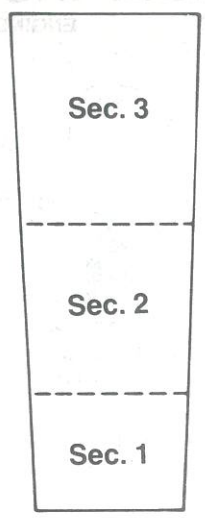
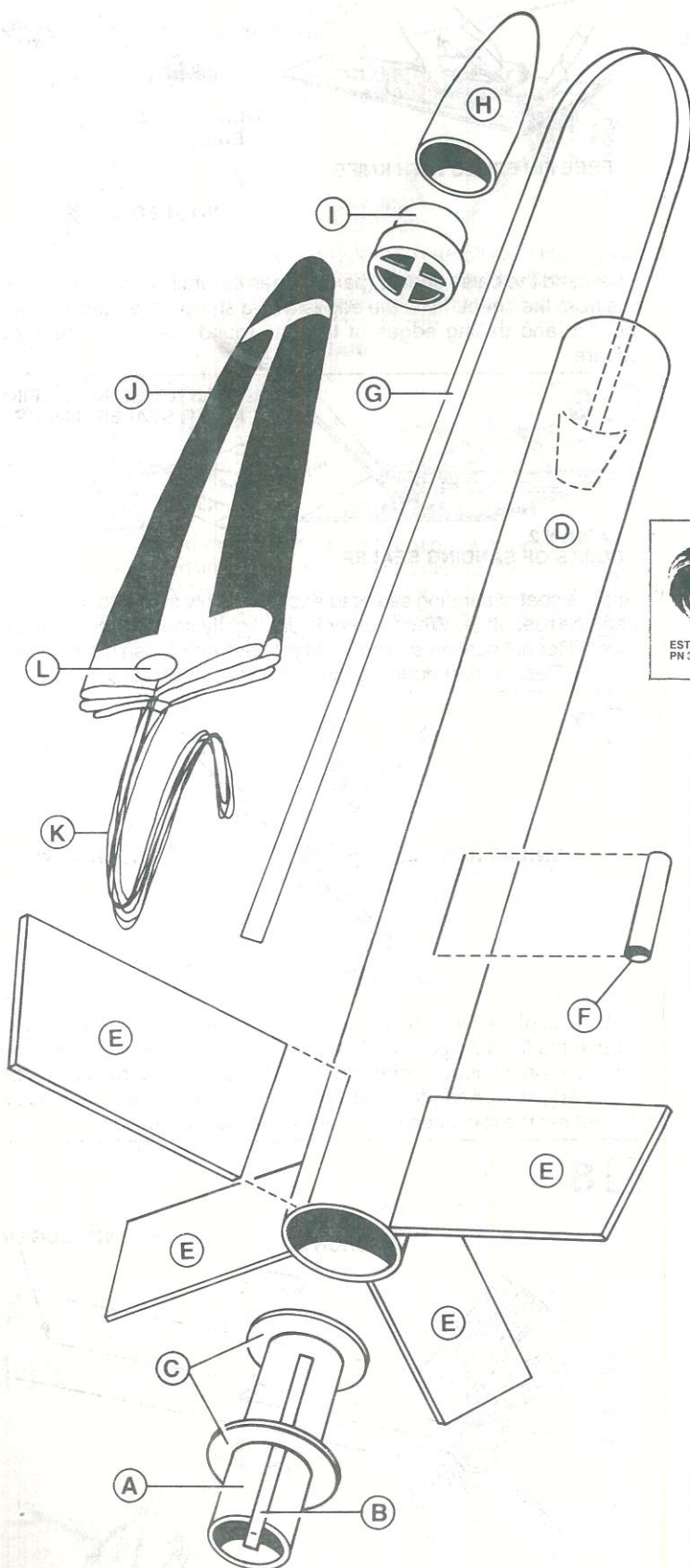


CYCLONE



SHOCK CORD MOUNT
(to be cut out here)



BEFORE YOU START

Read each step and study the accompanying drawings before doing any of the work called for in that step. Make sure you have all the parts and materials. Check off each step as you complete it. Always test-fit parts together before applying glue. It will sometimes be necessary to sand edges of rings, tubes, etc. to obtain a proper fit. If you are in doubt about the relative size or location of some parts, refer back to this exploded view drawing for clarification. Adequate glue joints are very important for a flying model rocket. Follow the instructions carefully in this regard.

