YBUZZ4

MYSTIC BUZZ

Height: 64″
Weight: 78oz
Diameter: 3.90″

Motor Suggestions:

G - J

38mm motors require the MMA-4 Adapter

Flights from 780 to 6,200 ft.

Kit Features Include:

- Slotted Airframe Tubing
- Payload Section
- 1/4” Plywood Fins, Rings
- 54mm Motor Mount
- Plastic Nose Cone
- Tubular Nylon Shock Cord
- Nylon Parachute Recovery
- Rail Guides
- Motor Retention
- Mystic Buzz Vinyl Decal

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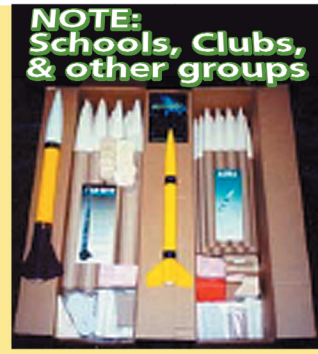
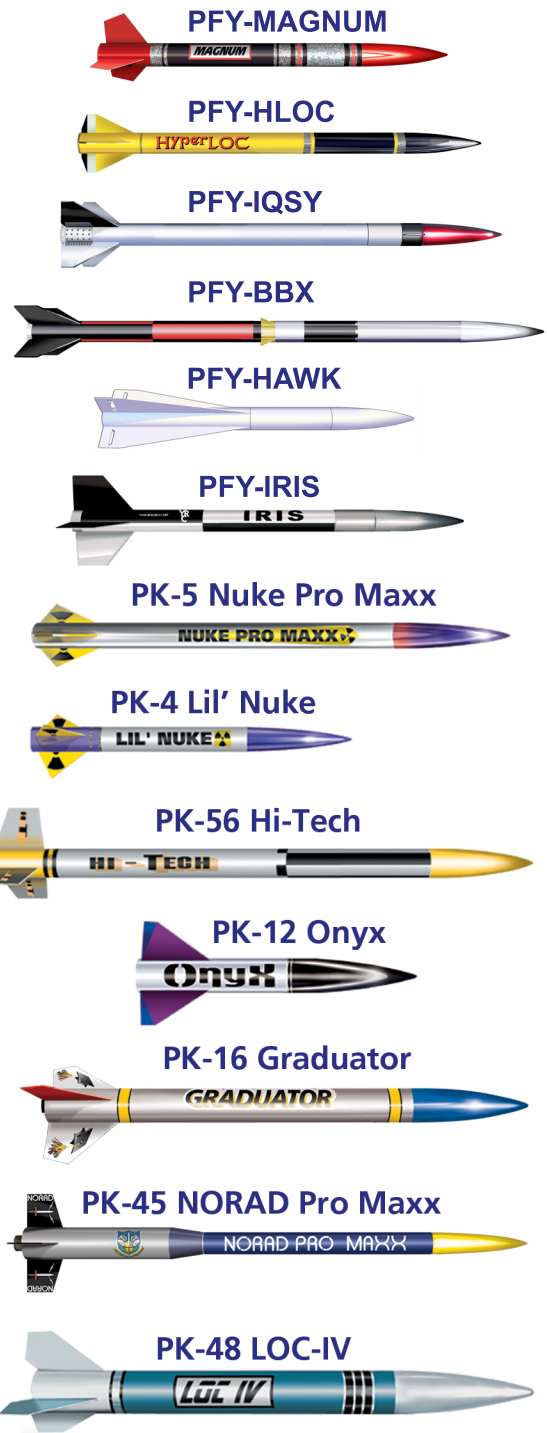
are now available for this and other LOC/PRECISION models. For more information on launching model rockets in your area contact the **National Association of Rocketry** (NAR) at: www.nar.org or the **Tripoli Rocketry Association** at: www.tripoli.org



Other LOC Kits Available:

