

### STEP 6

Smear epoxy 1/4" in, around inside diameter of coupler. Install and recess bulkhead in coupler 1/8" inch. Allow to cure. Epoxy fillet where the bulkhead meets the coupler. Slather epoxy in one end of payload section 2" up. Insert coupler 4" into payload airframe. Allow to cure.



### STEP 7

Install the rail guides into the booster with provided screws. Try to aim for just FWD the aft ring and into FWD ring, 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.

### STEP 8

Feed shock cord through bulkhead eye bolt 2' from end. Tie your favorite knot. Use quick link through sewn loop at the end of shock cord. Feed parachute shroud lines through eye bolt. Feed chute through shroud lines, pull tight.

### FINISH

Spray rocket with primer, sand and repeat until smooth finish is obtained. Spray rocket with paint of choice, let dry. Apply vinyl decals by cutting around the decal leaving enough room to use transfer paper when applying. Apply protective clear coat.

### Sim!

This rocket is recommended for mid to high power rocket motors G through I impulse. The Rocksim file is available on the Phoenix 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. If appropriate, add nose weight to what range of motors you'll be flying!



**CP= 31.5" +/- .5"**

7.5" Phoenix Pictured

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FLYING MODEL ROCKET KIT

# AIM-54C PHOENIX



3,100'  
1,000'

**G-I**  
Capable Impulse

DIAMETER 4.0"

HEIGHT 42.5"

WEIGHT 3lb

### Featuring:

- 4" Pre-Slotted Airframe
- Polyethylene Nose Cone
- 36" Rip-Stop Nylon Parachute
- 15' Nylon Shock Cord
- 38mm Motor Mount
- Motor Retention
- Rail Guides
- Hardware
- Vinyl Decal Set



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7.5" Phoenix pictured



## LOC AIM-54C PHOENIX PHOENIX4

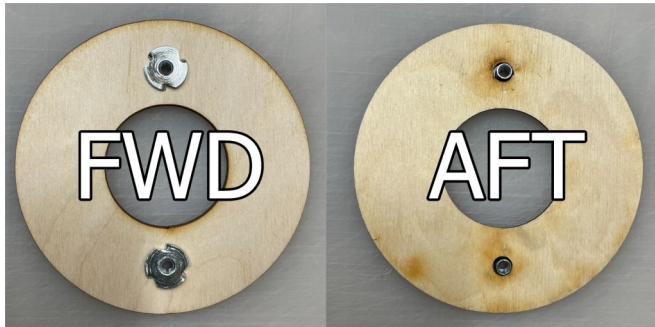
- 23" Slotted Airframe
- 7" Payload Section
- Nose Cone
- 36" Parachute
- 15' Nylon Shock Cord
- 11" x 38mm Motor Tube
- 3 1/8" Centering Rings
- 1 38mm 1/4" FWD CR
- 1/8" Phoenix Fin Set X2
- 1000 Series Rail Guides
- Z Clip Motor Retention
- Vinyl Decal Set
- Hardware — 2 T Nuts, 2 8x32x.75", 3/16" Quick Link, .25x20 Eye Bolt

**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

Hammer or press the T Nuts in the AFT 38mm ring 1/4" lasered holes. T Nut flange should be on the **FWD** side of the ring. Epoxy fillet the aft outer diameter of the T Nuts to ensure they remain in place.



### STEP 2

Rough sand or remove the glassine layer of the motor tube to ensure proper adhesion. Align rings onto motor tube as shown. Insert the fins between rings obtain proper alignment. Install the eye bolt in FWD ring and tighten. Epoxy each ring into place and fillet the intersection where the rings meet the motor tube. Epoxy the nut of the eye bolt. Be sure to keep epoxy clear of where the fin root meets the motor tube!



### STEP 3

Attach shock cord to forward ring eye bolt. Pass loop through eye bolt, then pass shock cord through it's own loop as shown. Don't get any epoxy on the shock cord!



### STEP 4

Lightly sand airframe/fill spirals if desired. Apply epoxy between fin slots inside the airframe. Push the assembly forward until the MIDS and AFT ring slots are visible and aligned properly through the slot. **Ensure the T Nuts or eye bolt will not interfere with fin roots.** Check your alignment by inserting the fins (and quickly removing them) in the slots before it cures!! Set upright to cure. At this point you may drizzle epoxy from the forward end of the booster onto the forward ring to adhere the ring to the airframe; being careful not to get epoxy in the motor tube. Next turn the booster upside down so the AFT section is up. Apply a nice epoxy fillet to the aft ring where the ring meets the airframe. **DO NOT** get any epoxy in the T Nuts!!! Allow to cure.

### STEP 5

Reposition airframe laying down. Finally 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 fillet to each fin to airframe joint.