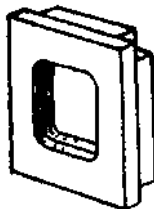
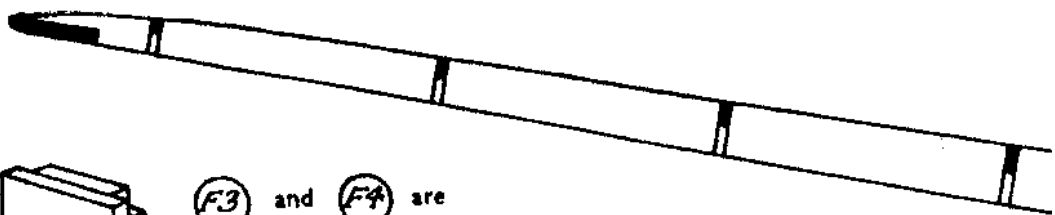
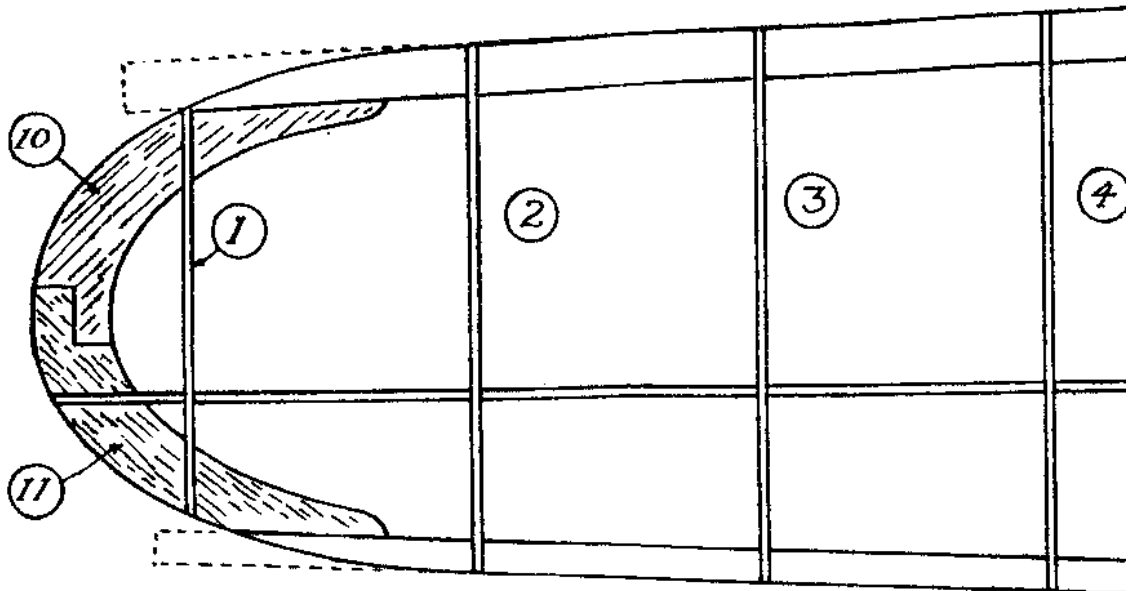


INSTRUCTIONS FOR BUILDING THE "SPRITE"

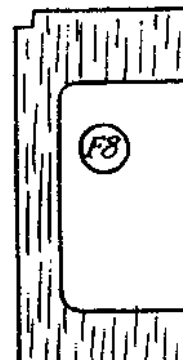
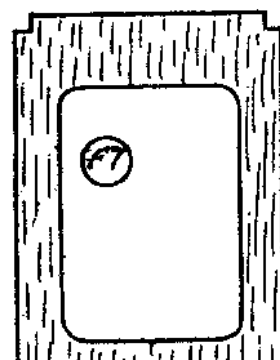
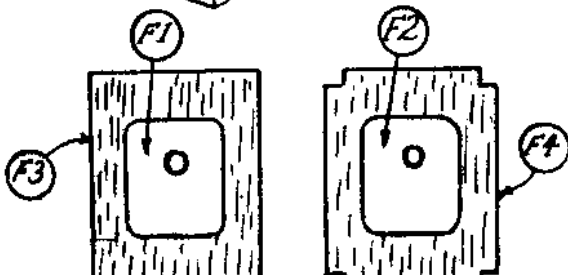
In common with all other 'Frog' products this model has first been designed to give the most efficient constructional methods have been carefully worked out to enable even the beginner to make a maximum amount of labour.

It is also interesting to note that if due to accidents in building or flying, the model is broken, it can be re-jointed together with the cement supplied and it is unlikely that a break will occur again at the joint.

Another feature of the 'Frog' kits is the full scale working drawing, comprehensively numbered with the instructions, so that you can place the drawing on a soft wood board or old table, and build the model by pinning the parts to it, carefully cementing every joint, and leaving for about 30 minutes. Pins may be pushed right through the pieces of balsa, to keep them in position, without causing any damage.



