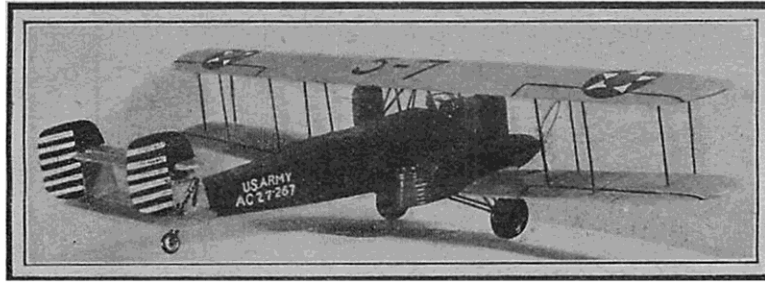


See Plans  
on  
Pages 14 to 19



By  
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## HOW TO BUILD A Solid Scale Model of a Curtiss "Condor"

Excellent Data for Making a Replica  
of the U. S. Army Bomber

**T**HE Pacific Coast only a few months ago was the scene of the most extensive mimic war ever staged by the Air Corps. Pursuit, attack, bombardment, and observation planes were recruited from seven army flying fields. Commanding officers agreed that maneuvers further showed the importance of air forces in defense and attack. The engagements also developed several practical points. One of them was that there should be two types of bombing planes; a light one for day service and a heavier one that could carry bombs weighing up to 4,000 lbs. for night attacks. The Curtiss *Condor* was decided the ideal bomber for night attacks.

The plans drawn here in the magazine are scaled to 20". The *Condor* makes a peach of a model when painted the regular air corps colors.

In making this model the builder can use either white pine or balsa, which can be bought at practically the same price. Be sure to read over the directions before going to work.

You will notice in looking over the plans that the plane itself is slim and has narrow chord wings and fine features. Let us start to make this model beginning with the wings.

### WINGS

The top wing is made in one piece. After attaining the correct wing section, smooth with sandpaper and mark out the ailerons in dark pencil lines. The lower wing is made in four sections. The two large halves have the same airfoil section as on the top wing. The center wings, which extend from the sides of the fuselage to the motors, taper down from the higher point near the fuselage to the same section of the lower

wing near the side motors. Be careful on this point. Finish off the wing like the top wing and mark out the ailerons.

### TAIL SURFACES

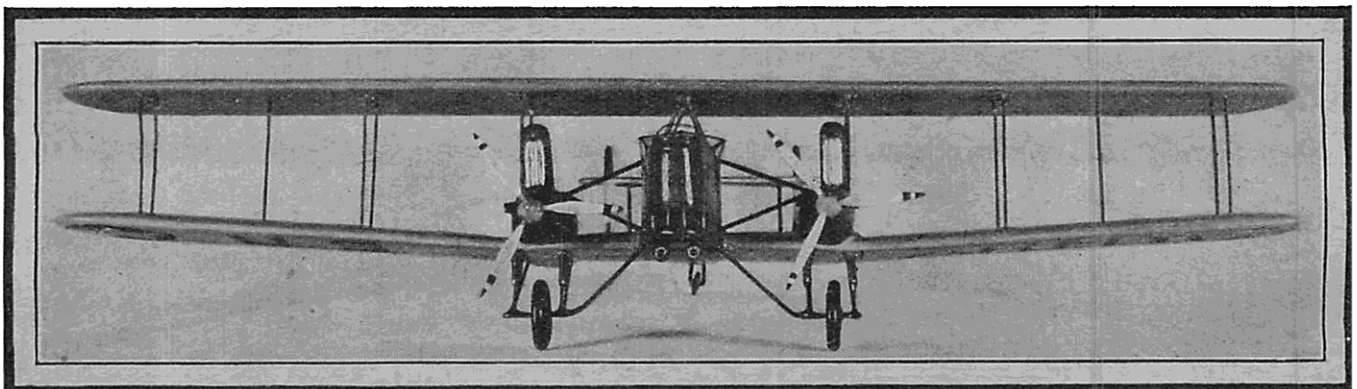
The rudders can be made movable if the builder wishes to do so. Trace out from plans, shape and streamline as shown in the drawing. There are two elevators and two stabilizers. These also can be made movable if desired. Tail surfaces are streamlined carefully, as shown in the plans.

### FUSELAGE

The fuselage is comparatively small and narrow. It is all square-sided and tapers down at the tail point. The cockpit is carefully carved and cleaned out with sandpaper. Place in the little seats as shown in the drawing, a miniature control which can be made from a stick of wood with a washer or wheel glued to the top, as shown in the drawing. The windshield and instrument board are also made from the plans. The gunners' cockpit should be drilled out before the fuselage is cut to shape. The scarf rings shown around the cockpits and on the side motors can be made of heavy wire or can be bought in any five and ten cent store. You will find them just the right size. There are needed six rings in all, two around each cockpit. They are assembled as shown in the drawings.

### SIDE MOTORS

The two motors are made from blocks of wood cut down to the proper dimensions. (Continued on page 51)



# A Scale Model of a Curtiss "Condor"

(Continued from page 13)

Cut to shape and finish off as shown in the drawings. There are twelve exhaust pipes on each side of a motor. These can be imitated with small pins. The cockpits for the gunners are drilled out carefully and rings glued around them as shown in the drawings.

Be careful to note that the radiator on the right engine is off-center to the right; and the left radiator off-center to the left.

The radiators are shaped from small blocks of wood, streamlined and grooved according to the plans.

The two small wings are glued to the fuselage first and given plenty of time to dry. The two side motors are glued on next. After being permanently set, the other two lower halves are attached. Refer to the drawings when doing this. The top wing is glued on next and is held on securely by the cabane struts which are of bamboo sticks. Push the top wing in the sticks to get a firm hold. Now glue it and see that the wing is perfectly level. The radiators are glued in just above the motors. Bamboo sticks cut to the proper length are used for struts. Mark off their proper place and glue securely.

## TAIL ASSEMBLY

The tail group should be assembled next. Rig up the tail assembly as shown in the drawings. Bamboo is used for the elevator struts, glued, and set perfectly straight.

The landing gear is the next step. A pair of 1 1/8" wheels will be needed. Balsa or white pine is used for the shock-absorbers. Bamboo is used for the struts. The wheels are situated directly under the side motors. The tail wheel assembly is made as shown in the drawing. A

small wheel taken from a toy automobile will be just the right size.

## PROPS

The props are made with either two or three blades, as preferred. Shape out two bullet heads or spinners. Drill the amount of holes for the blade and insert. Twist the blade so that the props will turn clockwise, as on the *Conqueror* engine as used on the *Condor*. Now insert a pin through the spinner and make the hole larger, so that the props will spin more easily.

## PAINTING

For your color use lacquer as this is quick drying and gives a very good appearance. You will need medium yellow, olive drab and a small amount of red, white, blue, black and silver. The wings are painted yellow. Give two coats if necessary. The tail, elevator, stabilizer and vertical fins are painted yellow. The fuselage is olive drab; so are the motors, radiators, struts and landing gear.

The grooves in the radiators are painted silver as shown in the drawings, propeller blades are silver and the spinners olive drab. The rudder is marked and painted red and white. There are seven red stripes and six white stripes on this. Blue is painted on the balanced portion of the rudder. The centers of the wheels are olive drab, the tires black. The landing lights made from the plans are painted olive drab with white and black rings in front. The stars can be bought and pasted on or painted. "U. S. ARMY" is painted in black, 1/4" width letters, under the lower wings. This completes the model.