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.

FLY!

Select a motor for first flight. 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.

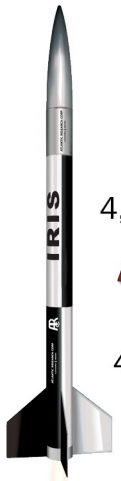
Sim!

This rocket is recommended for mid-power rocket motors G — I impulse. Depending on your flying field and finished weight, this is a very versatile kit. The Rocksim file is available on the 2" IRIS 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 3.0 PRECISION™
ADVANCED ROCKETRY KITS AND COMPONENTS

IRIS

FLYING MODEL ROCKET KIT



4,500'

400'

G-I

Capable Impulse

DIAMETER **2.26"**

HEIGHT **39.5"**

WEIGHT **16oz**

Featuring:

2.26" Pre-Slotted Airframe
Polypropelene Nose Cone
28" Rip-Stop Nylon Parachute
15' Kevlar Shock Cord
29mm Motor Mount
Launch Lugs
Hardware
Vinyl Decal

LOC 3.0 PRECISION™
ADVANCED ROCKETRY KITS AND COMPONENTS

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

YIRIS2

HAND MADE IN THE USA

LOC 2" IRIS

-30" Slotted Booster
-Polypropylene Nose Cone
-28" Parachute
-15' Kevlar Shock Cord
-12" 29mm Motor Tube
-1/8" Fin Set
-3 1/8" Centering Rings
-1/4" Launch Lug
-Screw Eye
-Vinyl IRIS 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 OR remove the outer glassine wrap. The fin slots are 4.625" long. Outside the airframe assemble the rings onto the motor tube. Dry fit the fin tabs so they will be sandwiched between the AFT and MID rings. Make sure rings are perpendicular to the motor tube and mark where they should be tacked into place. Remove test fins, tack rings into place with CA glue or epoxy. Allow to cure. Once cured apply an epoxy fillet to both sides of the FWD ring, the FWD side of the MID ring and the AFT side of the AFT ring where the it meets the motor tube. Allow to cure.

STEP 2

Install screw eye into FWD ring. Epoxy the backside to ensure it won't thread out. Allow to cure.

STEP 3

Feed Kevlar shock cord into the screw eye. Tie your favorite knot. **TIP:** ***Feed the shock cord down to the AFT of the motor tube. Rubber band or tape to the inside AFT of the motor tube. This will help keeping epoxy away from it in the next steps.***

STEP 4

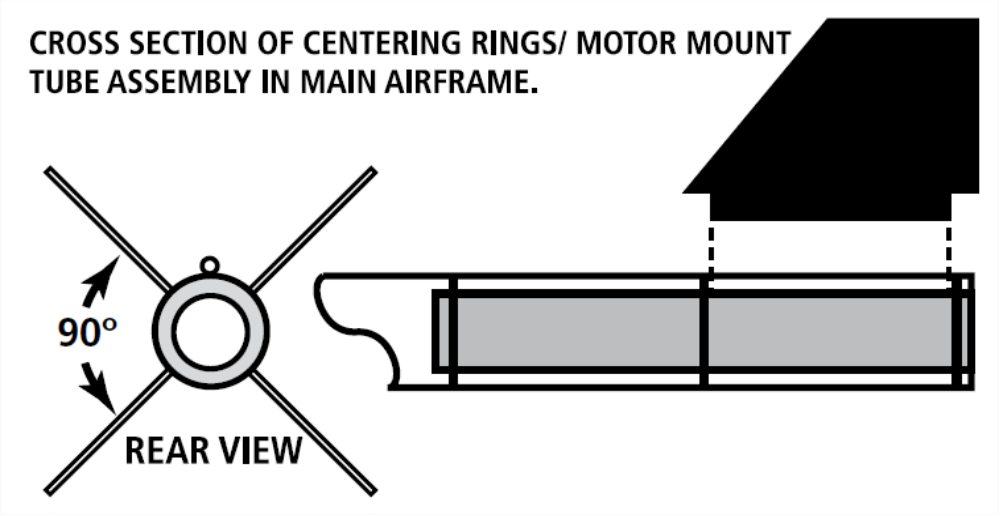
Slather epoxy in between and or FWD of the fin slots inside the airframe. Insert MMT assembly up the airframe until the AFT ring is recessed 1/8" to 1/4". Allow to cure. Flip booster so AFT end is up. Apply an epoxy fillet to where the ring meets the airframe. Allow to cure.

STEP 5

With the airframe FWD standing up, drizzle epoxy onto the FWD ring. Be sure ***NOT TO*** get any epoxy in the motor tube. Allow to cure.

STEP 6

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. Allow each to cure.



STEP 7

Sight in the high point (center of the airframe's diameter) of the airframe between any 2 fins and from 12" up from the airframe's aft end, make a small pencil mark. From this mark, make a straight line up about 12" long. Cut the launch lug at an angle to reduce drag. Epoxy the launch lug directly on this line, making sure that it is parallel to the airframe. Set aside to cure in horizontal position.

STEP 8

Unwrap/untape the shock cord from the AFT of the motor tube. Feed it FWD through the motor tube so it's protruding out the FWD of the airframe. Feed the end of the shock cord through the plastic loop at the base of the nose cone. Pull 2' or so, from the end, through the loop. Make your favorite knot. Next at the end of the shock cord, tie on the parachute shroud lines and make a knot. This will make the rocket decent in a straighter line, parachute, cone to booster.

FINISH