

387
SEPTEMBER, 1953

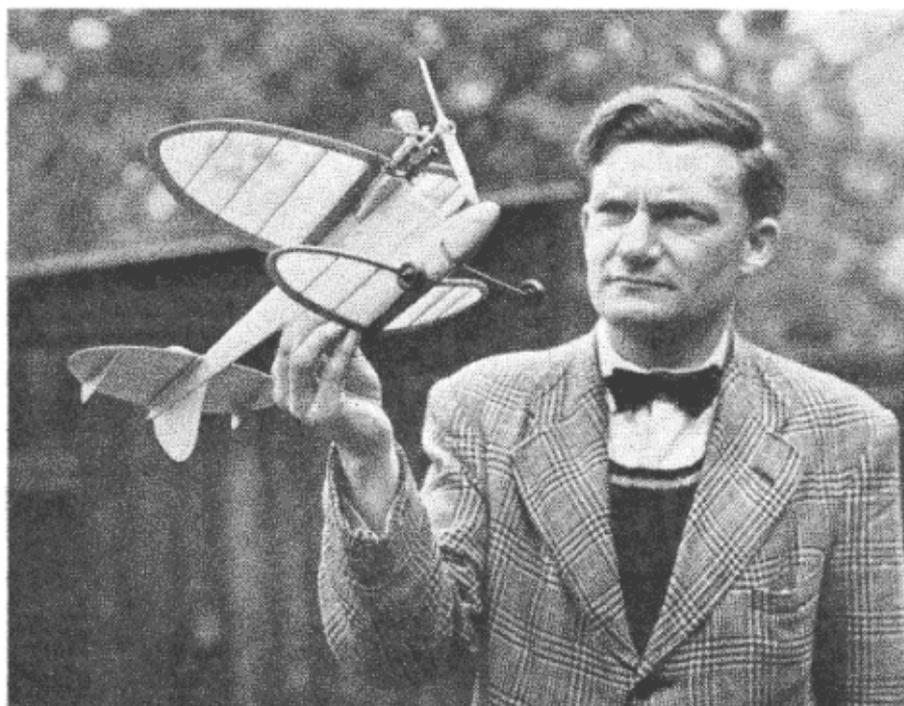
AERO MODELLER



EXTRA

WORLD CHAMPIONSHIPS SUPPLEMENT

1'6



FULL - SIZE



MIMI

How small can a power little biplane be by Ray Frog 50 or E.D. 46, and length, simple to Full details on the

HERE is one of the smallest, most convenient to transport F/F power jobs yet designed, and moreover, a model that knows all about the business of getting upstairs in double quick time. Flying fun is a "built-in" feature of this little bundle of aeronautical mischief. So simple to construct that modellers with a little experience will get all the gen from the plan. Building hints that follow are really for the beginner, but read them just the same, then you'll see how easy MIMI is to build.

Here's the building list:

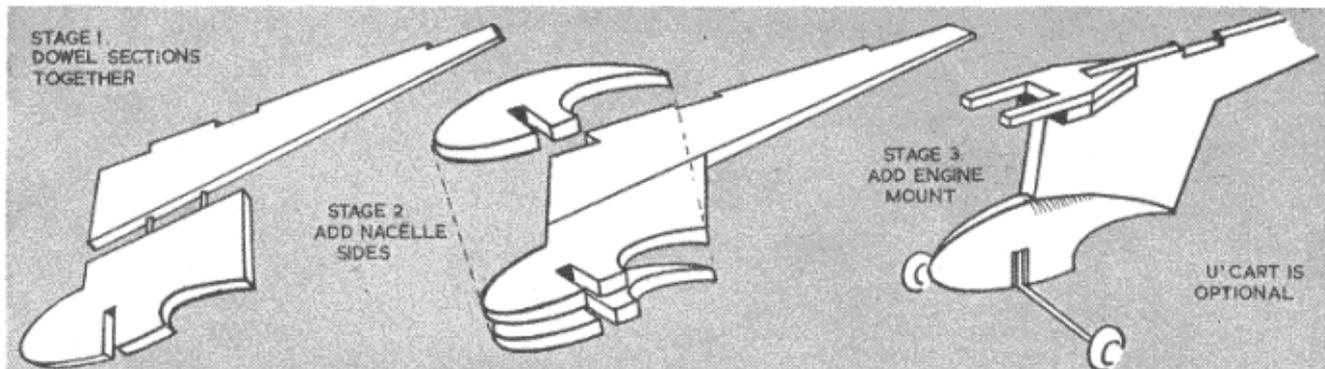
$\frac{1}{4}$ x $1\frac{1}{2}$ x $3\frac{1}{2}$ ins. hardwood (engine bearers), 1 sheet 3 x 36 ins. $\frac{1}{4}$ in. balsa, 1 sheet 3 x 6 ins. $\frac{1}{4}$ in. balsa, 1 sheet 3 x 18 ins. $\frac{1}{4}$ in. balsa, 1 sheet 3 x 36 ins. 1/16 in. balsa, 1 sheet lightweight Modelspan, 12 ins. 16 S.W.G. wire, 6 ins. 1/16 in. dowel (or matchstick pegs), small piece 1/16 in. ply, small piece 1/32 in. sheet balsa.

