US ARMY HAWK

FLYING MODEL ROCKET KIT

1,200’

400’

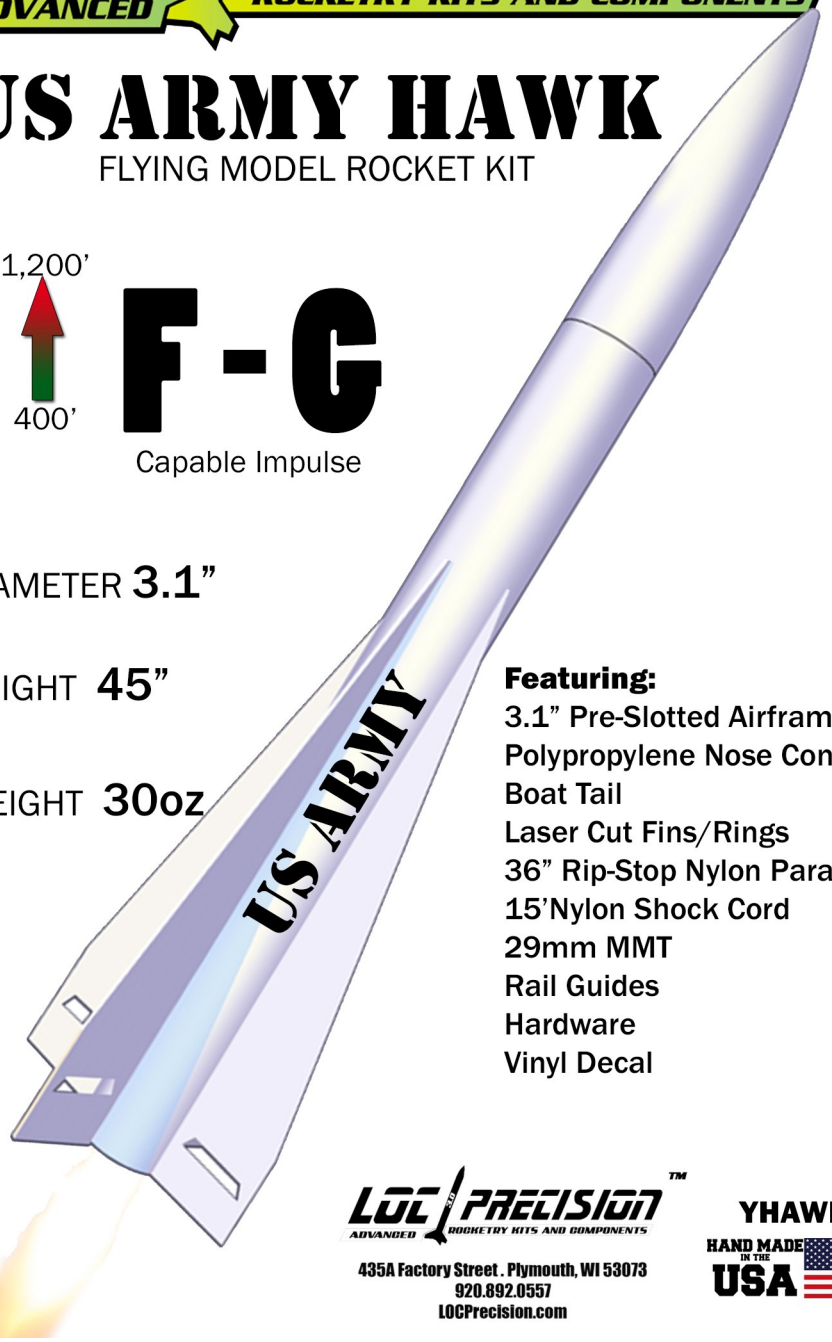
F-G

Capable Impulse

DIAMETER **3.1”**

HEIGHT **45”**

WEIGHT **30oz**

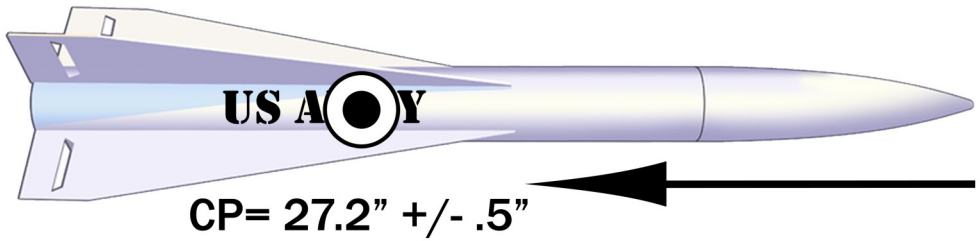


Featuring:

- 3.1” Pre-Slotted Airframe
- Polypropylene Nose Cone
- Boat Tail
- Laser Cut Fins/Rings
- 36” Rip-Stop Nylon Parachute
- 15’Nylon Shock Cord
- 29mm MMT
- Rail Guides
- Hardware
- Vinyl Decal

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 high power rocket motors F through G impulse. Depending on your flying field and finished weight. The Rocksim file is available on the 3” HAWK 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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YHAWK3

HAND MADE IN THE USA

LOC 3" HAWK

-31" Slotted Booster
-Polypropylene Nose Cone
-Polypropylene Boat Tail
-Coupler Tube
-36" Parachute
-15' Nylon Shock Cord
-29mm Motor Tube
-1/8" Fin Set
-2 1/8" Centering Rings
-1 1/8" Boat Tail Ring
-2-1000 Series Rail Guide
-Quick Link
-US ARMY Vinyl Decals

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 The FWD ring has an eye bolt hole. Install eye bolt in FWD ring and epoxy the nut. Allow to cure. Slide the FWD ring onto the 29mm motor tube so the tube is 1/8" exposed from the ring. Slide the 3" x 29mm ring on the AFT of the motor tube. The 2.56" x 29mm ring is the AFT ring that will fit in the AFT of the boat tail. Please test fit assembly and boat tail. Depending on your choice of motor retention, once satisfied with ring positioning, continue. Ensure rings are perpendicular to the motor tubes and tack into place with epoxy. Once cured, make an epoxy fillet to the joint where the motor tubes meet the rings. Allow to cure.

