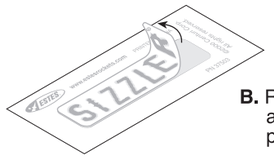
DECAL ATTACHMENT

A. Peel one label at a time from the backing sheet and carefully apply to the model.



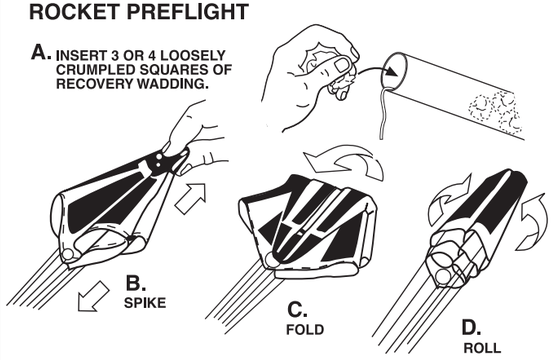
B. Refer to the instructions and package photos for placement.

C. You can remove any air bubble by poking a tiny hole in the label and gently rubbing the air bubble out.

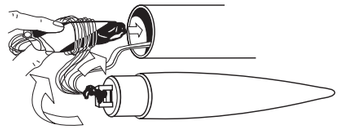
***CLEAR COAT ENTIRE ROCKET WHEN PAINT DRIES.**

ROCKET PREFLIGHT

A. INSERT 3 OR 4 LOOSELY CRUMPLED SQUARES OF RECOVERY WADDING.



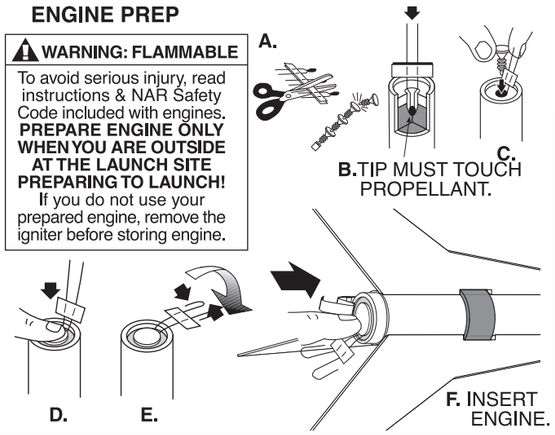
E. WRAP LINES LOOSELY, INSERT 'CHUTE, SHOCK CORD AND NOSE CONE.



ENGINE PREP

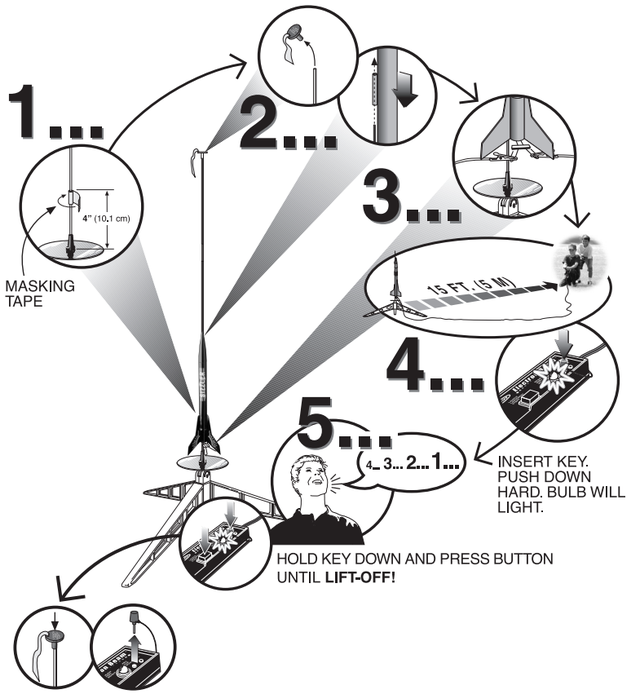
⚠ WARNING: FLAMMABLE

To avoid serious injury, read instructions & NAR Safety Code included with engines. **PREPARE ENGINE ONLY WHEN YOU ARE OUTSIDE AT THE LAUNCH SITE PREPARING TO LAUNCH!** If you do not use your prepared engine, remove the igniter before storing engine.



COUNTDOWN AND LAUNCH

KEY ALWAYS OUT UNTIL FINAL COUNTDOWN!



