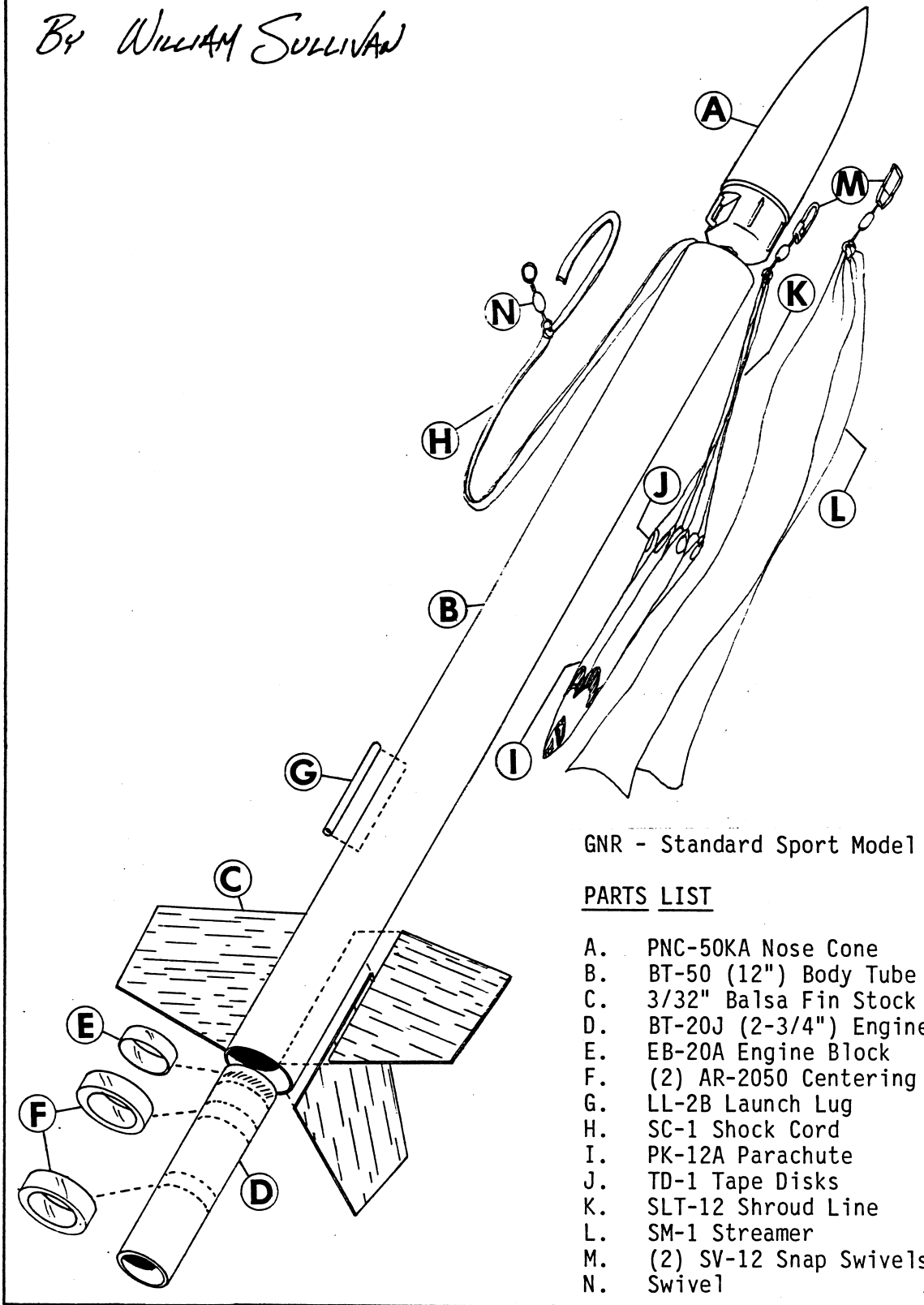


GNR

By William Sullivan



GNR - Standard Sport Model

PARTS LIST

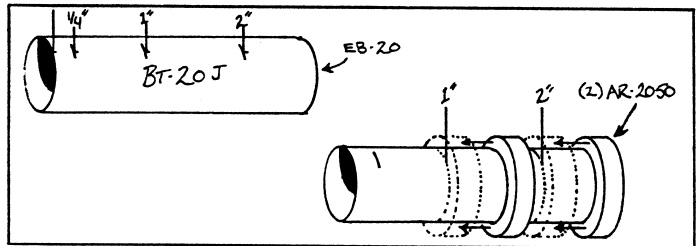
- A. PNC-50KA Nose Cone
- B. BT-50 (12") Body Tube
- C. 3/32" Balsa Fin Stock
- D. BT-20J (2-3/4") Engine Tube
- E. EB-20A Engine Block
- F. (2) AR-2050 Centering Rings
- G. LL-2B Launch Lug
- H. SC-1 Shock Cord
- I. PK-12A Parachute
- J. TD-1 Tape Disks
- K. SLT-12 Shroud Line
- L. SM-1 Streamer
- M. (2) SV-12 Snap Swivels
- N. Swivel

G N R
By Bill Sullivan

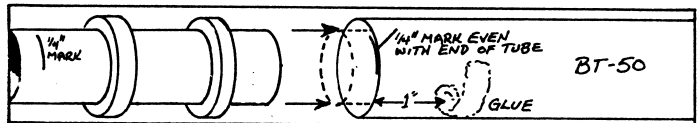
1. [] Apply a bead of glue inside the top of the BT-20 engine tube. Insert the engine block. Remove any excess glue. Let dry.



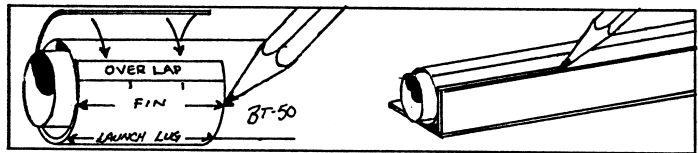
2. [] Measure and mark 1/4", 1" and 2" from the thrust end of the engine tube. Slide an AR-2050 centering ring over the engine tube. Run a bead of glue above the 1" mark around the tube. Slide the centering ring so that the lower edge of the ring is even with the top of the 1" mark. Repeat this process with the other centering ring and the 2" mark. Set aside to dry.