(F3) and (F4) are cemented together to form a composite nose bulkhead





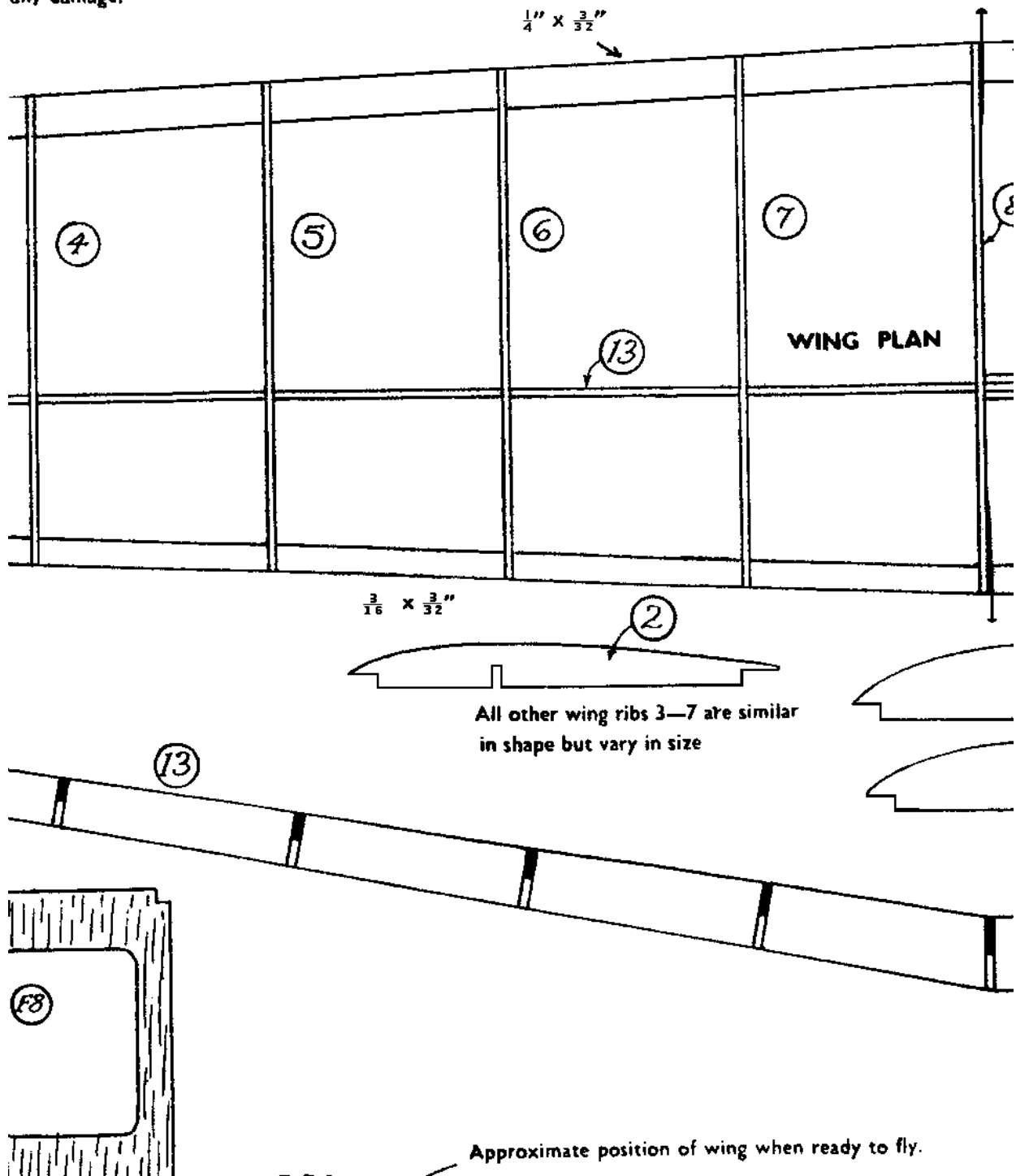
TH

"E"

For the most efficient performance in its class, it is recommended that you make a simple and satisfactory job. All parts may be prepared with the minimum of flying, parts are broken, they may be repaired at a joint.

Numbered and detailed for easy reference to build the various parts of the model on 10 minutes to set before removing. Small parts may be damaged.

WING CONSTRUCTION:—As in sketch No. 1 pin down the wing. Note the spars finish at ribs No. 8. Cement in place all the ribs. No. 1. Both port and starboard wings can be made together as in sketch No. 2 and support the tips on 2 in the centre section add the two pieces 14, followed by the main spar add rib No. 9. Cement into the four corners shown, rub with piece of stout paper provided. Sandpaper wing tips:

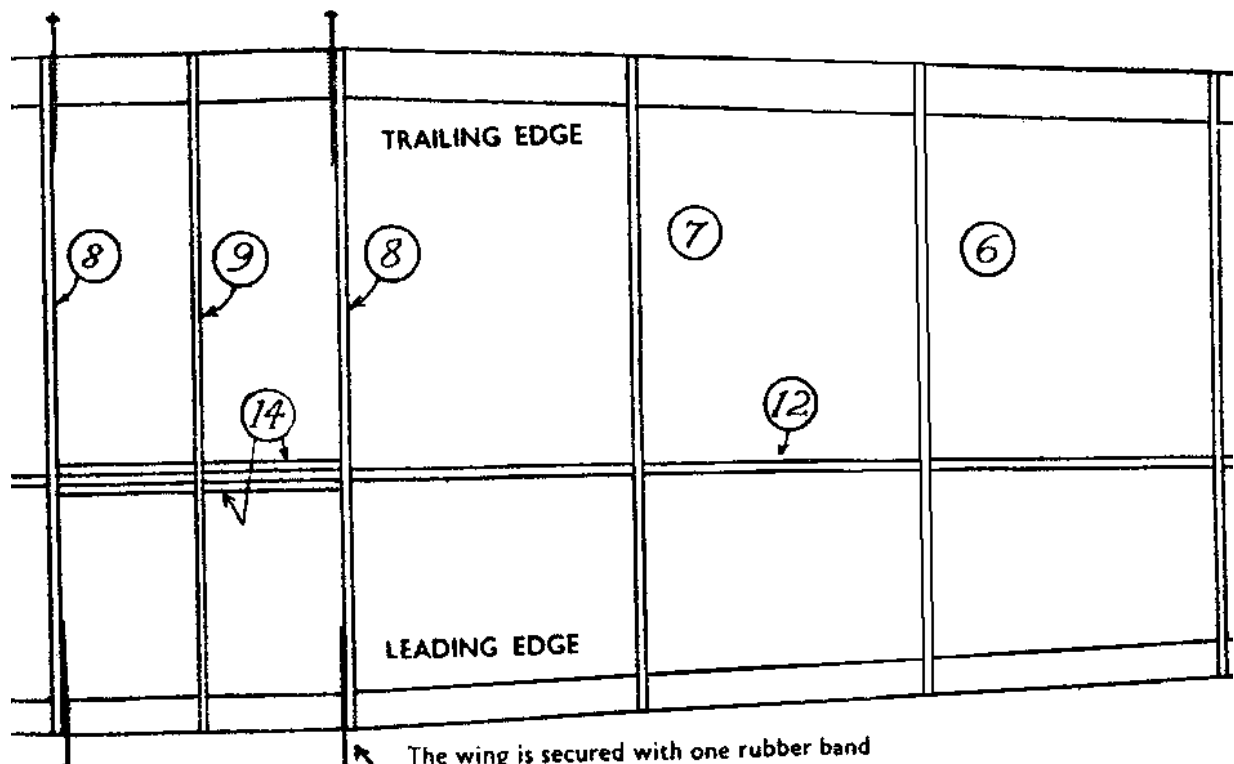


THE FROG "S"

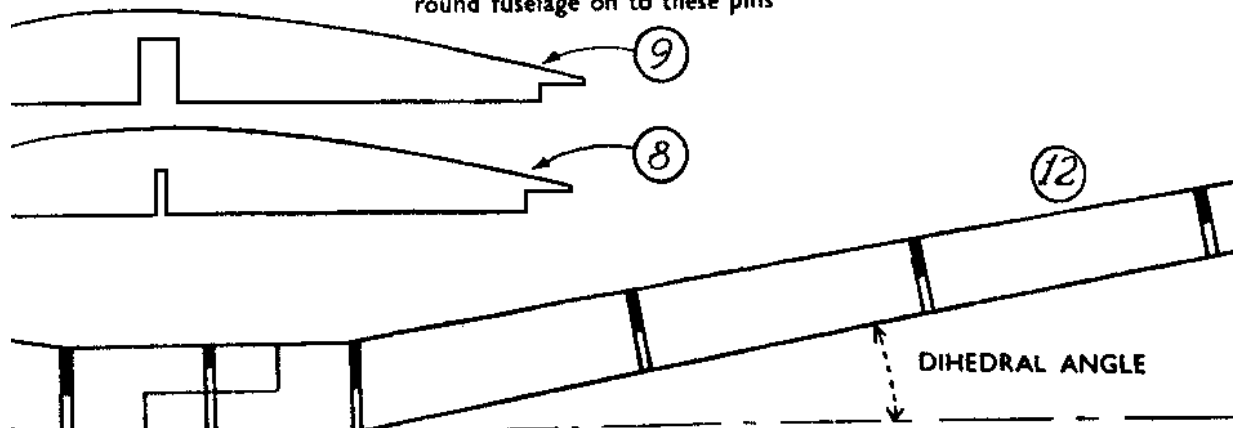
... down the leading and trailing edge spars on the drawing, also main spar 12 and 13. ... all the ribs from 2 to 8, followed by the wing tips Nos. 10 and 11, and the tip rib ... together. When dry remove from drawing, bring the two main spars 12 and 13 ... on 2in. blocks to give the correct dihedral angle. On each side of the main spar ... the missing pieces of leading and trailing edge to complete the centre section. Finally ... rubber band attachment pins bent up slightly, and cover the whole centre section ... ng tips and leading and trailing edge spars round and smooth, and clean up all ribs.

