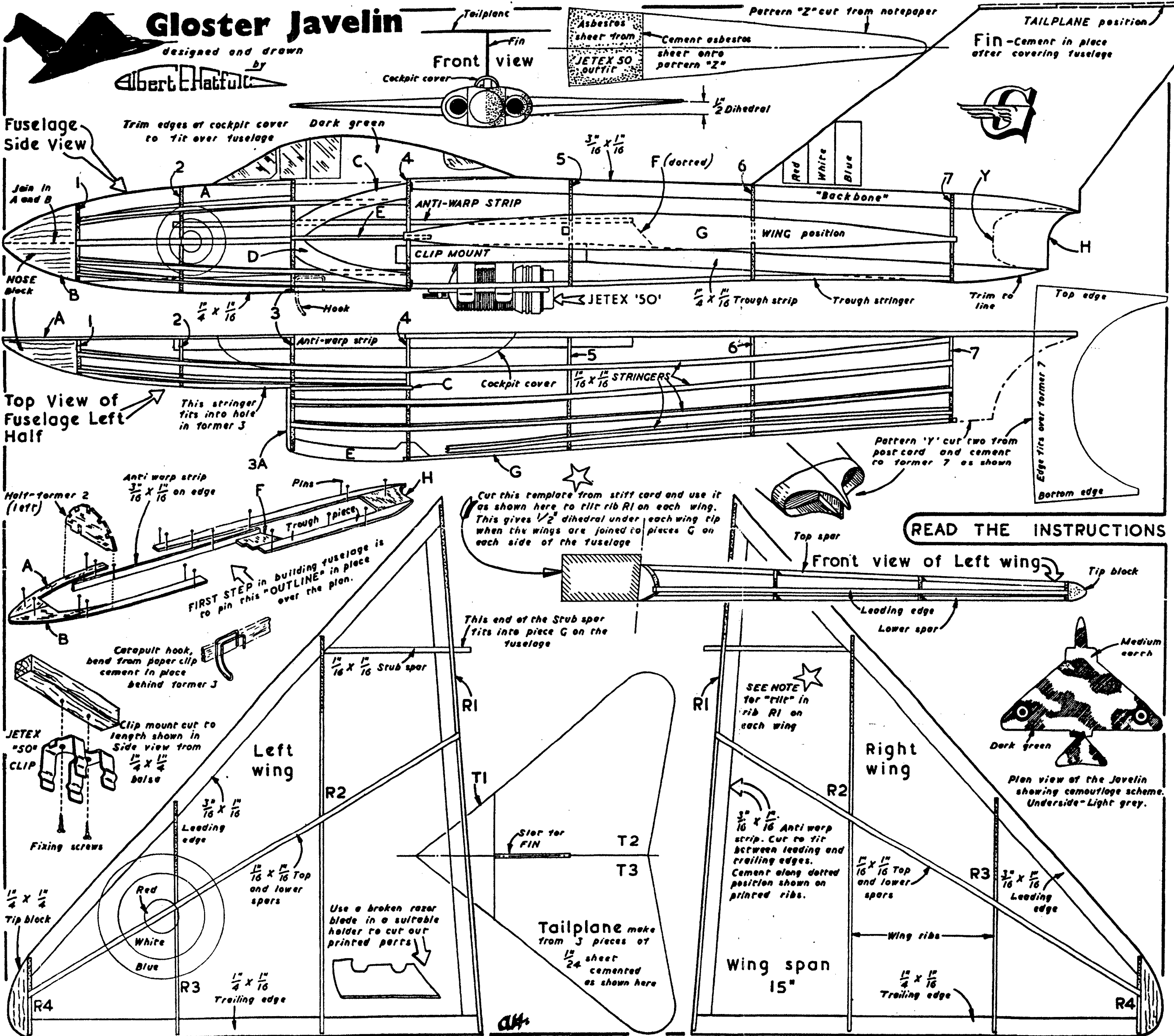


Gloster Javelin

designed and drawn
by
Albert Hatfull



Notes—No wheels are supplied in this kit.

