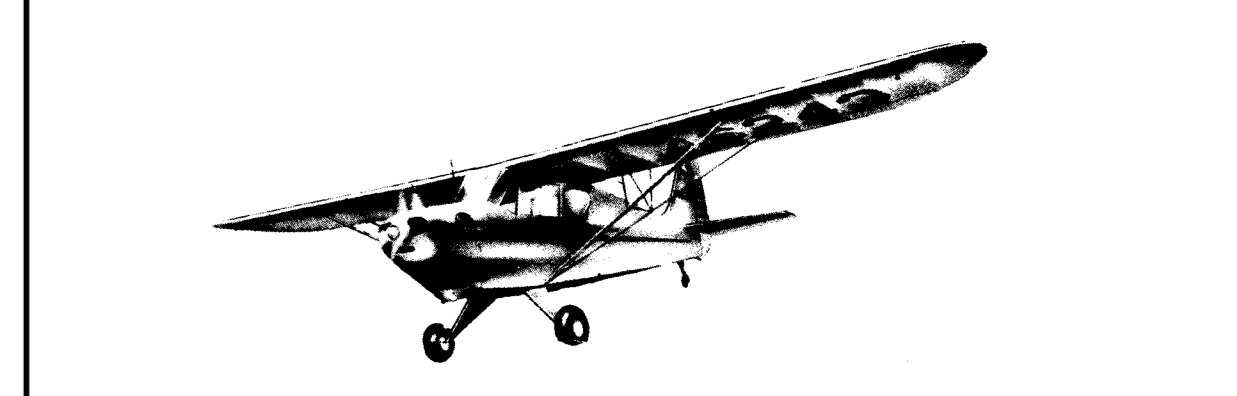
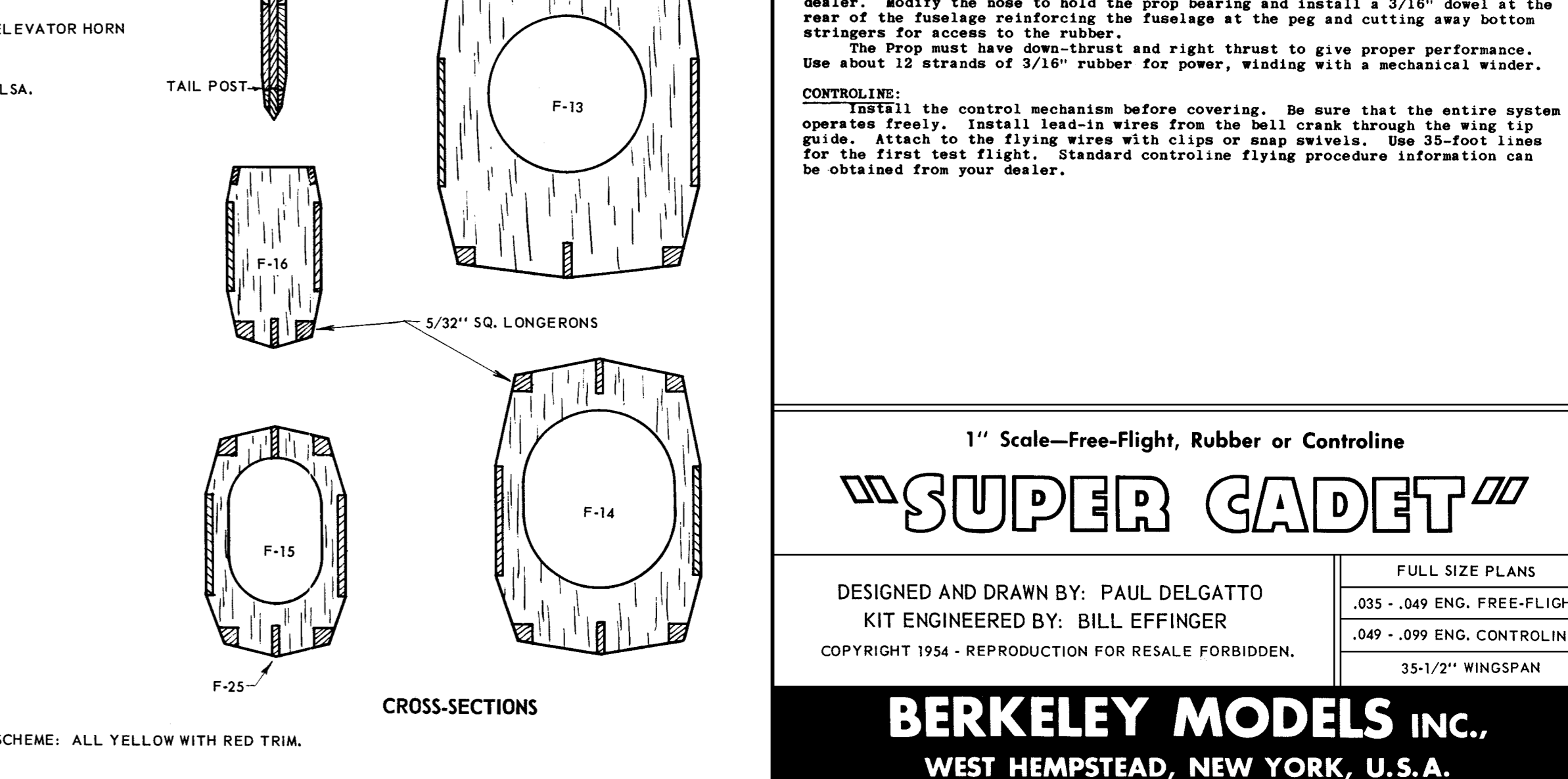
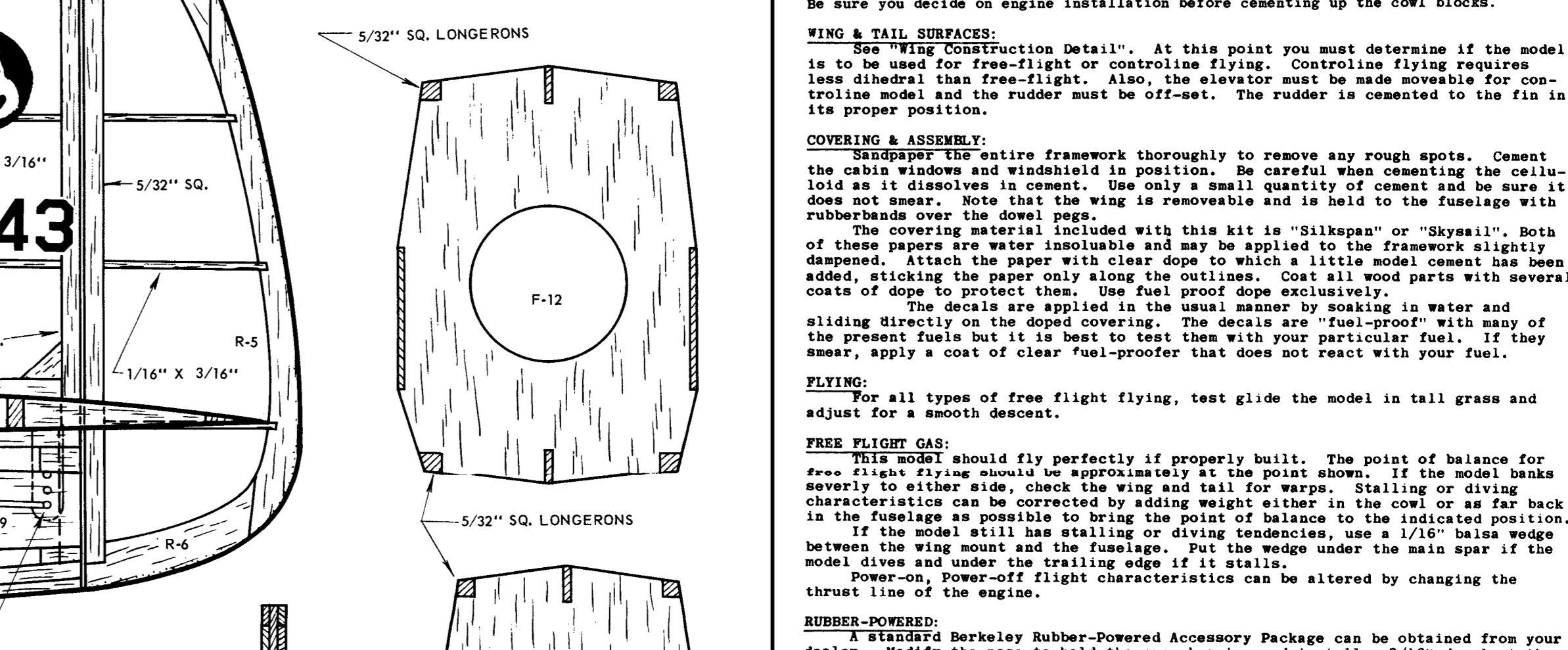
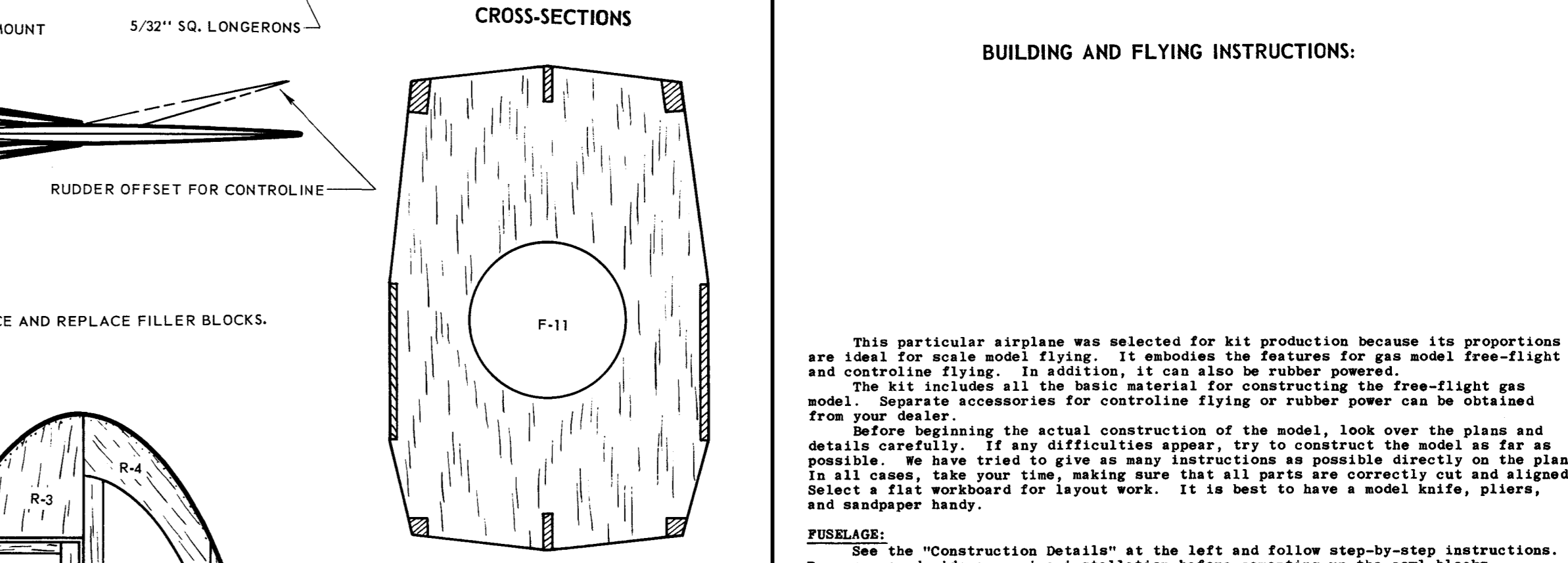
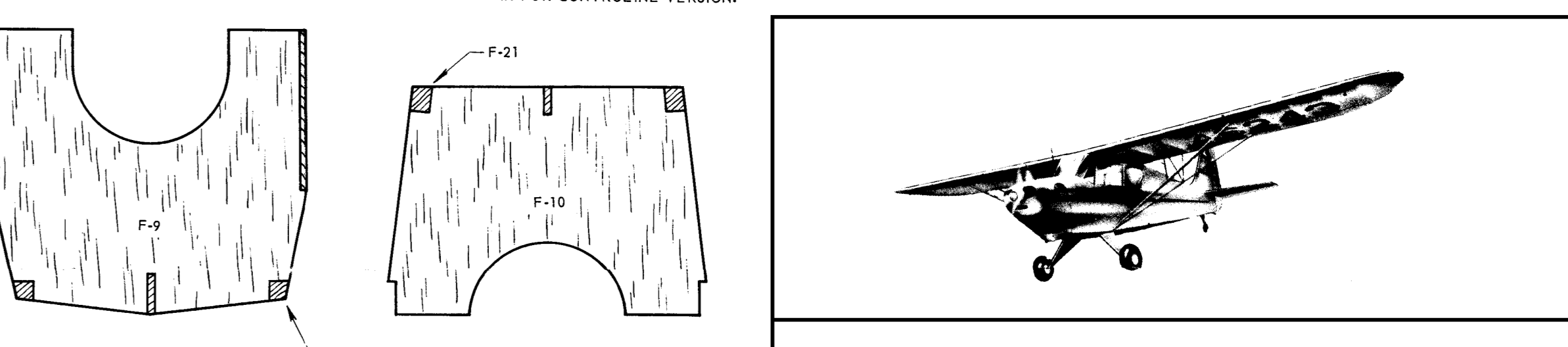
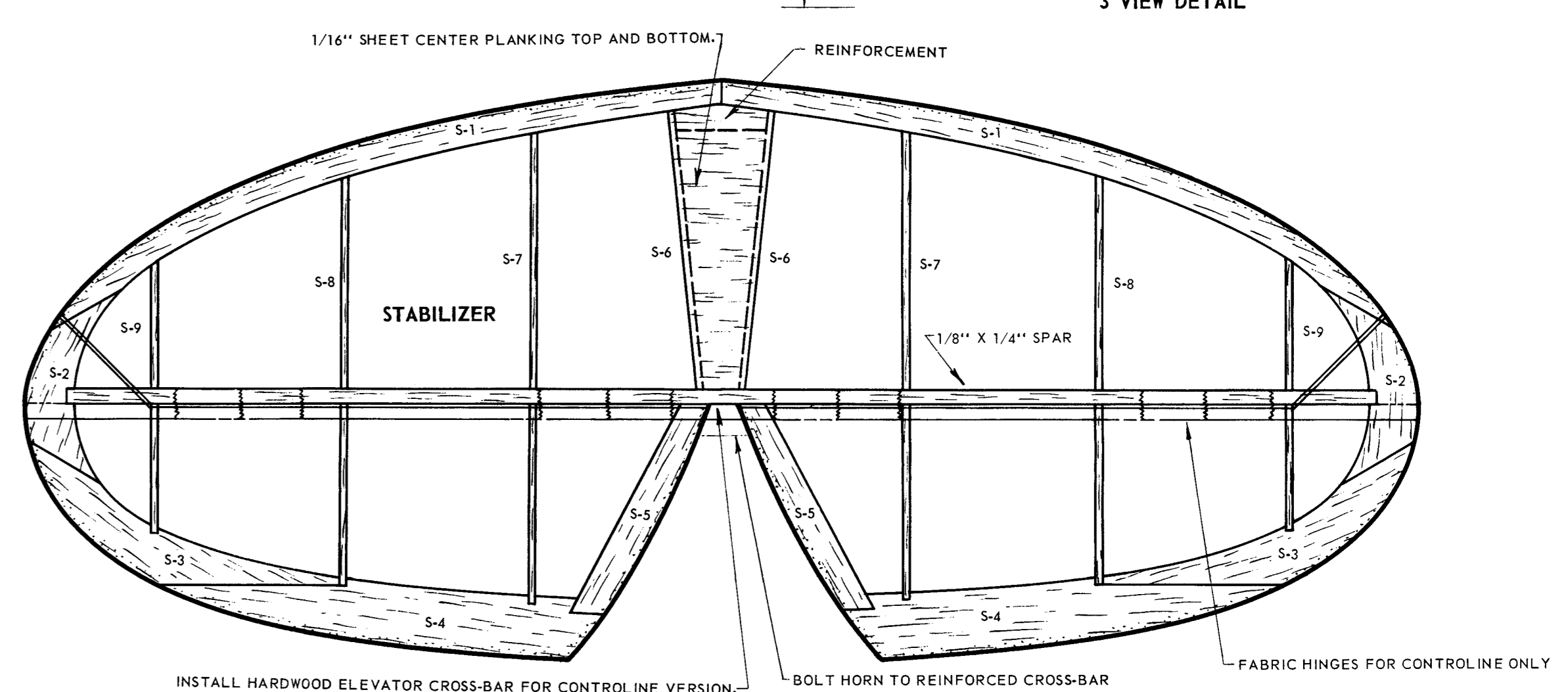
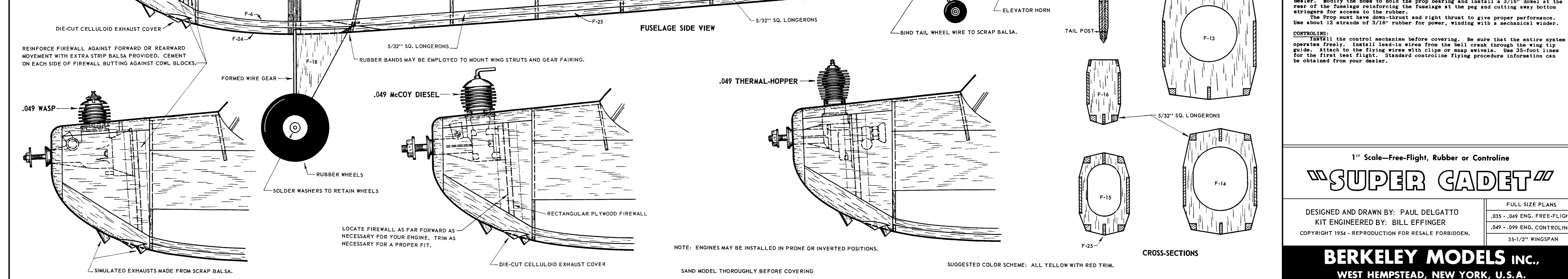
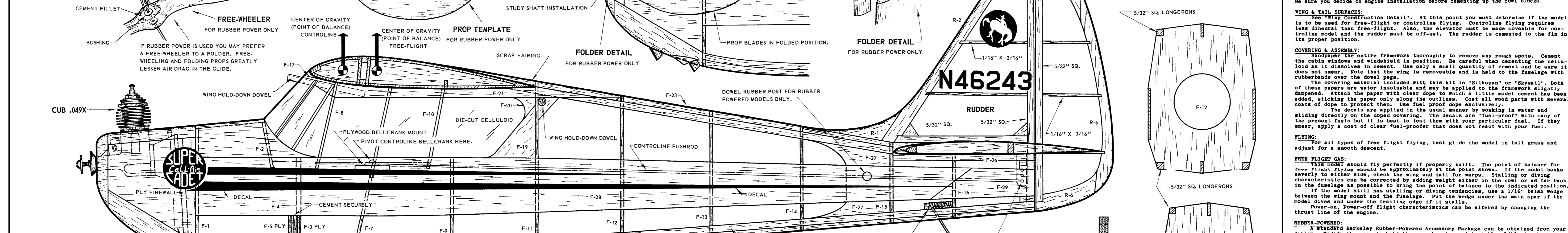
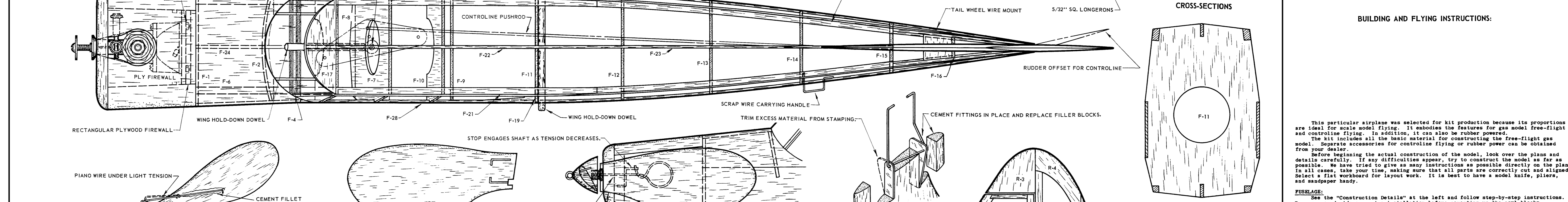
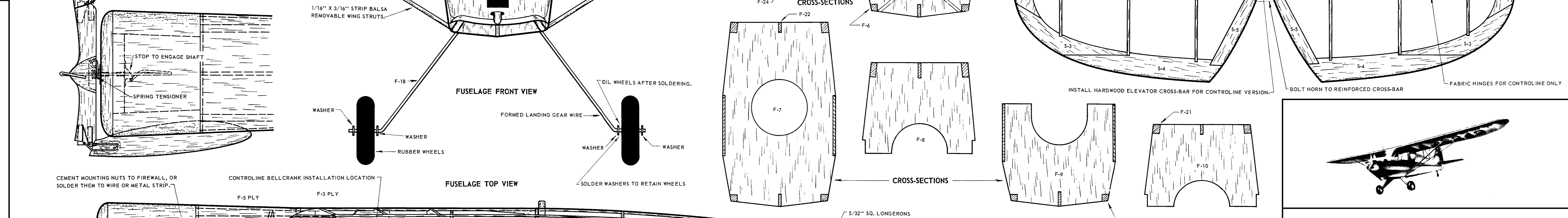
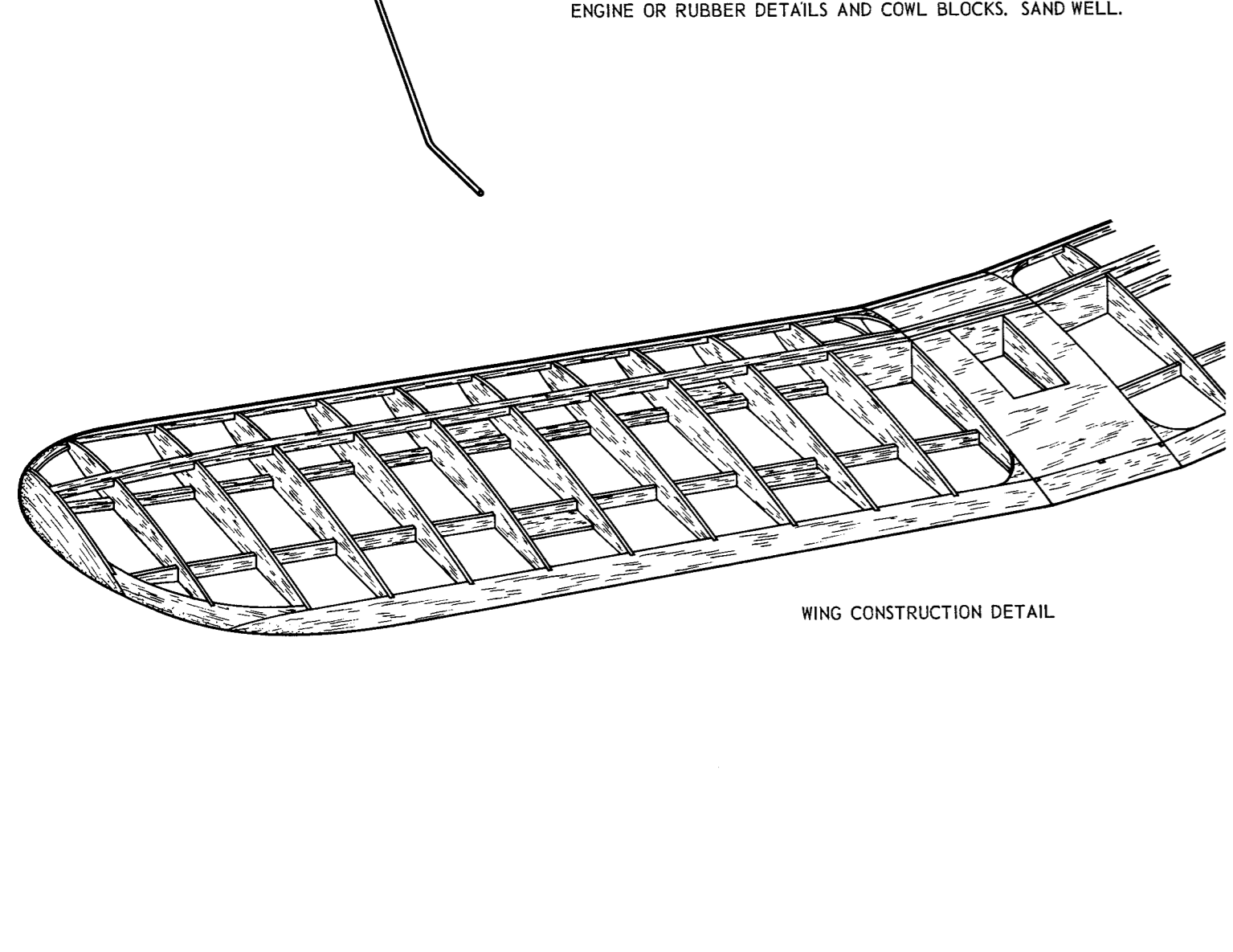