COVERING

U
covering
V
T
each side
S
prevent
F

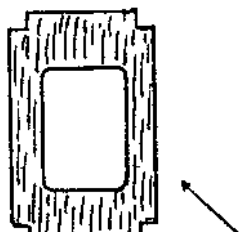


The wing is secured with one rubber band round fuselage on to these pins



RUBBER MOTOR.

Make up motor with a skein of 6 strand round skein. Apply a liberal application of ... Attach one end to hook on propeller shaft through the skein.



Rubber Dowel

SPRITE™

Junio

COVERING AND DOPING.

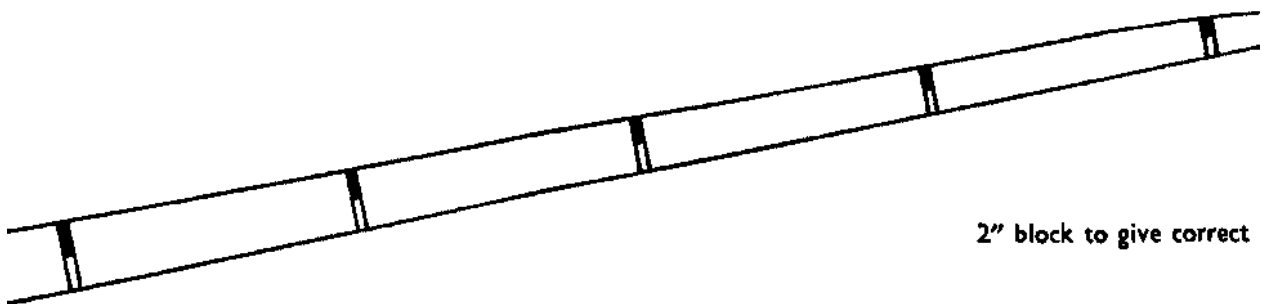
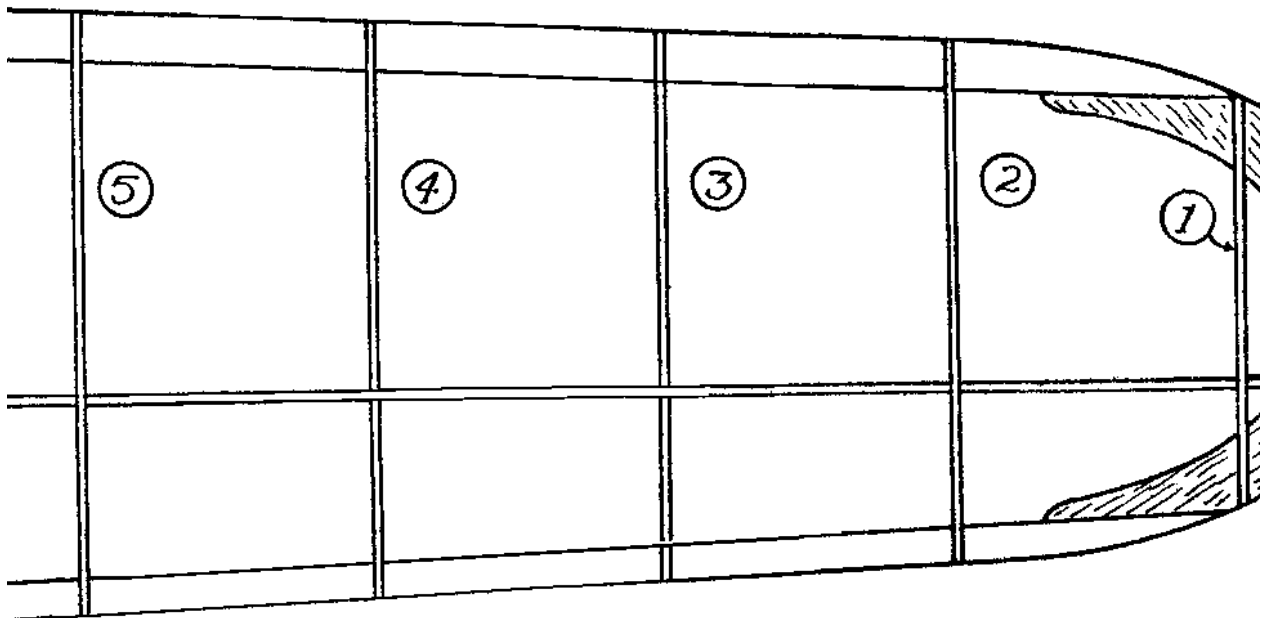
Use a flour and water paste as an adhesive. Do not attempt to pull tissue tight. Water spray and dope covering each piece uniformly with no deep wrinkles. The following is a recommended sequence of parts to

Wing under-surface in two pieces. Wing top surface in two pieces from centre section each way.

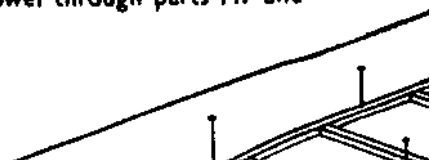
Tailplane top surface, followed by under surface. Fin one side, followed by other side. Fuselage in four

each side. Spray water lightly over all the tissue. Handle carefully while wet. Pin down wings, tailplane and fuselage to prevent warping while water dries.

Finally give one coat of clear dope and again pin down.



of 6 strands, 16" long of $\frac{3}{16}$ " \times $\frac{1}{30}$ " rubber. Keep each end secure with small rubber bands bound with castor oil to preserve rubber, and make it capable of taking more turns without breaking. Lower through fuselage and secure at rear end with birch dowel through parts F.9 and



ior Duration Model.

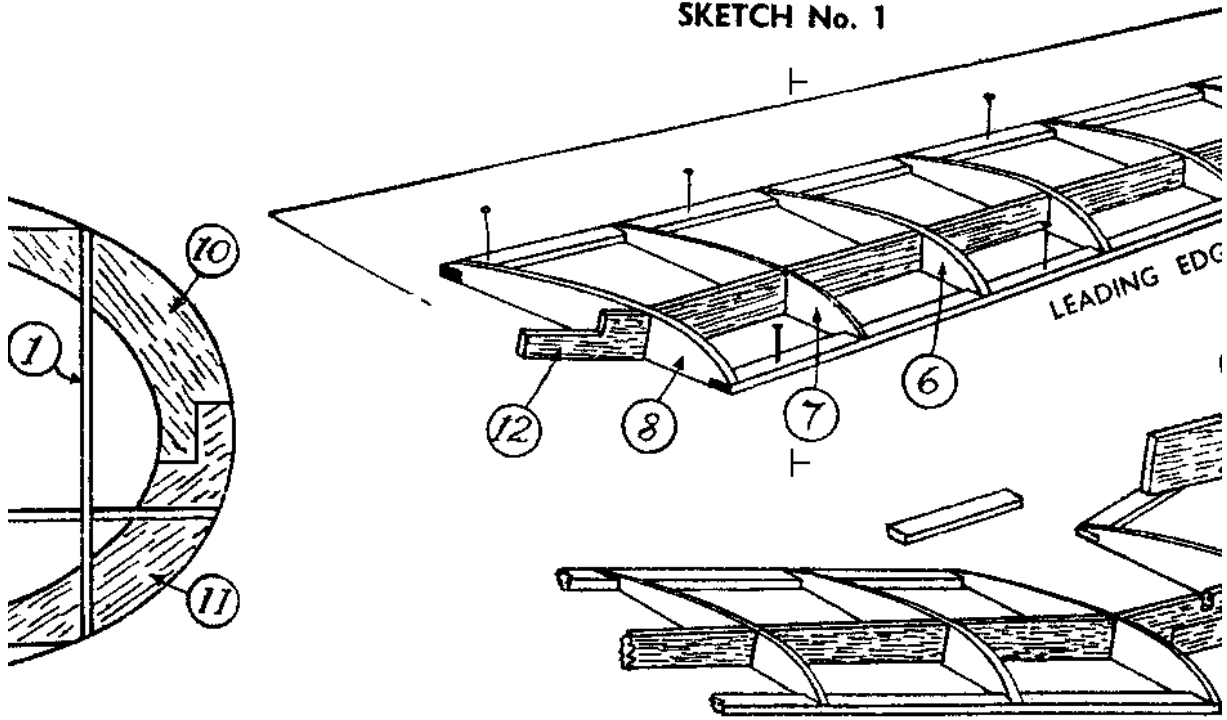
y and dope will do this. Aim at parts to cover.

way.

