Estes Industries Rocket Plan No. 63

DESIGN OF THE MONTH WINNER FEBRUARY 1969

STEPHEN H. SMITH

YORK, PA. 17402



PUBLISHED AS A SERVICE TO ITS CUSTOMERS BY ESTES INDUSTRIES, INC., BOX 227, PENROSE, CO. 81240 1/8" Slot, 1/4" from end EH-2 Engine Retainer line of alue Apply glue and insert one end of engine AR-2050 retainer in slot. Hold the piece in place Cut a slot with a full wrap of in this ring... masking tape as shown. ...apply glue around the end of the tube as shown and slide the ring into place. Both the tube and ring rear edges are even. (See the general assembly view.) Apply glue and slide the front ring on the tube until its edge is against the front end

of the engine retainer.

Apply glue to the Glue root edge of a fin and locate it on a guide line with the trailing edge 1/2" from the rear edge of the body tube. Forward fins are located 1/2" from the front end of the body 5 tube.

Trace and cut out the fairing tube pattern. Place it on a BT-20B as shown and mark the tube. You may save a lot of fillet work if you can cut the tube so the cut edges will approximately match the curved

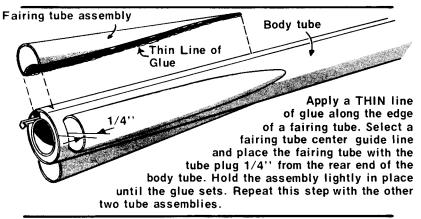


surface to which it will mate.

Repeat this step with the other two tubes.

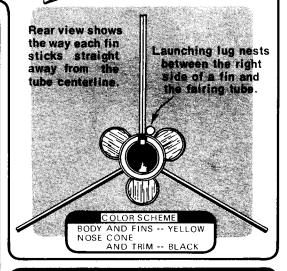
Trace, and cut out the tube plug pattern. Lay out three such plugs on the balsa fin stock Tube Plug and cut them out. Glue-

Place in the fairing tube ends as shown.



Trace and cut out both sizes of fin patterns. Lay out and cut out 3 of each size fin and sand them all to an airfoil cross-section. Root and tip edges are sanded flat. Drawing is typical of all 6 fins.





PARTS LIST

2 Sheet balsa fin stock 1 Nose cone 1 Screw eye 3 Body tube 1 Engine holder tube 2 Centering rings	BFS-30 BNC-50X SE-2 BT-20B BT-50L BT-20J AR-2050
1 Engine Retainer	EH-2
1 Shock cord	SC-1
1 Launching lug	LL-2B
1 18'' Parachute kit	PK-18

In addition to the parts above, you will need scissors, white glue, masking tape, a sharp model knife (or razorblade) and paint or dope.

