



A SUBSIDIARY OF DAMON

Drifter

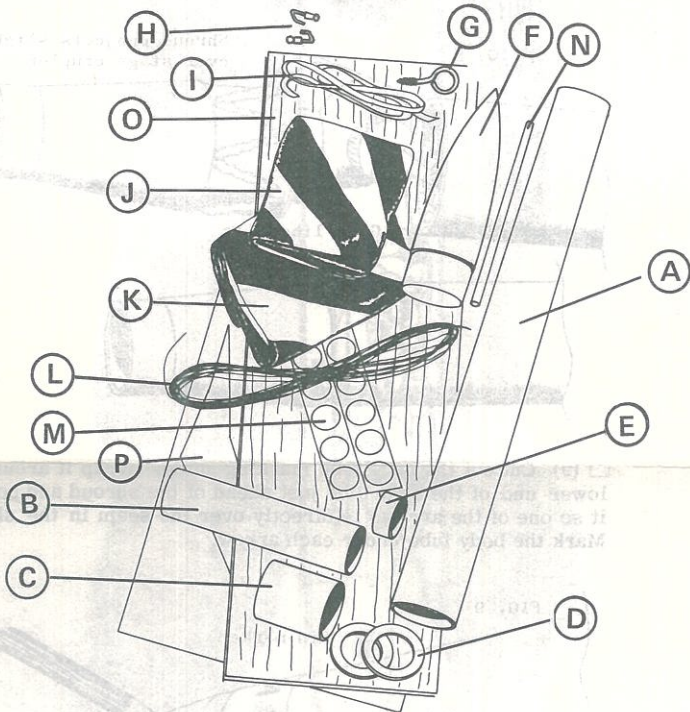
Cat. No. 1214

The Astron Drifter is a high performance parachute recovered rocket designed for both sport and duration competition flying. It combines high altitude capability with a large parachute capacity. If built carefully your Astron Drifter will give you many spectacular flights for your research program, fun or contests.

PARTS LIST

The kit consists of the following parts as illustrated below:

- A) 1 Body tube type BT-50H (7.75" long) 30360
- B) 1 Engine holder tube type BT-20J (2.75" long) . 30326
- C) 1 Stage coupler type JT-50C (1" long) 30260
- D) 2 Adapter rings type RA-2050 30124
- E) 1 Engine block type EB-20A 30224
- F) 1 Balsa nose cone type BNC-50K 70262
- G) 1 Screw eye type SE-2A 38252
- H) 2 Interlocking snaps type SV-2 38269
- I) 1 Shock cord type SC-1 (18" long) 85730
- J) 1 12" parachute type PK-12A 85564
- K) 1 24" parachute type PK-24A 85568
- L) 1 216" shroud line cord type SLT-216 38245
- M) 12 Tape discs type TD-3F 38406
- N) 1 Launching lug type LL-2B (2-3/8" long) 38178
- O) 1 Sheet balsa fin stock type BFS-20 32102
- P) 1 Pattern and shroud sheet type SP-14 82872