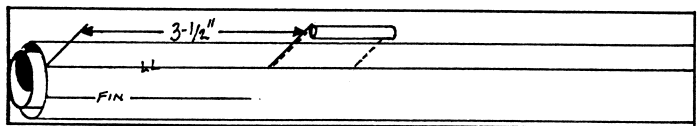
3. [] Run a bead of glue 1" inside the thrust end of the BT-50 Body Tube. Insert the engine mount into the body tube until the thrust end of the body tube is even with the 1/4" mark on the engine mount. Let dry.



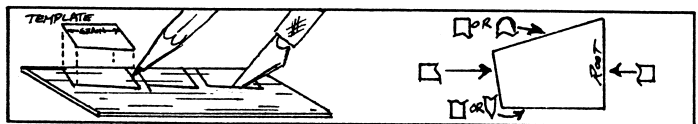
4. [] Lightly sand the body tube with extra fine sandpaper. Cut out the fin marking guide. Wrap the guide around the BT-50. Mark the body tube at the arrows. Remove the guide and extend the marks the length of the body tube.



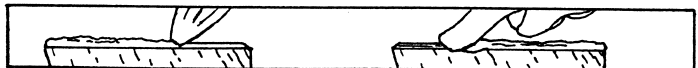
5. [] Measure 3-1/2" from the thrust end along the launch lug line and mark. Run a bead of glue along the launch lug and mount it even with the top of this mark on its line. Let dry.



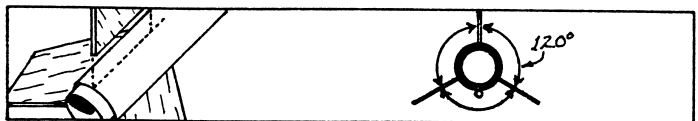
6. [] Cut out the fin template. Using this template, trace and cut out from the balsa fin stock 3 fins. Sand all edges smooth. If you wish, round or taper the leading edge of the fin.



7. [] Rub glue into the root edge of the fins. Let dry. Sand any roughness left by the glue smooth.

