FINISH

Spray rocket with primer, sand and repeat until smooth finish is obtained. Spray rocket with paint of choice, let dry. Apply protective clear coat.

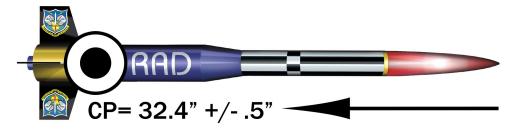
Recovery

The chute is attached to the shock cord about 3" away from the nose cone. Using ALL the chute shroud line loop ends, tie a double knot around the shock cord and pull on it TIGHTLY. ALWAYS CHECK DOUBLE KNOT RIGHT BEFORE LAUNCHING!

FLY!

When using 24mm motors it is necessary to use LOC's motor mount adapter MMA-1 (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.



Sim!

This rocket is recommended for mid-power rocket motors F — H impulse. Depending on your flying field and finished weight, this is a very versatile kit. The Rocksim file is available on the NORAD product page on our website. Always check stability to ensure stable flight; the Center of Gravity (CG) must be forward of the Center of Pressure (CP) in flight ready condition.

Since Yank Aeronautics LLC dba LOC PRECISION cannot control the use of it's products once sold, the buyer assumes all risks and liabilities there from, and accepts and uses LOC Precision products on these conditions.



LOCPrecision.com



PK-44 LOC NORAD

- 1 Main Airframe SBT-3.00-17"S-4
- 1 Payload PL-2.14-10"
- 4 Plywood Fins
- 1-29mm x 6" Motor Tube
- 1 Nose Cone PNC-2.14
- 1 Airframe Reducer AR-3.00-2.14

- 1 Shock Cord Mount
- 2 Centering Rings CR300-114
- Nylon Parachute LP-28
- 1/4" Launch Lug
- Elastic Shock Cord

Due to the high thrust motors that can be flown in this rocket, epoxy is recommended!

Before beginning construction, read over instructions to become familiar with the proper construction steps. **TEST FIT ALL PARTS!** Light sanding may be necessary to obtain proper fit.

STEP 1

Epoxy one centering ring 1/8" in on one end of it of the motor tube. Epoxy another on the opposite end so 1/8" of the motor tube is protruding from the ring. When dry, give both sides of the centering ring/motor mount tube joint a good fillet coat of epoxy to insure maximum strength. Do one side at a time, letting it dry in an upright position before starting on the opposite side.

STEP 2

Apply a continuous bead of epoxy around the inside of the pre-slotted airframe, 1/8" up from its slotted end. DO NOT GET ANY EPOXY IN THE FIN SLOTS!! Take centering ring/motor mount tube assembly and push it straight up into the epoxied end of the pre-slotted airframe, until the bottom centering ring is 1/8" up into the pre-slotted airframe's bottom edge. Set in an upright position to cure.

STEP 4

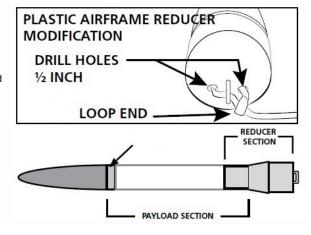
Lightly sand airframe reducer and nose cone with fine sandpaper to remove molding seam line.

STEP 5

Apply a continuous bead of epoxy around the inside of the payload section 1/2" in from its top end. Insert nose cone and allow to cure. Apply a continuous bead of epoxy around the inside of the opposite end of the payload

section 1/2" in from its top end. Insert the 2" OD end of the airframe reducer. Allow to cure.

The plastic loop on the 3" OD side of the reducer is not sturdy enough for a shock cord attachment point. The graphic to the right is the preferred method and will ensure everything stays together!

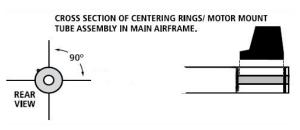


STEP 6

Sand all fins smooth and round off the leading and trailing edges of them, using medium, then fine sandpaper. Also bevel both sides of fin root edge for better contact in the motor mount tube valley joints.

STEP 7

Test fit the fins into the airframe's fin slots. Sand if necessary, for proper fit. Place epoxy on one of the fin's root edges and place the fin in the slot and push it down until the root edge sets on the motor mount tube. Keep the airframe in a horizontal position while drying. Make sure that the fin is straight up from the airframe tube and against the slot's bottom



edge. When dry, repeat this procedure with the remaining fins.

STEP 8

Sight in the high point (center of the airframe's diameter) of the airframe between any 2 fins and from 3" up from the airframe's bottom edge, make a small pencil mark. From this mark, make a straight line up 6" long. Epoxy the launch lug directly on this line, making sure that it is parallel to the airframe. Set aside in a horizontal position to dry.

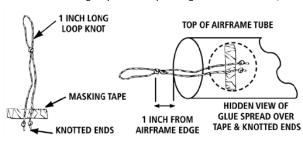
STEP 9

Give all fin and launch lug joints added epoxy fillets for maximum strength.

STEP 10

Take the length of Kevlar 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.