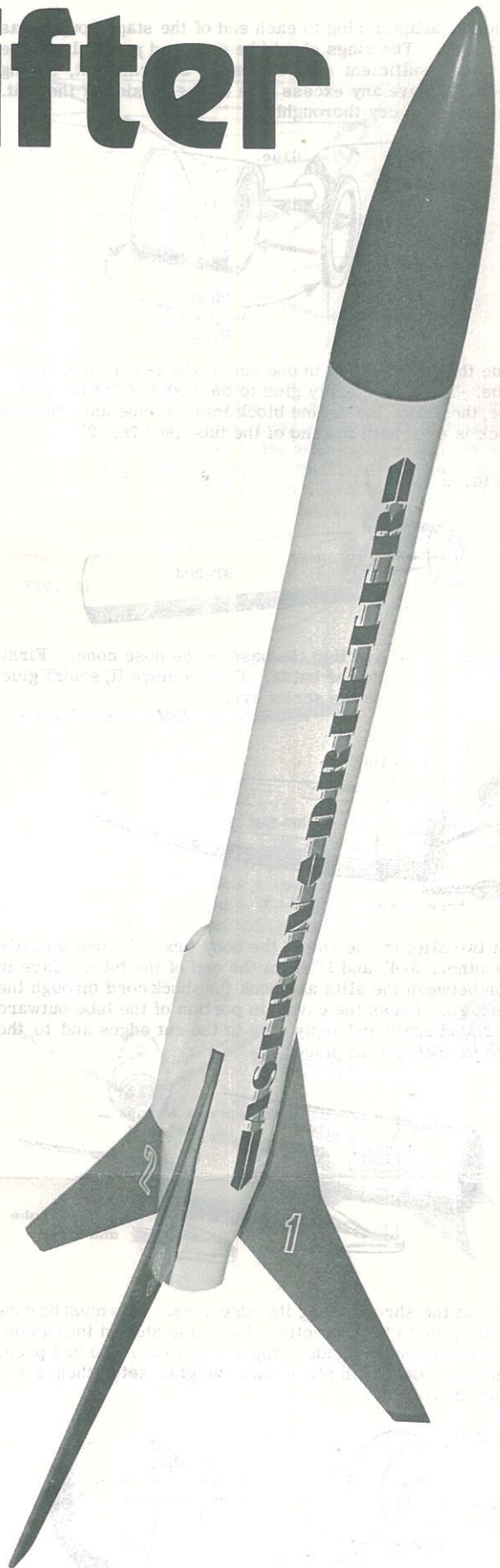


In addition to the materials included with your kit you will need the following tools and supplies:

- 1) Modeling knife or single edge razor blade
- 2) Scissors
- 3) Extra strong white glue
- 4) Ball point pen or pencil
- 5) Fine and extra fine grit sandpaper.
- 6) Paint brushes, sanding sealer and paint or dope

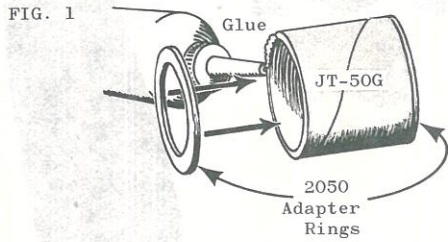
IMPORTANT:

Read the entire assembly instructions carefully before beginning work on your rocket. Then start construction, following each step in order, checking off each step as it is completed.

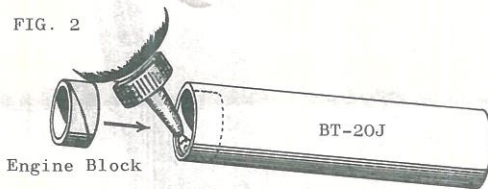


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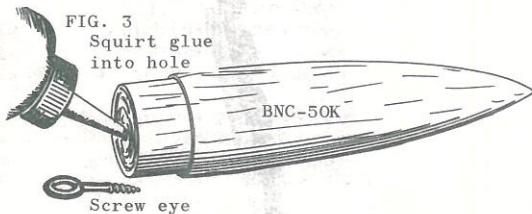
- (1) Glue one adapter ring to each end of the stage coupler as shown in fig. 1. The rings should be centered perfectly on the coupler. Apply sufficient glue to insure a permanent, strong joint, but do not leave any excess glue on the outside of the unit. Set the unit aside to dry thoroughly.



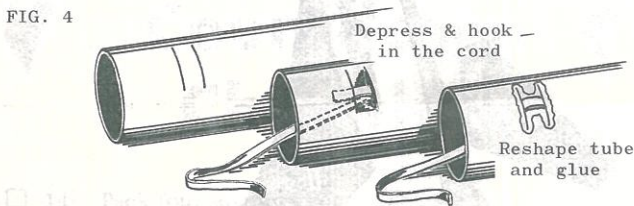
- (2) Glue the engine block in one end of the 2-3/4" long engine holder tube. To do this, apply glue to the last 1/4" of the inside of the tube, then slide the engine block into the tube until the end of the block is even with the end of the tube (see fig. 2).



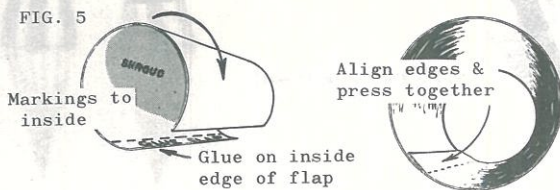
- (3) Glue the screw eye into the base of the nose cone. First insert the screw eye into the balsa. Then remove it, squirt glue into the hole and replace the screw eye.



