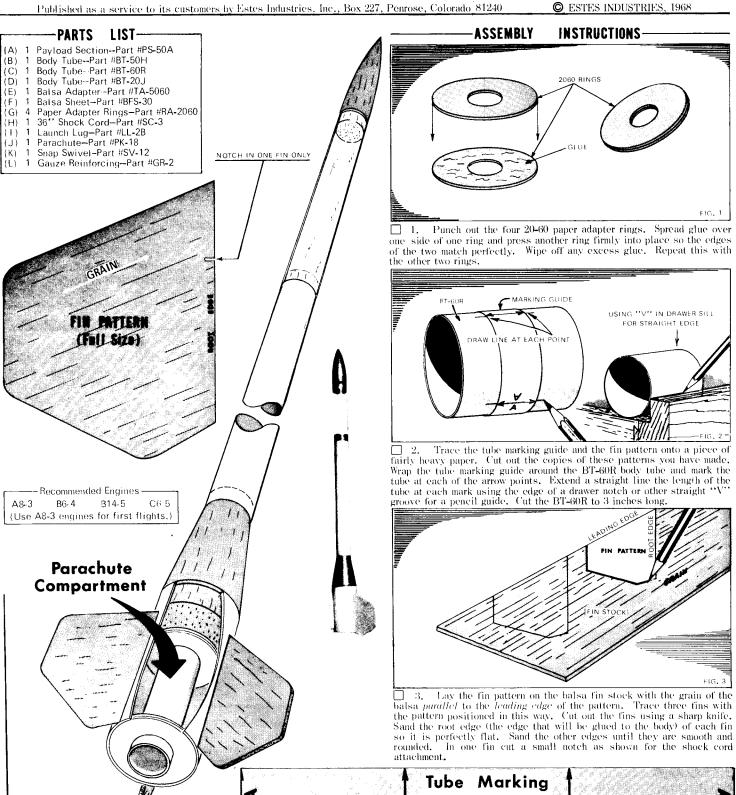
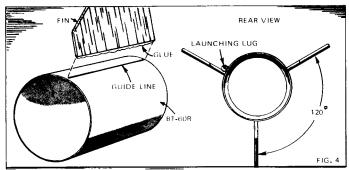
## Estes Industries Rocket Plan No. 54 Estes Design Contest First Place Winner space Freighter

Rearward Ejection Payloader By SCOTT AMUNDSON Satellite Beach, Fla.

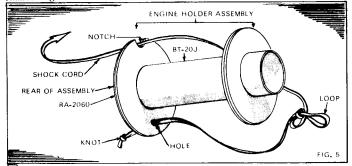
© ESTES INDUSTRIES, 1968



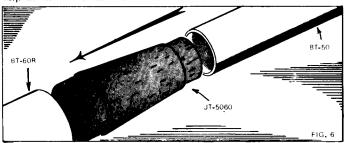
Guide



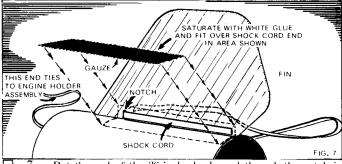
4. Glue the fins to the BT-60R body exactly on the lines made in step 3. To do this, apply glue to the root edge of a fin, hold it for a minute to let the glue get "tacky" and then press the fin onto the body over the line. The fin should stick straight away from the body tube as shown in the rear view. Repeat this step with the other two main fins. Stand the body section on its front while the glue dries. Glue the launch lug to the fin as shown.



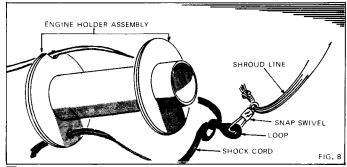
□ 5. Cut a notch and a small hole in one glued pair of rings as shown. Slide the rings onto the BT-20J engine holder tube so the rings are each 1/3" from the ends of the tube. Apply a fillet of glue to all ring-tube joints and smooth the fillet with your finger. Set the unit on its end while the glue dries. Sand the paper rings as necessary so they slip in and out of the tail section.



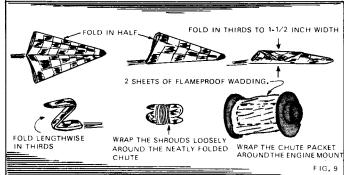
6. Glue the balsa adapter (TA-5060) to the tail section and then also to the smaller body tube (BT-50).



7. Put the end of the 36-inch shock cord through the notch in the fin and using a small amount of rubber cement or contact cement, glue the shock cord along one side of the fin. When the rubber cement has dried, glue a ½" X 2" piece of gauze reinforcing material over the shock cord. Use your finger to spread glue fillets (don't use rubber cement for fillets!) on all fin joints and at least three coatings over the shock cord.

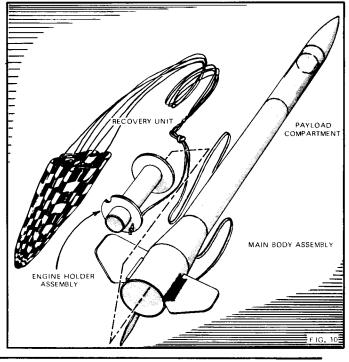


8. Assemble a plastic 18-inch parachute (PK-18) and attach it by tying a snap swivel to the shock cord of the tail section, 2/3 of its length from the fins. Then put the end of the shock cord through the small hole in the ring and tie a knot in the end to prevent it from slipping through.



To prepare the rocket for flying, fold the parachute neatly according to the drawing. For this rocket it is especially important to fold the parachute rather than rolling it, since rolling the chute or shroud lines around the engine mount will usually result in an unopened tangled chute.

## General Assembly View



## **CONTEST WINNERS**

Results of judging in the 1968 Estes Single Stage Design Contest (see Notes from the Boss, page 4) were formally announced by the Estes Industries Research and Development staff August 1. Those receiving awards were:

FIRST PLACE and a \$50 merchandise award went to Scott Amundson, Satellite Beach, Fla., for his Space Freighter payload bird. See pgs. 10 & 11.

The **SECOND PLACE** \$25 merchandise award was presented to Don Silar, Willow Street, Pennsylvania, who submitted the Andromeda, a high-performance sport model.

THIRD PLACE with \$10 in merchandise, was taken by Paul Kohlberg, Westlake, Ohio, for his Comet, a high-performance competition model.

**FOURTH PLACE** award of \$5 in merchandise went to J. T. Kealey, Harrisburg, Pennsylvania, whose 8-Ball design featured fins and fillets made from body tubing.