LAUNCH SUPPLIES

(Sold Separately)

- Estes® Porta Pad® II and Electron Beam® Controller
- Recovery Wadding
- Igniters (w/ Engines)
- Igniter Plugs (w/ Engines)
- Estes® Engines: 1/2A6-2 (First Flight), A8-3, A8-5, B4-4, B6-4, B6-6, C6-5, C6-7

PRECAUTIONS

NAR Safety Code

NO DRY GRASS OR WEEDS

PRE-LAUNCH CHECK

For safety, never launch a damaged rocket. Check the rocket's body, nose cone and fins. Also, check the engine mount, recovery system and launch lug(s). Repair any damage before launching the rocket.

FLYING YOUR ROCKET

Choose a large field (500 ft. [152 m] square) free of dry weeds and brown grass. The larger the launch area, the better your chance of recovering your rocket. Football fields and playgrounds are great. Launch only with little or no wind and good visibility.

Always follow the National Association of Rocketry **(NAR)** SAFETY CODE.

MISFIRES

TAKE THE KEY OUT OF THE CONTROLLER. WAIT ONE MINUTE BEFORE GOING NEAR THE ROCKET! Disconnect the igniter clips and remove the engine. Take the plug and igniter out of the engine. If the igniter has burned, it worked but did not ignite the engine because it was not touching the propellant inside the engine. Put a new igniter all the way inside the engine without bending it. Push the plug in place. Repeat the steps under Countdown and Launch.

(1/08) PN 82103

ESTES
www.estesrockets.com
ESTES-COX CORP.
1295 H Street, PO Box 227
Penrose, CO 81240-0227
PRINTED IN CHINA

SIZZLER®

2171

FLYING MODEL ROCKET KIT INSTRUCTIONS

KEEP FOR FUTURE REFERENCE

ASSEMBLY TIP

Read all instructions before beginning work on your model. Make sure you have all parts and supplies. **TEST-FIT ALL PARTS TOGETHER BEFORE APPLYING ANY GLUE.** If any parts don't fit properly, sand as required for precision assembly.

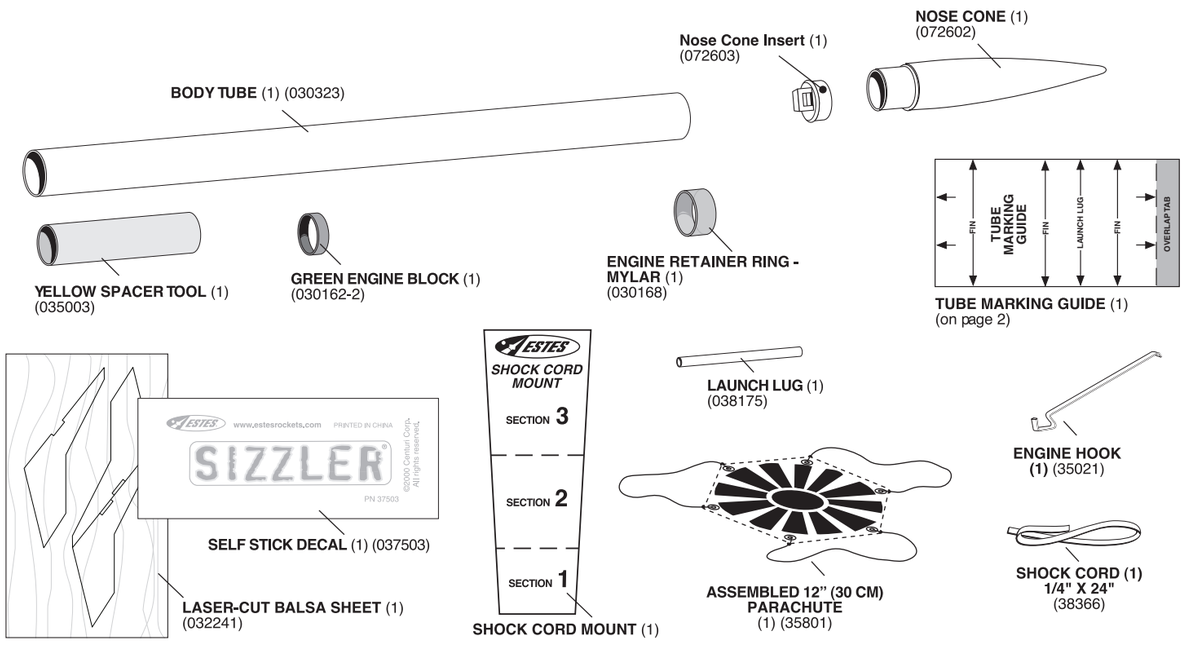
SUPPLIES

In addition to the parts included in the kit you will also need:

