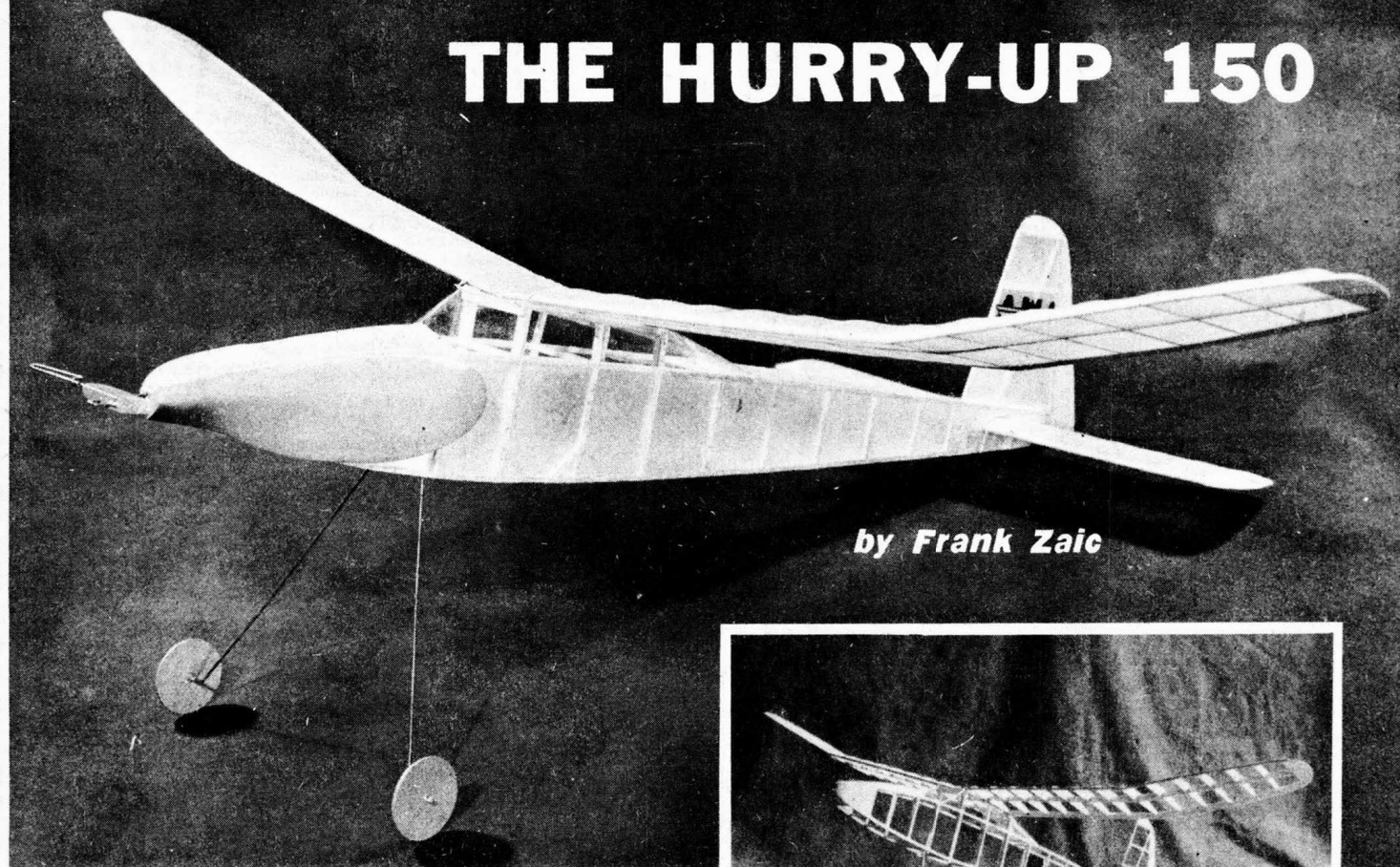
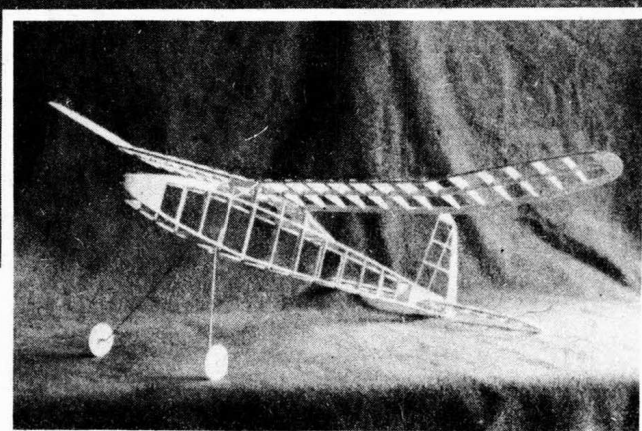


