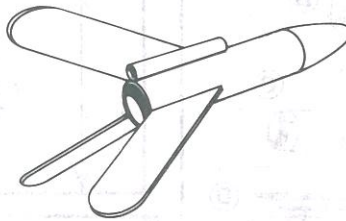




ESTES INDUSTRIES  
1295 H STREET  
PENROSE, CO 81240 USA



# Mosquito™

FLYING MODEL ROCKET KIT EST 0801  
(8-94) 82205

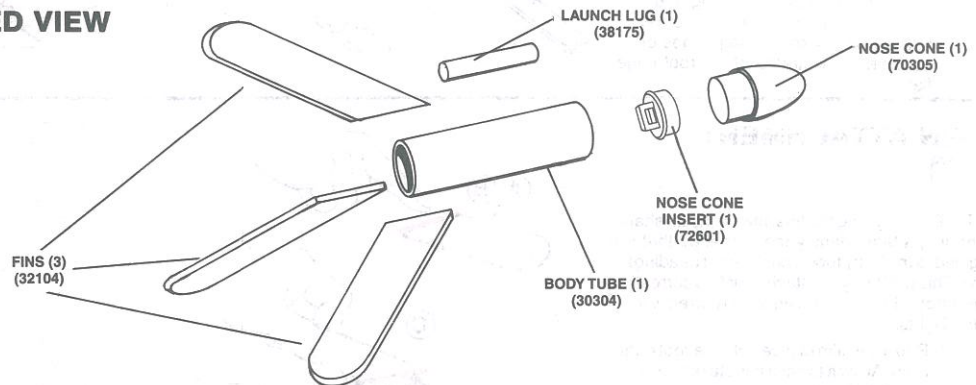


## HOW TO USE THESE INSTRUCTIONS:

### READ ALL INSTRUCTIONS BEFORE STARTING WORK ON THIS MODEL

- A. This rocket, incorporating basic model rocketry construction techniques, will help you in the development of your rocketry modeling skills.
- B. **Read each step first** and visualize the procedure thoroughly in your mind before starting construction.
- C. Lay parts out on the table in front of you. (Check inside tubes for any small parts.)
- D. Use **exploded view** to match all parts contained in kit.
- E. Collect all **construction supplies** that are not included in the kit.
- F. Fin marking guides and other patterns are printed in the instructions and will be found in the pages following.
- G. Test fit parts before applying any glue.
- H. Sand parts as necessary for proper fit.
- I. The construction supplies required for each step are listed at the beginning of each step.
- J. Check off each step as you complete it.

## EXPLODED VIEW



### **EXTREMELY IMPORTANT: THE EXPLODED VIEW IS FOR REFERENCE ONLY! DO NOT USE THIS DRAWING ALONE TO ASSEMBLE THIS MODEL.**

The exploded view is only intended to assist you in locating the parts included in this kit. Refer back to this exploded view as you build your model step by step. This method will help you to put the parts into perspective as you progress through the construction.

## CONSTRUCTION SUPPLIES

In addition to the parts included in your kit, you will need these construction supplies. Each step shows which supplies will be required.



SCISSORS



PENCIL



HOBBY KNIFE



SANDPAPER



MASKING TAPE



WOOD GLUE  
(white or yellow)



TUBE-TYPE PLASTIC CEMENT



SANDING SEALER



SPRAY PAINT

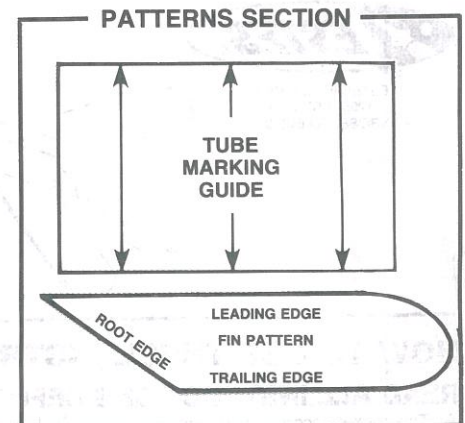
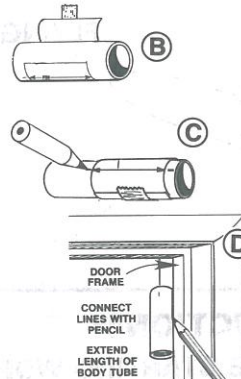
**GLUE IS APPLIED TO SURFACES SHOWN IN RED.**

## 1. TUBE MARKING DETAIL



HINT: Fins can be attached easier by lightly sanding the body tube with #600 grit sandpaper. Do this before you mark the tube.

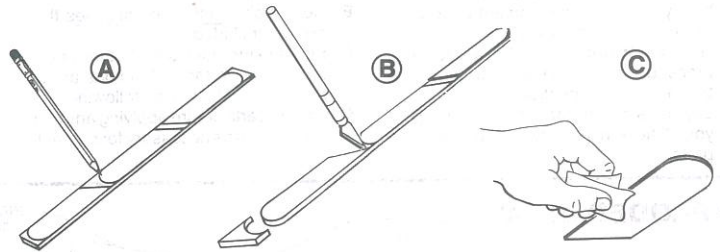
- Locate the tube marking guide on the right in the patterns section. Cut the guide along the outline.
- Wrap the guide around the body tube and tape it in place as shown.
- Mark tube at all arrow locations. Remove marking guide.
- Using a door frame as a guide, draw straight lines connecting each pair of fin marks.



## 2. FIN PREPARATION



- Cut out fin pattern from pattern section. Trace fins onto balsa sheet as shown.
- Cut fins out carefully. Sand edges of fin smooth.
- Optional: For a better-looking and higher-performing rocket, round the leading edges and trailing edges of each fin as illustrated. Sand root edge flat.



## 3. FIN ATTACHMENT



NOTE: Before gluing the fins, match the fin shape to the fin pattern. Identify the root edge that will be glued to the body tube and the front (leading) edge. This will help you attach your fins correctly.

**Remember:** Fins must be attached correctly for stable flights.

- Rub a thin film of glue onto the root edge of fin. Allow it to set a minute or two to become tacky.
- Apply a second thin film of glue to the root edge of fin.
- Set the rear edge of the fin at end of the body tube. Gently press the root edge along the body tube fin line.
- Carefully adjust the fin, if needed, so it will project straight up from body tube. Work slowly and carefully so as not to disturb the glue joint. Attach remaining fins in same manner. Do not set rocket on fins while glue is wet.
- After all fins are attached, use shaded end view to check proper fin spacing.
- Important: Stand rocket on table as shown. Allow fins to dry for five minutes before proceeding.

