

**PK-7**

**TM**

# Star Fighter-152

**Height: 23.5"**  
**Weight: 12.5 oz.**  
**Diameter: 1.625"**

Flights to over 1,200 ft.



### Kit Features Include:

- Heavy Duty Airframe Tubing
- Plywood Fins & Rings
- Airframe
- Plastic Nose Cone
- Nylon Parachute Recovery

### Motor Suggestions:

**E30-4\*, F23-4, G38-7**

\* To be used with 29-24mm MMA-1 Adapter included.

VISIT [WWW.LOCPRECISION.COM](http://WWW.LOCPRECISION.COM)

- Assembly Instructions for all kits
- KITS & ACCESSORIES
- VINYL DECALS
- UPDATES



435A Factory Street . Plymouth, WI 53073  
920.892.0557  
[LOCprecision.com](http://LOCprecision.com)

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## LOC/PRECISION MULTI-PACKS

are now available for this and other LOC/PRECISION models. For more information on launching model rockets in your area contact the National Association of Rocketry (NAR) at: [www.nar.org](http://www.nar.org)

or the Tripoli Rocketry Association at: [www.tripoli.org](http://www.tripoli.org)

**NOTE:**  
Schools, Clubs,  
& other groups



### Other LOC Kits Available:

PK-1 Aura



PK-4 Lil' Nuke



PK-5 Nuke Pro Maxx



PK-8 Legacy



PK-12 Onyx



PK-16 Graduator



PK-20 Viper III



PK-3 Weasel



PK-48 LOC-IV



**OTHER 1.6" KITS AVAILABLE**

THANK YOU FOR CHOOSING LOC/PRECISION!

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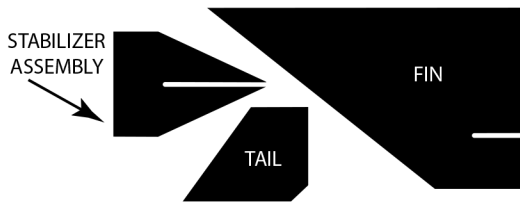
# PK-7 Star Fighter-152 Assembly Instructions

## PARTS LIST:

1 NBT-1.52-15" Airframe Tube  
 1 SC-250 Shock Cord  
 1 LHPC-18 Parachute  
 2 SS-7 Stabilizers

1 Motor Mount Tube MMT-1.14 6 Inch  
 1 MMA-1 Motor Mount Adapter  
 1 24mm section of white tube  
 2 FS-7 Wings

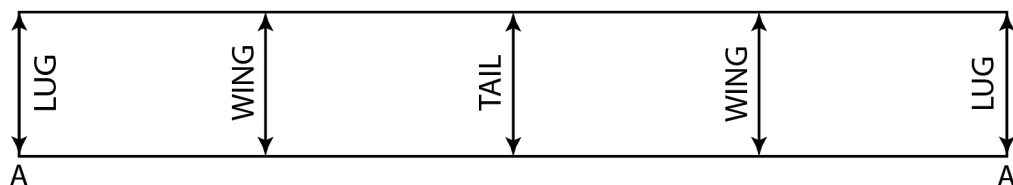
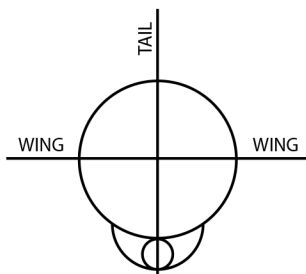
1 Launch Lug LL-25  
 2 Centering Rings FCR-1.52-1.14  
 1 Plastic Nose Cone PNC-1.52  
 1 TS-7 Tail



- ◇ Due to the high thrust motors that can be flown in this kit, it is strongly recommended that epoxy be used throughout its entire construction.
- ◇ Before beginning construction, read over assembly instructions to familiarize you with the proper construction sequence.
- ◇ TEST FIT PARTS BEFORE BONDING TOGETHER WITH GLUE!!!! It may be necessary to lightly sand some parts to obtain a proper fit.
- ◇ The following items will be needed for the construction & finishing of this kit: 12" ruler, Modeling knife, Pen or pencil, Masking tape, Sanding sealer, Paintbrushes (assorted sizes), Sandpaper (coarse, medium & fine), Primer and paint, Yellow Carpenter's Glue or Epoxy (5 or 15 minute).

