframe Tubing
- Payload Section
- CNC Machined 1/4" Plywood Fins
- Centering Rings / Bulkhead
- 38mm Motor Mount
- 36" Parachute
- Tubular Nylon Shock Cord
- Quick Links
- 1/4" Launch Lug

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- Assembly Instructions for all kits
- KITS & ACCESSORIES
- VINYL DECALS
- UPDATES



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LOC/PRECISION MULTI-PACKS

are now available for this and other LOC/PRECISION models. For more information on launching model rockets in your area contact the National Association of Rocketry (NAR) at: www.nar.org

or the Tripoli Rocketry Association at: www.tripoli.org

NOTE: Schools, Clubs, & other groups



Other LOC Kits Available:

PFY-MAGNUM



PFY-HLOC



PFY-IQSY



PFY-BBX



PFY-HAWK



PFY-IRIS



PK-5 Nuke Pro Maxx



PK-4 Lil' Nuke



PK-56 Hi-Tech



PK-12 Onyx



PK-16 Graduator



PK-45 NORAD Pro Maxx



PK-48 LOC-IV



Parts List

- **3.00" Slotted Airframe 34"**
- **Nose Cone PNC-3.00**
- **38mm Motor Mount Tube**
- **Payload PL-3.00-19"**
- **3 Centering Rings CR-3.00-152**
- **Bulkhead Plate Assembly BA-3.00**
- **4 Plywood Fins**
- **Parachute LP-36**
- **Tubular Nylon Shock Cord**
- **Launch Lug LL-25**

YSHAWK3 - SANDHAWK ASSEMBLY INSTRUCTIONS

- ◇ Due to the high thrust motors that can be flown in this kit, it is strongly recommended that epoxy be used throughout its entire construction.
- ◇ Before beginning construction, read over assembly instructions to become familiar with the proper construction sequence. Check rear and side exposed views (shown at bottom of instructions) carefully for fin positions and motor mount/centering ring placement inside the main airframe.
- ◇ **TEST FIT PARTS BEFORE BONDING TOGETHER WITH EPOXY!!!!**
It may be necessary to lightly sand some parts to obtain a proper fit.

Motor Tube Assembly

1. The fin slot starts $3/4"$, and is $6\ 1/4"$ in length, from the aft of the booster section. Slide one centering ring onto motor tube so that the forward side of the ring is approximately $3/4"$ or less from the end of the motor tube. Take a second ring and down from forward end of motor tube so the aft side of the ring is approximately $7"$ from aft of motor tube. Take the forward ring (with the eye bolt hole) and place $1/2"$ from the forward end of the motor tube. Ensure rings are perpendicular to motor tube and tack into place with adhesive.
2. When cured, give each ring an epoxy fillet that bonds the ring to the motor tube.
3. Attach eyebolt to the forward ring and secure into place. Epoxy nut as this needs to be strong and not come loose. At this time tie the shock cord onto the eyebolt with a double knot. A small dab of epoxy on the double knot will ensure it will stay in place.
4. Insert the forward end of motor mount assembly into the aft end of the booster section. When only the forward ring is in the booster, apply liberal amount of epoxy to the outer edge middle centering ring and slide assembly in an inch. Apply epoxy to the outer edge of the aft ring and slide assembly in the booster. The aft ring should be recessed but not interfere with the fin slots.
5. Once cured apply a liberal epoxy fillet to the aft where the ring meets the motor tube and the airframe. Allow to cure.
6. Stand booster section up and drip epoxy down onto the forward ring where the ring meets the airframe to add strength.

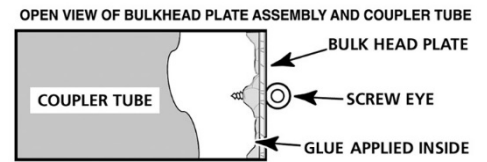
Main Airframe Assembly Instructions

1. Using fine sandpaper, sand the outside of the main airframe, motor mount tube, and launch lug for better epoxy adhesion.
2. Sand all fins smooth and round off the leading and trailing edges of them using medium, then fine sandpaper.
3. Test fit the fin tabs (which protrude out from the fin's root edge) into the airframe's fin slots. Sand the tab edge that will mate to the motor mount tube if necessary to obtain a good flush fit.
4. Once all parts fit to your liking, apply a liberal amount of epoxy to the fin tab area and along the edge mating with the airframe and position fin perpendicular to the airframe – set aside to cure. Keep the airframe

in a horizontal position while the epoxy sets up. Make sure that the fin is straight up from the airframe tube and against the slot's bottom edge. Repeat with each of the remaining fins.
5. Slather epoxy on the forward $3"$ of exposed coupler and slide $18"$ airframe section down onto the booster section ensuring a tight fit. Wipe away excess epoxy from tube joint. Allow to cure.

Bulkhead Plate Assembly Instructions

1. Screw in the threaded portion of the eye bolt straight into the center hole of the bulkhead plate. Check for alignment. Place a generous bead of epoxy around the threaded portion of the screw eye sticking out from atop the bulkhead plate. Keep assembly propped up while drying so eye bolt alignment is not disturbed.
2. When dry, check fit of bulkhead plate assembly into either end of coupler. It may be necessary to sand the inside edge of the coupler and the outside edge of the bulkhead plate assembly to obtain a smooth fit. When this is done, place a large continuous bead of glue around the inside of the coupler's edge. Carefully, push the bulkhead plate assembly straight into the coupler so that the bulkhead plate assembly is even with the edge of the coupler. Set the entire assembly upright immediately, making sure it is not disturbed while drying.
3. For **MAXIMUM STRENGTH**, when dry, place another layer of epoxy around the inside of the bulkhead plate and screw eye thread.



Payload Assembly Instructions

1. Epoxy $1/2$ of the length the Coupler Bulkhead Assembly into the payload section.
2. Secure Nosecone using masking tape, or similar, to Payload section for a tight friction fit. Or secure permanently if desired.
3. Put end of tubular nylon through slit cut in the Nomex Chute Protector and slid through. This will be the first item packed into the booster and will protect recovery items from ejection gasses and flames. 2 quick links have been supplied for you to attach payload and booster together. Setup your recovery system as you desire.

Main Airframe Assembly Instructions, Continued

4. Seal fins and launch lug with sanding sealer using a brush. Sand lightly between coats to fill pores and obtain a smooth finish. Lightly sand plastic nose cone with fine sandpaper to remove molding seam line. At this time, remove any plastic flash that was molded into the nose cone eyelet. This is necessary for shock cord attachment.
5. When you are satisfied with the smooth sanded finish of your model, it is ready to prime and then paint in the color or colors of your choice.
6. When the paint is completely dry, take end of the shock cord and pass it through the eye bolt in the payload section. Secure it $4'$ from the end with a double knot. Take the end of the shock cord and attach it to the quick link. Also secure it with a double knot. Place a **SMALL** drop of epoxy on both knots to keep them permanently secured.
7. Select a motor for first flight.
8. Always follow motor manufacturer guidelines and rules!

CROSS SECTION OF CENTERING RINGS/ MOTOR MOUNT TUBE ASSEMBLY IN MAIN AIRFRAME.