GLOSTER JAVELIN BUILDING INSTRUCTIONS

Pin the plan to a small wooden "Building Board" and cover with a sheet of greaseproof paper.

FUSELAGE. Pin pieces A, B, F and H, and the strips of $\frac{3}{16}$ $\frac{1}{16}$ " and $\frac{1}{4}$ " \times $\frac{1}{16}$ " directly over the plan. Note the "ANTI-WARP STRIP" which is set on edge; see sketch labelled "FIRST STEP in building fuselage." Refer to this sketch while pinning parts in place. Cement all joints.

Note how the "Trough strip" and Top (backbone) strip are trimmed off to a curved shape at the rear.

The half formers for this side may now be added by cementing them across the fuselage in the positions shown on the plan. Pin in place until the cement sets. The half formers for this first side are marked "LEFT," and when in place ALL the pinning should face forward. Apply cement to the notches in half formers 3 and 4, and add piece E (Top View). Apply cement to the outer notches marked "G" in half formers 4, 5, 6 and 7. Ensure it is the right way up, then add piece G. Cement piece C (top) and piece D (lower) into the notches in half formers 3 and 4. Cement the $\frac{1}{16}$ " \times $\frac{1}{16}$ " stringers into the notches in the half formers.

The centre front stringer fits in notches in 1 and 2, then into a hole in 3 where it stops. The stringers above and below this at the front fit into notches in 1, 2 and 3, then they cement directly behind pieces C and D and stop against the front face of 4. See Side and Top Views. It may be found easier to leave out the "Trough stringer" until this side is removed from the plan when the cement has set.

The second (or right-hand) side may now be "built-on" to the first side by cementing the right-hand set of half formers directly opposite and in line with their counterparts on the first side. Add the other parts including the stringers, as described for the first half.

Cement the two halves of the nose block one on each side of pieces A and B, and carefully carve to the shapes shown, using a sharp knife and fine sandpaper.

From the $\frac{1}{2}$ " \times $\frac{1}{2}$ " balsa supplied, cut the CLIP MOUNT to the length shown in the Side View. Cement the JETEX '50' Clip (Supplied in each Jetex '50' outfit and not contained in this kit) to the CLIP MOUNT in the position shown (Side View). Check that the clip is central and parallel with the Clip Mount—THIS IS IMPORTANT—if correct, screw the Clip to the Mount, using the small screws supplied in the Jetex outfit (See Sketch). Install the Clip Mount with the Clip in place into the notches in formers 4 and 5 and the "recess former" F—cement well.

BEND the catapult hook from a wire paper clip as shown, then cement and bind in place to the keel strip directly behind former 3. Cement pattern Z in place into the recesses formed in formers 5 and 6 so as to form a "trough," adding a piece of (Jetex) asbestos paper on to pattern Z as shown.

Sandpaper the whole fuselage to remove any protruding edges, etc., then cut pieces Y from thin card and cement as shown to the rear of the fuselage.

Using paste as adhesive, cover the fuselage using "bands" of tissue. When the paste is dry, water shrink the tissue, allow to dry out thoroughly then apply a coat of Keil Kraft clear dope.

Paint the top of the fuselage at the cockpit cover position only, with light green dope. Trim the cockpit cover to length and shape then paint dark green as shown on the plan. Cement in place.

Cut out the centres of 3A and cement 3A over 3 on each side. Sand off the corners of 3A to a smooth radius.

WINGS. Pin the $\frac{1}{16}$ " \times $\frac{1}{16}$ " lower spars in position on the plan (for both wings at the same time). Apply cement to the lower notches in the wing ribs R2, 3 and 4, press down in place over the lower spars. Apply cement to the lower notch in ribs R1 and press in place over the lower spars—before the cement sets, use the template as shown on the plan to tilt this rib on each wing. Pin all ribs in position. Apply cement to the front notches in the ribs and slide the leading edge into place. Add the trailing edge in a similar way, and cement the top spar in position.

Lay a strip of $\frac{3}{16}$ " \times $\frac{1}{16}$ " close inside each rib R1, mark off, cut at the correct angles to fit between leading and trailing edges and cement in position above the dotted line marked on each rib R1. Re-check the angle of ribs R1.