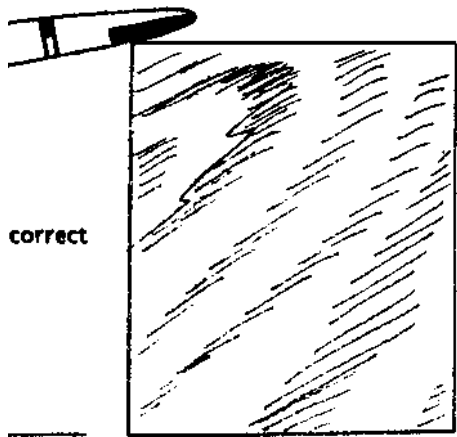
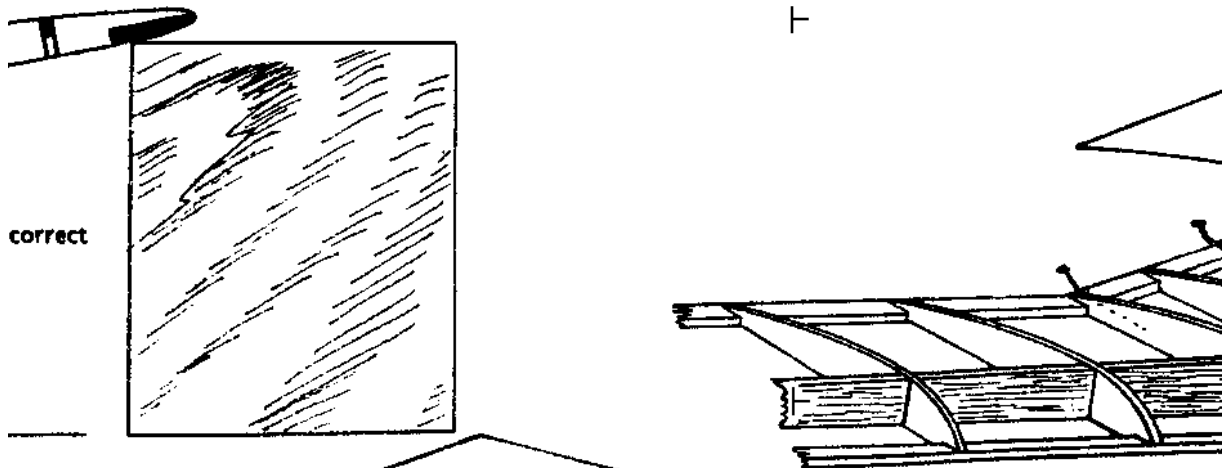
age in four sections, one piece for

ne and fin, as for assembling, to

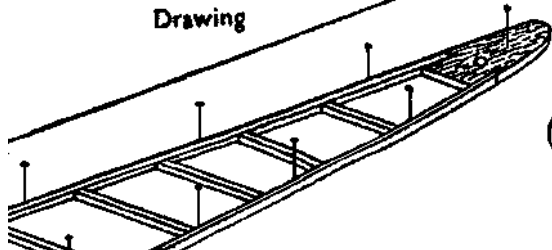
SKETCH No. 1



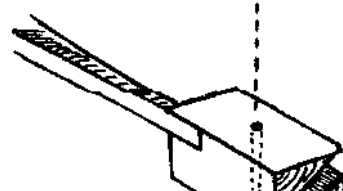
SKETCH No. 2



Drawing

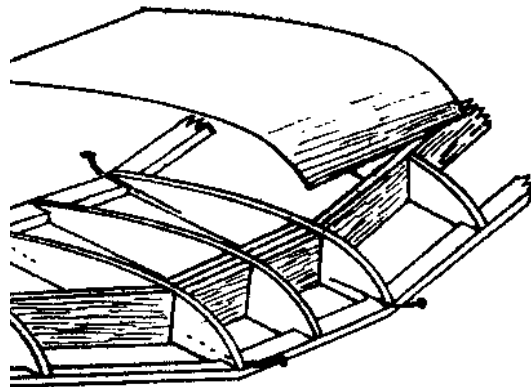
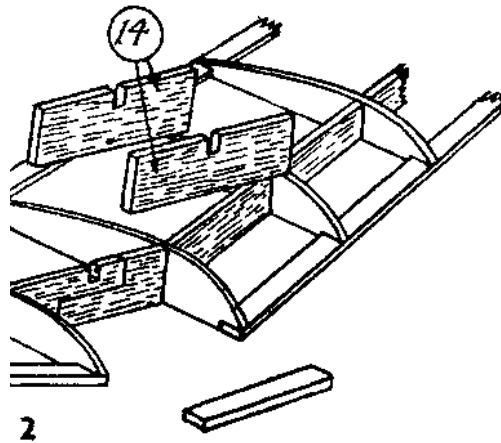
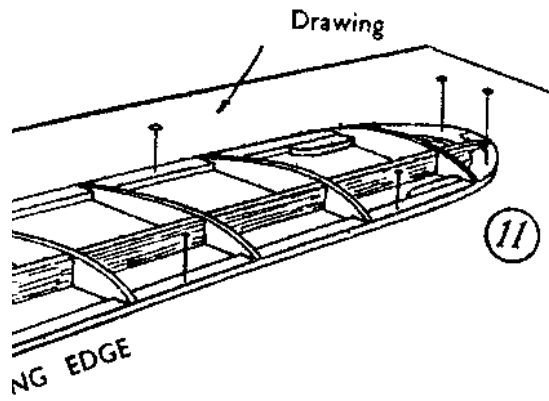