KIT NO. 1907 PARTS LIST

A	1	Engine Mount Tube (type BT-20J)	30326
B	1	Engine Hook (type EH-2)	35025
C	1	Adapter Centering Rings (type TA-1327)	30090
D	1	Body Tube (type ST-1312)	31190
E	1	Die-Cut Balsa Sheet (type BF-1907)	32607
F	1	Launch Lug (type LL-2B)	38178
G	1	Shock Cord (type SC-1)	85730
H	1	Nose Cone	72132
I	1	Nose Cone Insert	72513
J	1	Parachute (PK-12A)	85564
K	1	Shroud Line (type SLT-72)	38237
L	1	Tape Discs (type TD-3F)	38406
M	1	Decal (type KD 1907)	37222

TOOLS AND MATERIALS

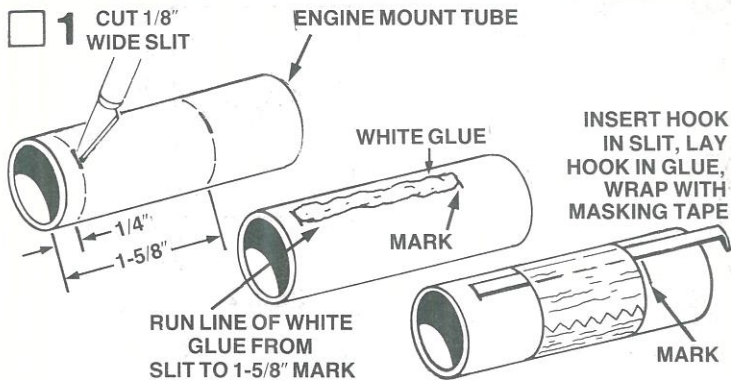
In addition to the parts included in this kit you will need: Scissors, pencil, ruler, fine or extra-fine grit sandpaper, sanding sealer, a medium-size modeling paint brush, modeling knife with sharp blade, gloss yellow and red enamel spray paints and household white glue or resin glue and tube type plastic cement. Other types of glue are not recommended.

For easy and positive alignment of the fins on your model, we recommend the use of Estes' Fin Alignment Guide, Part. No. 2231.

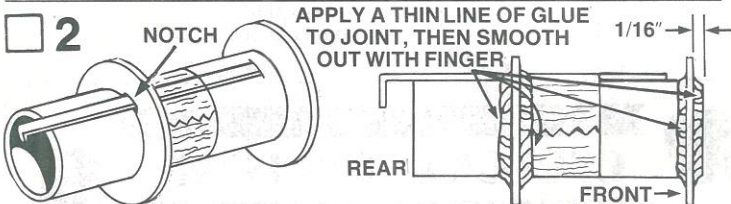
RECOMMENDED ENGINES:
A8-3, B4-4, B6-4, B8-5, C6-5
First Flight A8-3



