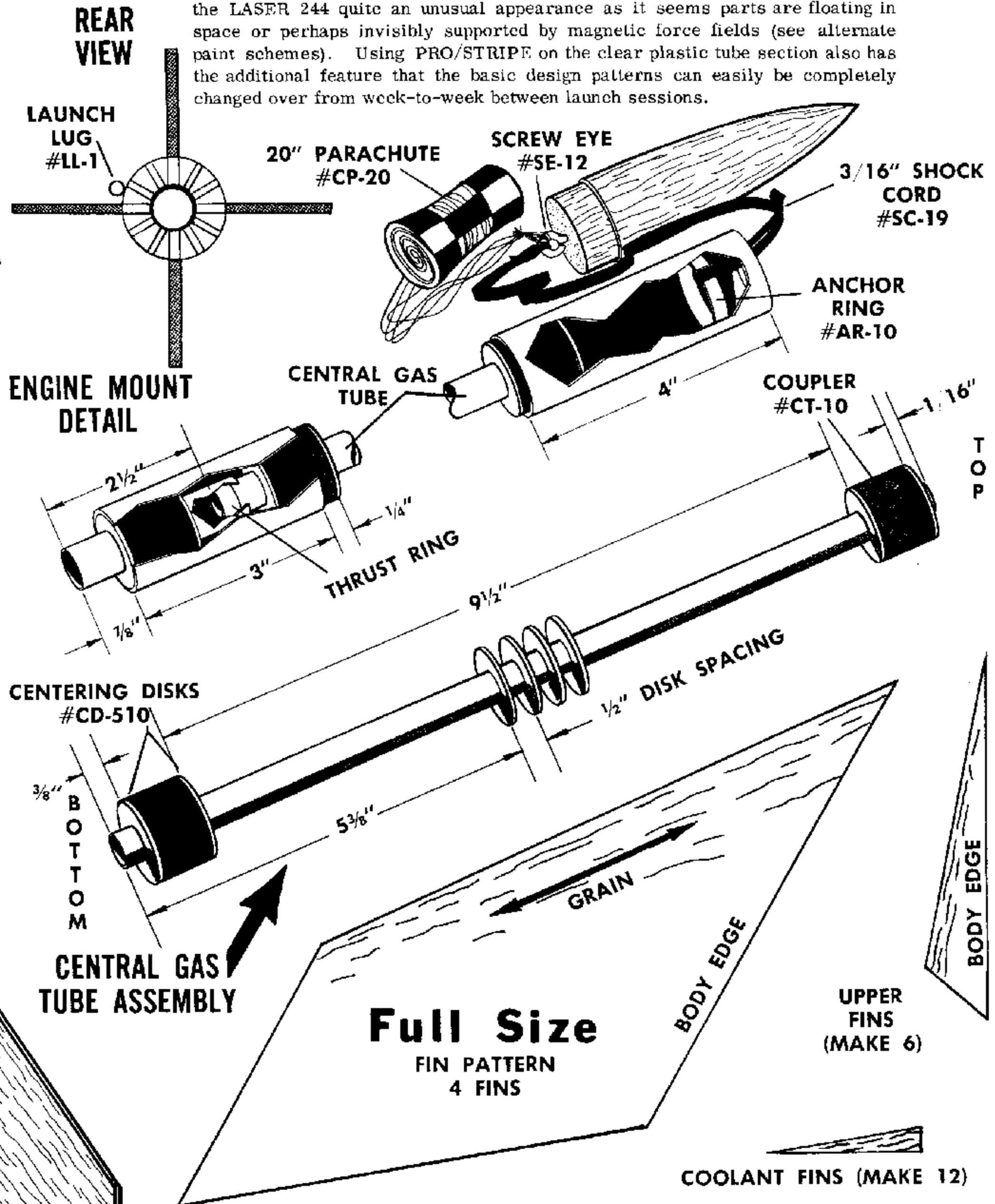
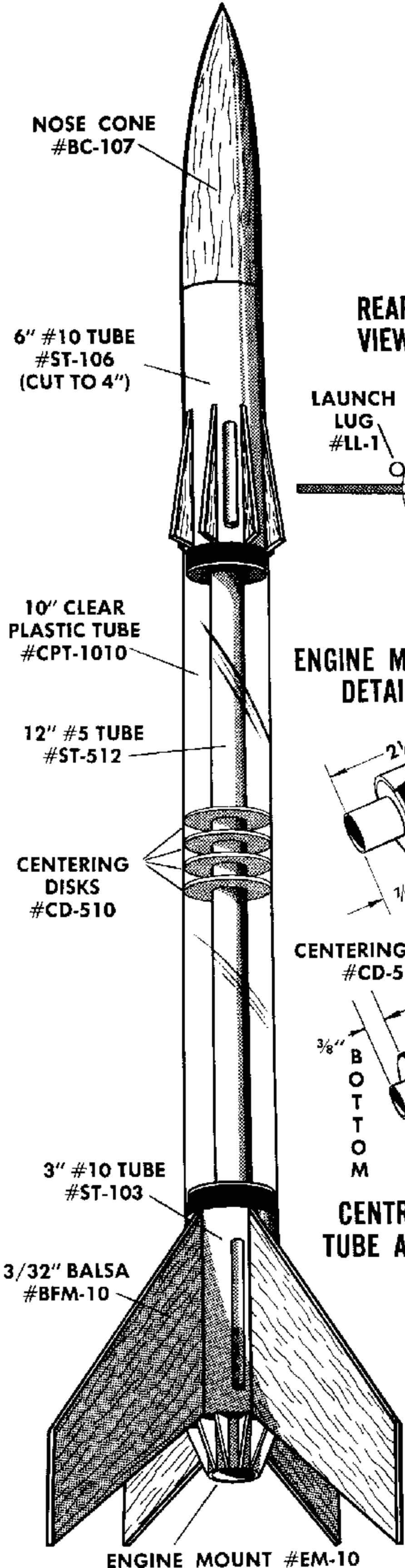