F9



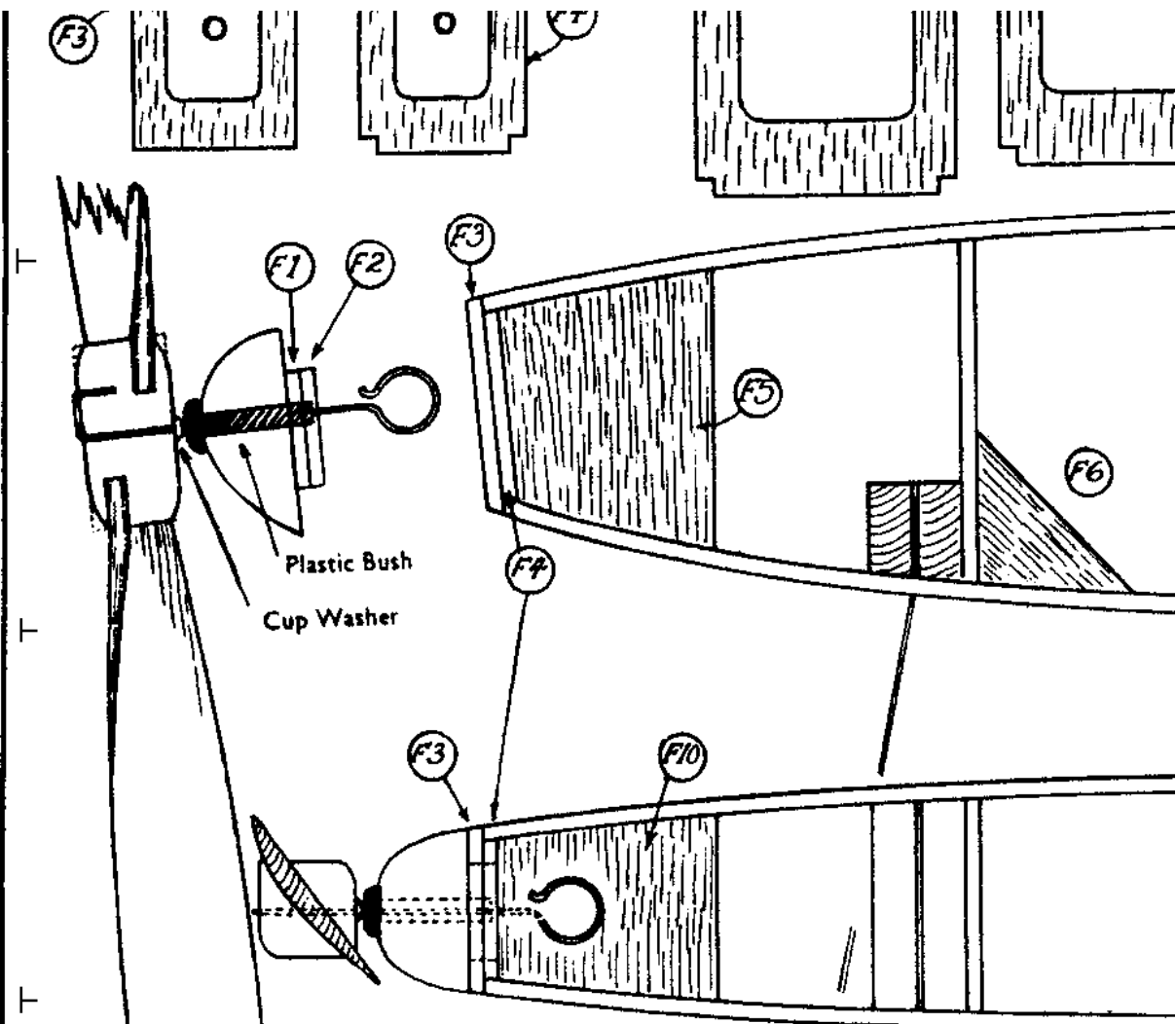
PROPELLER /
securely int
block prov

CAT. No. 639 K.



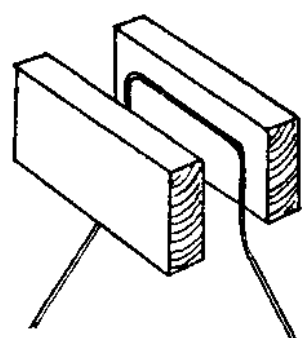
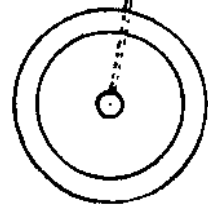
SKETCH No. 3

PELLER ASSEMBLY:—Cement the two blades
surely into the diagonal slots in the balsa hub
lock provided. When set sandpaper the blades
to a convex surface on the sides facing

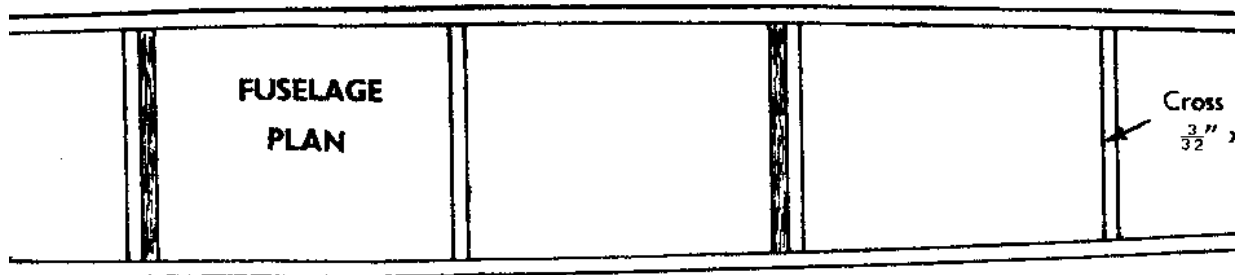
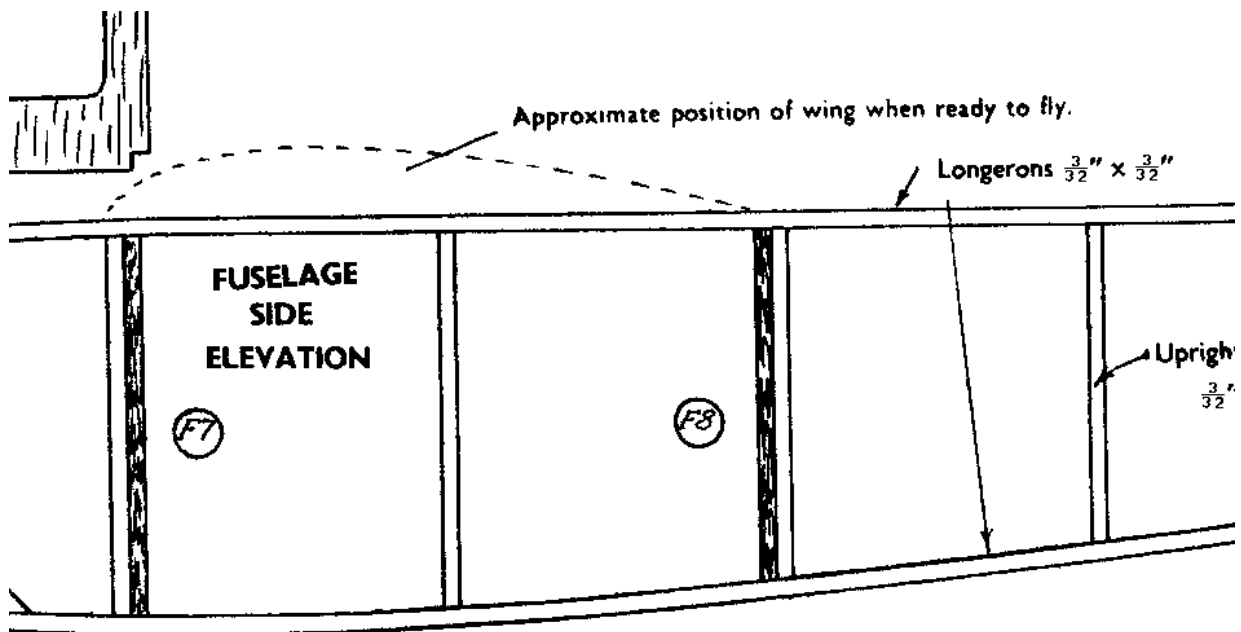


NOSE PIECE ASSEMBLY. Round off the shown and to the flat back surface add F.1 from F.3 and F.4). Cement the plastic bush through the propeller shaft from rear end. Bend the shaft over into a U shape, push it back into the hub and secure with cement.