# THE HURRY-UP 150

*by Frank Zaic*



Here's a beautiful rubber-powered flyer that anyone can build—designed by an old master of the art. All of the plans are full-size!



● The Hurry-Up 150 is a contest design, cabin-type rubber model. Neat and pleasing to the eye, performance is increased, weight reduced, and building time shortened, by simplified, efficient construction. Incorporated in this model is a fuse-type pop-up-wing dethermalizer, as well as an aerodynamical feature which makes flying and adjusting easy for the beginner.

The basic framework of the fuselage is shown on the plans in black. Lack of space prevented our giving you a complete top view, but you can obtain the sizes of the cross braces from the dot and dash outline shown on the side view. Join the two sides of the fuselage by starting at the center, and working outward toward the nose and tail. At the tail, taper the longerons as shown, to meet the 1/16" sheet rudder fin. Both sides must be even when making the stabilizer rest, in order that the wing and tail will align correctly.

Although the cabin construction is easy, you'd better study it

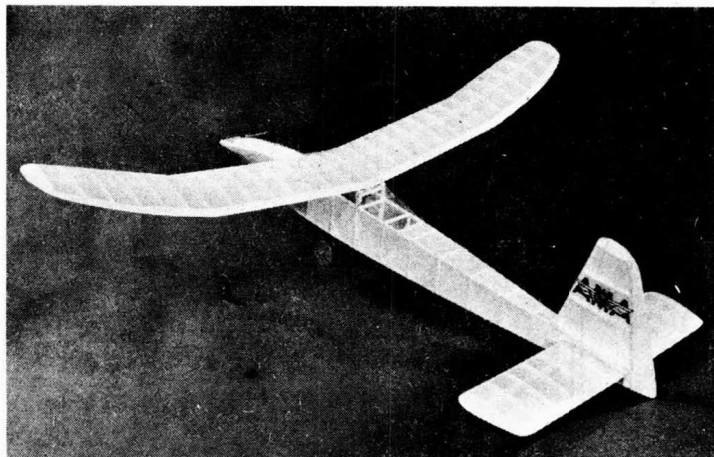
awhile. Note the use of double up-rights to obtain strength. Also notice that some of the cross braces will not be in line with the up-rights as is customary. See how dihedral angle clearance is obtained in the front by using tapered pieces and, in the rear, by employing a lowered cross brace.

The front portion of the fuselage is reinforced with 1/8" sheet balsa to counteract handling and abuse. Wind thread all around and cover it with cement to prevent the longerons from splitting open under impact.

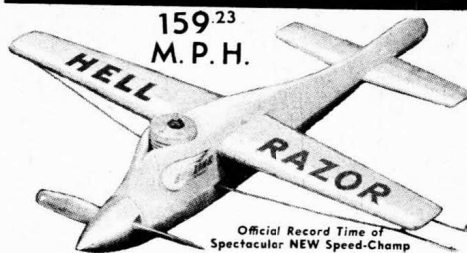
The landing gear installation is simplified by "boxing" or sandwiching the wire in place and using a lot of cement. You also can tie the wire to the longerons with thread. The

rubber anchorage at the rear of the fuselage is self-explanatory. If you cannot find a fiber washer, use plywood, stiff paper or a sheet of hard balsa, but, whatever you use, the dowel should fit snugly. Lots of cement around this area adds greatly to the strength.