SCISSORS | PENCIL | RULER | CARPENTER'S GLUE | MODELING KNIFE | YELLOW, ORANGE & TEAL PAINT PENS | PLASTIC CEMENT | PRIMER (WHITE) | SPRAY PAINT: BLACK OR YELLOW, RED & PURPLE | SPRAY CLEAR COAT | MASKING TAPE | FINE SAND PAPER (#400-600 Grit) | OPTIONAL: YELLOW, ORANGE & TEAL 1/16" (2 mm) PIN STRIPE TAPE

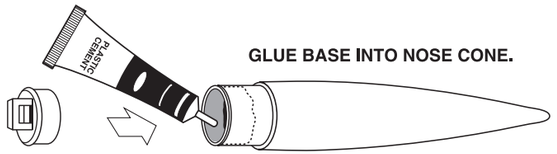
PARTS

Locate the parts shown below and lay them out on the table in front of you.

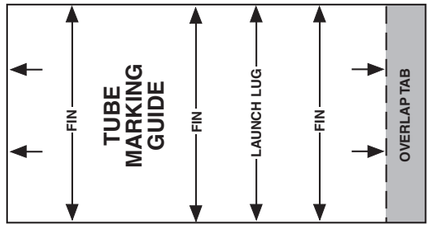


1. NOSE CONE ASSEMBLY

NOTE: USE PLASTIC CEMENT ONLY IN THIS STEP.

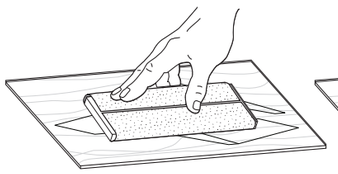


GLUE BASE INTO NOSE CONE.

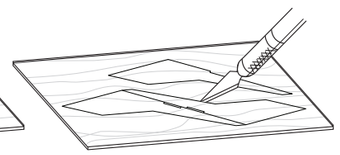


2. FIN PREPARATION

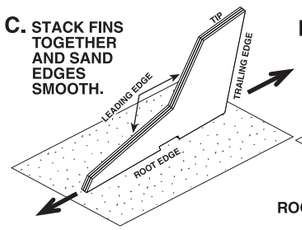
A. FINE SAND BALSA SHEET.



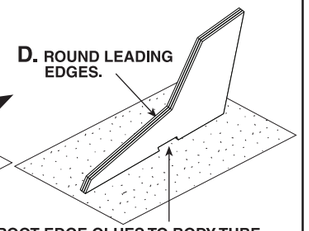
B. CUT FINS FREE WITH MODELING KNIFE .



C. STACK FINS TOGETHER AND SAND EDGES SMOOTH.



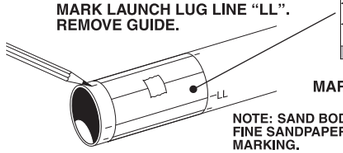
D. ROUND LEADING EDGES.

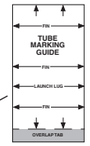


ROOT EDGE GLUES TO BODY TUBE. (DO NOT ROUND!)

3. TUBE MARKING

A. CUT OUT TUBE MARKING GUIDE FROM TOP OF PAGE. TAPE AROUND END OF TUBE. MARK TUBE AT ARROWS. MARK LAUNCH LUG LINE "LL". REMOVE GUIDE.

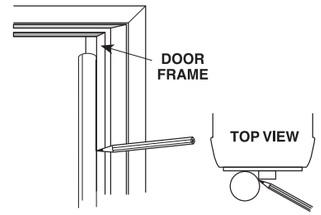




TUBE MARKING GUIDE

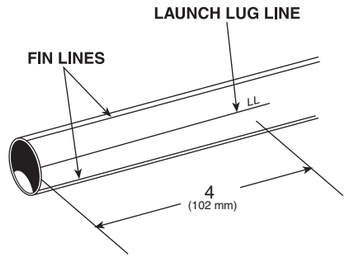
NOTE: SAND BODY TUBE WITH FINE SANDPAPER BEFORE MARKING.

B.



CONNECT FIN LINES.

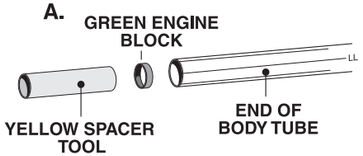
C.