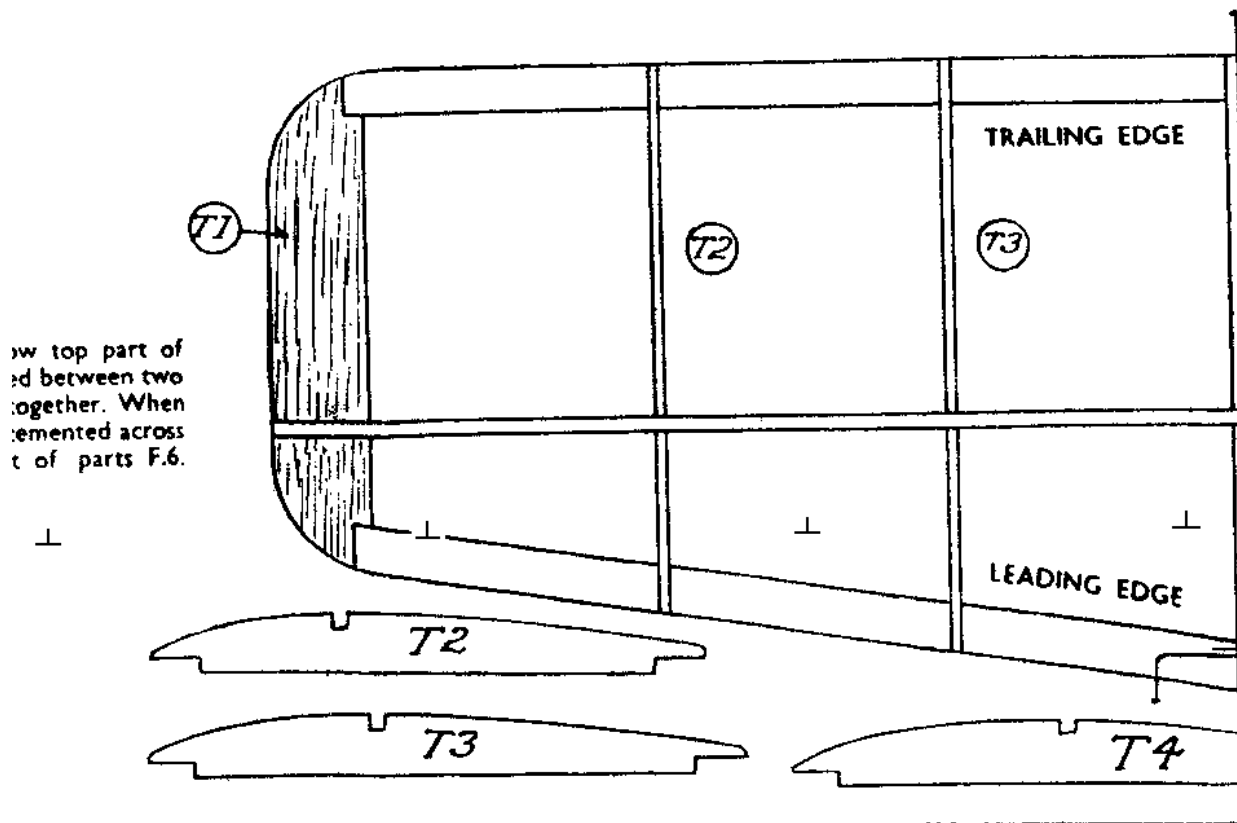
block provided as and F.2 (the centres in place and thread slide on one cup

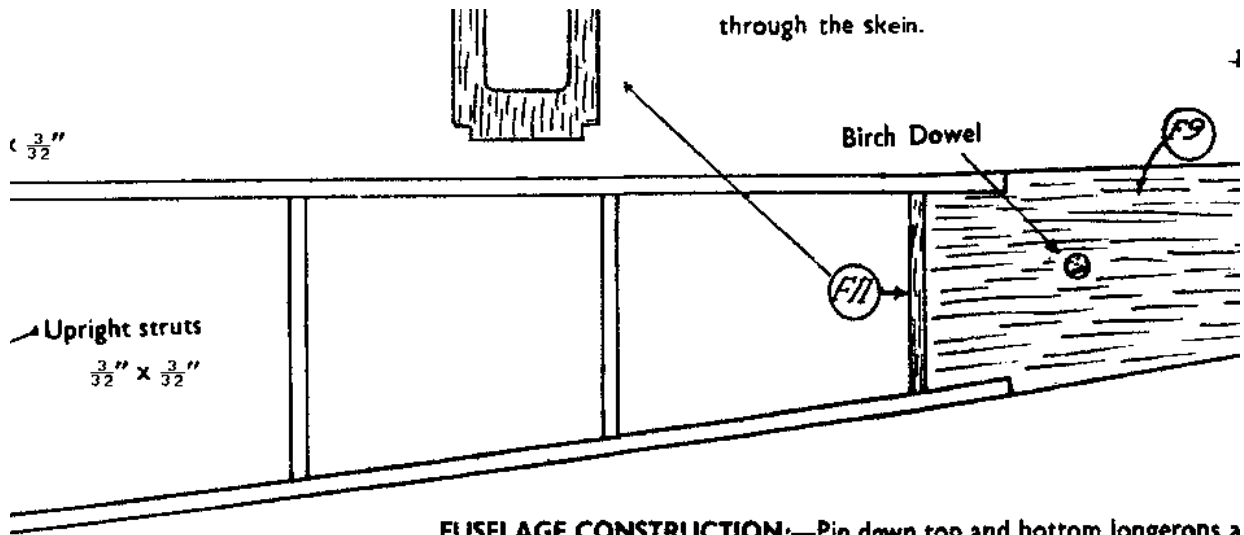


SKETCH No. 7 showing how top undercarriage legs is sandwiched betw blocks of $\frac{1}{2}$ " x $\frac{1}{4}$ " cemented together the fuselage is finished this is cement the lower longerons in front of p

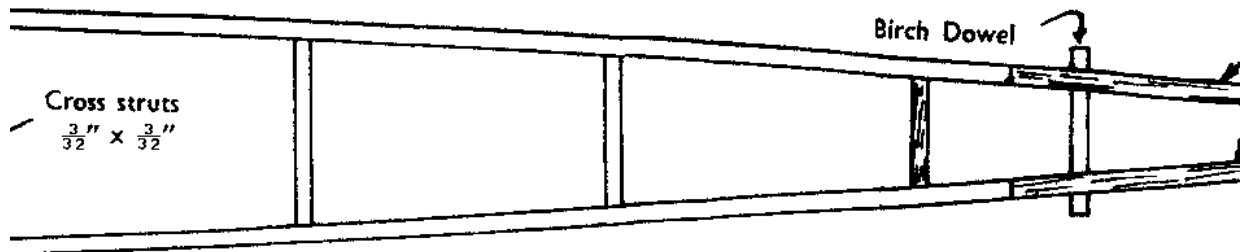


TAILPLANE CONSTRUCTION:—Pin down the leading edges of $\frac{1}{4}'' \times \frac{3}{32}''$ strip and t that the latter is double. Now add the main spar of $\frac{3}{32}'' \times \frac{3}{32}''$ strip, pulling it dow edge push one pin as a securing hook. To the leading edge cement two pins as show rubber band round the fuselage from these front two, and a band between the singl

