

Based on a photograph of a late 50's playground set up, this is an unproven scratch build plan.

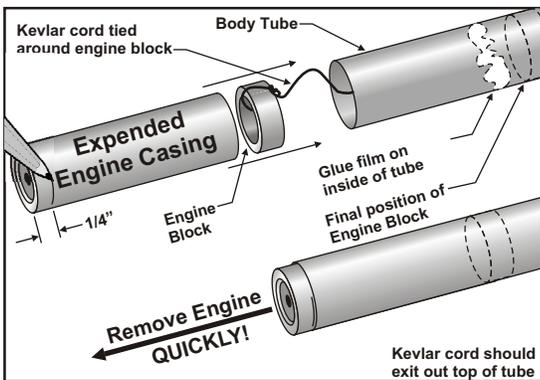
Fin/body pattern sheet can be found in a separate file.

**Parts List:**

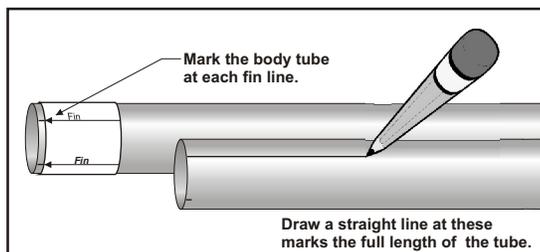
- BT-20-06 (6" long length of BT-20)
- EB-20 engine block
- EH-0275 engine hook
- SLK-90-18 Kevlar #90
- SC-1-18 Elastic shock cord 1/8" x 18"
- NCB-20 (balsa nose block, cut to 1/2" long)
- FSB-4 (1/8" balsa fin stock, 3" X 36")
- LL-1-6 (1/8" launch lug, 6" long)
- SE-M Screw eye
- STC-2-18 (18" party streamer)
- Pattern sheet (Body shroud (2 pieces), nose shroud, fin pattern, Tube marking guide)

*NOTE: When printing pattern sheet be sure top disable "Scale to Fit" on your printer properties bar to assure proper size prints. Each page of the patterns has a 1" square to verify proper sizing of your print outs.*

**1) Install engine block, with Kevlar**

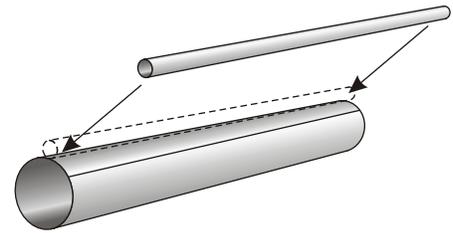


**2) Cut out Fin Marking Guide. Wrap around body tube and mark location of all 4 fins as well as the Launch Lug. Remove guide and extend marks the full length of the body.**



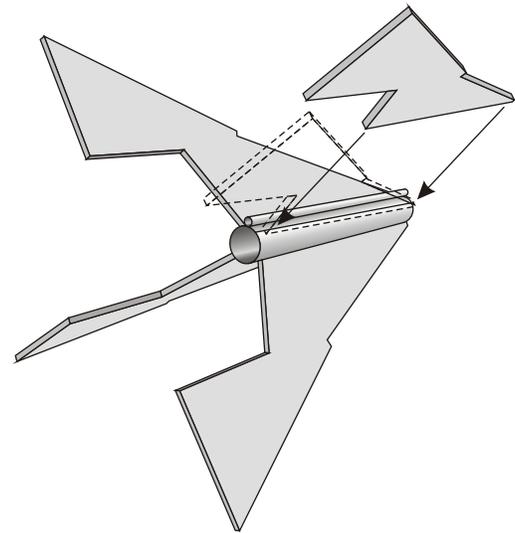
**3) Cut out Fin Pattern and trace out 4 fins on 1/8" thick balsa fin stock.**

**4) Glue 6" launch lug along the launch lug line on the body.**

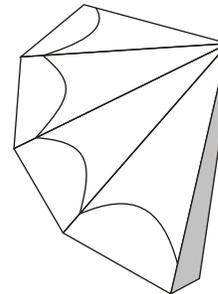


**5) Glue all 4 fins, along fin lines. Extra care to be sure fins are perpendicular to body!**

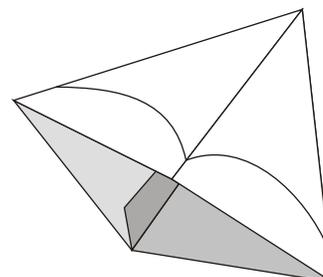
**NOTE: The tip (top) of fin should be flush with the top of the body tube!**



