



2.6" T-LOC

PARTS LIST

- * Polyethylene Nose Cone
- * Slotted Booster
- * 3/16" Tubular Nylon
- * LP-18 Parachute
- * 1/8" Fin Sets
- * 2 X Centering Rings
- * Kevlar Shock Cord Mount
- * Starter Fire Blanket
- * 1/4" Launch Lug
- * Laser Cut Fins (6)
- * Vinyl Decal

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

Install Screw eye into forward centering ring. Make sure the eye does not exceed the edge of the ring. **A test fit into the booster will ensure proper position.**



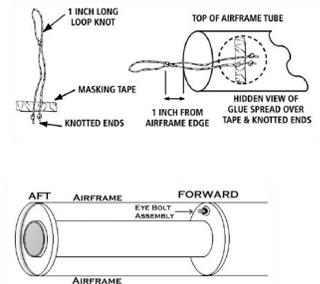
Glue the centering ring with the screw eye 1/4" from one end of the 6" length of the 29mm motor mount tube – this will be the "Top" or "Forward" end of the assembly. Make sure the eye of the ring is forward. Attach the other centering ring 1/4" from the other end of the motor mount tube – this is the "Bottom" or "Aft" end where the motor will be installed later. Make sure both rings are perpendicular (at right angles to) the motor tube. **Test fit to ensure rings will NOT INTERFERE with the fin slots!** Set aside to dry completely.

Test fit to ensure rings will NOT

STEP 2 Take the length of 2' Kevlar cord and at its center make a 1" long loop knot and pull it tight. Tie the two ends together around the screw eye and add a drop of glue to hold knot together. **OR Glue to the inside of the airframe at least 6 inches down from the forward end. If using this method the mount can be installed later.**

STEP 3

Slather epoxy up the AFT of the booster (the end with fin slots) FWD of the 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

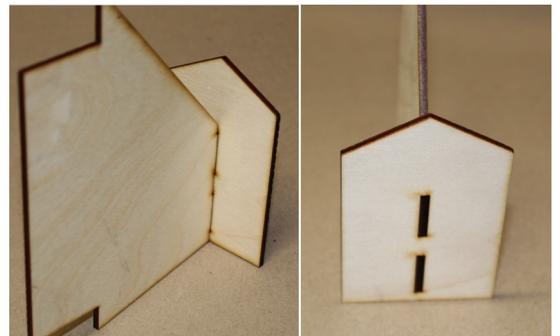
Flip airframe over so AFT is upright. Apply an epoxy fillet to the intersection where the AFT ring meets the airframe. **DO NOT** get any epoxy in the motor tube or the T-nut! Allow to cure.

STEP 5

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.

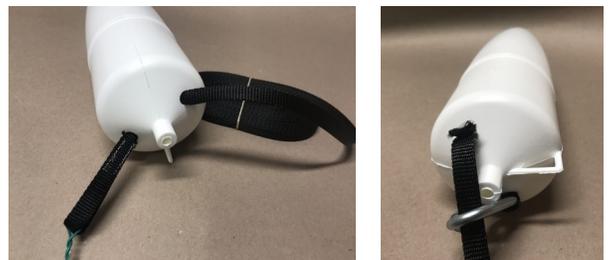
STEP 6

Install the T-Fins on the outer edge of each fin. Tack the fins onto the main fins with quick cure epoxy or CA. When all cured, epoxy fillet the fin/T-Fin intersections on both sides. Allow to cure.



STEP 7

IF using high thrust motors, then the plastic loop on the cone may not be strong enough. Refer to the graphic to the right. Modify the nose cone as shown and attach shock cord. Measure out 2' from the shock cord coming out of the payload section. Attach parachute shroud lines by looping over shock cord and passing back through shroud lines making a knot. Some use a quick link or swivel, this is your choice, knot ours!

