



ESTES® INDUSTRIES
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Penrose, CO 81240
Printed in China

LAUNCHABLES™



EST 1236

X-Flyer™ #1 Model Rocket Instructions

KEEP FOR FUTURE REFERENCE

SUPPLIES REQUIRED:



PLASTIC CEMENT



PENCIL



RULER



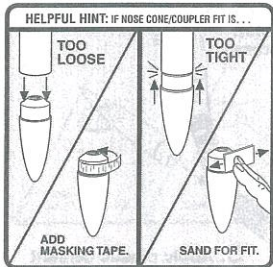
1/8" LAUNCH ROD

ASSEMBLY TIP: Read all the instructions before beginning work on your model. TEST FIT all parts before applying any glue. If any parts don't fit properly, sand as required for precision assembly.

X-FLYER No 1

PARTS LAYOUT

Locate the parts shown below and lay them out on the table in front of you. DO NOT USE THIS DRAWING TO ASSEMBLE YOUR ROCKET!



BLUE NOSE CONE (1)
72017

NOSE CONE INSERT (1)
72603-9'

UPPER BODY TUBE (1)
60228

BLUE PLASTIC COUPLER WITH LAUNCH LUG (1)
71073

CAVITY CAP (1)
71074

SHOCK CORD (1)
38374

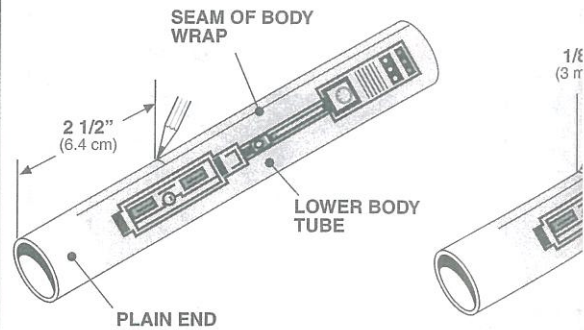
LOWER BODY TUBE (1)
60229

BLUE FIN UNIT (1)
72607

ENGINE HOOK (1)
35021

ASSEMBLED PARACHUTE 12" (30 cm) (1)
35801

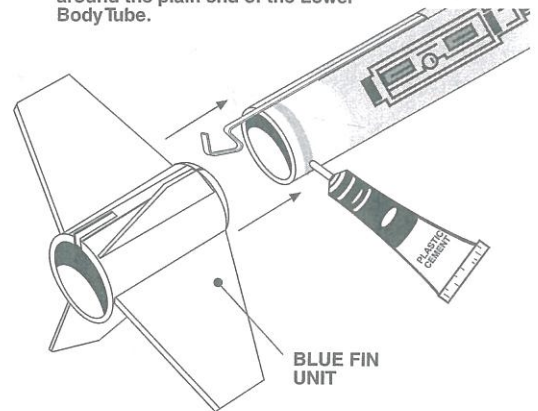
1. LOWER BODY TUBE ASSEMBLY



A. Make a mark 2 1/2" (6.4 cm) from the plain end of the Lower Body Tube along the seam of the body wrap.

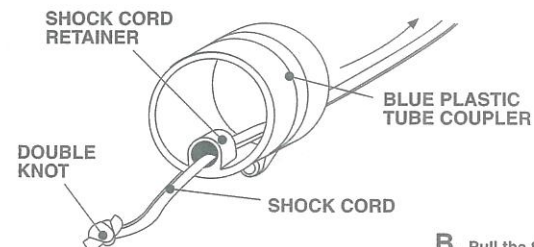
B. Make a 1/8" (3 mm) slit at the mark along the seam of the body wrap using a hobby knife.

D. Apply a thin layer of plastic cement around the plain end of the Lower Body Tube.

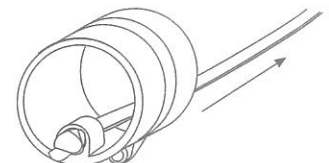


2. ATTACHING SHOCK CORD

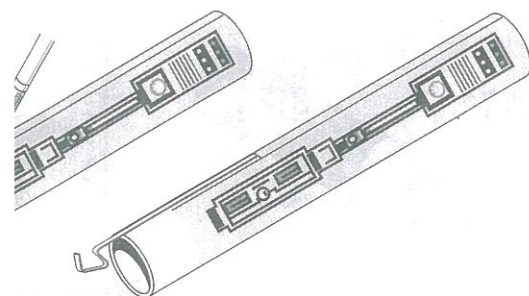
A. Tie a double knot in one end of the Shock Cord. Thread the non-tied end of the Shock Cord through the shock cord retainer inside the Blue Plastic Coupler.



B. Pull the Shock Cord until the knot is in the shock cord retainer.



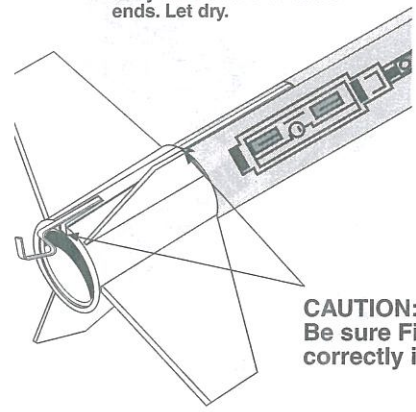
PLY



C. Insert Engine Hook into the slit as shown.

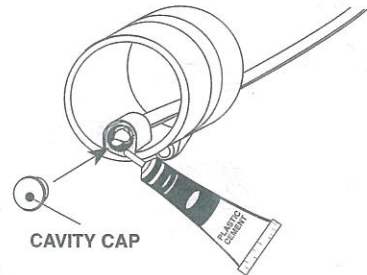
wide as the rap

E. Position the notch in the Blue Fin Unit over the Engine Hook and push the Fin Unit onto the body tube until even at the ends. Let dry.