The stub spar may now be inserted through the hole in ribs R1 and butted up to the leading edge near R2. Trim off any ends beyond R4, then cement the tip blocks cut from $\frac{1}{4}$ " \times $\frac{1}{4}$ " in place. Remove the wings from the plan, carve the tip blocks to shapes shown and finish both wings by fine sandpapering all over, rounding off the leading and trailing edges. Tissue cover each wing, water shrink then clear dope.

ASSEMBLING THE MODEL. Cement together the three pieces forming the tailplane by pinning to the plan. Sand each side of the tailplane to a smooth surface and round off the edges.

Place the fin in place over the plan to check the outline, particularly the top and lower edges. These are at an angle to each other and should be trimmed if necessary to preserve this angular difference even if it means shortening the fin slightly. When correct the fin should be sanded smooth.

Cement the tongue on the top of the fin into the slot in the tailplane while the tail is pinned down. When the cement has set, remove from plan.

Cement rib R1 of the wings (one at a time) and carefully press into position on pieces G of the fuselage. Notice how the stub spars fit into the holes in these pieces. Ribs R1 on each wing should follow to the outline of pieces G.

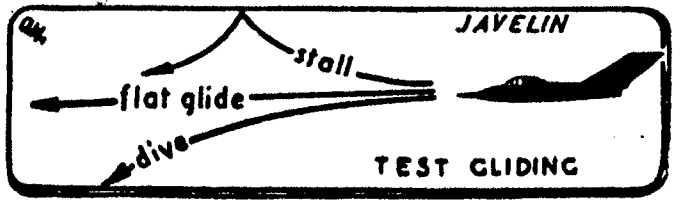
Apply cement to the lower edge of the fin (with tail attached), then locate directly over the "backbone" strip of the fuselage. Sight from front to rear to ensure a perfectly vertical fin and hold lightly in place until the cement sets. Using very thin dope, the model may be finished according to the colour scheme shown on the plan.