Trace the fuselage parts onto $\frac{1}{4}$ sheet and cut out. If you have some 6 in. wide quarter stock, the fuselage can be cut in one piece. To the basic fuselage shape, add the two nacelle side pieces

and ply liners in the U/c slot. Cement in position the top wing rear mounting and the angled tail-plane platform. Add dowels and small rear peg. Before sanding the fuselage, add the engine mounting, drilled ready for your engine. Make sure it is level from side and front views. Add blocks A. Carefully sandpaper all over to the correct sections, checking that you have the necessary clearance in the nose for a 6 in. x 4 in. propeller. Cement the lower fin in place and the fuselage is complete except for dope and fuel proofing.

Now don't fade away at the prospect of having two wings to build, these are really easy to construct. Trace the L.E.'s onto $\frac{1}{4}$ sheet and the T.E. of the top wing onto 3/16 in. sheet. Cut out, taking care that the notches for root ribs are at a slight angle. Add ribs, using the template for setting root ribs at the correct angle. When dry, raise the top wing tips by $1\frac{1}{2}$ in. and cement the centre ribs together. Sheet over the centre section with 1/32

FUSELAGE STAGES

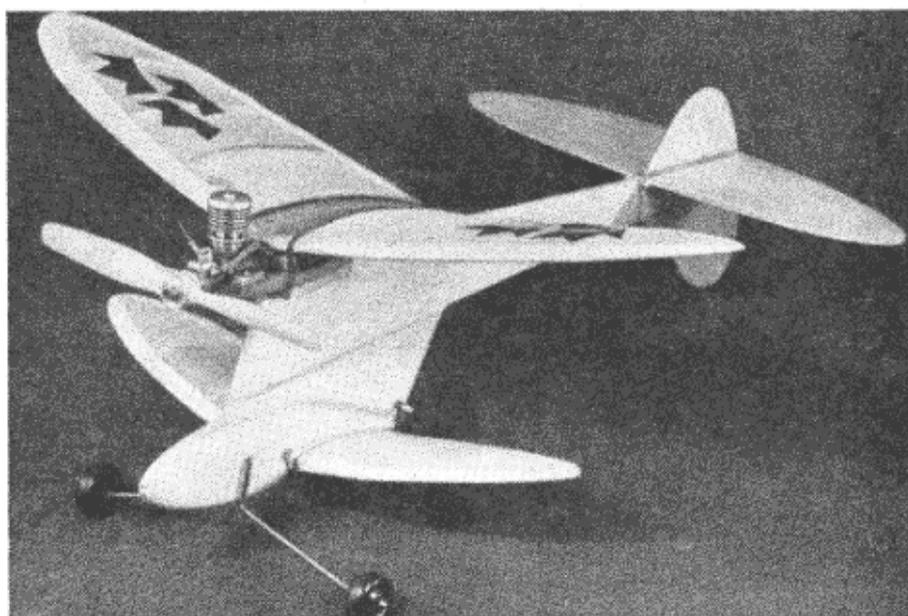


PLAN OF THE MONTH

MIMI



model be? This pert Malmstrom, for the is only 16 inches span build, and easy to fly. next four pages.



sheet. Cover with lightweight Modelspan. The lower wing is built in the same way (with L.E. of $\frac{1}{4}$ sheet and T.E. of $\frac{1}{8}$ sheet), with the exception that $\frac{3}{8}$ in. wide centre section is flat and there is 1 in. dihedral from root ribs to the tips, see sketch.