LASER-244

INSPIRED BY P. B. ZIMMERMAN, AGE 16, WASH., D.C.
 SECOND PLACE WINNER IN CENTURI'S DESIGN CONTEST

To obtain the appearance of an actual LASER optical pumping thrust unit, the ejection gases are passed through the smallest #5 series tube. Lengthwise support and rigidity are provided by the clear plastic #10 tube. In addition, the use of PRO/STRIPE and/or patterns cut from metal plated mylar sheets gives the LASER 244 quite an unusual appearance as it seems parts are floating in space or perhaps invisibly supported by magnetic force fields (see alternate paint schemes). Using PRO/STRIPE on the clear plastic tube section also has the additional feature that the basic design patterns can easily be completely changed over from week-to-week between launch sessions.

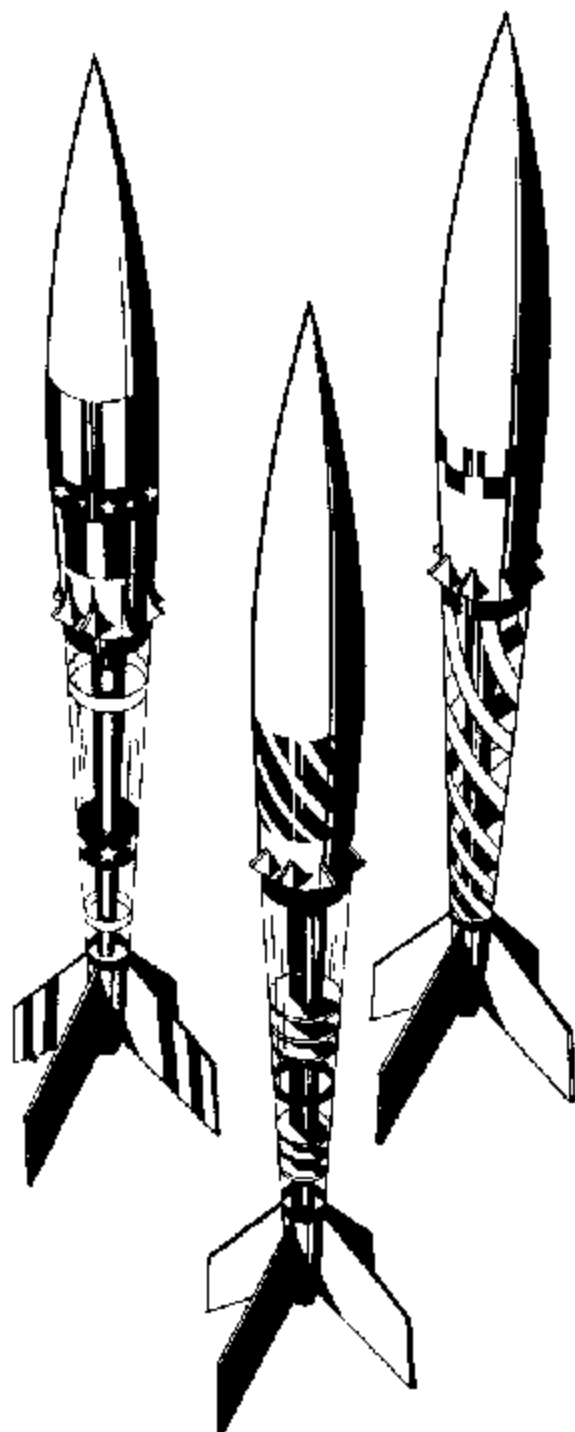


	LASER-244	PLAN #2
		© 1968
DRAWN BY: T.A. Cameron	APPROVED BY: L. Piester	5/10/68

CONSTRUCTION STEPS

- 1) Build the ENGINE MOUNT so that the #7 tube extends $7/8$ " as shown.
- 2) Glue the four LASER CENTERING DISKS to the #5 tube. Then build the two COUPLER ASSEMBLIES and glue them to the #5 tube as shown.
- 3) Glue the ENGINE MOUNT flush into one end of the 3" long #10 tube. Then glue the #5 TUBE ASSEMBLY into the other end so it extends $1/4$ " as shown.

ALTERNATE PAINT SCHEMES



- 4) Gently slide the CLEAR PLASTIC TUBE in place on the assembly. Sand down any spots on the assembly where the plastic tube fits too tight. Remove plastic tube before painting the rocket.
- 5) Cut the 6" long #10 TUBE down to 4". Do not glue this tube in place until all painting has been completed and the clear plastic tube has been slipped permanently in place.
- 6) Cut out all balsa parts using the full-size patterns as a guide. Sand, apply 2 coats of filler, and re-sand with fine sandpaper. Be sure that all edges which glue to the body tube are not rounded nor covered with any filler. Then glue the balsa parts and launch lugs in place.
- 7) Paint the Laser 241 your favorite color. When dry, slip the CLEAR PLASTIC TUBE permanently into place. Next, glue the 4" long #10 TUBE over the top coupler. You will note that slightly less than $1/4$ " of the upper and lower couplers are showing inside the plastic tube. Thus, $1/4$ " wide PRO/STRIPE can be used to nicely hide the exposed couplers.
- 8) Attach the SHOCK CORD to the body with an ANCHOR RING. Lastly, glue a SCREW EYE to the NOSE CONE and connect the CHUTE and SHOCK CORD.