**6) Cut out nose cone and score fold lines**

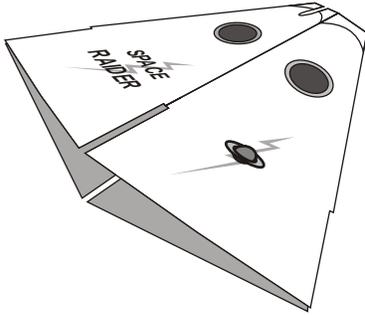


**7) Apply glue to the glue tab and form nose cone. NOTE: It can help to fold form flat while drying.**

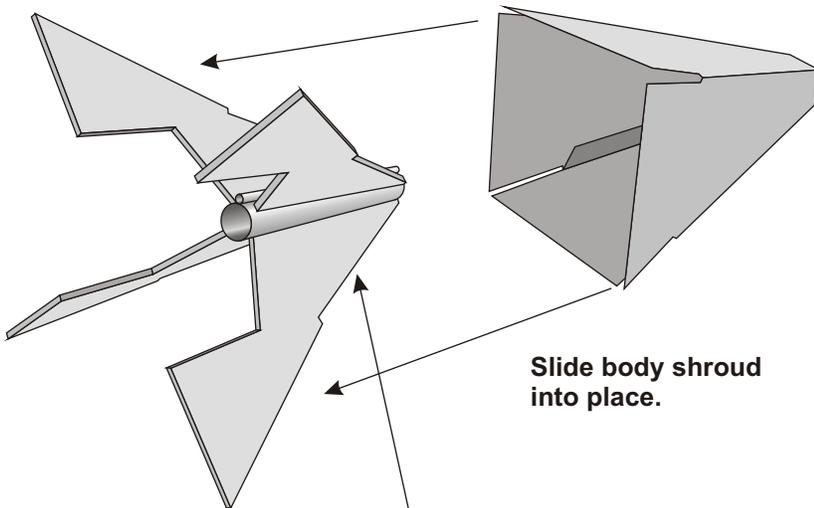


8) Cut out two Body Shrouds. Score all fold lines. Apply glue to the two glue tabs and form your shroud.

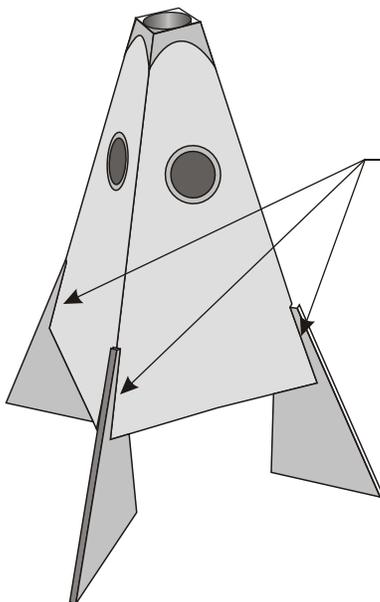
NOTE: It can help if you press the shroud flat while glue dries.



9) Apply a bead of glue along all 4 leading fin edges. Slide the body shroud, taking care that the top of the shroud is flush with the top of the tube, and the top of the shroud notches rest against the notch in the fins.



Apply glue to 4 leading edges



Apply glue filets along lower part of body shroud, anchoring the shroud to the fins, 8 places

NOTE: Also apply a bead of glue along the launch lug protruding from the top of the body shroud.

10) Glue the nose block into the base of the nose cone.

11) Screw the screw eye into the base of the nose block

12) Tie one end of the elastic cord to the Kevlar cord at the top of the body. Tie the other end of the elastic cord to the screw eye.

13) Tape one end of the streamer to the elastic cord, about 3" from the nose cone.

14) Trim the launch lug to match the slope of the body shroud.

Seal all balsa with sanding sealer. Recommended color for fins is Orange with pale yellow highlights.

Recommended motors:

A8-3

B6-4

C6-5

