

STEP 9

Install the rail guides into the booster, between fin set, at the high point of the tube, with provided screws. Pre-drill and use epoxy! For the AFT guide, you need to screw into the tail cone shoulder **ring**. For the FWD guide go at least 10" FWD of the AFT guide. You'll also need a smooth backing for the guide screw. Whatever type of material you choose, it should be smooth and as low profile as possible. Upon ejection, you do not want any of your recovery to get caught on the back of the screw!!!

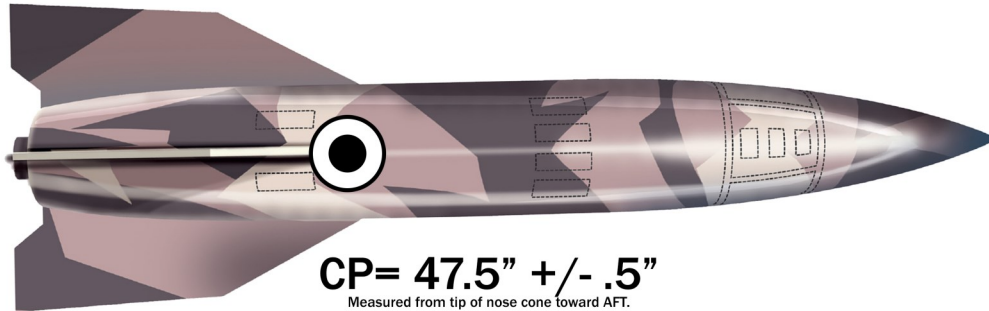
Adaptors

The kit includes a 98mm to 54mm adaptor. Slide 98mm x 54mm ring onto 54mm MMT to the 14" mark. Slide the other ring on leaving 1/4" of MMT exposed. On the opposite end slide the 54mm adaptor ring on leaving 3/4" of the MMT exposed. Test your fit in the 98mm MMT. You should be able to slide the adaptor in from the FWD end resulting in a near flush AFT of the ring and 98mm MMT. When satisfied with alignment, remove adaptor from 98mm MMT. Epoxy fillet each side of the rings ensuring strength.



To install the adaptor, insert from FWD end. Using provided t nut screws and washers, anchor the adaptor in.

More adaptors may be purchased from us in the **Components > Modular Motor System**.



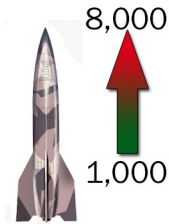
CP= 47.5" +/- .5"
Measured from tip of nose cone toward AFT.

Sim!

This rocket is recommended for high power rocket motors J through M impulse. Depending on your flying field and finished weight, this is a very versatile kit. The Rocksim file is available on the V2 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.

Since Yank Aeronautics LLC dba LOC PRECISION cannot control the use of it's products once sold, the buyer assumes all risks and liabilities there from, and accepts and uses LOC Precision products on these conditions.

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J-M
Capable Impulse

ADAPTABLE MMT
75mm - 38mm 3x38mm
Optional Purchase

DIAMETER 7.5"
HEIGHT 63"
WEIGHT 15lb

Featuring:

- 7.5" Pre-Slotted Tail Cone
- RNWS Nose Cone
- 78" Rip-Stop Nylon Parachute
- 25' Nylon Shock Cord
- Y Recovery Harness
- 98mm Motor Mount
- 54mm Motor Adaptor
- Rail Guides
- Hardware



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





LOC 7.5" V2

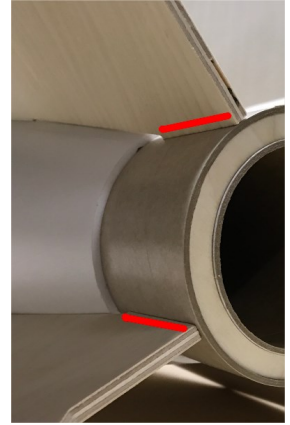
- 24" Airframe
- 7.5" Pre-Slotted Tail Cone
- Tail Cone Ring
- 7.5" x 4" Airframe FWD Ring
- RNWS Nose Cone
- 78" Parachute
- 25' Tubular Nylon Shock Cord
- Y Recovery Harness
- 98mm x 24" Motor Mount
- 54mm x 25" Motor Adaptor
- 2-1500 Series Rail Guide
- Hardware—4 Quick Links, 4 T-Nuts, 4 Washers, 2 U-Bolts

STEP 3—Refer to the RNWS instructions for more detailed steps

Insert tail cone ring into tail cone. Pull back the ring until it snaps and meets the tail cone shoulder. Epoxy fillet the shoulder ring to the tail cone on both AFT and FWD sides. Allow to cure.

STEP 4

With the tail cone horizontal, tip up slightly and pour epoxy through the 98mm hole and rotate. We want to keep the epoxy between a pair of slots. Insert 98mm MMT (Motor Mount Tube) into the tail cone shoulder ring and push so the MMT exits the aft of the tail cone. Check your fit with a fin. You should have enough tube sticking out of the AFT to accommodate the aft fin tabs. If you plan to use an aluminum motor retainer, check fit as well. When satisfied with alignment, remove fin. Masking tape the aft of the tail cone where it meets the MMT. This will keep epoxy from dripping out. Stand cone up and rotate so the epoxy runs down bonding the MMT tube to the tail cone. Be sure **NOT TO** get any epoxy on the MMT where the fin roots will touch to the MMT. Stand cone aft up and allow to cure. Remove masking tape after cured.



STEP 5

With tail cone upright, sitting on AFT... Epoxy fillet the MMT to the ring. Allow to cure.

STEP 6

Install FWD ring onto the FWD end of motor tube leaving 1/4" exposed from ring, Epoxy fillet both sides. Be sure **NOT TO** get any epoxy in the t nuts!

STEP 7

Rough up the tail cone where the fins will attach. 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 tail cone joint.

STEP 8

Build RNWS cone per instructions found inside cone.

STEP 9

Epoxy the 24" airframe to the assembled MMT/tail cone. Be sure **NOT** to get excess epoxy in MMT as you need to keep that clear for the adaptors. Fill tube spirals if desired. Another method is to prime with buildable/sandable primer. Prime, sand and repeat for a smooth finish.

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.

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

Using fine sandpaper, sand the outside of the main airframe. Rough sand and or remove the glassine wrap from outside of the 98mm motor tube. Lightly sand the plastic nose cone and tail cone to remove molding seam line. When sanded it is good practice to rinse the inside of the cones with hot soapy water to remove mold release agents.

STEP 2

Take the FWD ring and hammer or press the t nuts into each lasered hole. Install u bolts as well. You'll use provided quick links to connect the harness to the u bolts later when you hookup your recovery.

**Another method of t nut installation is to place screws in each hole. Thread t nut onto each screw. Tighten using a drill, they will anchor themselves!*

