

PK-28

# STARBURST™

**Height: 49"**

**Weight: 20 oz.**

**Diameter: 2.630"**

**Flights to over 1,800 ft.**

**Motor Suggestions:**

**(2) D12-5, (2) E30-7**

**(2) E26-7, (2) F32-10**

**Kit Features Include:**

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



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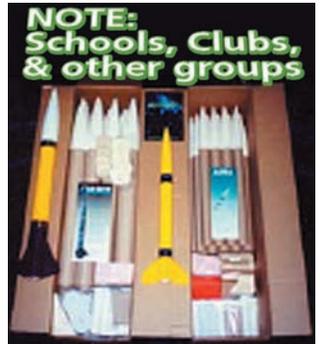
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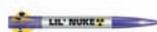
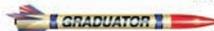


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LOC/PRECISION MULTI-PACKS are now available for this and other LOC/PRECISION models. For more information on launching model rockets in your area contact the National Association of Rocketry (NAR) at [www.nar.org](http://www.nar.org) or the Tripoli Rocketry Association at [www.tripoli.org](http://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-16 GRADUATOR
-  PK-20 VIPER III
-  PK-24 VIPER IV
-  PK-25 ISIS
-  PK-26 SHADOWHAWK
-  PK-27 TWEED-B
-  PK-49 HEAVY DUTY BEAUTY
-  PK-32 FORTE
-  PK-45 NORAD PRO MAXX
-  PK-48 LOC-IV
-  PK-50 FANTOM
-  PK-51 FANTOM-EXL
-  PK-57 3.90 V2

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# PK-28 STARBURST - ASSEMBLY INSTRUCTIONS

## PARTS LIST

Nose Cone PNC-2.56	Launch Lug LL-25
30" Airframe BT-2.56	Shock Cord Mount
2 Motor Mount Tubes MMT-0.950	Nylon Elastic Shock Cord
2 Centering Rings CR-2.56-0.95	Nylon Parachute LP-18
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

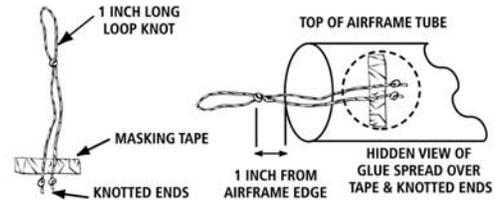
- Using fine sandpaper, sand the outside of the main airframe, motor mount tubes, and launch lug for better epoxy adhesion.
- Lay the two motor mount tubes (24mm) side by side. Place a small continuous bead of epoxy to attach them together. Use masking tape to clamp together until dry. Attach the centering rings 1/8" from each end of the dual tubes. Add a small amount of epoxy. When dry, turn over 180 degrees and add fillets of epoxy. When dry, turn over again and add fillets to this side too.
- Apply a continuous bead of epoxy around the inside of the preslotted airframe, 10" up from its slotted end. DO NOT GET ANY EPOXY IN THE FIN SLOTS! Take the assembled motor mount and push it straight up into the epoxied end of the pre-slotted airframe until the bottom centering ring is 1/8" below the pre-slotted airframe's edge. Position of the dual motor mount tube assembly in relation to the fin slots is NOT critical. Set in an 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.
- Sand all fins smooth and round off their leading and trailing edges using medium then fine sand paper.
- Test fit the fin tabs (which protrude out from the fin's root edge) into the airframe's fin slots. Sand fin tabs, if necessary, for proper fit. Place epoxy on the fin tab and partially exposed fin root edge. Place the fin tab in the slot and keep the airframe in a horizontal position while drying. Make sure that the fin is straight up from the airframe tube. When dry, repeat this procedure with the remaining fins.
- Sight the high point (center of airframe's diameter) of the airframe between any two fins and from 10" up from the airframe's bottom edge make a small pencil mark. From this mark, make a straight line up about 6" long. Epoxy the launch lug directly on this line, making sure that it is parallel to the airframe. Set aside to dry in a horizontal position.
- Give all fins and launch lug joints added epoxy fillets for maximum strength.

## Shock Cord Mount Instructions

LOC/PRECISION'S Shock Cord Mount is easy to make and install, yet is very strong! This mounting system makes shock cord attachment quick and easy. Follow instructions carefully!

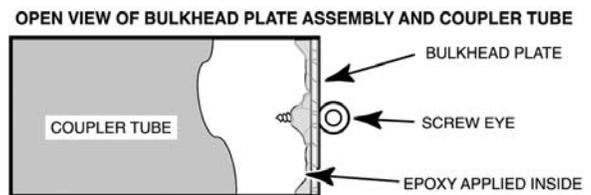
- Take the length of nylon braided cord and at its center make a 1" long loop knot and pull it tight. Make a knot a 1/4" away from the end of EACH of the two loose ends.
- Cut a piece of masking tape 1/4" wide by 1 1/4" long. This is centered crosswise just ahead of the two knots.
- Carefully place the two knotted loose ends of the Shock Cord Mount, with tape attached, inside the top of airframe tube so that the 1" long loop knot is protruding out about 1" from the airframe tube's edge. Using a small piece of wooden dowel, press the masking tape down firmly around the inside of the airframe tubing. The masking tape will keep the Shock Cord Mount in place while gluing.

- Place a generous bead of epoxy over the knotted ends and length of masking tape. Spread the epoxy around until they are completely covered and place the airframe in a horizontal position to dry. REPEAT STEP 4 UNTIL A SMOOTH EPOXY LAYER IS ACHIEVED OVER THE MASKING TAPE AND KNOTTED ENDS.



## Main Airframe Assembly Instructions, Continued

- Install shock cord mount per instructions and let dry.
- Screw in the screw eye to the bulkhead plate (eyelet screw) all the way, with perfect alignment. Add epoxy around the visible screw threads. Allow to dry. Fit the bulkhead plate into the coupler tube so the surface is even with the end of the coupler tube. Sand if necessary to make a perfect fit. Add a fillet of epoxy to the joining surfaces inside of the coupler tube. Later, for added strength add another even coat of epoxy.



- 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 the nosecone with fine sandpaper to remove molding seam line.
- When you are satisfied with the smooth and sanded finish of your model it is ready to prime and then paint in the colors of your choice.
- When the paint is completely dry, take one end of the shock 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 screw eye of the payload section and also secure it with a double knot. Place a SMALL drop of epoxy on both knots to keep them permanently secured.
- Attach the chute to the shock cord about 3" away from the payload section. To do this, take the chute shroud line loop ends 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.
- For high altitude flights make sure that the nose cone fits tightly into the payload section. Also the coupler of the payload section should have a slightly snug fit in the main airframe.
- Select two of the same motors for first flight, because of all the different motor combination 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 motors from pushing forward upon ignition. Friction fit each 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 motors from ejecting rearward upon activation of the ejection charge.
- Remember to use enough recovery wadding to protect the chute from the hot ejection charge gases.
- Always follow motor manufacturer's instructions for motor use and ignition, and launch this vehicle on calm, windless days to insure safe recovery.

