PK-32

Forté™

Height: 45.25”
Weight: 20 oz.
Diameter: 3.10”

Flights to over 3,880 ft.

Motor Suggestions:
F50-6*
G80-7*
H97-M, H123-M

* To be used with 38-29mm MMA-2 Adapter

Kit Features Include:

- Heavy Duty Airframe Tubing
- Precision Cut Plywood Fins & Rings
- Pre-slotted Airframe
- Plastic Nose Cone
- Nylon Parachute Recovery

VISIT WWW.LOCPRECISION.COM
• Assembly Instructions for all kits
• KITS & ACCESSORIES
• VINYL DECALS
• UPDATES

LOC/PRECISION™
ADVANCED ROCKETRY KITS AND COMPONENTS

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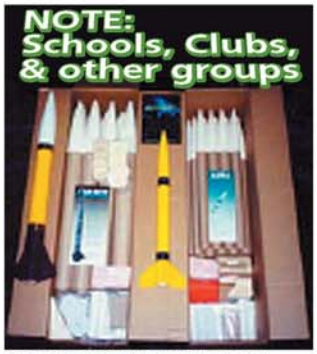
LOCPrecision.com

THANK YOU FOR CHOOSING LOC/PRECISION!



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

OTHER KITS AVAILABLE:

PK-1 Aura

PK-3 Weasel

PK-4 Lil' Nuke

PK-5 Nuke Pro Maxx

PK-7 StarFighter-152

PK-8 Legacy

PK-12 Onyx

PK-20 Viper III

PK-16 Graduator

PK-25 IRIS Atlantic

PK-27 Black Brant CARDE

PK-48 LOC-IV

PK-45 NORAD Pro Maxx

PK-50 Fantom

PK-46 Bullet

PK-51 Fantom EXL

PK-57 3.90 V2

PK-32 FORTÉ - ASSEMBLY INSTRUCTIONS

PARTS LIST

Nose Cone PNC-3.00
34" Airframe BT-3.00
Motor Mount Tube MMT-1.52
3 Centering Rings CR-3.00-1.52
4 Plywood Fins
Launch Lug LL-25
Eye Bolt
Nylon Shock Cord
Nylon Parachute LP-28

◊ 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.

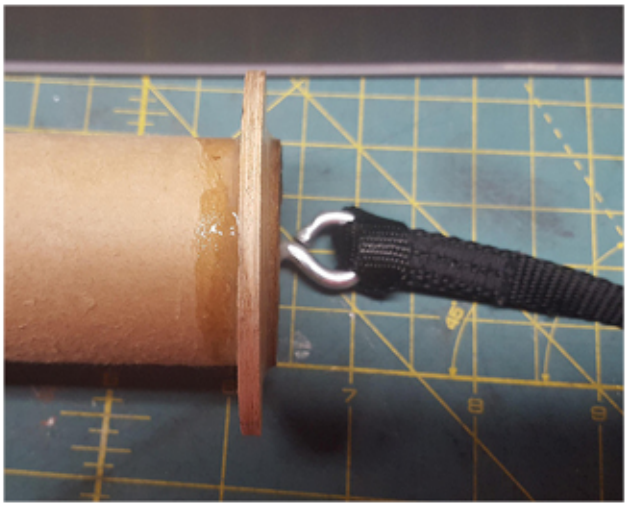
◊ TEST FIT PARTS BEFORE BONDING TOGETHER WITH GLUE!!!!
It may be necessary to lightly sand some parts to obtain a proper fit.

◊ The following items will be needed for the construction & finishing of this kit: 12" ruler, Modeling knife, Pen or pencil, Masking tape, Sanding sealer, Paint brushes (assorted sizes), Sandpaper (medium & fine), Primer and paint, Yellow Carpenter's Glue or Epoxy (5 or 15 minute).

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 centering ring that has the drilled hole is the forward ring. Position that to one end of the 38mm motor tube 1/8" from end and epoxy. The other two centering rings are meant to sandwich the fin tabs. The aft centering ring should be flush with the aft of the fin tabs. The mid centering ring should be flush with the forward end of the fin tab. Use slots as a guide and measure/dry fit appropriatly. Once satisfied with your measurements tack the rings in place. Finish with a nice epoxy fillet on each side.

   Install the eye bolt in the forward centering ring. Epoxy nut in place. Pass one end of shock cord through eye bolt. Then pass through the sewn loop to form a knot as shown below.



3. Apply a continuous bead of epoxy around the inside of the pre-slotted airframe 13" up from its slotted end. Take the assembled motor mount and push it straight up into the epoxied end of the airframe until the bottom end of the motor mount tube is flush with the airframe's bottom edge. Set in upright position to dry. When dry, turn assembly upside down and give exposed bottom centering ring a light layer of epoxy for additional strength. Set aside to dry.
4. Sand all fins smooth and round off the leading and trailing edges of them using medium, then fine sandpaper.
5. 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.
6. 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.
7. Sight in the high point (center of the airframe's diameter) of the airframe between any 2 fins and from 12" 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.
8. Give all fin and launch lug joints ADDED epoxy fillets for MAXIMUM strength.
9. 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.
10. 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.
11. When the paint is completely dry, take one end of the schock cord and pass it through the loop of the shock cord mount. Secure it with a double knot. Take the other end of the shock cord and pass it through the eyelet of the plastic nose cone and also secure it with a double knot. Place a SMALL drop of epoxy on both knots to keep them permanently secured.
12. Attach the parachute to the shock cord at a point about 1/3 of the length of the shock cord from the nose cone. To do this, take the chute shroud line loops in one hand and, with the other hand, take the chute and go around the shock cord, passing the chute through the shroud line loops. When the chute is pulled through tightly it will form a knot.
13. Select a motor for first flight. When using 29mm motors it is necessary to use LOC's motor mount adapter MMA-2 (not included in kit). Because of all the different motor combinations available (with varying motor lengths), this kit uses no motor blocks. Instead, wrap 1/2" 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.
14. Remember to use enough recovery wadding to protect the chute and shock cord from the hot ejection gases.
15. Always follow motor manufacturer's instructions for motor use and ignition, and launch this vehicle on calm, windless days to insure safe recovery.

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