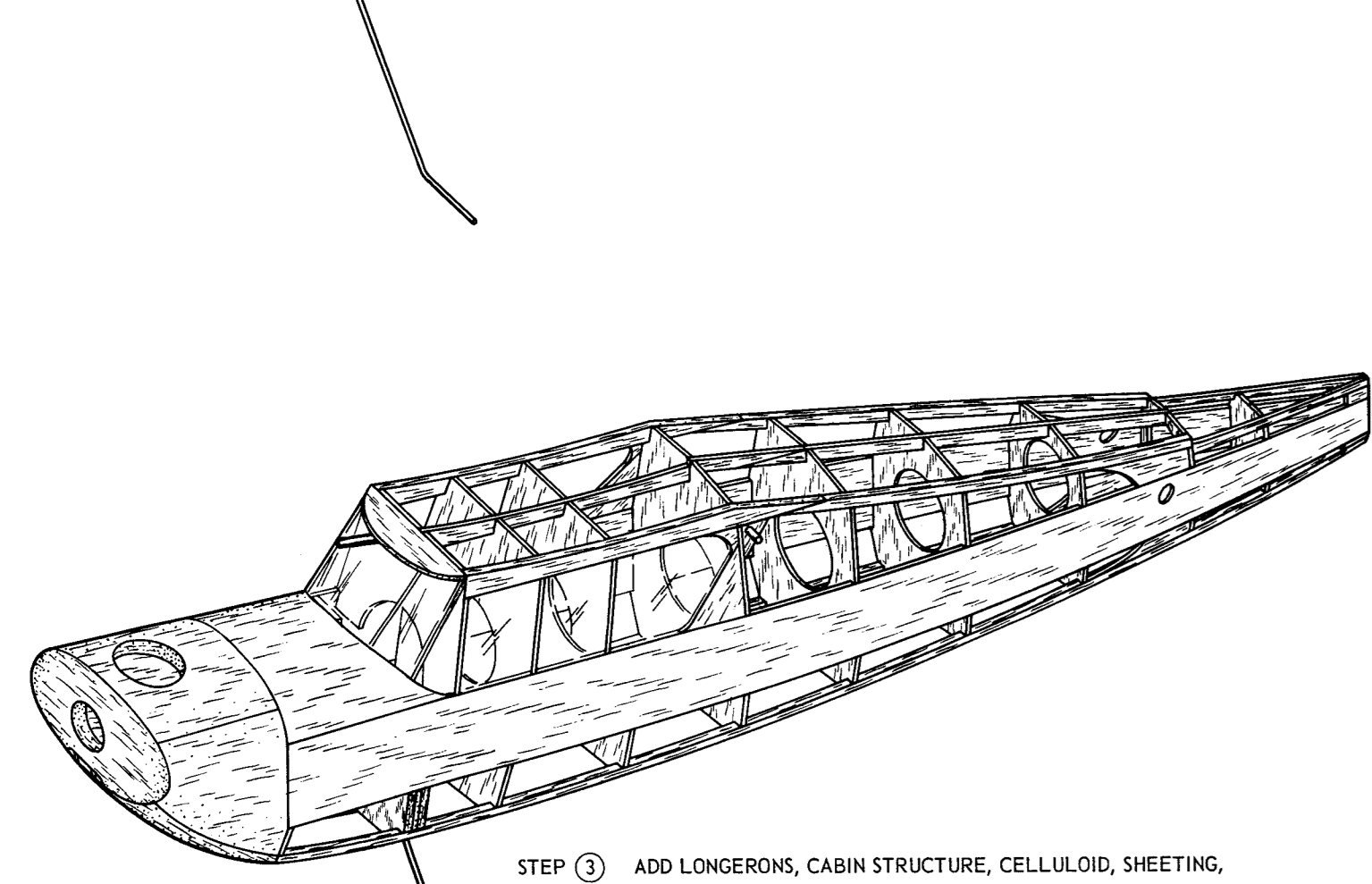
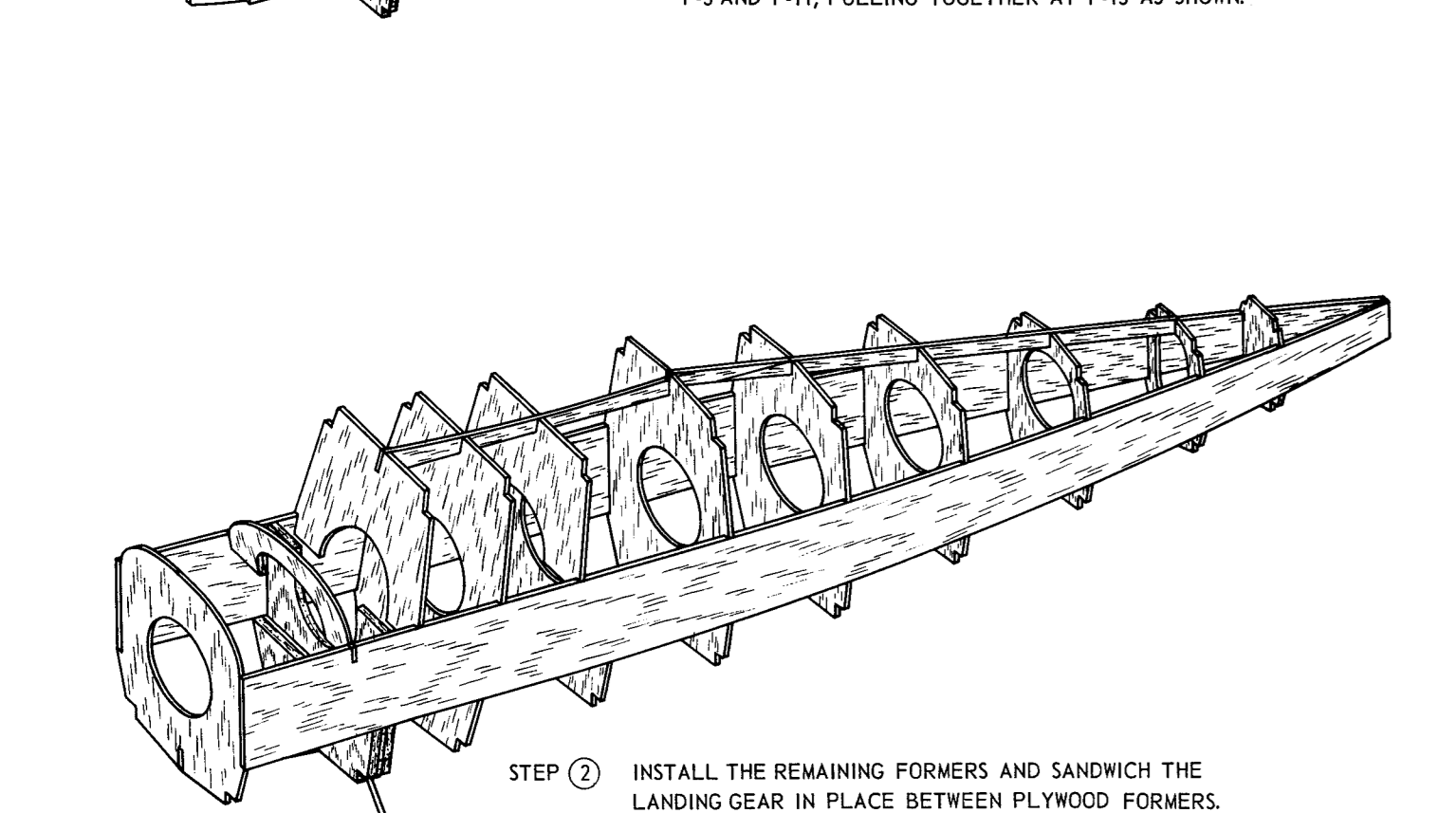
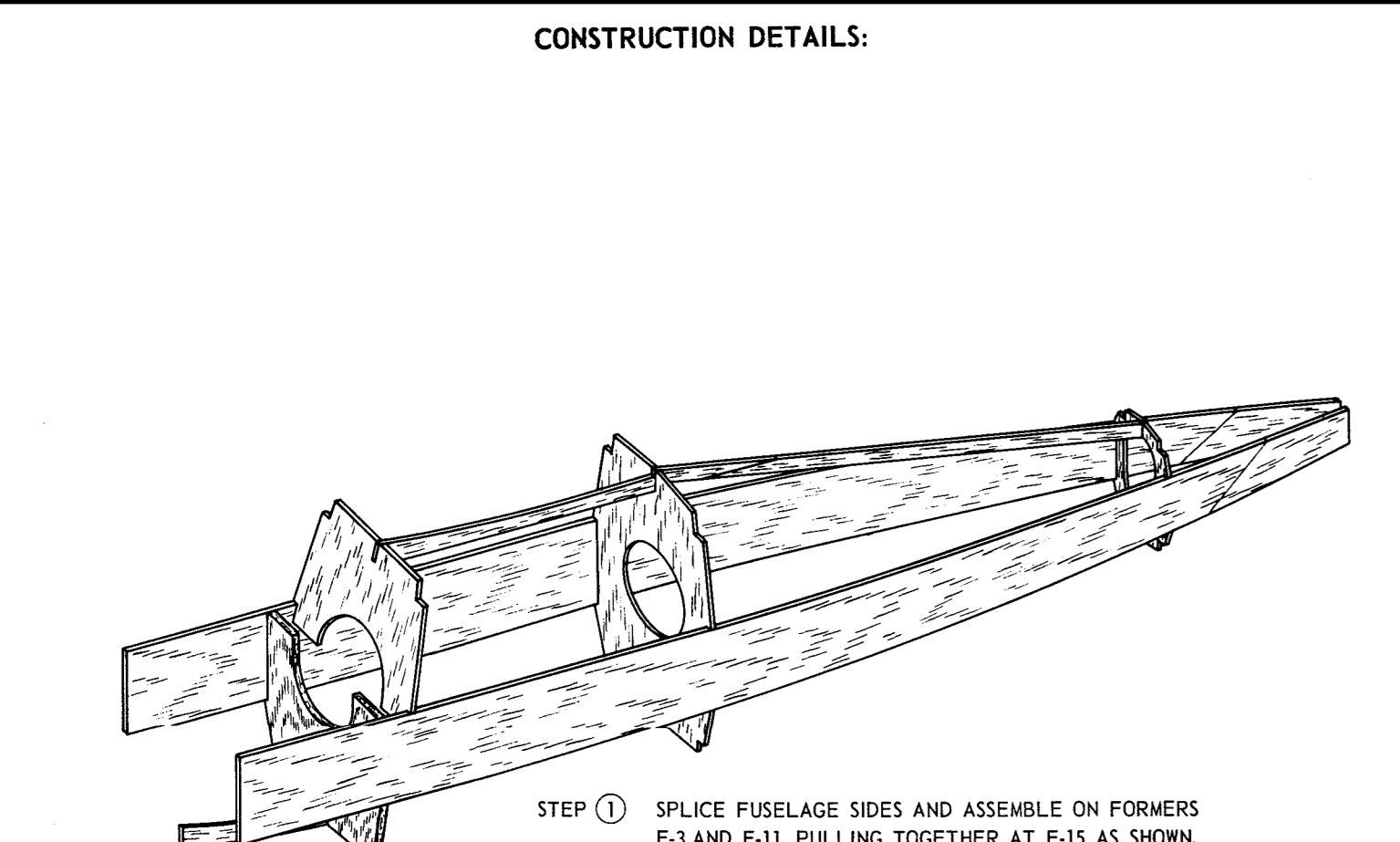
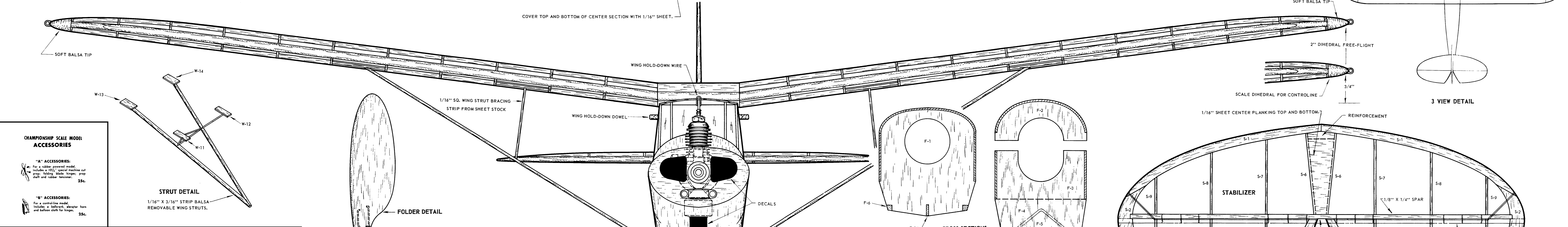
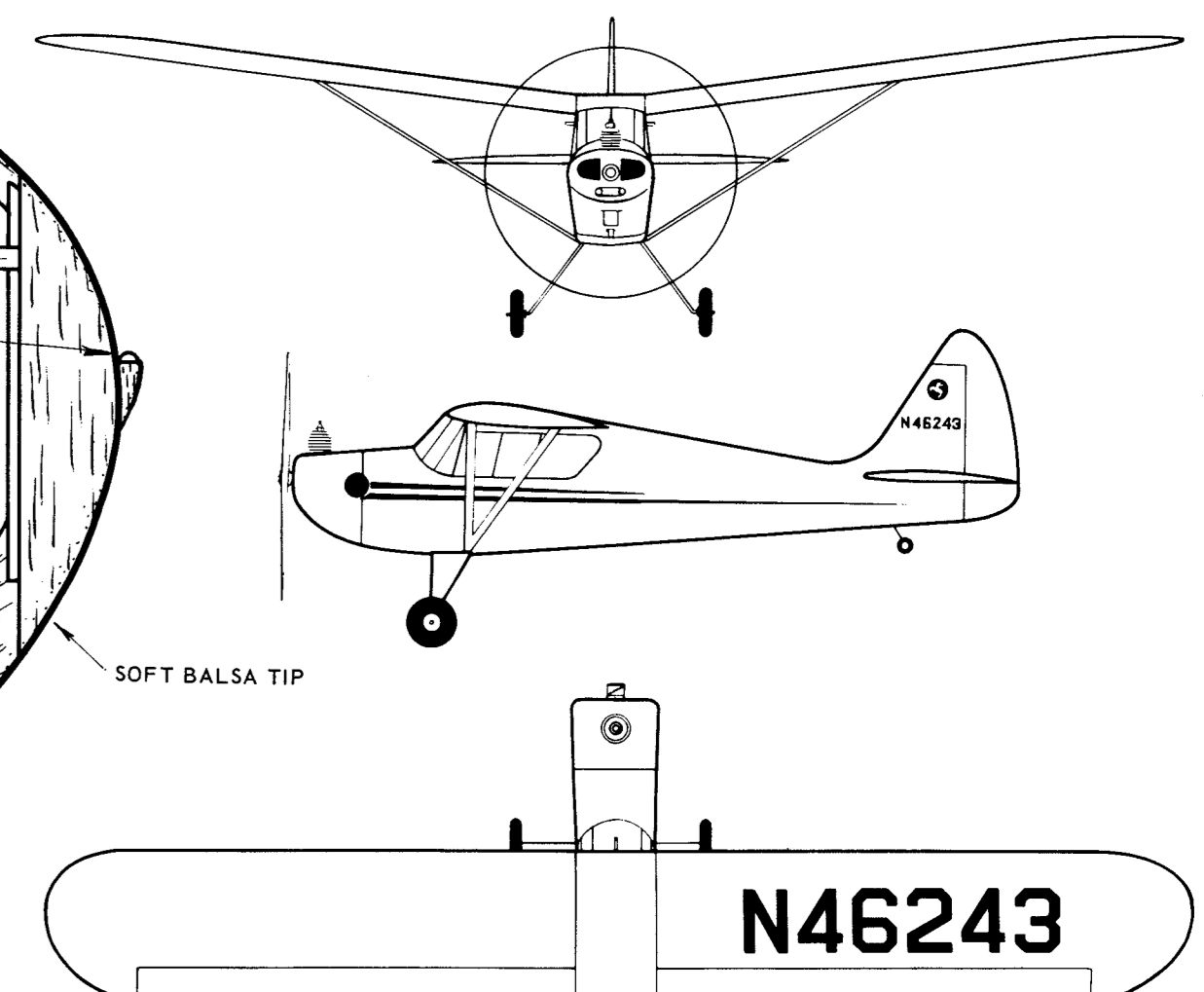
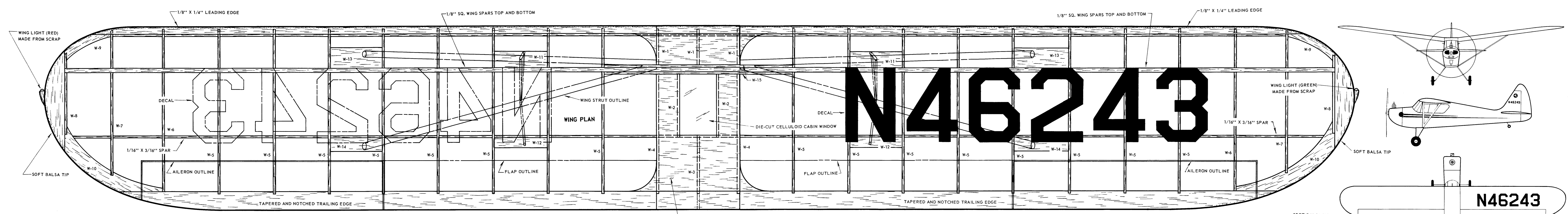


# N46243



## BUILDING AND FLYING INSTRUCTIONS:

This particular airplane was selected for kit production because its proportions are ideal for scale model flying. It