STEP 2

Pass shock cord loop through eye bolt, then pass shock cord through it's own loop as shown. Pass shock cord through motor tube so the length is out the AFT. This will help keep epoxy away from the shock cord in the next step.

STEP 3

Slather epoxy up the AFT of the booster (the end with fin slots) FWD of the AFT fin slots. Insert motor mount assembly until AFT ring is 1/8" recessed.. 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 tube!

STEP 4

Flip airframe over so AFT is upright. Slather epoxy the circumference of the AFT of the booster. Twist as sliding in boat tail in the booster. Apply an epoxy fillet to the intersection where the 2.56" x 29mm AFT ring meets the boat tail. **DO NOT** get any epoxy in the motor tube! Allow to cure.

STEP 5

Reposition airframe laying down. Dry fit the fins ensuring the fit is correct. 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.

STEP 6

Drill 2 3/8" holes in the AFT cone shoulder on opposite sides. With hot soapy water rinse the interior of the nose cone to remove mold release agents. Empty water from cone and allow to dry.

STEP 7

Mix up 2oz of epoxy. With the cone standing tip down, pour epoxy down into FWD end. This rocket requires this to be stable. Allow to cure.

STEP 8

Pass the shock cord through the 2 drilled holes in the cone. You can use a guide wire for easy threading.

STEP 9

Use quick link through the sewn loop attaching to the shock cord. Attach parachute by feeding shroud lines through quick link. Then pass parachute back through shroud lines making a knot. Some use swivel to eliminate spin on decent.

STEP 10

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.