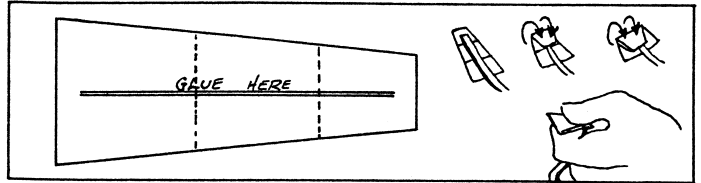


8. [] Run a bead of glue down the root edge of the fins and mount it along the guide lines on the body tube, even with the thrust end of the tube. Clean up any excess glue. Let dry.



G N R

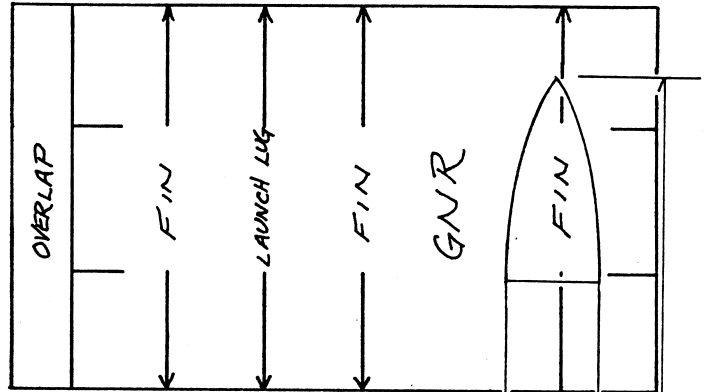
9. [] Cut out the shock cord mount. Crease the paper along the dotted lines. Run a bead of glue down the middle of the mount. Lay the shock cord down the center of the of the mount. Run a bead of glue over the shock cord on the mount. Fold the mount as shown. Hold together until the glue starts to set.



10. [] Apply glue to the back of the shock cord mount. Carefully slide the mount down the inside the body tube @ 1-1/2" from the front. Press the mount firmly against the inside wall of the body tube. Let dry.

11. [] This is an option. Slide the swivel 2" down the shock cord. Tie a knot around the swivel.

12. [] Tie the end of the shock cord to the nose cone.



This model was designed to be used with either a parachute or a streamer and to be able to switch from one to the other by use of snap swivels.

13. [] For the streamer, make a 18" piece. Fold in half. Take a 2" section of shroud line and tie one end to the streamer at the fold. Tie the other end to the swivel end of the snap swivel.

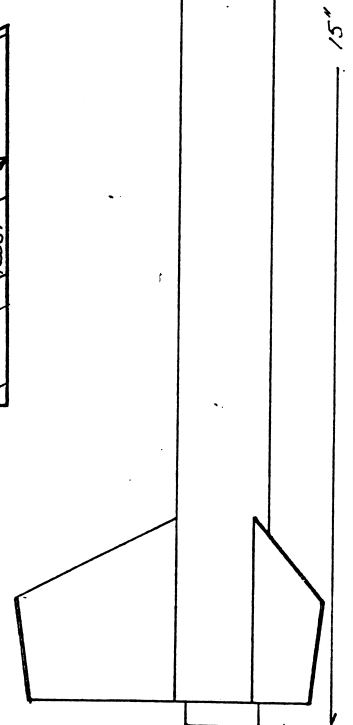
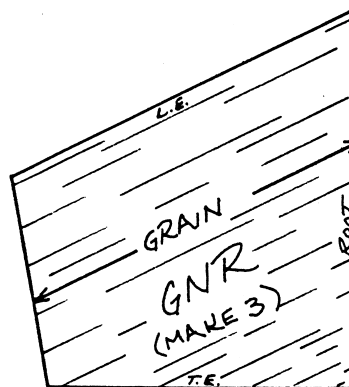
14. [] For the parachute, first cut out the shroud from its sheet.

15. [] Measure and cut three even sections of shroud line.

16. [] Using the tape dots, mount the shroud lines to the parachute.

17. [] Spiking the shroud lines, feed the lines through the eye of the swivel. Loop around the swivel and pull tight.

The model is now ready for finishing of your choice.



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USE PHOTOCOPY FOR TEMPLATES & MOUNTS.