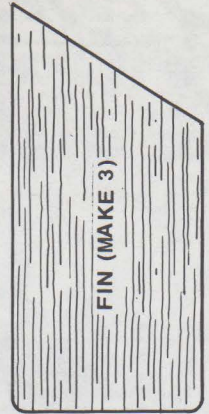




PENCIL ROCKET

Skill Level 1

HONORABLE MENTION
DESIGN OF THE MONTH
BY BARRY REED Miami, Florida
ESTES INDUSTRIES ROCKET PLAN NO 79



★ BUILD THE PENCIL ROCKET WITH ESTES HIGH PERFORMANCE PARTS AND ACCESSORIES

PARTS LIST

- 1 BODY TUBE – BT-20
- 1 NOSE CONE – BNC-20R
- 1 FIN STOCK – BFS-30
- 1 ENGINE BLOCK – EB-20A
- 1 PARACHUTE KIT – PK-12
- 2 LAUNCH LUGS – LL-2A
- 1 SCREW EYE – SE-2
- 1 SHOCK CORD – SC-1
- 1 EMPTY ENGINE CASING
- 1 SHEET FOIL – 2-1/2" square sheet

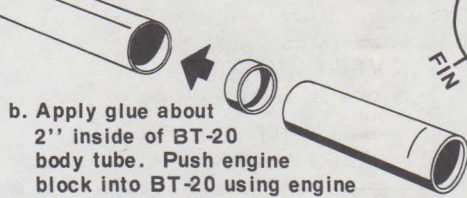
ADDITIONAL MATERIALS

- Hobby Knife
- White Glue
- Ruler
- Sanding Material
- Sanding Sealer
- Enamel Paint (Spray)
- Sharp Pencil

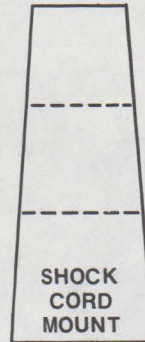
RECOMMENDED ENGINES

- A8-3
- B6-4
- C6-5

1 a. Using a pencil, make a mark 3/8" from one end of an engine casing.

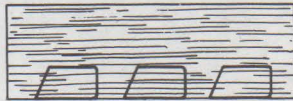


b. Apply glue about 2" inside of BT-20 body tube. Push engine block into BT-20 using engine casing, push only to depth mark. Remove engine casing immediately after installing block.



2 a. Mark BT-20 body tube using the tube marking guide. Mark full length of tube with straight lines.

b. Trace fin patterns onto balsa sheet as shown in the fin layout.



c. Glue fins on each fin guideline, make sure they extend straight away from the body tube.

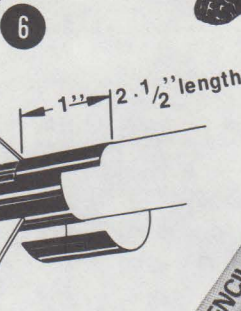
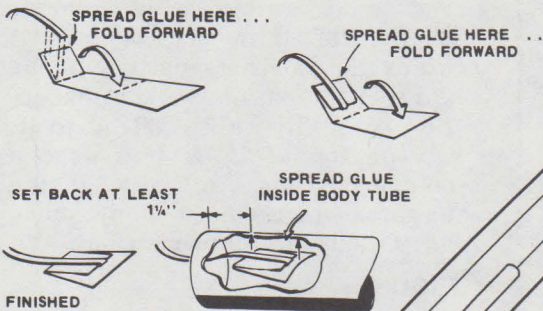
d. Glue launch lugs as shown.

4 a. Insert the screw eye into the base of the nose cone, remove, and squirt glue into the hole. Re-insert the screw eye.

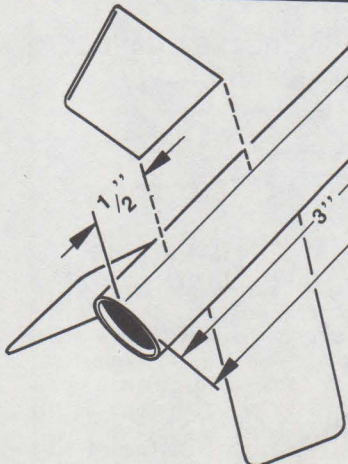
b. Tie shock cord and shroud lines onto the screw eye.

3 Assemble parachute kit according to its instructions.

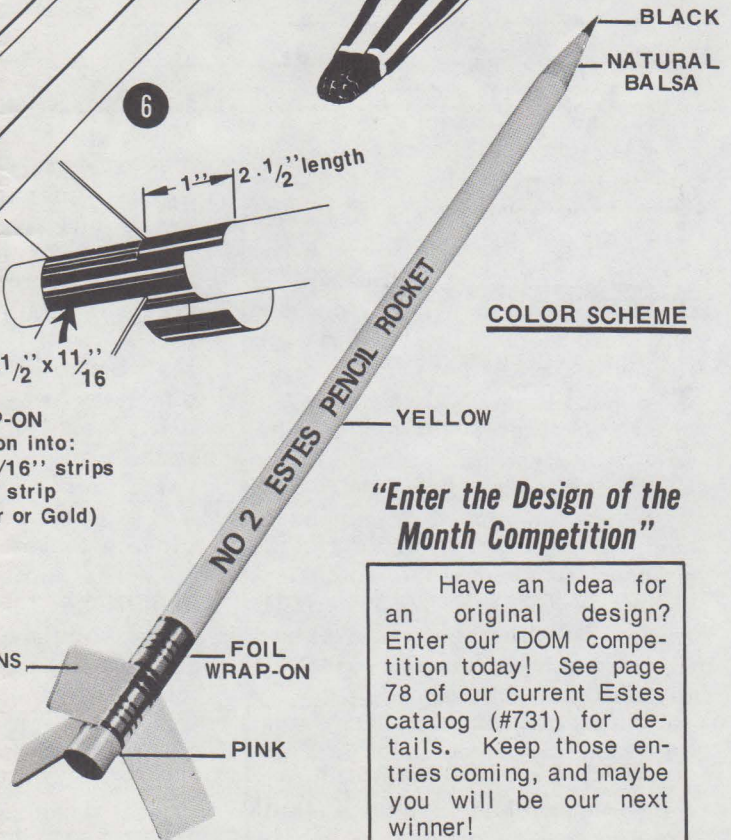
5 Cut out and install shock cord mount.



FOIL WRAP-ON
Cut foil wrap-on into:
3 – 1-1/2" x 11/16" strips
1 – 1" x 2-1/2" strip
FOIL – (Silver or Gold)



REAR VIEW



COLOR SCHEME

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