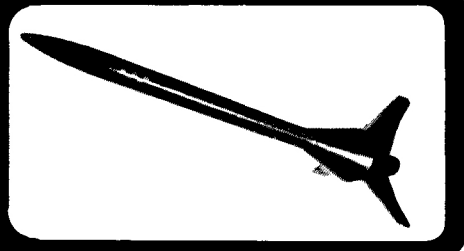


# SCOTT - B

JUNE '69

DESIGN OF THE MONTH WINNER

by David M. Olsen Platteville, Wisc.



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## PARTS LIST

1	Nose Cone	BNC-20N
1	Body Tube	BT-20B
1	Body Tube	BT-20G
3	Body Tube	BT-20M
2	Engine Block	EB-20A
1	Sheet Balsa Stock	BFS-30
1	Centering Ring	RA-2050
1	Shock Cord	SC-1
1	Screw Eye	SE-1
1	8" Parachute Kit	PK-8
1	Launching Lug	LL-2B
2	Nose Cone Weights	NCW-1

In addition to the parts above you will need scissors, white glue, a model knife (or razor blade), masking tape, paint brush and paint or dope. Also postcard and carbon paper.

## 1 MEASURE, MARK AND CUT TUBES

**Install Engine Blocks**

Draw all location marks and guide lines on all tubes as instructed for each below.

Install both engine blocks as shown. Mark an old engine 1/2" from one end--hold it by the end closest to the mark and use to position upper stage engine block.

Spread glue inside body tube and locate an engine block as shown.

Mark location of front edge of shroud 23/32" exactly

Mark location of RA-2050 1/4"

2 3/4" Exactly

Fin guide line

EB-20A

BT-20G (booster)

BT-20B (upper stage)

BT-20M

BT-20G

BT-20M

BT-20M

BT-20M

Fin Guide lines are the heavy arrows

Smaller arrows are to mark the cut lines for the BT-20M Fairing Tubes

Lay guide on a flat surface. Place tube over proper part of guide and mark as instructed.

Cut line

BT-20M

Mark all 3 tubes as shown. Cut away the shaded part and discard. See the general view for when and where to glue these parts.

Spread glue inside end of tube--install engine block with rear edge flush with tube.

## PATTERNS 'N' INFO

2

**STABILIZER SHROUD PATTERN**

Trace onto heavy paper or postcard material, cut out, form and glue. See general view for location and fitting.

**FIN PATTERN (3 req'd.)**

Trace onto card stock

Grain

Leading edge

Glue this edge to booster

Pattern layout on Balsa fin stock

Pattern

Balsa fin stock

Shroud forming is easier when you pre-form the shroud--hold a pencil or dowel firmly against the shroud material...

...gently, but firmly, pull the shroud up and across the pencil, forming a shallow, uniform curve in the shroud. Repeating will deepen the radius or the curve.

Flat surface

Pencil or dowel

Shroud material

A great amount of finishing preparation can be done before the fins are glued in place...

Leading edge

Tip

This edge is sanded flat--it will be glued to the booster tube.

Leading, tip and trailing edges are sanded round. Sand both sides of each fin flat and give each fin an additional sanding with extra fine sandpaper or sanding material.

# MORE WINNERS! DESIGN OF THE MONTH CONTEST

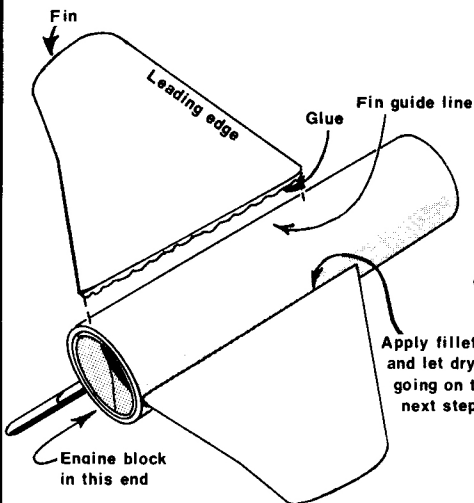
Design of the Month contest winners for the months of April through September, '69 were recently announced by the Estes Industries judging staff.

The First Place \$50 award for April went to Dale Olesberg of Coeur D'Alene, Idaho for his 3-stage *Sky High* rocket. Top honors for May were given to Justin Otten of Grand Rapids, Mich. for a combined control panel-launcher unit. The winner of the June contest was Dave Olsen of Platteville, Wisc. with the two-stage *Scott B* model. July honors were garnered by Bob Houston of Fremont, Nebr. with his *SST Scorpion*. The August award was given to Ivan Joe Sandman, Lewistown, Mont. and his *Blue Lightning*. September went to Douglas W. Johnson of Randolph A.F.B., Texas for the twin-engined *Antenoid - 3*.

