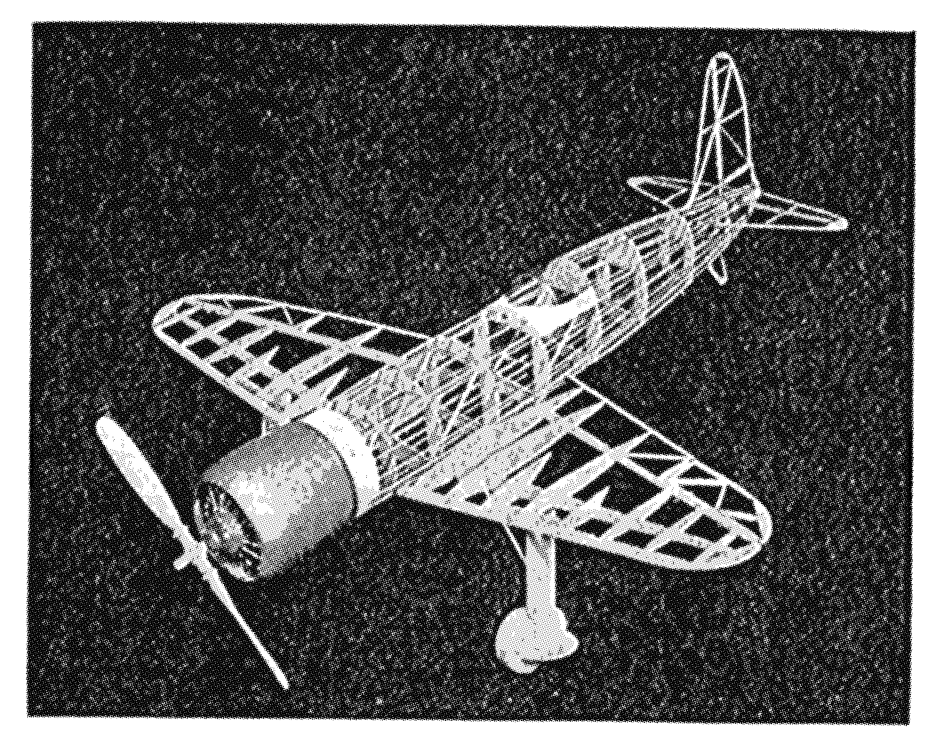


Building the Hughes Rac

by
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POPULAR AVIATION.



Here are the innermost secrets of the Hughes model.

NO DOUBT you are all familiar with this record breaking ship. It has established a world's land speed record.

We are sure you will enjoy every interesting hour constructing the Howard Hughes Rac for its graceful and speedy lines and details, carried out in relation to the large ship, make it a most attractive model.

COLOR SCHEME
Fuselage and tail group—silver.
Wing panels and landing gear struts—dark blue.

CONSTRUCTION OF FUSELAGE
First, place waxed paper on top of plan to prevent parts from sticking to it. The fuselage sides are built from 1/16-inch square balsa. The longerons, verticals, diagonal braces, etc., are held in place until securely cemented by inserting straight pins on either side of strips wherever needed. When the two sides are completed, the crossmembers are cemented into their proper locations. Check carefully front to rear for alignment.

Cut the formers from 1/32-inch sheet balsa and cement in their respective positions as shown on the plan. The positions of all stringers are clearly shown on the formers. See plan. Work

stringers from front to rear and check carefully to see that they have the correct spacing.

CONSTRUCTION OF MOTOR
To form cylinders, wind heavy thread around balsa blocks which have been cut and sanded to shape. The crankcase is made from two separate blocks. Rocker-arm, housings and pushrods are

also made of balsa. Details of these parts are clearly shown on plan.

CONSTRUCTION OF WINGS
Cut all ribs from 1/32-inch balsa. Pin the spar in position on the plan. Now, cement ribs in their proper locations. The leading and trailing edges are cut and sanded to shape and cemented to the ribs. The panels carry movable ailerons which are a great help in controlling the flights.

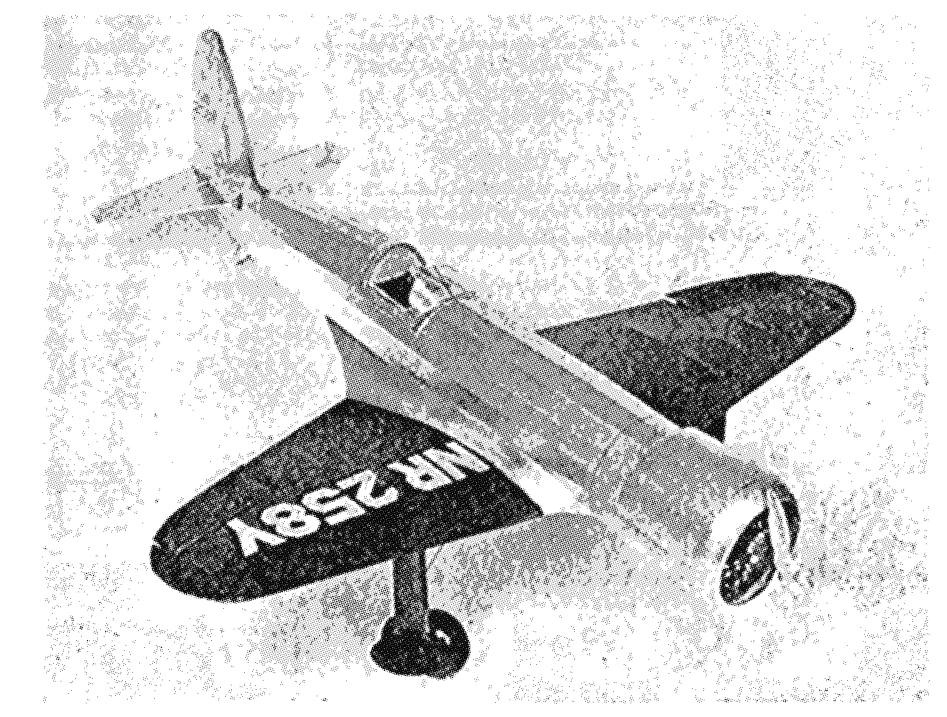
Make wing tips from 1/16-inch thick balsa. We highly approve of this type of wing tip, because it is much easier to construct and neater in appearance.

