Estes Industries Rocket Plan No. 52

JAGUAR

JGD-2

3-ENGINE CLUSTER CHUTE RECOVERED!

Published as a service to its customers by Estes Industries, Inc., Box 227, Penrose, Colo. 81240

© Estes Industries 1967

 \square 1. Cut three 8.55" lengths of BT-20, make a slit 2-1/2" from the end of each tube and glue an EH-2 in each tube. Wrap a 2-1/2" strip of TH-1 around the tube/EH-2 assembly 1-1/4" from the end of each tube.

☐ 2. Lay two of the tubes side by side on a flat surface and join with a heavy layer of glue. When the glue has set, glue the third tube into the "V" formed by the first two tubes.

□ 3. Cut out the transition base plate and the transition tubes using the template. Glue the transition plate to the forward end of the three-tube engine assembly. Glue the flat edges of the transition tubes together. Let this assembly dry, then run a glue fillet on the inside of each joint.

☐ 5. Put glue on the end of the long tabs of the second stage body tube and insert into the hole in the top of the transition, making sure that the tabs seat between the holes in the plate. Run a line of glue around the top of the transition and let dry.

☐ 6. Cut out the transition shroud and glue together. When the shroud is dry, slide it into place over the transition. Lightly mark the joint made by the shroud and transition - - slide the shroud back and run a thin line of glue around the joint line and slide the shroud into place. Run a thin fillet of glue around the joint at the top end of the shroud and smooth out with a finger. Set the assembly aside to dry thoroughly.

☐ 7. Cut a 3.63" length of BT-5 and give to the TA-520. Make a nose cone (as shown in the upper right side of the plans) and give into the forward end of the BT-5.

☐ 8. Cut out the engine shroud and glue together. When it has dried, slide the shroud into place on the rear of the rocket. Fit there are dge of the shroud flush with the rear edges of the engine tubes.

□ 9. Trace the fin root and tip formers onto heavy cardboard for a template or trace directly onto a sheet of BFS-40. Repeat this step with the fin brace pattern, but if traced directly to wood, make the brace pieces of BFS-20. Cut three pieces of BFS-40 2" x .15" for the trailing edges of the fins. Assemble the fins and glue into place on the lower shroud.

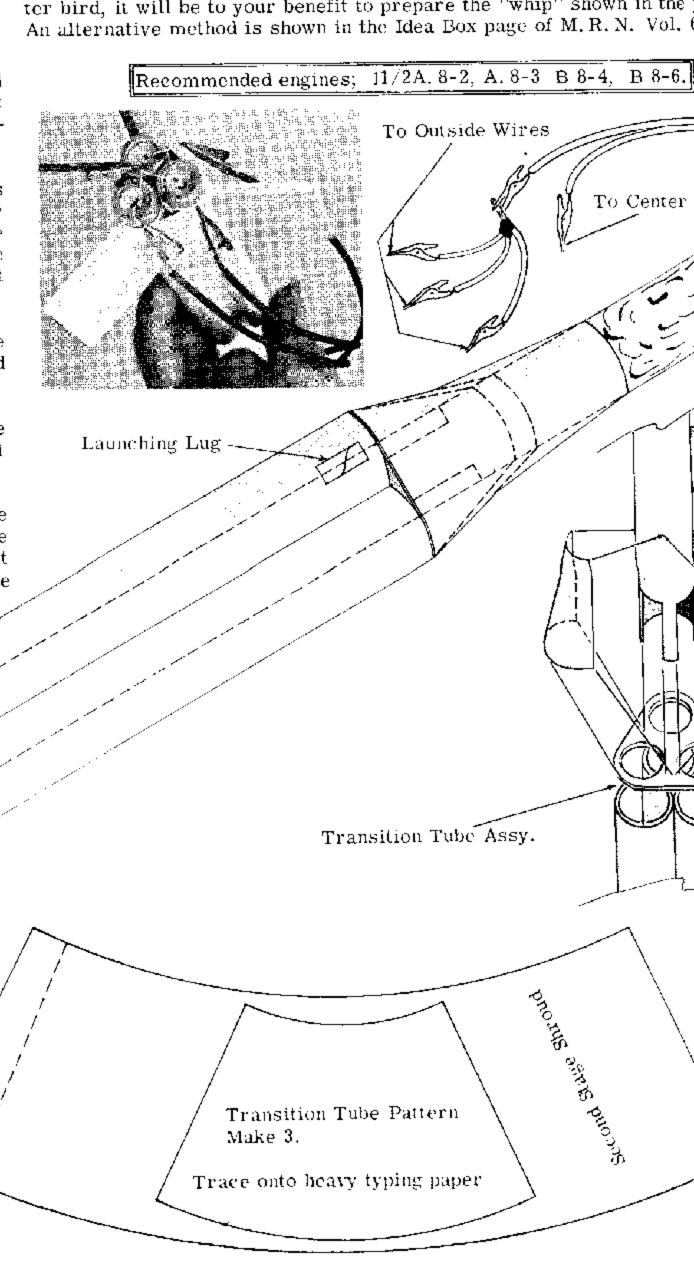
Launching Lug

□ 10. Assemble the parachute following the instructions in the kit. the screw eye in the bottom of the TA-520 in the usual way. Assemble cord mount and install the shock cord at least 5/8" deep into the topen rocket. Tie the free end of the shock cord and the free ends of the lines to the screw eye and your Jaguar's recovery system is complete.

oxdot 11. Glue the launching lugs into place at the locations shown on the

GENERAL INFORMATION

If you have built and flown the Astron Ranger or the Astron Cobra y have no problem in preparing the Jaguar for flight. If this is your fir ter bird, it will be to your benefit to prepare the "whip" shown in the An alternative method is shown in the Idea Box page of M.R.N. Vol. (



Scaled & Drawn By; White

EH-2's Protrude 1/4"