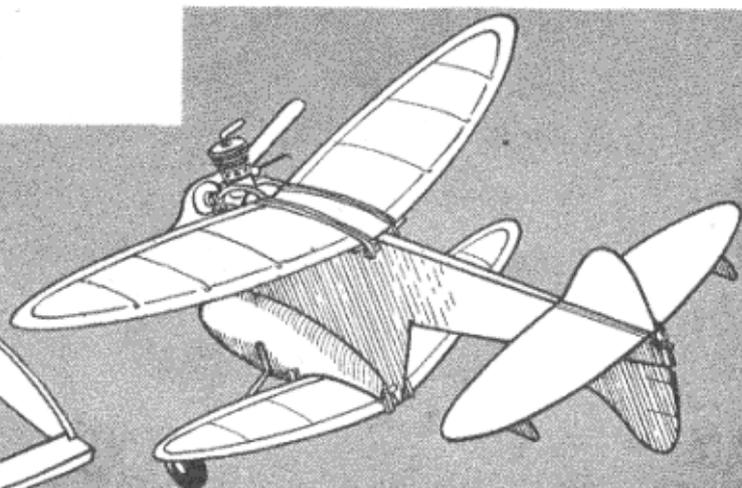
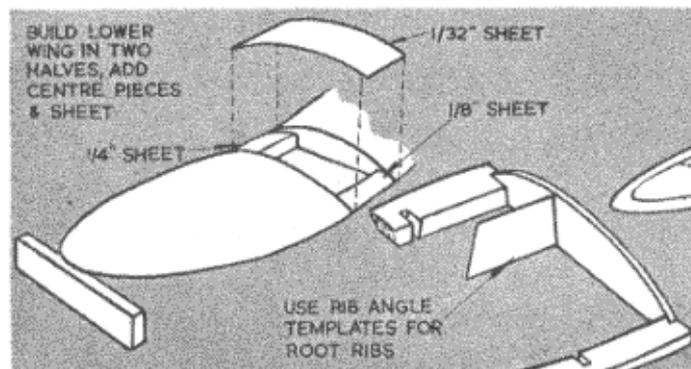
No model is really complete without an undercart, but relax, because if an undercart is an abomination to you, you need not have one. Mimi isn't a bit particular. It is certainly not indiscreet to say she makes excellent landings on her belly! If (being a stickler for decency!) you fit an undercarriage as shown on the plan, please see it is a *tight* fit into the U/c slot.

Cut the tail assembly from 1/16 sheet, and cement on the top portion of the fin, and the two small tip fins. Give the sheet parts of the model two coats of dope, sanding lightly between coats, and the wings one coat of thin dope. Finally go over the whole model with a coat of your favourite brand of fuel-proofer.