ASSEMBLY INSTRUCTIONS

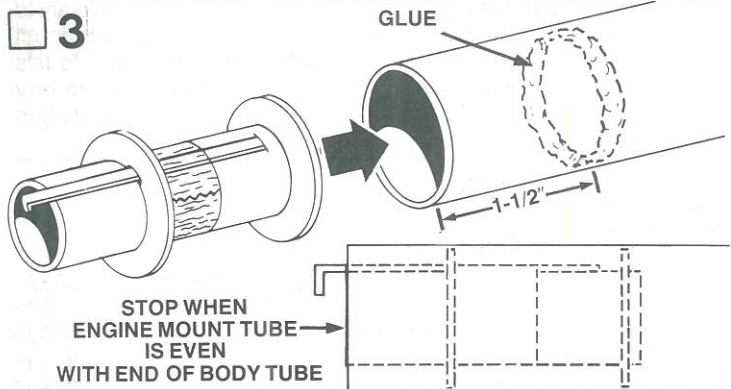


1 CUT 1/8" WIDE SLIT ENGINE MOUNT TUBE
 WHITE GLUE
 INSERT HOOK IN SLIT, LAY HOOK IN GLUE, WRAP WITH MASKING TAPE
 MARK
 MARK
 RUN LINE OF WHITE GLUE FROM SLIT TO 1-5/8" MARK



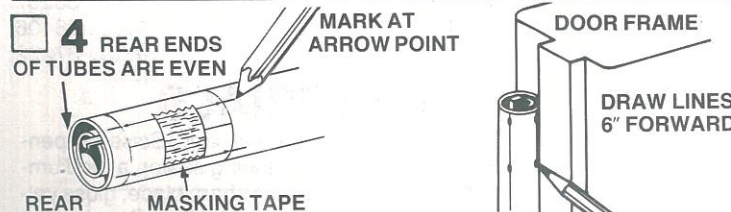
2 NOTCH
 APPLY A THIN LINE OF GLUE TO JOINT, THEN SMOOTH OUT WITH FINGER
 1/16"
 REAR FRONT

Locate the centering adapter rings (part C) and separate them from the die-cut card. Slide the notched ring onto the tube from the rear and position it so it touches the masking tape as shown. Apply a line of white glue around both sides of the ring where it touches the tube. Slide the remaining ring onto the forward end of the tube and position it about 1/16" from the end. Apply a thin line of white glue around both sides of the ring where it touches the tube. Smooth out with finger. Let this assembly dry completely.



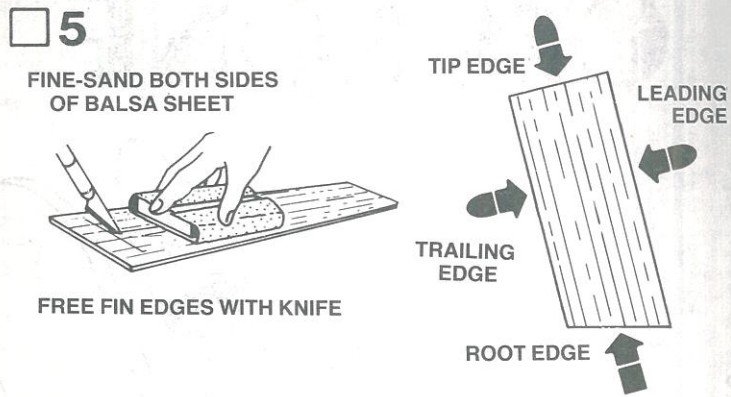
3 GLUE
 1-1/2"
 STOP WHEN ENGINE MOUNT TUBE IS EVEN WITH END OF BODY TUBE

Apply a liberal amount of glue around the inside of the body tube (part D). The glue should be applied about 1-1/2" from the rear of the tube. Slide the engine mount unit into the body tube as shown until the end of the engine mount tube is even with the body end. Do not pause when pushing the mount in or the glue may "grab" at the wrong place!



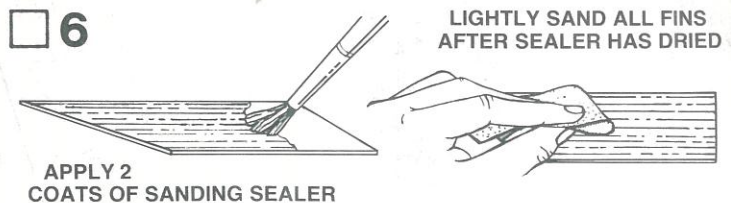
4 REAR ENDS OF TUBES ARE EVEN
 MARK AT ARROW POINT
 DOOR FRAME
 DRAW LINES 6" FORWARD
 REAR MASKING TAPE

Cut out the body tube marking guide from the back of the display panel. Wrap it around the rear of the body tube with the launch lug line in line with the engine hook. Mark the tube at each arrow point, front and rear. Draw a straight line connecting each matching front and rear mark. (Use a door sill when drawing lines.) Extend the launch lug line forward 8" (align launch lug line with engine hook).