- (4) Cut two slits in one end of the body tube, the one directly under the other, 3/4" and 1" from the end of the tube. Cave in the section between the slits and hook the shock cord through the slits as shown. Press the caved-in portion of the tube outward until it is round again and apply glue to the cut edges and to the shock cord to anchor it in place.

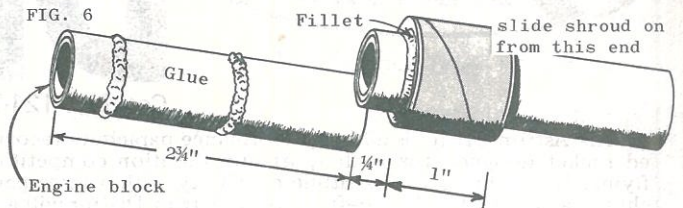


- (5) Cut out the shroud along its edge lines. This must be done carefully if it is to fit correctly. Form the shroud into a cone with the markings on the inside. Apply glue to the flap and press it into position. Hold it in place until the glue sets, then set it aside to dry thoroughly.

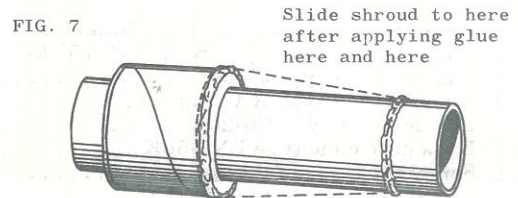


- (6) Glue the ring-coupler unit to the engine holder tube 1/4" from the end of the tube which has the engine block. To do this, mark the tube 1/4" from the end, apply glue around the tube at points 1-1/8" and 3/8" from the end and slide the ring-coupler

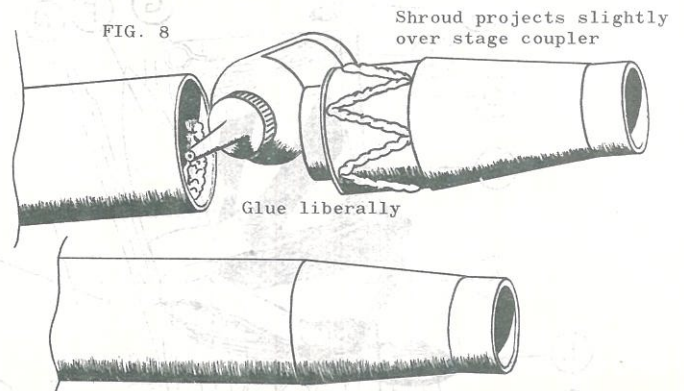
unit into place from the lower end of the engine holder tube. Apply a glue fillet to both ring-tube joints as shown. Let dry.



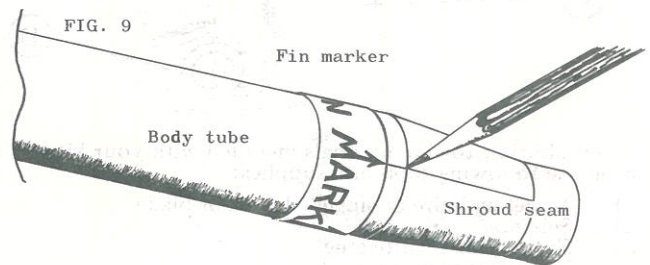
- (7) Slide the shroud all the way forward on the engine holder unit and glue in place as shown in fig. 7. Let the glue dry completely.



- (8) Apply glue all around the outside of the stage coupler and to the inside of the bottom end (end away from the shock cord) of the body tube. Slide the coupler into the body tube so the shroud laps against the body tube. Wipe off any excess glue from the outside of the body and shroud. Let this assembly dry thoroughly, then sand off any rough edges on the outside to obtain a smooth contour.



- (9) Cut out the body tube marking guide. Wrap it around the lower end of the body tube just ahead of the shroud and position it so one of the arrows is directly over the seam in the shroud. Mark the body tube under each arrow.



- (10) Cut out the fin pattern. Lay the pattern on the balsa fin stock with the grain of the wood and the grain shown on the pattern matched perfectly. Trace out three copies of the fin. Cut out the fins carefully. Be especially careful on edges which attach to the body so they will fit exactly. Sand the flat sides of each fin until smooth. Sand all edges of the fins except the edges which attach to the body until smooth and round.