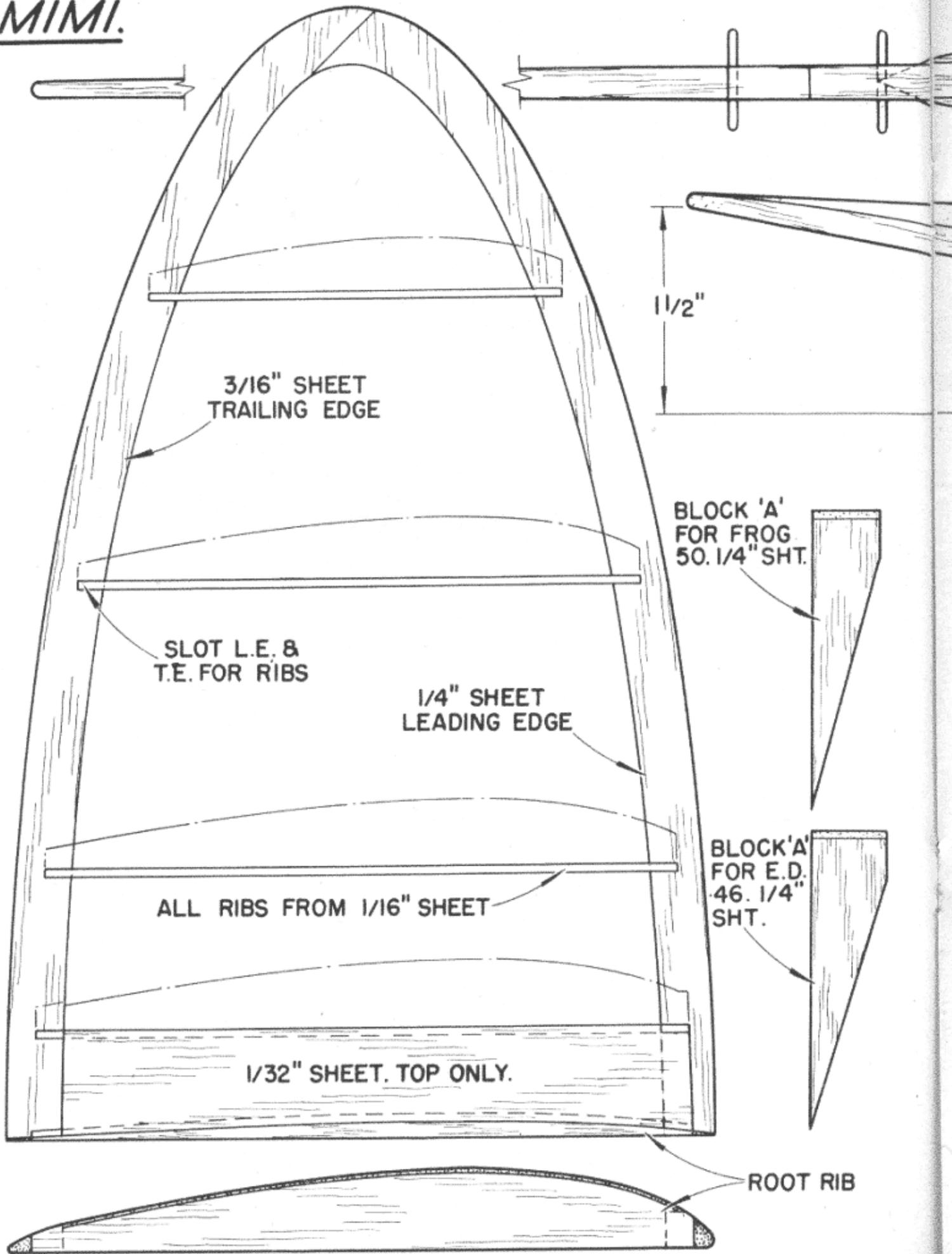
Check Mimi's balance, test glide over long grass, always launching with the nose pointed slightly downwards. Don't hurl the model, but launch smartly, as Mimi has a pretty fast glide. By means of packing (about 1/16-3/32) under the trailing edge of the tail, get the glide as shallow as possible, avoiding any tendency to stall, and see that the glide path is straight. A slight turn to the left is all right, but, and here quite seriously is a word of warning, avoid a turn to the right. Give the engine 1/32 packing for downthrust and throttle it down as much as possible, or fit the prop on back to front for the first test flights.

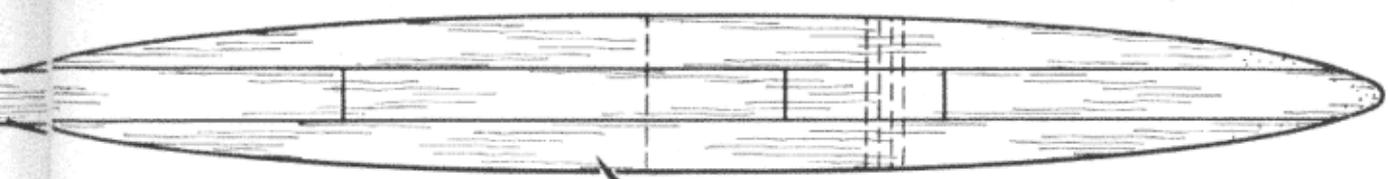
Good flying to you, and don't forget your name and address on your model—this diminutive job flies an awful long way on half a tank of juice, and I'm still looking for the original Mimi!!

