PK-76

I-ROC

Height: 4.6'
Weight: 3.5 lbs.
Diameter: 5.54"

Single motor flights to over 2,200 ft.

Sample Motor Selections

H-180-6 *
I-161-8
I-284.12
*** requires MMA-2 Adapter**

Kit Features Include:

- **Pre-Slotted Airframe Tubing**
- **Plywood Fins & Rings**
- **Plastic Nose Cone**
- **Parachute Recovery**

*** This kit is recommended for those with previous model rocket building experience.**

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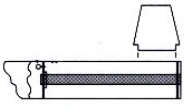
I-ROC – ASSEMBLY INSTRUCTIONS

- 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 familiarize you with 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.

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. The top centering ring has a ¼" hole in it for the shock cord mounting bolt. Place one of the flat washers on top of the hole and push the threaded portion of the eye bolt through it. From the bottom of the top centering ring, tightly secure the bolt using the remaining flat washer and nut. Epoxy both sides of this eyebolt assembly and let cure.
3. Position the top centering ring onto one end of the 38mm motor mount tube 1/8" beyond the end and epoxy into place. Apply additional fillets to this joint when cured.
4. Position the aft centering ring onto the other end of the 38mm motor mount tube 1/8" beyond this end and epoxy into place. The fins will mate to this surface so be careful not to over do the epoxy inside this joint. This resulting structure is referred to from here on as the motor mount assembly
5. Sand all fins smooth and round off their leading and trailing edges using medium then fine sand paper.
6. Test fit the motor mount assembly into the airframe and the fins to fit flush to the airframe. Sand the edge which will mate to the motor mount tube if necessary to obtain a good fit.
7. Once all parts fit to your liking, use a long stick to apply a bead of epoxy 19" up from the aft end of the airframe and slide the motor mount assembly eye bolt end first into the airframe. As this assembly nears the 19" mark, carefully apply a bead of epoxy to the aft end of the airframe and continue sliding the motor mount assembly into place. It should seat such that the airframe slots are not covered with glue and the aft ring is flush or 1/8" beyond the aft end of the airframe. Set aside and allow to cure.
8. Make one last test fit of the fins to be sure no epoxy is interfering with their position.
9. 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.
10. Once all fins have cured, apply additional epoxy fillets along the root edges for maximum strength.
11. Sight in the high point (center of the airframe's diameter) of the airframe between any 2 fins and from 11" up from the airframe's aft end, make a small pencil mark. From this mark, make a straight line up about 6" long. Cut the launch lug at an angle to reduce drag. Epoxy the launch lug directly on this line, making sure that it is parallel to the airframe. Set aside to cure in the horizontal position.
12. Give the launch lug joints an additional fillet for maximum strength. Make sure not to get epoxy inside of the launch lug or it will interfere with your flight.
13. Attach Shock cord to the eye-bolt in the completed payload section and to the plastic nose cone.
14. Attach Parachute to the shock cord approximately 4' from the nosecone
15. Select a motor for first flight. Because of all the different motor combinations available (with varying motor lengths), this kit uses no motor blocks. Instead, wrap ½" wide masking tape around the nozzle end of each motor to a diameter equal to that of the motor mount tube. This will keep the motor from pushing forward upon ignition. Friction fit the motor in place by wrapping masking tape around the motor in two places for a snug fit in the motor mount tube. This will prevent the motor from ejecting rearward upon activation of the ejection charge.
16. Remember to use enough recovery wadding to protect the chute and shock cord from the hot ejection gases.
17. Always follow motor manufacturer's instructions for motor use and ignition, and launch this vehicle on calm, windless days to insure safe recovery.

Rear View



Side Exposed View of centering ring/motor mount tube assembly in main airframe.