

PK-64

# ***EZI-65***™

**Height: 57.75"**  
**Weight: 35 oz.**  
**Diameter: 4.00"**

**Flights to over 4,300 ft.**

**Motor Suggestions:**  
**G80-4\*, H128-6\*,**  
**H242-8\*\*, I161-10\*\*,**  
**J90-10, Aerotech I-65**

\*29mm motors to be used with 29mm MMA-3 Adapter  
\*\*38mm motors to be used with 38mm MMA-4 Adapter

### **Kit Features Include:**

- Heavy Duty Airframe Tubing
- Precision Cut Plywood Fins & Rings
- Pre-slotted Airframe
- Plastic Nose Cone
- Payload Section
- Tubular Nylon Shock Cord
- Nylon Parachute Recovery

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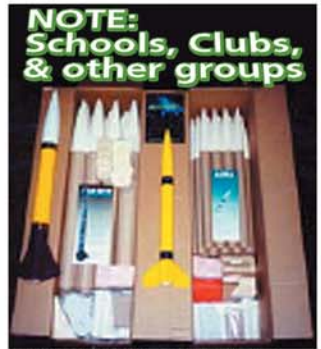
- Assembly Instructions for all kits
- KITS & ACCESSORIES
- VINYL DECALS
- UPDATES



435A Factory Street . Plymouth, WI 53073  
920.892.0557  
LOCPrecision.com

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### **OTHER KITS AVAILABLE:**



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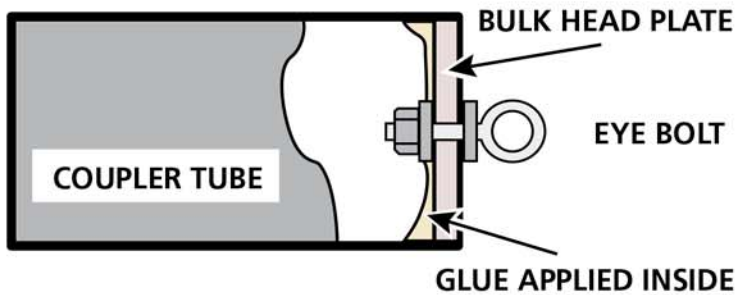
# PK-64 **EZI-65** ASSEMBLY INSTRUCTIONS

<b>PARTS LIST</b>	1 PNC-3.90 Nose Cone	1 CR-3.90-2.14 Bottom Centering Ring	1 TN-18 Tubular Nylon Shock Cord
	1 SBT-3.90-3S 34" Airframe	1 PL-3.90-11" Payload Extension	1 Eyebolt 1/4 X 20
	1 MMT-2.14 Motor Mount Tube	1 BA-3.90 Bulkhead Plate Assembly	1 Nut 1/4 X 20
	1 CR-3.90-2.14 Top Centering Ring (has 1/4" hole)	1 LL-50 or LL-25 Launch Lug	2 Washer
	1 CR-3.90-2.14 Middle Centering Ring	1 LHPC-36 Nylon Parachute	1 CEC Chain Eye Connector
	3 Plywood Fins		

- ◇ 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

- Determine how far you want the motor mount to extend beyond the aft centering ring (will vary depending on motor retention method desired). Sand the motor mount glassine layer off where the rings will mount for maximum adhesion.
- Lay the motor mount alongside of the slotted airframe with the amount of motor tube desired extending beyond and mark where the slots hit the tube. The Middle centering ring should be placed above the mark and glued in place. Fillet the top of this ring only so that when the fins are installed they will meet this ring.
- Mount the Eyebolt to the top centering ring using a washer on each side and securing the nut. A drop of glue can be used to help secure the nut. Install this ring 1/8" down from the top of the motor mount with the eyebolt pointing to the nose and apply fillets and let dry.
- With a long stick apply epoxy 18" from the slotted end of the airframe and slide the motor mount assembly into place making sure the middle ring just clears the top of the slot and set it vertically to dry.
- Sand and airfoil the fins if desired and install them in the slots keeping them perpendicular to the airframe. Fillet all internal joints if desired for maximum hold but make sure to keep the glue away from the area where the final centering ring will be mounted. Once dry, mount the final centering ring and fillet the joint.
- Sight in the high point (center of the airframe's diameter) of the airframe between any 2 fins and from 8" 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.
- Give all fin and launch lug joints **ADDED** epoxy fillets for **MAXIMUM** strength.



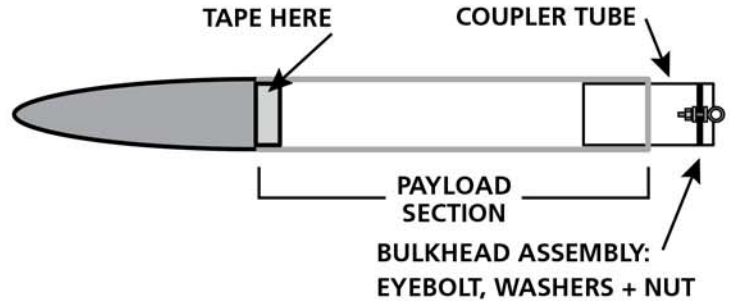
## Bulkhead Plate Assembly Instructions

Assemble the *Bulkhead Plate Assembly* and the *Payload Assembly* per the instructions below.

- Assemble the eye bolt with two washers and nut into the center hole of the bulkhead plate. Check for alignment. Place a generous bead of glue around the the eye bolt and washer from atop the bulkhead plate.
- 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.
- For **MAXIMUM STRENGTH**, when dry, place another layer of glue around the inside of the bulkhead plate, eye bolt, washer and nut.

## Payload Assembly Instructions

- Glue 1/2 of the length the Bulkhead Assembly into the payload section as shown. Be sure to seat the eyebolt deep into the wood ring and fillet the backside of this well with glue. The force of motor ejection can be enough to pull out an eyebolt if it is not well seated.
- Secure Nosecone to Payload section with masking tape for a tight friction fit. (Note: as an alternate, small screws can be used here if desired –not included with kit).



## Main Airframe Assembly Instructions, Continued

- 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.
- 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.
- When the paint is completely dry, take one sewn loop end of the tubular nylon shock cord and pass it through the screw eye of the bulkhead plate assembly. Secure it by passing the opposite end through the sewn loop and then tighten.
- Secure the other sewn loop end of the shock cord to the eyebolt of the top centering ring using the chain eye connector.
- 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.
- Select a motor for first flight. When using 29mm motors or 38mm motors, it is necessary to use LOC's motor mount adapter MMA-3, for 29mm motors and MMA-4 for 38mm motors, (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.
- Remember to use enough recovery wadding to protect the chute and shock cord from the hot ejection gases.
- 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.