ELEVATOR AND RUDDER
These are built from 1/16-inch square and flat balsa, and are constructed on the plan. Their construction is very simple, therefore, no difficulty should be encountered here.

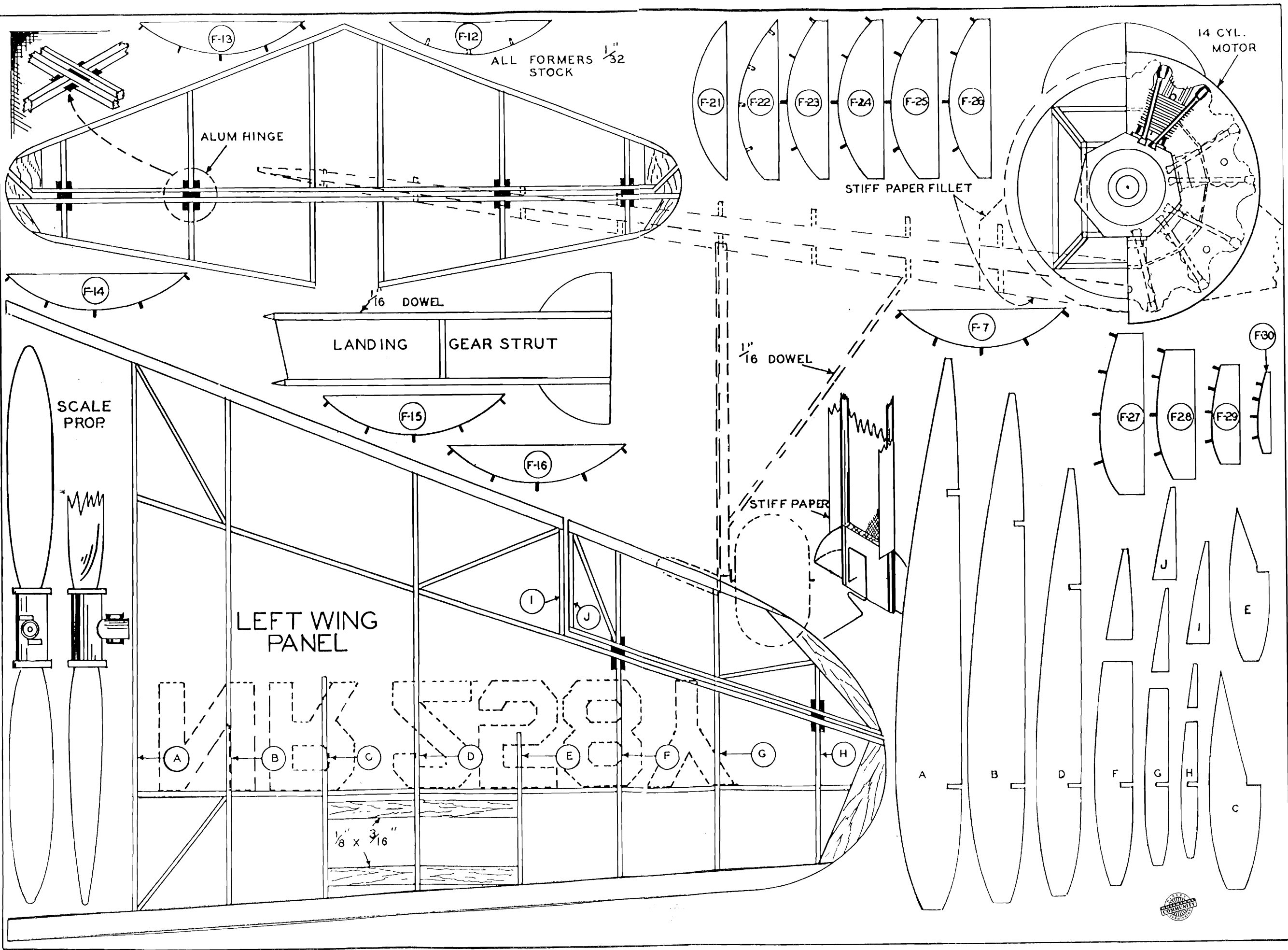
CONSTRUCTION OF LANDING GEAR
These are made from stiff and 1/16-inch dowel. To receive axle, landing gears are reinforced at the bottom with pieces of balsa. See plan.

COVERING THE MODEL
Apply tissue to the various framework members, using a light grade of model airplane dope to fasten it to the outer edges. Stretch tissue as tightly as possible to remove all wrinkles. When edges have dried, apply coat of water to tissue. When all water has dried completely, tissue will become taut. May we suggest that you pin wings, elevator and such upon a flat surface to keep from warping.

After drying, the model is ready for assembling, a short job, but one requiring care.



Compare this model with the front cover drawing.



"HOWARD" HUGHES RACER