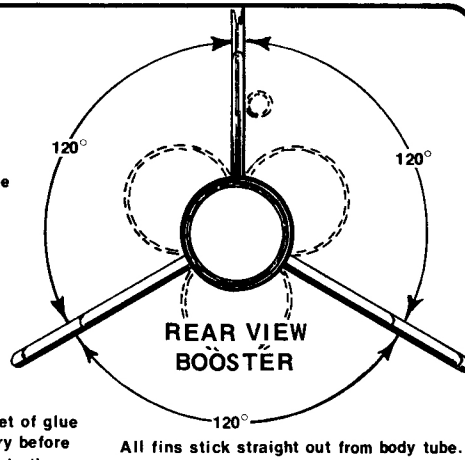
All Estes rocketeers are encouraged to enter the Design of the Month Contest. Plans for rockets, launchers, instruments, etc., may be entered. A new contest begins on the first of each month so entries compete only with other entries received in that month.

Any plan or design received at Estes Industries that is not specifically addressed to some other contest or department is automatically entered in the Design of the Month Contest. For complete details, see the contest information in your current Estes catalog.

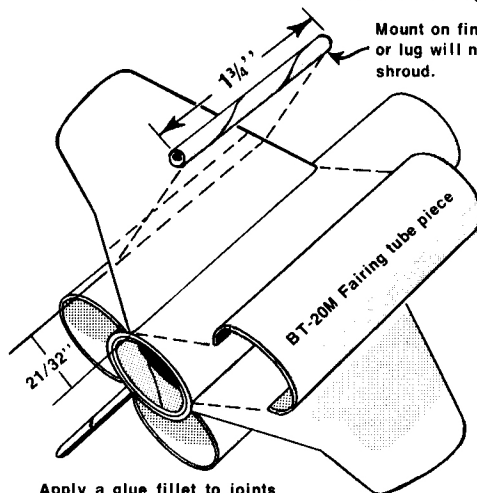
## 3 INSTALL FINS



Apply fillet of glue and let dry before going on to the next step.

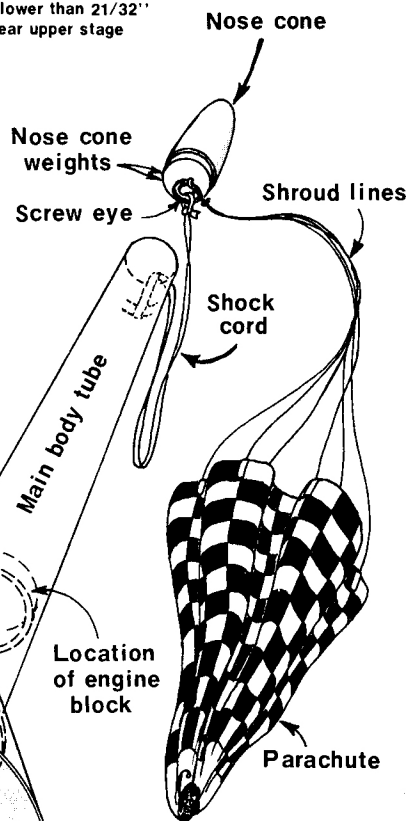


## 4 INSTALLING FAIRING TUBE PARTS and launching lug



Mount on fin not lower than 21/32" or lug will not clear upper stage shroud.

Apply a glue fillet to joints as shown then set a tube piece in place. Repeat with the remaining 2 pieces, holding each in place until the glue has set.



Location of centering ring

Location of engine block

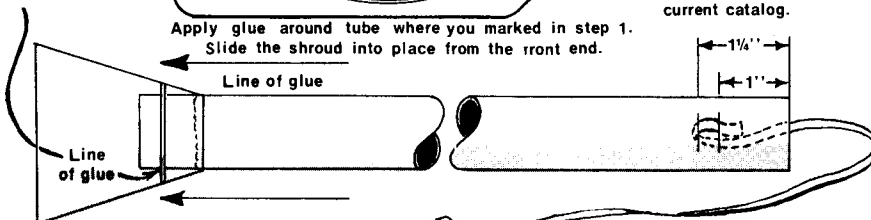
Stablizing cone

Coat inside of shroud with high heat aluminum--treat outside with coat of sealer.

## GENERAL VIEW

## 5 INSTALL SHROUD

Apply a line of glue around the body tube and place the RA-2050 exactly 1/4" in from the rear end of the tube--all the way around.

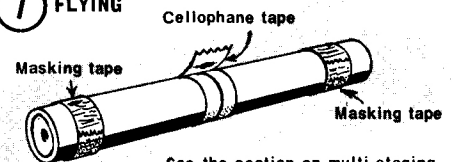


Apply glue around tube where you marked in step 1. Slide the shroud into place from the front end.

## 6 INSTALL THE SHOCK CORD

Install as directed in the technical section of your current catalog.

## 7 FLYING



See the section on multi-staging in the technical section of your current ESTES catalog for more details. The upper stage engine must fit tightly into place so the recovery system will work correctly. The booster engine must fit tightly into its stage to prevent the section from being left behind at lift-off.