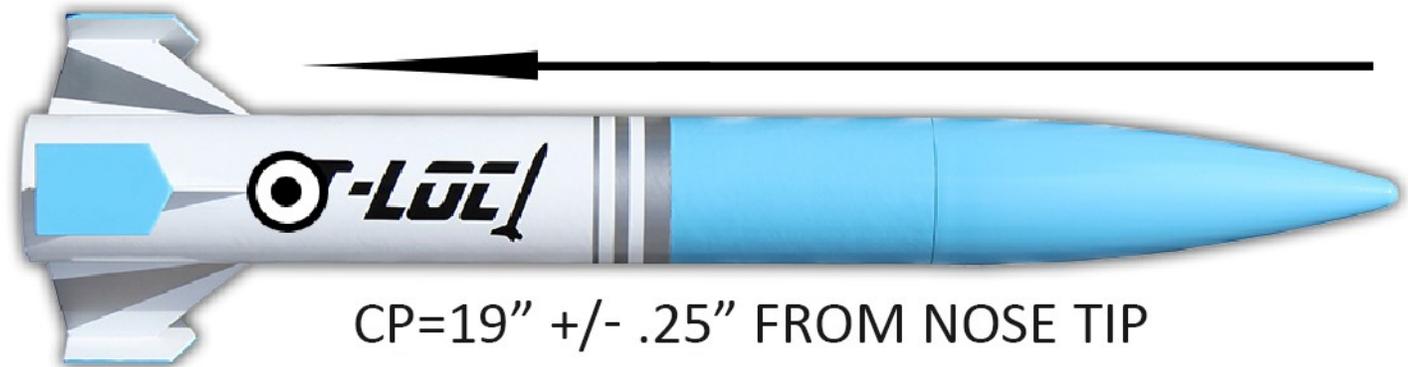


STEP 8

Epoxy the launch lug directly 1" from the aft of the rocket at the intersection of where a fin meets the airframe. This will ensure the lug is parallel to the airframe. Set aside to cure in the horizontal position.

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. Apply vinyl decals to your liking, repeat with clear coat.



Sim!

This rocket is recommended for high power rocket motors D through G impulse. Depending on your flying field and finished weight, this is a very

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MODEL ROCKET SAFETY CODE

Materials. I will use only lightweight, non-metal parts for the nose, body, and fins of my rocket.

Motors. I will use only certified, commercially-made model rocket motors, and will not tamper with these motors or use them for any purposes except those recommended by the manufacturer.

Ignition System. I will launch my rockets with an electrical launch system and electrical motor igniters. My launch system will have a safety interlock in series with the launch switch, and will use a launch switch that returns to the "off" position when released.

Misfires. If my rocket does not launch when I press the button of my electrical launch system, I will remove the launcher's safety interlock or disconnect its battery, and will wait 60 seconds after the last launch attempt before allowing anyone to approach the rocket.

Launch Safety. I will use a countdown before launch, and will ensure that everyone is paying attention and is a safe distance of at least 15 feet away when I launch rockets with D motors or smaller, and 30 feet when I launch larger rockets. If I am uncertain about the safety or stability of an untested rocket, I will check the stability before flight and will fly it only after warning spectators and clearing them away to a safe distance. When conducting a simultaneous launch of more than ten rockets I will observe a safe distance of 1.5 times the maximum expected altitude of any launched rocket.

Launcher. I will launch my rocket from a launch rod, tower, or rail that is pointed to within 30 degrees of the vertical to ensure that the rocket flies nearly straight up, and I will use a blast deflector to prevent the motor's exhaust from hitting the ground. To prevent accidental eye injury, I will place launchers so that the end of the launch rod is above eye level or will cap the end of the rod when it is not in use.

Size. My model rocket will not weigh more than 1,500 grams (53 ounces) at liftoff and will not contain more than 125 grams (4.4 ounces) of propellant or 320 N-sec (71.9 pound-seconds) of total impulse.

Flight Safety. I will not launch my rocket at targets, into clouds, or near airplanes, and will not put any flammable or explosive payload in my rocket.

Launch Site. I will launch my rocket outdoors, in an open area at least as large as shown in [the accompanying table](#), and in safe weather conditions with wind speeds no greater than 20 miles per hour. I will ensure that there is no dry grass close to the launch pad, and that the launch site does not present risk of grass fires.

Recovery System. I will use a recovery system such as a streamer or parachute in my rocket so that it returns safely and undamaged and can be flown again, and I will use only flame-resistant or fireproof recovery system wadding in my rocket.

Recovery Safety. I will not attempt to recover my rocket from power lines, tall trees, or other dangerous places.

Revision of August, 2012.

<u>Installed Total Im-</u>	<u>Equivalent Motor Type</u>	<u>Minimum Site Dimen- sions (ft.)</u>
0.00-1.25	1/4A, 1/2A	50
1.26-2.50	A	100
2.51-5.00	B	200
5.01-10.00	C	400
10.01-20.00	D	500
20.01-40.00	E	1,000
40.01-80.00	F	1,000
80.01-160.00	G	1,000
160.01-320.00	Two Gs	1,500

LAUNCH SITE DIMENSIONS