Leave the bottom of the fuselage open under the anchorage, to facilitate a quick rubber change. The "ridge" and "instrument board" (former A), are shown full-size on the plans. Cut them from



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## HURRY-UP 150

balsa as indicated and cement in place.

Build the rudder methodically or you may have trouble. It is one of those "building-in-the-air" deals, necessitated by the symmetrical section. Make the ribs according to the template. After making No. 1, trim the template to No. 2, and so on. In assembling the rudder, cement the rear 1/8" x 1/8" square balsa strip to the end of the fuselage. Be sure it is vertical and that the cement has set before you go on.

Cement rib No. 1 to the top of the fuselage. This will position the other two spars. Cement rib No. 4 to the rear strip, and hold it in position with pins until the cement dries. Next, fit and cement the leading edge to ribs No. 1 and No. 4. Check the line-up between the front and rear. Slide ribs No. 2 and No. 3 on the center spar and fit the assembly between the front and rear spars. Slide the ribs up or down until contact is obtained and the ribs are level.

After the rudder has steadied, reinforce the two front spars with cross pieces as shown. Add more cross pieces until you are satisfied that the construction is strong enough. Fill in with 1/32" or 1/16" scrap sheet around rib No. 1, flush with the fuselage longerons. The fuselage covering will terminate around the rudder at this point.

Finish by adding the tip and 1/16" sheet outline. When covering the rudder, be sure to include the sheet portion. Cut out the tab after covering and scrape off the paper where the copper wire hinges are cemented.

The wing construction is normal. A metal or stiff paper template for the main rib will insure uniformity. Tip ribs are made in the same manner as on the rudder. By glancing at the sketch you will note how the center section is reinforced. By having 1/8" x 1/8" square strips at the high spots, the paper covering will not be torn as easily.

The tip sections are easy enough, if you follow the sketches closely. After

the cement has set well, remove from the plans and trim the trailing edge to its proper outline. Note how the balsa sheet tip is made. Trim and sandpaper it smooth, before joining the sections together. While dihedralling, make sure that all panels are true. Be extra careful in making joints and be sure to have corner blocks as shown.

The stabilizer needs no explanation. Note the use of 1/8" x 1/8" square strips on the center, for protection from the hold-down rubber band.

In covering the model, have the paper grain run spanwise, to avoid sag. Cover the tip of the wing in two sections: first, the portion that is not tapered, and then the tapered part. The original model had a yellow wing and tail, and a red fuselage and rudder. Use light silkspan covering for the lifting surfaces and regular gas-type tissue for the fuselage.

When covering the fuselage, start at rib No. 1 at the rudder and fuselage junction. You will have to cut the covering material to fit around this rib, before cementing it to the sheet fill-in added previously.

Use a half cement and half dope mix to obtain good "fix" and time enough to shift the paper to the correct spot. After the paper has been cemented smoothly around rib No. 1, dope the covering over the rest of the fuselage top. The rest of the fuselage, wing and tail assembly is covered in a conventional manner.

Water-spray to tighten the paper. While surfaces are drying, be sure to check them for warps. If there are some, untwist them and hold the surface over a hot air supply until the paper has dried. You will have to do this every time you apply a coat of dope. Two coats are sufficient for this ship. A few drops of castor oil in the dope will act as a good plasticizer.

The cabin celluloid is cemented in position after the fuselage is covered and doped. You can make paper patterns for the front and rear by folding paper over the spots and having someone draw pencil lines where the paper overlaps the longerons and uprights. You will find that there are no forced

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Folding prop hinges; rubber tensioner; ball bearing washer; short length of rubber tubing; screw; .045" wire for fittings; large-faced bushing; 25 feet 1/4" flat brown rubber; lubricant; celluloid; cement; dope; tissue for covering.

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