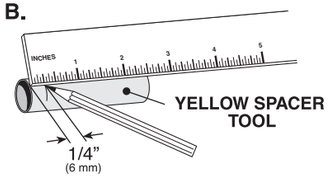
LAUNCH LUG LINE SHOULD BE 4" (102 mm) LONG.

4. ENGINE MOUNT ASSEMBLY

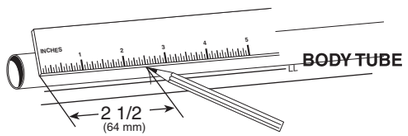
A.



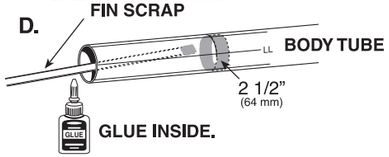
B.



C.

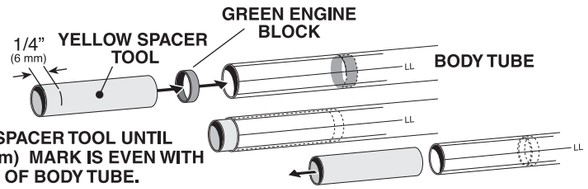


D.



GLUE INSIDE.

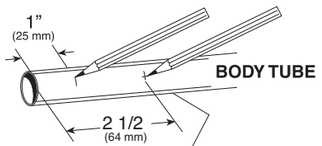
E.



INSERT SPACER TOOL UNTIL 1/4" (6 mm) MARK IS EVEN WITH BOTTOM OF BODY TUBE.

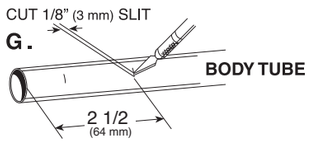
REMOVE SPACER TOOL IMMEDIATELY.

F.

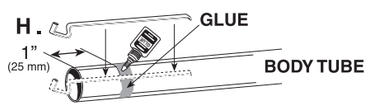


MARK IS HALFWAY BETWEEN TWO FIN LINES. LAUNCH LUG LINE IS BETWEEN OTHER FIN LINES.

G.

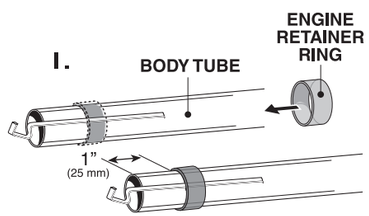


H.



POSITION ENGINE HOOK. APPLY GLUE AROUND TUBE AT 1" (25 mm) MARK.

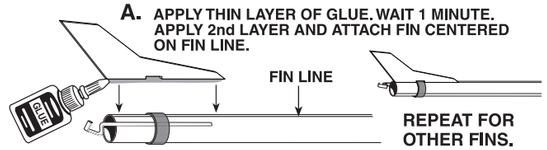
I.



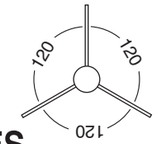
SLIDE RING OVER TUBE AND ENGINE HOOK TO 1" (25 mm) MARK.

5. FIN ATTACHMENT

A. APPLY THIN LAYER OF GLUE. WAIT 1 MINUTE. APPLY 2nd LAYER AND ATTACH FIN CENTERED ON FIN LINE.



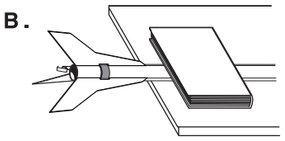
REPEAT FOR OTHER FINS.



YES

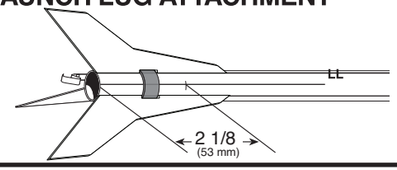
FINS PROJECT STRAIGHT FROM THE BODY

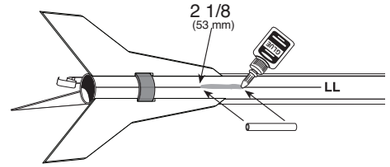
B.

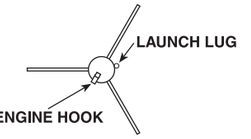


SUPPORT ROCKET UNTIL GLUE DRIES.