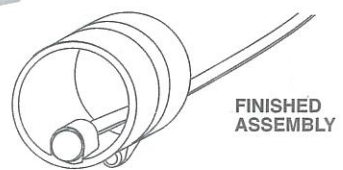


CAUTION: Be sure Fin Unit is correctly installed!

C. Apply plastic cement around the inside of the retainer and press the Cavity Cap in place. Let dry.



CAVITY CAP



FINISHED ASSEMBLY

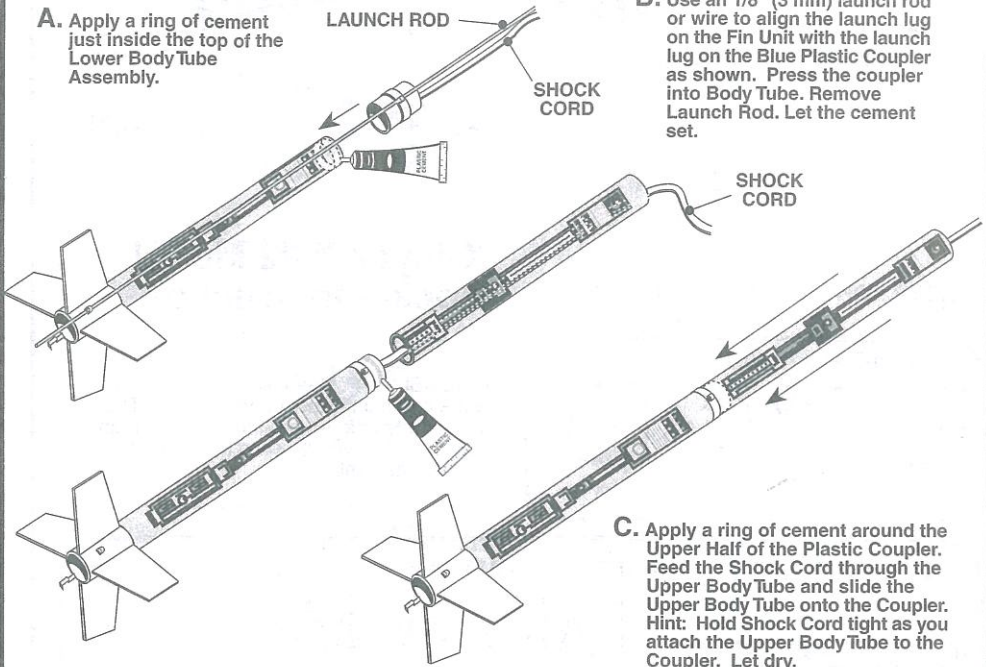
3. ATTACHING UPPER BODY TUBE

A. Apply a ring of cement just inside the top of the Lower Body Tube Assembly.

LAUNCH ROD

SHOCK CORD

B. Use an 1/8" (3 mm) launch rod or wire to align the launch lug on the Fin Unit with the launch lug on the Blue Plastic Coupler as shown. Press the coupler into Body Tube. Remove Launch Rod. Let the cement set.

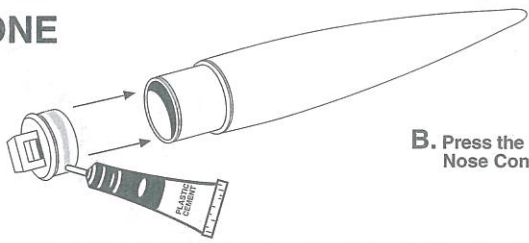


SHOCK CORD

C. Apply a ring of cement around the Upper Half of the Plastic Coupler. Feed the Shock Cord through the Upper Body Tube and slide the Upper Body Tube onto the Coupler. Hint: Hold Shock Cord tight as you attach the Upper Body Tube to the Coupler. Let dry.

4. NOSE CONE

A. Apply cement around the flange of the Nose Cone Insert.



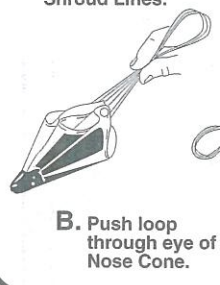
B. Press the insert into the Nose Cone. Let dry.

5. ATTACHING PARACHUTE & SHOCK CORD

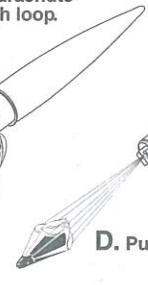
A. Form loop with Shroud Lines.

C. Pass Parachute through loop.

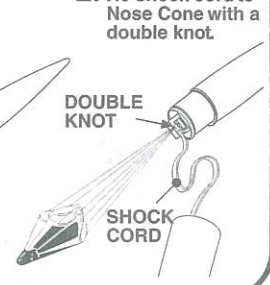
E. Tie shock cord to Nose Cone with a double knot.



B. Push loop through eye of Nose Cone.



D. Pull tight.



DOUBLE KNOT

SHOCK CORD

6. PREPARING RECOVERY SYSTEM

A. Insert 2-3 squares of loosely crumpled recovery wadding.

B. SPIKE

C. FOLD

D. ROLL

E. Wrap lines loosely around 'chute. Insert 'chute, shock cord and nose section into body tube.