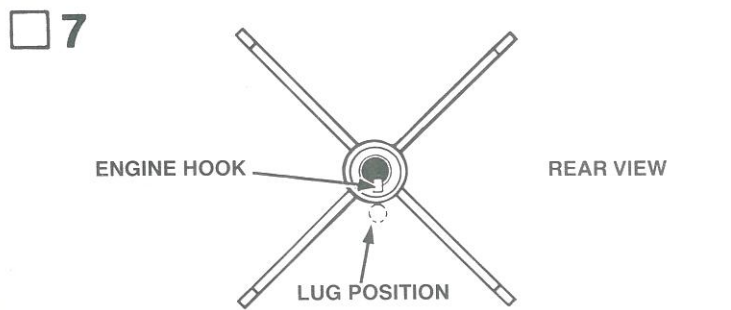
5 FINE-SAND BOTH SIDES OF BALSA SHEET
 TIP EDGE
 LEADING EDGE
 TRAILING EDGE
 ROOT EDGE
 FREE FIN EDGES WITH KNIFE

Fine-sand the balsa sheets (part E), then carefully remove the die-cut fins from the sheet. Free the edges with a sharp knife. Sand the leading, tip, and trailing edges of the fins round. Leave the root edge square.



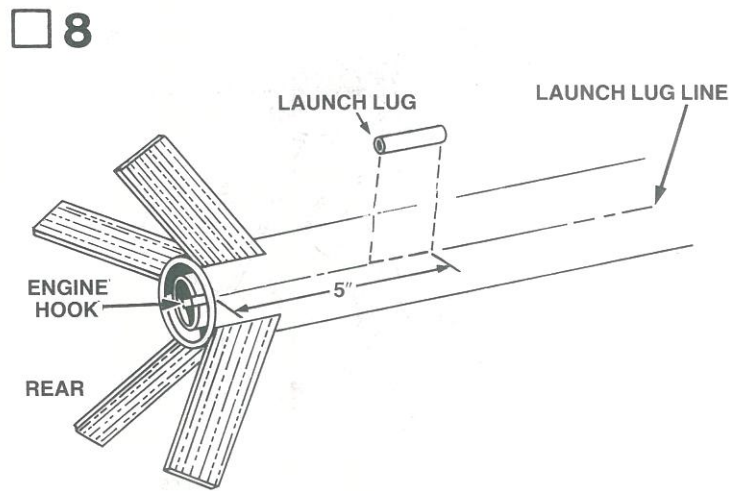
6 LIGHTLY SAND ALL FINNS AFTER SEALER HAS DRIED
 APPLY 2 COATS OF SANDING SEALER

Apply a coat of sanding sealer to each fin. Apply sealer to all edges except the root edge. When sealer is dry, lightly sand all the sealed surfaces. Repeat sealing and sanding process until balsa grain no longer shows. Resand root edge, lightly, to remove any trace of sealer.



7 ENGINE HOOK
 REAR VIEW
 LUG POSITION

Rub a line of glue into the root edge of each fin and allow to dry. Apply glue to the fins and position fins on the alignment lines in their correct positions on the tube. Refer to the illustration to be sure of these positions. Adjust the fins so they project straight away from the body tube. Do not set the rocket on its fins while the glue is wet.



8 LAUNCH LUG
 LAUNCH LUG LINE
 ENGINE HOOK
 REAR
 5"

Glue the launch lug (part F) to the body on its line. The front of the lug should be 5" from the rear of the body. Align it straight on the body.