

**STEP 6 Apogee Deployment** Apogee deployment is packed in the booster. Knot quick link in shock cord approximately 3' from the end. Attach ebay eye bolt to quick link. At the end sewn loop tie streamer to the loop.

**STEP 7 Main Deployment** Main parachute deployment is packed in the payload. Refer to step 2 to attach shock cord to eye bolt. Modify nose cone by drilling 2—1/2" holes and feeding shock cord through. Connecting by using the sewn loop end and quick link. 3' down from cone attach parachute by laying shock cord over shroud lines and inserting parachute through shroud lines and pulling tight. Some choose to knot or use a swivel.

**STEP 8** Using masking tape to friction fit or screws, you need to retain the nose cone on the payload.

**STEP 9** Install rail guides into 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.

**Tips** IF flying dual deploy, the payload section needs to friction fit with masking tape on the coupler. Some choose to use shear pins to contain the ebay to the payload during apogee deployment. This kit can be flown single deploy as well. The payload would need to be retained to the ebay using friction fit, rivets, shear pins or screws.

#### 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 F through H impulse. Depending on your flying field and finished weight, this is a very versatile kit. The Rocksim file is available on the Deployer 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.

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# DEPLOYER

FLYING MODEL ROCKET KIT



2.500'

300'

# F-H

Capable Impulse

DIAMETER 3.0"

HEIGHT 46.5"

WEIGHT 29oz

**DUAL DEPLOY  
READY**

#### Featuring:

- 3" Pre-Slotted Airframe Payload
- Polypropylene Nose Cone
- Electronics Bay
- 28" Rip-Stop Main Parachute
- Streamer Drogue
- 2x12' Nylon Shock Cord
- 29mm Motor Mount
- Rail Guides
- Hardware
- Vinyl Decal



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# LOC 3"

## DEPLOYER



- 24" Slotted Booster, 10" Payload
- Electronics Bay
- Polypropylene Nose Cone
- 28" Main Deployment Parachute
- 40" Apogee Deployment Nylon Streamer
- 2x12" Nylon Shock Cord
- 29mm Motor Tube
- 1/8" Fin Set
- 3 1/8" Centering Rings
- 2-1000 Series Rail Guide
- Hardware — 3/16" Quick Link, 1- Eye Bolt
- Vinyl Decal



### STEP 3

Slather epoxy in the AFT of the airframe between each fin slot or FWD of the slots. Insert motor mount assembly up the airframe. Slide all the way up the airframe until the MMT is flush or slightly recessed with the AFT of the airframe. Once cured, apply epoxy fillet bonding airframe to the AFT ring. 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 fillet to each fin to airframe joint.

CROSS SECTION OF CENTERING RINGS/ MOTOR MOUNT TUBE ASSEMBLY IN MAIN AIRFRAME.



### Step 5 Electronics Bay Construction

Install eye bolts into each bulkhead plate. Insert one bulkhead into coupler, recess 1/8". Epoxy fillet bulkhead coupler intersection. Allow to cure. Apply epoxy fillet to other side bonding bulkhead to coupler. Allow to cure.

Insert threaded rod standoffs (blinkies) into the lasered holes in the sled. Epoxy fillet all four where the blinkie meets the sled. Keep the threaded rod hole clear of epoxy!

Thread standard nut onto each end of each threaded rod about 1/2" from end. Insert a washer flush with each nut. Install rods into rod holes in the non-epoxied bulkhead. Follow that up with 1 more washer per rod and a locking nut.

Install threaded rods through holes in epoxied bulkhead.

Measure the coupler and make a mark half way at 3". Slather epoxy at the 3" mark around the diameter of the coupler at the 3" mark. 1/4" wide. Slide the switch band over the coupler so the band is in the middle. Wipe off any excess epoxy. Allow to cure.



**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

Rough sand the motor tube to ensure proper adhesion OR remove the outer glassine wrap. Slide AFT ring onto the motor tube so the tube is 1/8" exposed from the ring. OR measure out where the FWD of the fin tab will be, some choose to sandwich their rings to the fin tabs. Insert MID ring from other end measuring to ensure it does not interfere with fin slots. Slide FWD motor tube so 1/8" of the motor tube protrudes. Tack rings into place with epoxy, allow to cure. Epoxy fillet both sides where the ring meets the motor tube. Make sure epoxy fillet will not interfere with fin tabs on motor tube! Allow to cure.

### STEP 2

Install eye bolt in FWD ring, epoxy nut. Allow to cure. Attach shock cord to forward ring eye bolt. Pass loop through eye bolt, then pass shock cord through it's own loop as shown. Ball up shock cord and feed down AFT of motor tube to keep it away from epoxy for the next steps.

