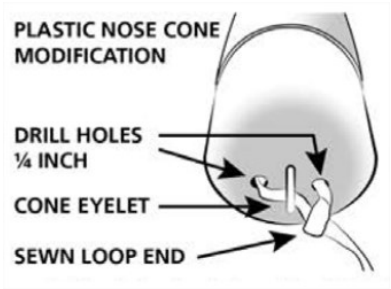
STEP 8

Refer to the graphic to the right. Modify the nose cone as shown and attach shock cord. Measure out 2' from the shock cord coming out of the payload section. Attach parachute shroud lines by looping over shock cord and passing back through shroud lines making a knot. Some use a quick link or swivel, this is your choice, knot ours!



STEP 9

Install the rail guides into the booster with provided screws. Try to aim for the aft and forward rings centered between the fins. Drill a hole smaller than the screw so the screw threads into it. Drop a small amount of epoxy in drilled hole, thread the rail guide and screw in the hole, rotate rocket 180 degrees & let cure. Repeat for the forward rail guide.

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.

Sim!

This rocket is recommended for high power rocket motors D through G impulse. Depending on your flying field and finished weight, this is a very versatile kit. The Rocksim file is available on the 3" MAGNUM 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.

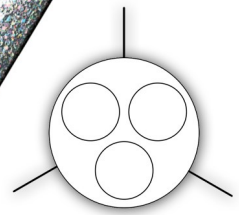
LOC PRECISION 3.0 ™
ADVANCED ROCKETRY KITS AND COMPONENTS

MAGNUM

FLYING MODEL ROCKET KIT

5,000'
600'

D - G
Clustered Flights



3x29mm Cluster Motor Configuration

DIAMETER **3.1"**

HEIGHT **44"**

WEIGHT **24oz**

Featuring:

- 3.1" Pre-Slotted Airframe
- Polypropylene Nose Cone
- Laser Cut Fins/Rings
- 36" Rip-Stop Nylon Parachute
- 15'Nylon Shock Cord
- 3x29mm MMT
- Baffle System
- Rail Guides
- Hardware

LOC PRECISION ™
ADVANCED ROCKETRY KITS AND COMPONENTS

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

MAG329

HAND MADE IN THE USA

LOC 3" MAGNUM

-17" Slotted Booster, 14" Payload
-Polypropylene Nose Cone
-36" Parachute
-15' Nylon Shock Cord
-3 x 29mm Motor Tube
-1/8" Fin Set
-2 1/8" Centering Rings
-Baffle System
-2-1000 Series Rail Guide
-Quick Link

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

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

Rough sand the motor tubes to ensure proper adhesion The FWD ring has an eye bolt hole if you choose not to use the baffle system. Make you your mind now. Install eye bolt in FWD ring if you are not going to use the baffle. If not save the eye bolt for the baffle. Slide the FWD ring onto the 29mm motor tubes so the tube is 1/8" exposed from the ring. Slide the AFT ring on leaving 1/8" of the motor tubes exposed. Ensure rings are perpendicular to the motor tubes and tack into place. Once cured Make an epoxy fillet to the joint where the motor tubes meet the rings. Allow to cure.

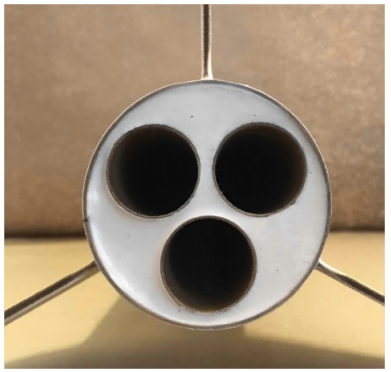
STEP 2

Slather epoxy up the AFT of the booster (the end with fin slots) FWD of the fin slots. Insert motor mount assembly until AFT ring is 1/8" recessed.. Align each slot in between each motor tube. The fin root will epoxy to two motor tubes. You can quickly dry fit the fins in the slots for proper alignment. When aligned, remove the fins. Stand airframe AFT down to cure. You may always add more epoxy to the FWD ring by drizzling epoxy onto the ring from the FWD end of the booster. **DO NOT** get any epoxy in the motor tubes!

STEP 3

Flip airframe over so AFT is upright. Apply an epoxy fillet to the intersection where the AFT ring meets the airframe. **DO NOT** get any epoxy in the motor tubes! Allow to cure.

STEP 4



Reposition airframe laying down. Apply a generous bead of epoxy to the root edge of one fin and insert in the fin slot. Allow to cure before moving onto the next fin. When all fins are epoxied in place, apply an external filet to each fin to airframe joint.

STEP 5

Gather the baffle components. Install eye bolt in pre-drilled hole in the FWD bulkhead. Tighten and epoxy the nut. Epoxy each bulkhead to each baffle tube leaving 1/8" of the tube exposed to one end. Allow to cure. Insert each bulkhead in opposite ends of the coupler tube. The baffle tubes will be next to each other. Check fit, once satisfied you can epoxy in place. Epoxy one side at a time give the FWD and AFT of the bulkhead an epoxy fillet to the coupler to ensure strength.

STEP 6

Slather epoxy in the FWD end of the booster from the end down 1". Insert the baffle system, eye bolt side out, twisting inward until half the coupler is exposed. Tape in place and allow to cure.

STEP 7

Attach quick link to baffle eye bolt. Then attach one end of shock cord to the quick link and tighten.