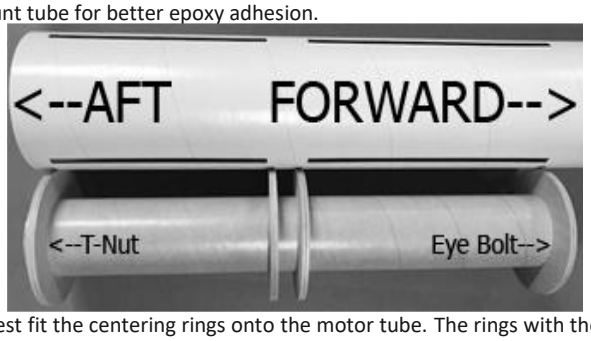


MYSTIC BUZZ ASSEMBLY INSTRUCTIONS

- ◊ 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 & side exposed views (shown at bottom of instructions) carefully for fin positions & motor mount/centering ring placement inside the main airframe. TEST FIT ALL PARTS It may be necessary to lightly sand some parts to obtain a proper fit.

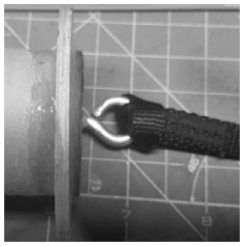
Main Airframe Assembly Instructions

1. Using fine sandpaper, sand the outside of the main airframe & motor mount tube for better epoxy adhesion.



2. Test fit the centering rings onto the motor tube. The rings with the ¼" holes are the aft & forward ring. Take one of the rings with a pre-drilled hole and press in T-nut. This is for motor retention. The side with the teeth is the forward side. Insert eye bolt using washers & tighten. Referencing the picture above, align the rings on the motor tube that when inserted the fin tabs will be clear & not interfere. When satisfied with alignment epoxy centering rings in place. Apply a bead of epoxy that meets the centering rings to the motor tube. Set aside to dry.

3. Before gluing motor mount into place, test fit into airframe. Insert motor tube in the airframe & test fit the fins in the slots. Ensure they align properly between the centering rings. Once satisfied with the fit, remove all test fit parts.



Apply a continuous bead of epoxy around the inside of the pre-slotted airframe (between the fin slots) up from the slotted end. Take the assembled motor mount & 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 aft. The aft centering ring should be recessed at least ¼". Set in upright position to dry. When dry, turn assembly upside down & give exposed bottom centering ring a layer of epoxy for additional strength. For extra credit you can drizzle epoxy down onto the forward ring from the forward end of the booster. Set aside to dry.

4. Sand all fins smooth & round off the leading & 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 & along the edge mating with the airframe & 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 & against the slot's bottom edge. Repeat with each of the remaining fins.

7. Give all fin joints ADDED epoxy fillets for MAXIMUM strength.

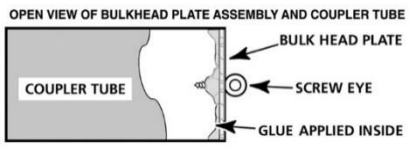
8. Install the rail guides into the booster with provided screws. Drill a hole smaller than the screw so the screw threads into it ½" forward of aft ring centered between fin set. Drop a small amount of epoxy in drilled hole, thread the rail guide & screw in the hold, rotate rocket 180 degrees & let cure.

9.

Bulkhead Plate Assembly Instructions

1. Screw in the threaded portion of the screw eye 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 screw eye 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 & 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 & screw eye thread.

Payload Assembly Instructions

1. Epoxy 1/2 of the length the Bulkhead Assembly into the payload section. Secure Nosecone to Payload section with masking tape for a tight friction-fit.

2. Attach parachute to the shock cord approximately 2' from the payload section. To do this, take the chute shroud line loops in one hand and, with the other hand, take the chute & 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.

Main Airframe Assembly Instructions, Continued

10. Seal fins & launch lug with sanding sealer using a brush. Sand lightly between coats to fill pores & 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.

11. When you are satisfied with the smooth sanded finish of your model, it is ready to prime & then paint in the color or colors of your choice.

12. When the paint is completely dry, take one end of the shock cord & pass it through the loop of the shock cord mount. Secure it with a double knot. Take the other end of the shock cord & pass it through the eyelet of the payload section & also secure it with a double knot. Place a SMALL drop of epoxy on both knots to keep them permanently secured.

13. Select a motor for first flight. When using 38mm motors it is necessary to use LOC's motor mount adapter MMA-4. Because of all the different motor combinations available (with varying motor lengths)

14. Always follow motor manufacturer guidelines & rules!

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