6. LAUNCH LUG ATTACHMENT



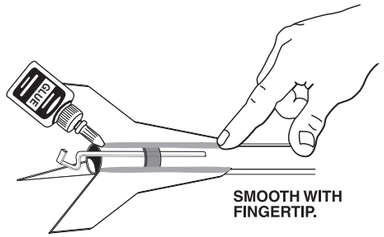




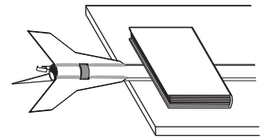
7. FILLET APPLICATION

PROCEED WITH THIS STEP ONLY AFTER GLUE ON FINS AND LAUNCH LUG IS THOROUGHLY DRY.

APPLY GLUE FILLETS TO ALL FIN AND LAUNCH LUG/BODY TUBE JOINTS.



SMOOTH WITH FINGERTIP.

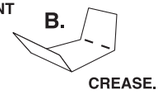


SUPPORT ROCKET UNTIL GLUE FILLETS DRY.

8. SHOCK CORD ATTACHMENT

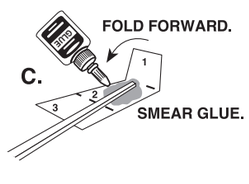
A. CUT OUT SHOCK CORD MOUNT FROM FRONT PAGE.

B.



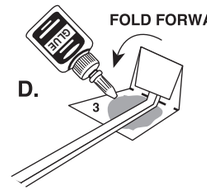
CREASE.

C.

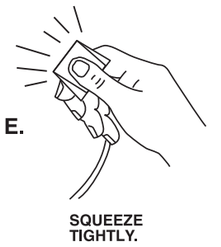


SMEAR GLUE.

D.

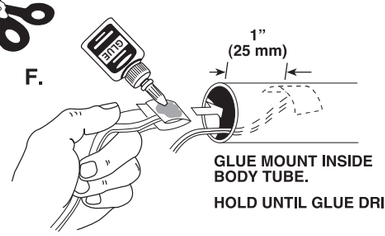


E.



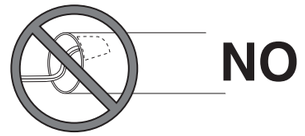
SQUEEZE TIGHTLY.

F.



GLUE MOUNT INSIDE BODY TUBE.

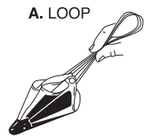
HOLD UNTIL GLUE DRIES.



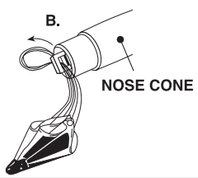
NO

9. PARACHUTE AND NOSE CONE ATTACHMENT

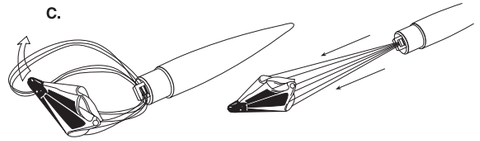
A. LOOP



B.

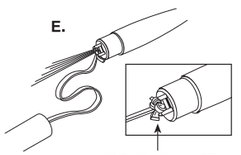


C.



D.

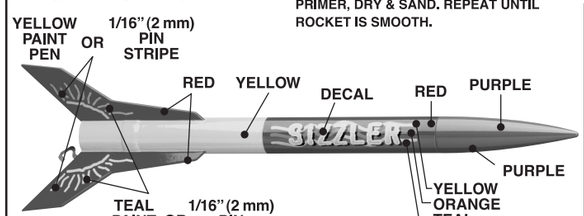
E.



DOUBLE KNOT SHOCK CORD.

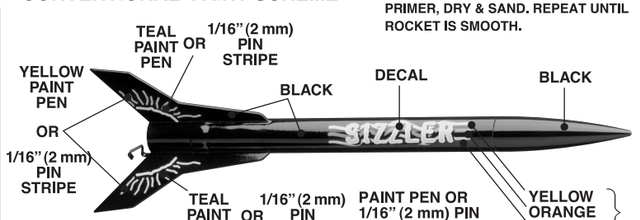
"WILD" PAINT SCHEME

FIRST SPRAY ROCKET WITH WHITE PRIMER, DRY & SAND. REPEAT UNTIL ROCKET IS SMOOTH.



"CONVENTIONAL" PAINT SCHEME

FIRST SPRAY ROCKET WITH WHITE PRIMER, DRY & SAND. REPEAT UNTIL ROCKET IS SMOOTH.



*CLEAR COAT ENTIRE ROCKET WHEN PAINT DRIES.