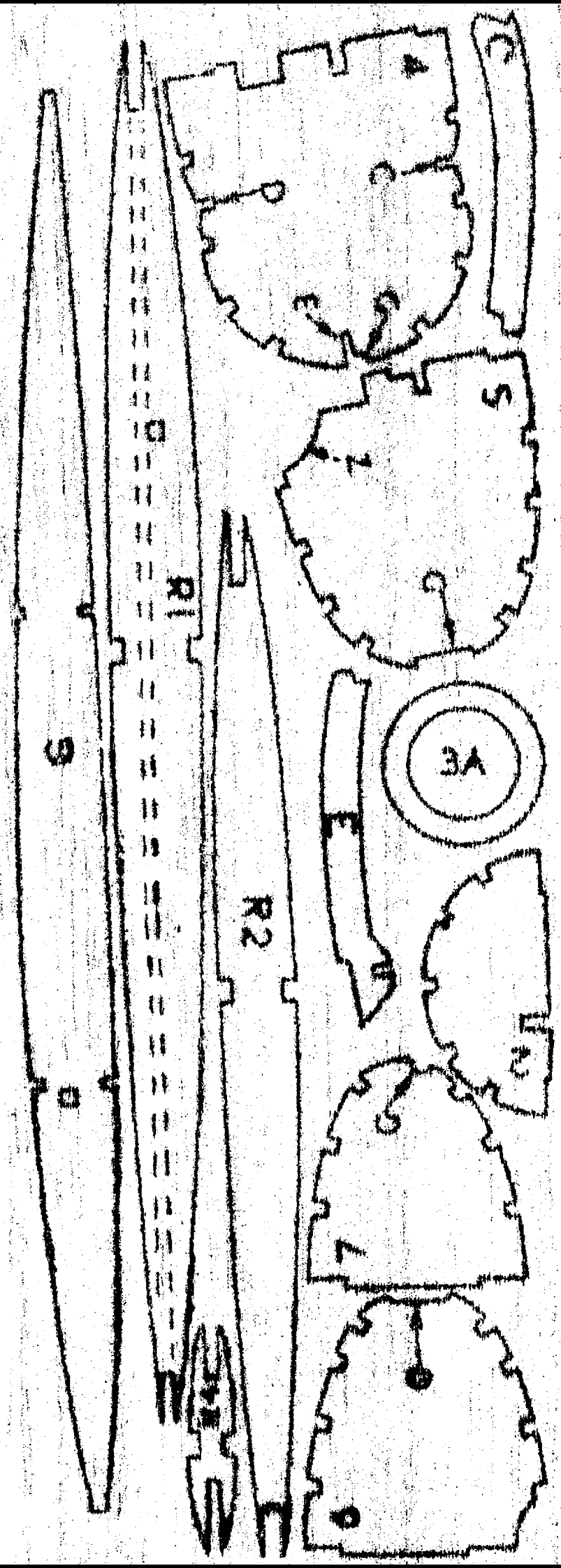
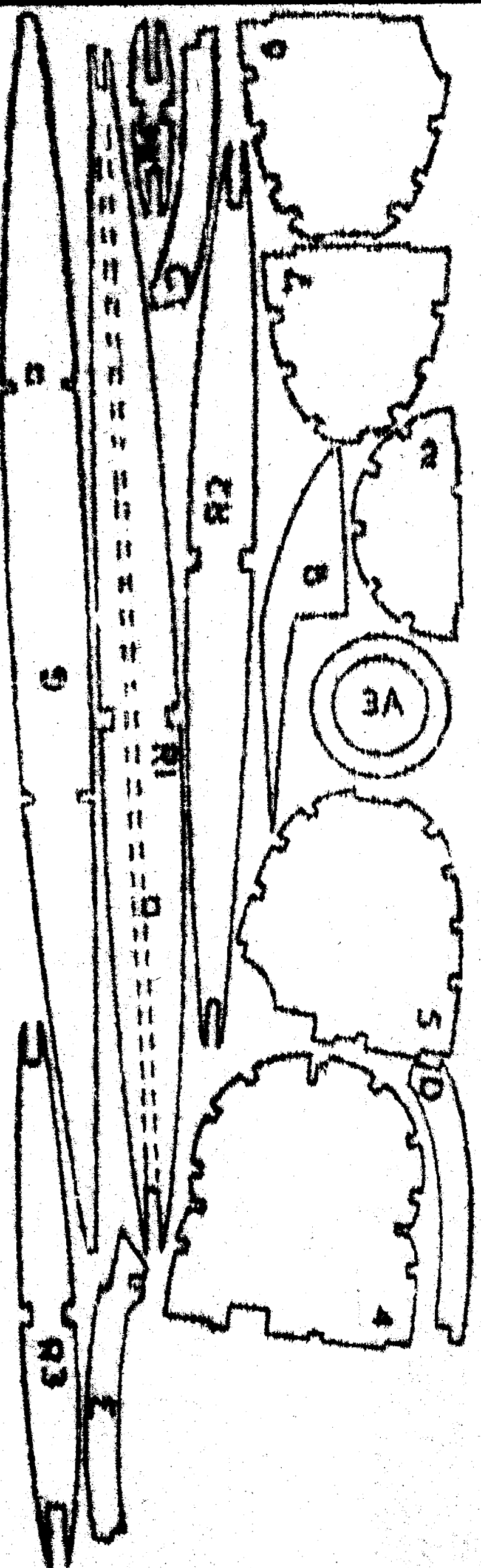
FLYING. With the Jetex motor (unloaded) clipped in place, add small pieces of plasticine to the nose or tail until the model balances level when supported on the fingertips at approximately $\frac{1}{2}$ " behind the stub spar position on the wing.