WING DETAIL

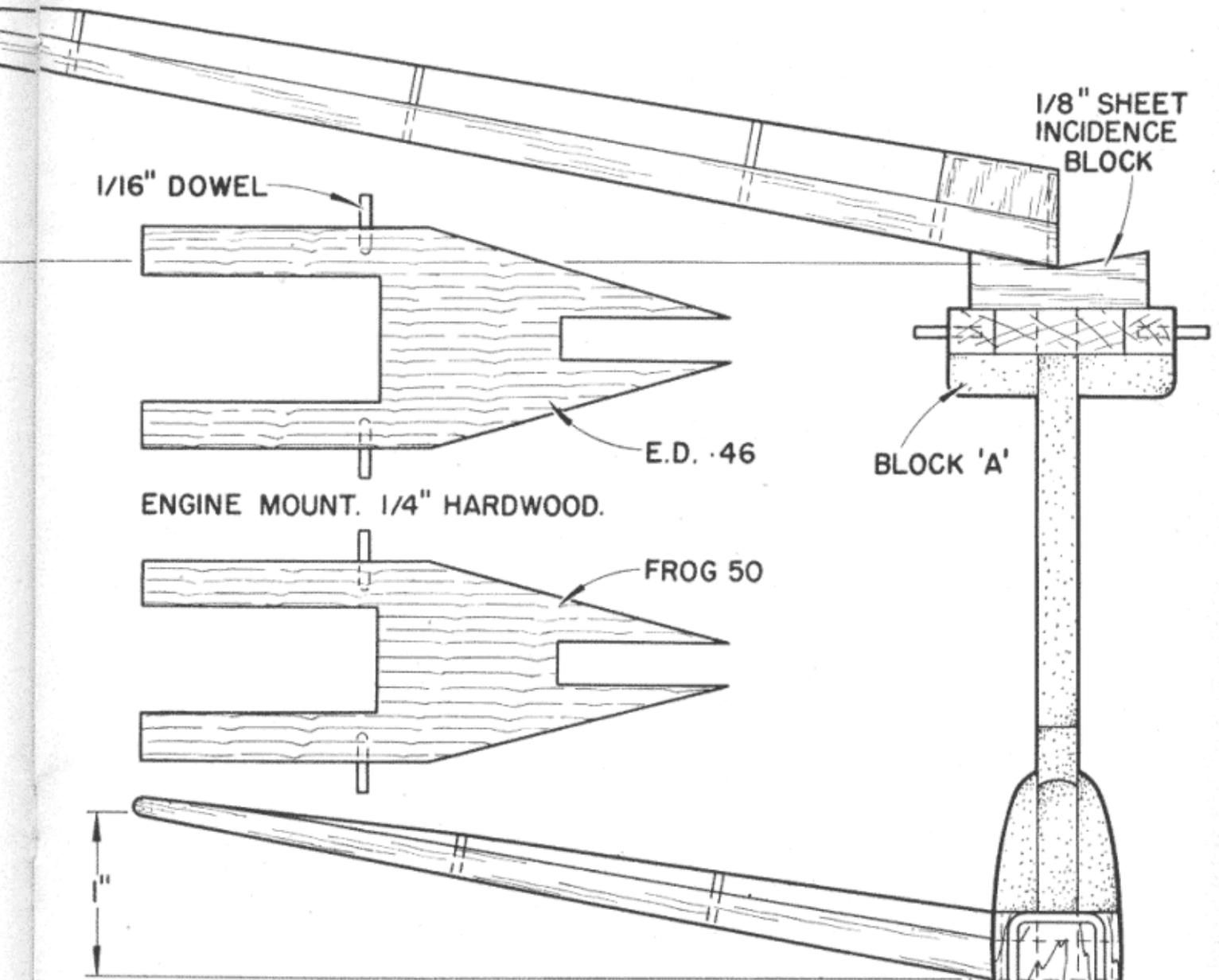


MIMI.





FUSELAGE PLAN VIEW



1/16" DOWEL

1/8" SHEET
INCIDENCE
BLOCK

E.D. .46

BLOCK 'A'

ENGINE MOUNT. 1/4" HARDWOOD.

FROG 50

1"
1"

SOLDER SMALL WASHERS

1" DIA. CELLULOID OR
HARDWOOD WHEELS

16 S.W.G. U'CART OPTIONAL.
MODEL MAY BE FLOWN
WITH OR WITHOUT U'CART.

MIMI.

E.D. .46 SHOWN.
USE FROG 6 X 4
NYLON PROP.