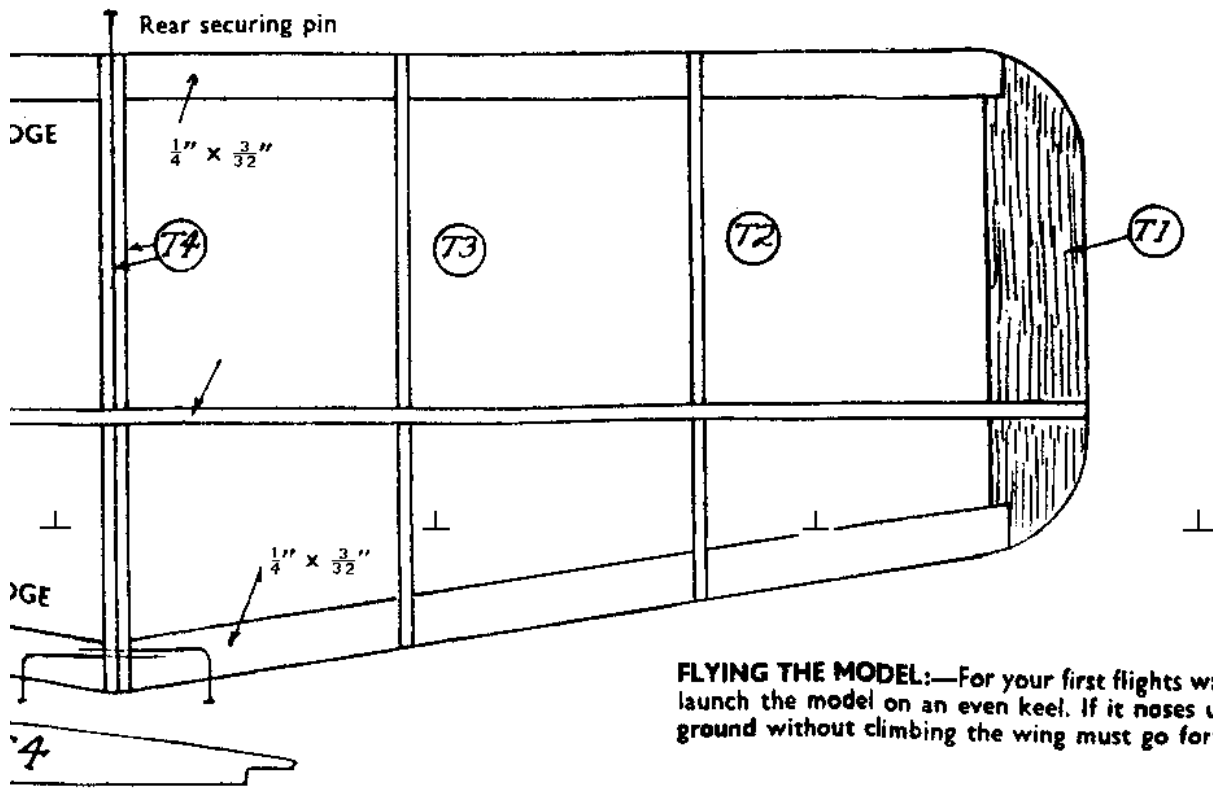




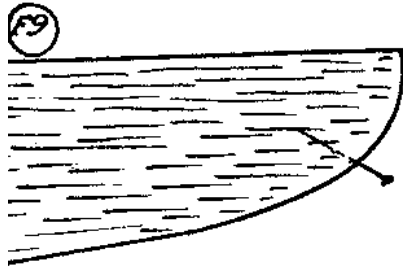
FUSELAGE CONSTRUCTION:—Pin down top and bottom longerons in place. Also F.5, F.6 and F.9. This completes one fuselage side which these two sides together with bulkheads F.7 and F.8, cementing the sides in equally at the rear and join the two F.9's together. Add F.11, composite bulkhead F.3 and F.4. Hold with small rubber band until and cement in place as in Sketch No. 6.



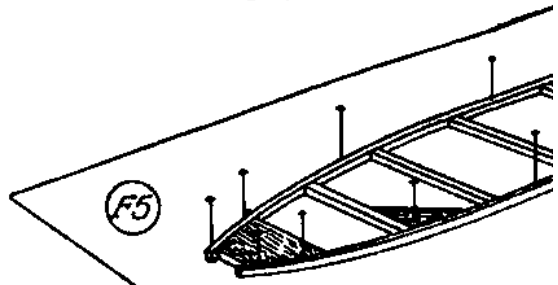
rip and to the ends cement in place the tips T.1. Now add the ribs T.2, T.3 and T.4, noting it down at each end and cementing to T.1. Remove when set and into the centre of trailing as shown, each one being bent round into the centre double rib. The tail unit is secured by a the single one at the rear and the one in the fuselage.



FLYING THE MODEL:—For your first flights wait launch the model on an even keel. If it noses up ground without climbing the wing must go forward.

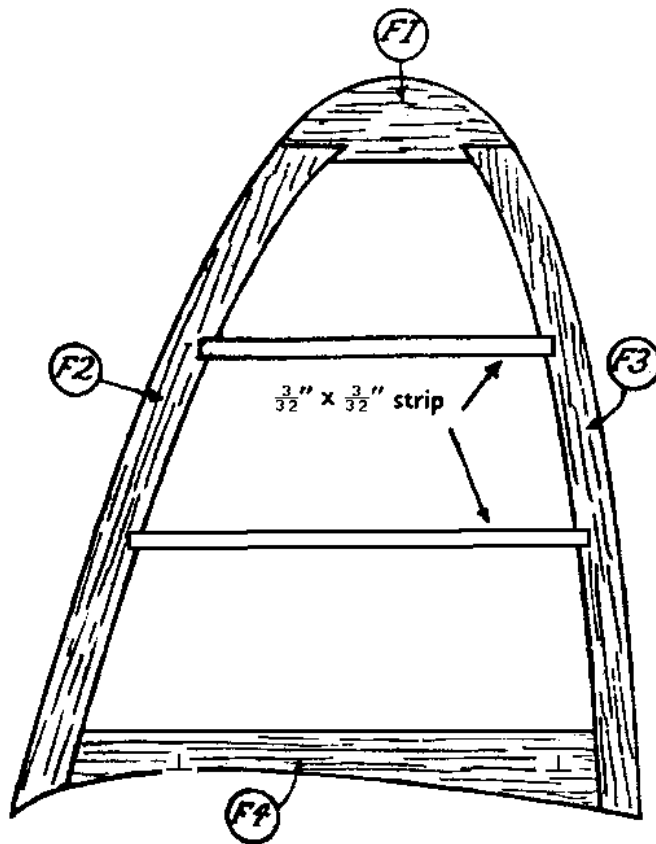
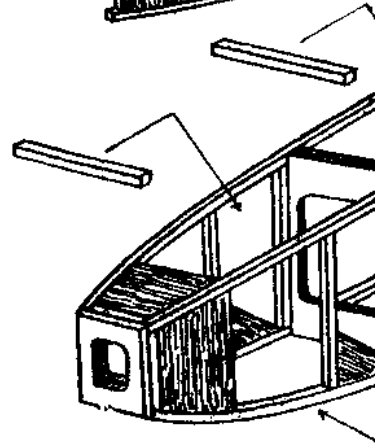
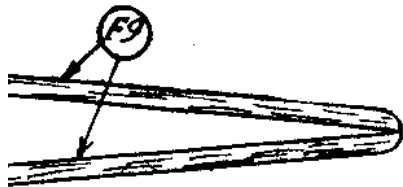
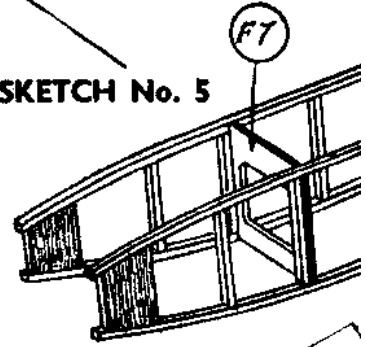