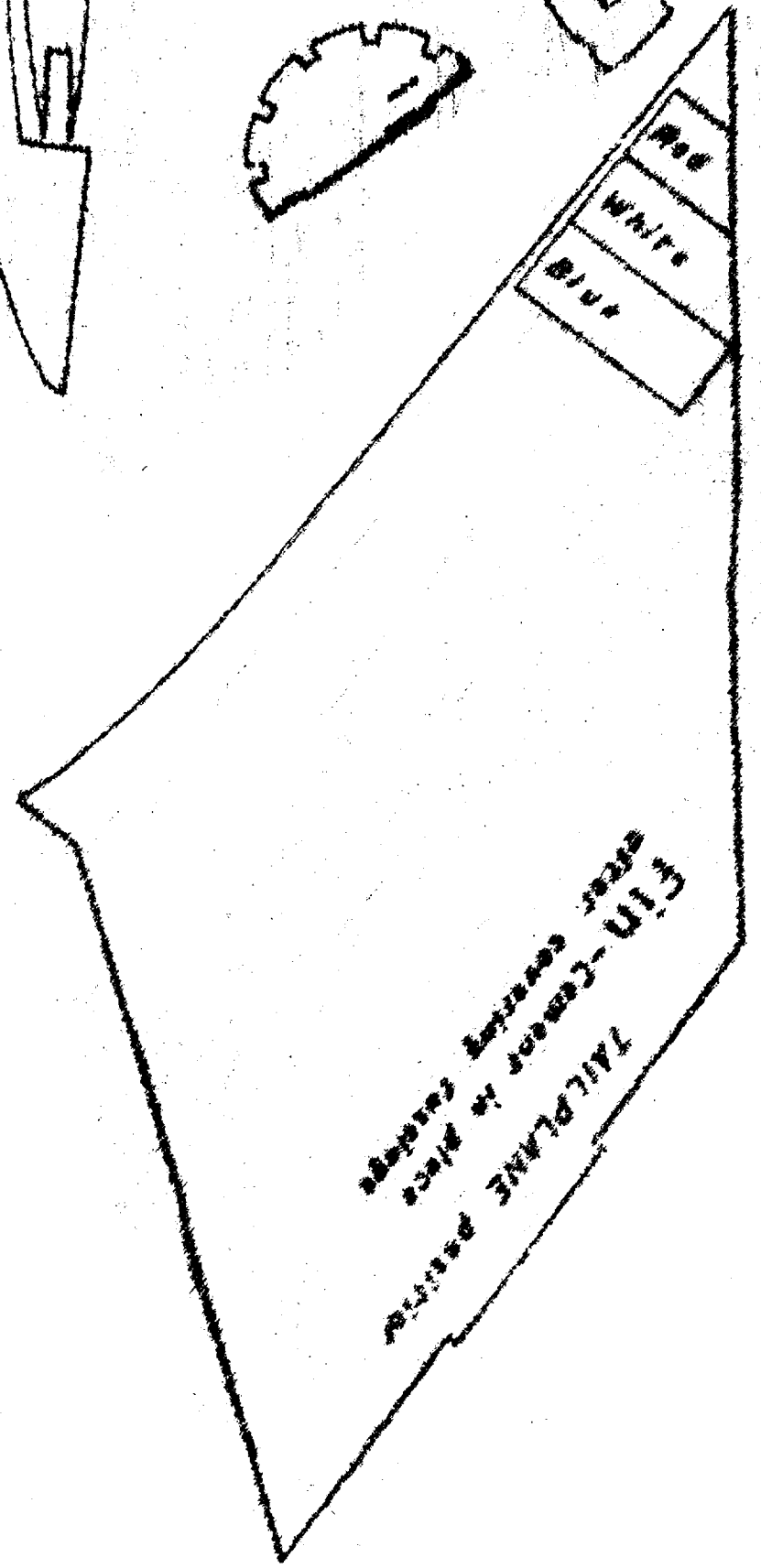
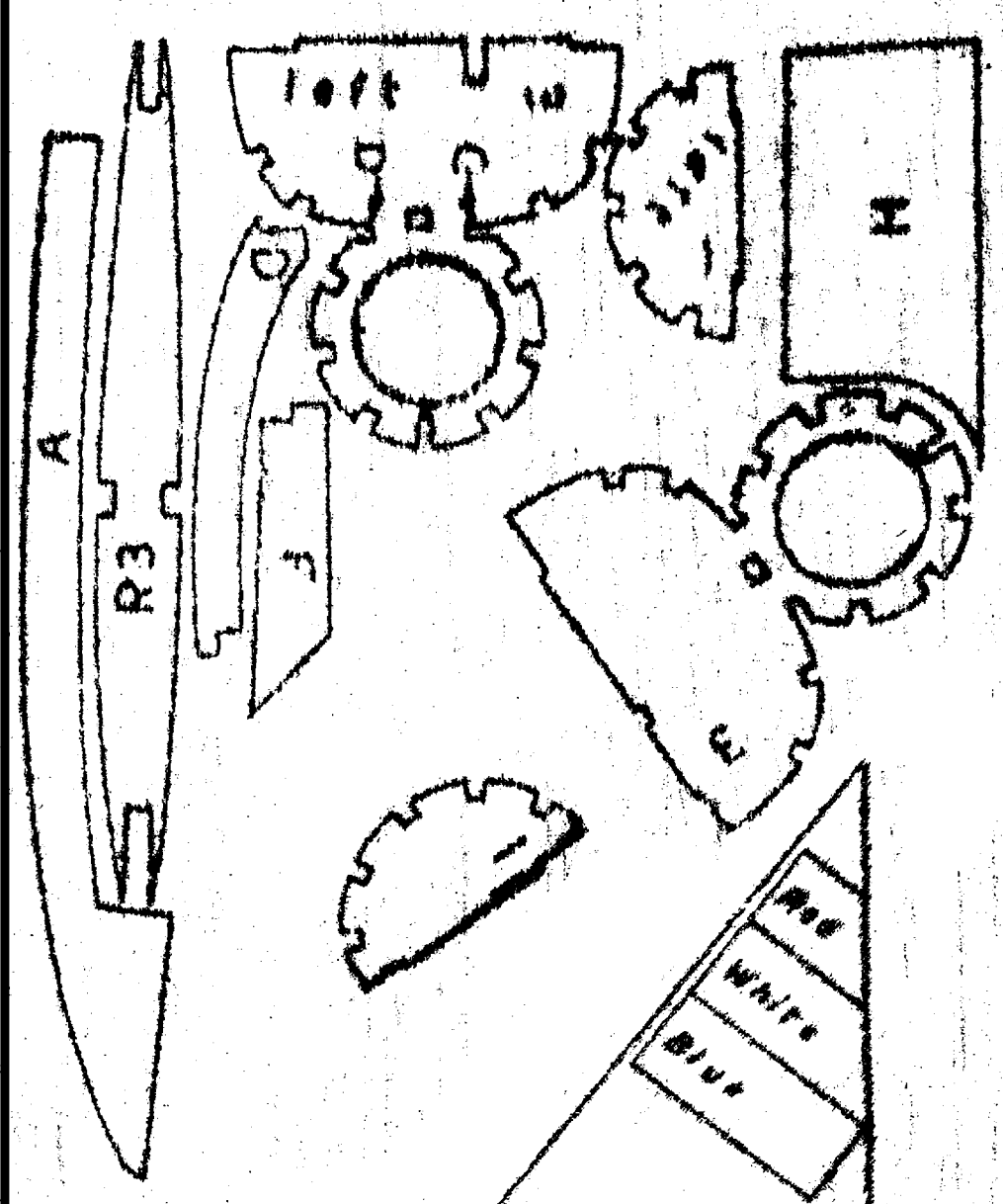
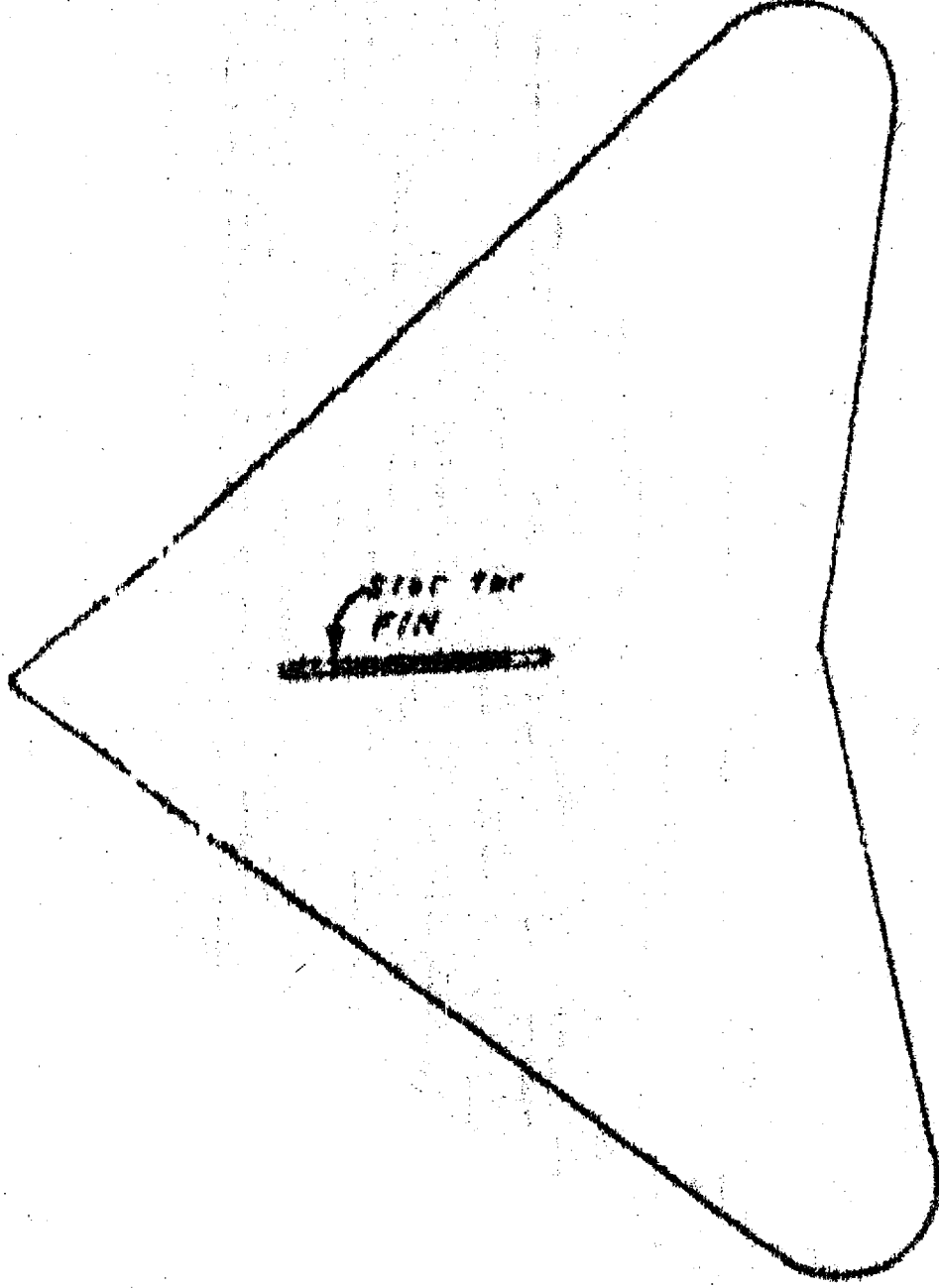
Choose a calm day, then test glide the model by launching from shoulder height on a slightly downward path into the wind. If the model dives — see sketch below — add plasticine inside the shape formed by pattern Y at the rear, or warp UP the back edge of the tail. If the model stalls, add weight to the nose.

CATAPULT. Tie a small metal ring to one end of about 6 feet of strong thread. Tie the other end to about 5 or 6 feet of $\frac{1}{4}$ " or $\frac{3}{16}$ " flat rubber and tie the other end of the rubber to a stake driven into the ground. Test the model on the catapult before lighting the Jetex unit and if necessary make further adjustments as described above.

READ THE INSTRUCTIONS







Javelin 1/16

FIN - Common to other
 Red
 White
 Blue