### Main Airframe Assembly Instructions

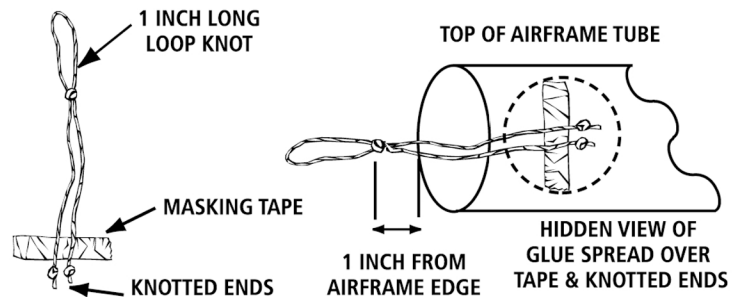
1. Using fine sandpaper, sand the outside of the main airframe, motor mount tube, and launch lug for better epoxy adhesion. Lightly sand plastic nose cone and tail cone to remove molding seam line.
2. Epoxy a centering ring 1/8" from each end of the 29mm motor mount tubing. When dry, give both sides of the two centering ring/motor mount tube joints a good fillet coat of epoxy to ensure maximum strength. Do one side at a time letting it dry in an upright position, before starting on the opposite side.
3. Apply a continuous bead of epoxy around the inside of the main airframe, 4" up from its bottom end. Before it sets, take the assembled motor mount and push it straight up into the epoxied end of the airframe until the aft centering ring is 1/8" up into the airframe's bottom edge. Set in upright position to dry. When dry, turn assembly upside down and give exposed bottom centering ring a light layer of epoxy for additional strength. Set aside to dry.
4. Each fin is slotted to accept the slot in the Stabilizer assembly. Test fit and sand if necessary the slots where the fin and stabilizer assembly will slide together. Once satisfied with the fit, the stabilizer assembly can be glued in place. Sand all non-mating wood surfaces smooth and round off their leading and trailing edges using medium then fine sandpaper.
5. Cut out the fin alignment guide and wrap it around the base of the main airframe. Mark each wing, launch lug and tail position. Extend the wing lines 8" using a doorjamb or a piece of aluminum angle as a guide. Extend the tail line 2.75" and the launch lug line 6".
6. Epoxy the wings and tail to the main airframe. Be sure the wings are straight and symmetrical and the tail is perpendicular to the 2 wings.
7. Epoxy the launch lug along the guide line made earlier.
8. Cut the white 24mm section of tube in half lengthwise. This will be used to cover the launch lug.
9. Epoxy the length of tube split in step 10 to the airframe symmetrically along its edges taking care not to get epoxy in the launch lug or along the route needed for the launch rod to travel.
10. Give all fin and launch lug shroud outer joints added epoxy fillets for MAXIMUM strength and good looks. Seal fins and launch lug with sanding sealer using a brush. Sand lightly between coats to fill pores and obtain a smooth finish.
11. Make and install the shock cord mount "SCM" as shown.



### Shock Cord Mount Instructions

LOC/PRECISION'S Shock Cord Mount is easy to make and install, yet is very strong! This mounting system makes shock cord attachment quick and easy. Follow instructions carefully!

1. Take the length of nylon braided cord and at its center make a 1" long loop knot and pull it tight. Make a knot a 1/4" away from the end of EACH of the two loose ends.
2. Cut a piece of masking tape 1/4" wide by 1 1/4" long. This is centered crosswise just ahead of the two knots.
3. Carefully place the two knotted loose ends of the Shock Cord Mount, with tape attached, inside the top of airframe tube so that the 1" long loop knot is protruding out about 1" from the airframe tube's edge. Using a small piece of wooden dowel, press the masking tape down firmly around the inside of the airframe tubing. The masking tape will keep the Shock Cord Mount in place while gluing.
4. Place a generous bead of glue over the knotted ends and length of masking tape. Spread the glue around until they are completely covered and place the airframe in a horizontal position to dry.  
 REPEAT STEP 4 UNTIL A SMOOTH GLUE LAYER IS ACHIEVED OVER THE MASKING TAPE AND KNOTTED ENDS.



### Main Airframe Assembly Instructions, cont'd

12. When you are satisfied with the smooth sanded finish of your model, it is ready to prime and then paint in the color or colors of your choice.
13. When the paint is completely dry, take one end of the shock cord and pass it through the SCM. Secure it with a double knot. Take the other end of the shock cord and pass it through the eyelet of the plastic nose cone and secure it with a double knot. Using a toothpick, place a SMALL drop of epoxy on both knots to keep them permanently secured.
14. The parachute is attached to the shock cord about 5" away from the nose cone. Using ALL the chutes' shroud line loop ends, tie a double knot around the shock cord and PULL ON IT tightly. ALWAYS CHECK DOUBLE KNOT RIGHT BEFORE LAUNCHING!
15. Select a motor for first flight. 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 the 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.
16. Because of the close proximity of the shock cord near the top of the motor mount tube, it is highly recommended that the motor mount tube be filled loosely with recovery wadding IN ADDITION to the wadding used to protect the shock cord and chute from the hot ejection charge gases.
17. Always follow motor manufacturer's instructions for motor ignition and launch this vehicle on calm, windless days to insure safe recovery.