Rear Securing Pin
for tail unit



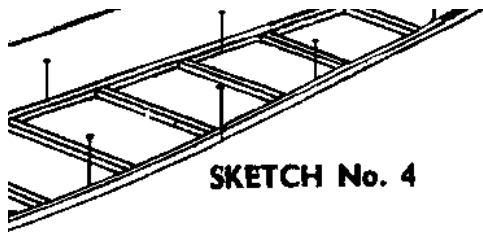
rons as in Sketch No. 4. Cut all the upright struts to length and cement which is removed when dry. Make another in exactly the same way, joining them to appropriate upright struts as in Sketch No. 5. Now pull the d F.11. Pull the sides inwards equally at the nose and cement to the l until set. Add F.10 top and bottom. Finally cut all cross struts to length

SKETCH No. 5



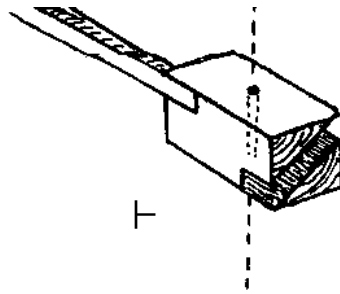
THE FIN is easily co the parts F.1, F.2, F.3, strip. Remove when s dope as directed at to built, covered and do to the two centre rib is upright.

ts wait for a calm day. Place the wing in the approximate position shown, give the propeller about 50 turns : ses up and stalls the wing must be pushed back a bit until level flight is obtained. If it goes straight to : forward. Once trimmed, the turns can be increased gradually up to 600.

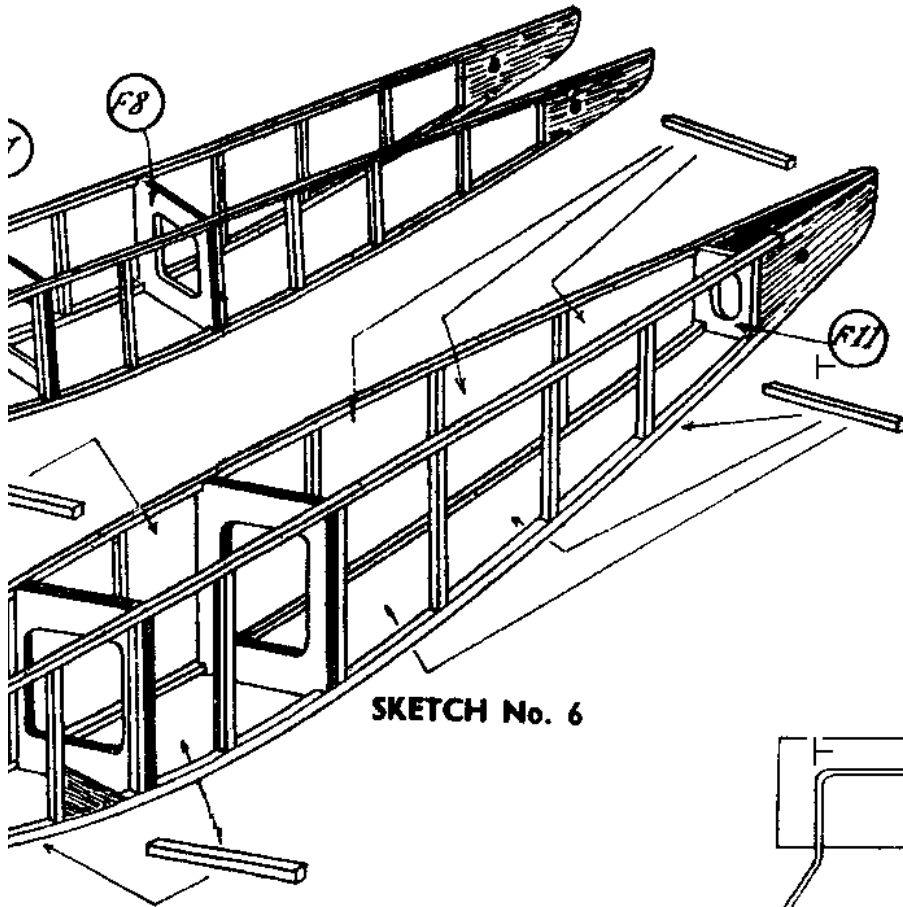


SKETCH No. 4

F9



PROPELLER
securely in
block prior
to



SKETCH No. 6

...asily constructed by pinning down and cementing all
F.2, F.3, F.4 followed by the cross pieces of $\frac{3}{32}$ " x $\frac{3}{32}$ "
: when set, sandpaper edges round and cover and
ted at top of drawing. When tailplane has been
and doped, this fin is cemented permanently
entre ribs on the tailplane, making sure it

Both legs are in one
length of wire, bent to
shape as shown here in
this frontal view. Fit the
wheels in place before bending
up the ends of the wheel axles.
See Sketch No. 7 for further
instructions.

DESIGNED AND PRODUCED IN ENGLAND BY

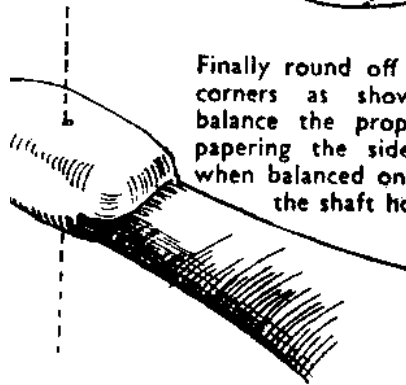
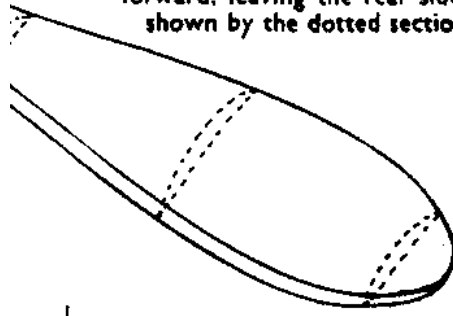
INTERNATIONAL MODEL AIRCRAFT
LTD.

LONDON — ENGLAND.

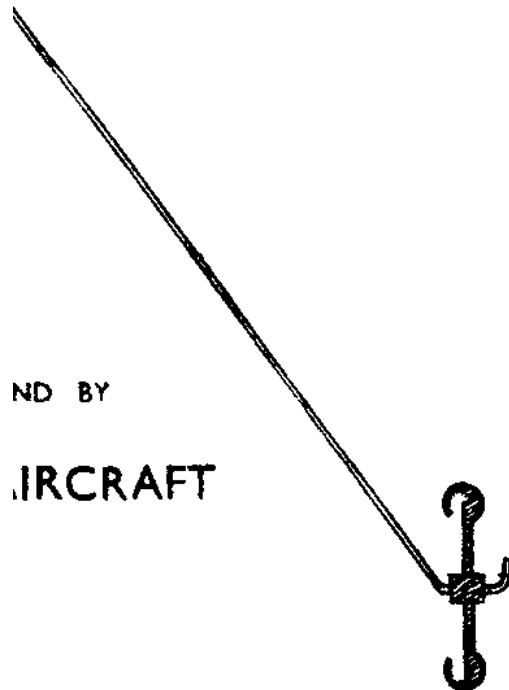
3 turns and
right to the



PROPELLER ASSEMBLY:—Cement the two blades securely into the diagonal slots in the balsa hub block provided. When set sandpaper the blades to a convex surface on the sides facing forward, leaving the rear side flat as shown by the dotted sectional line.



Finally round off all edges and corners as shown here, and balance the propeller by sandpapering the side which drops when balanced on a pin through the shaft hole



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