embodies the features for gas motor, free-flight and control line flying. In addition, it can also be rubber powered.

The kit includes all the basic material for constructing the free-flight gas model. Separate accessories for control line flying or rubber power can be obtained from your dealer.

Before beginning the actual construction of the model, look over the plans and details carefully. If any difficulties appear, try to construct the model as far as possible. We have tried to give as many instructions as possible directly on the plan. In all cases, use your own judgment. Make sure that all parts are correctly cut and aligned, select a flat work-surface for layout work. It is best to have a model knife, pliers, and sandpaper handy.

**FUSELAGE:** See the "Construction Details" at the left and follow step-by-step instructions. Be sure you decide on engine installation before cementing to the cowl blocks.

**WING & TAIL SURFACES:** See "Free-Flight Construction Details". At this point you must determine if the model is to be used for free-flight or control line flying. Control line flying requires less dihedral than free-flight. Also, the elevator must be made removable for control line model and the rudder must be off-set. The rudder is cemented to the fin in the proper attitude.

**COVERING & ASSEMBLY:** Thoroughly remove any rough spots. Cement the cowl windows and windshield in position. Be careful when cementing the cowl. Hold as it dissolves in cement. Use only a small quantity of cement and be sure it does not seep. Note that the wing is removable and is laid to the fuselage with rubberbands over the cowl.

Some papers are water insoluble and may be applied to the framework slightly dampened. Attach the paper with clear dope to which a little model cement has been added, striking the paper only along the outlines. Coat all wood parts with several coats of dope to protect them. Use fuel proof dope exclusively.

The dopes are applied in the usual manner by brushing. Use water and sliding directly on the doped covering. The dopes are "fuel-proof" with any of the present fuels if it is best to test them with your particular fuel. If they smear, apply a coat of clear fuel-proofer that does not react with your fuel.

**FLYING:** For all types of free flight flying, test glide the model in tall grass and adjust for a smooth descent.

**FREE FLIGHT GLIDE:** The model should fly perfectly if properly built. The point of balance for free flight flying should be approximately at the point shown. If the model banks severely to either side, check the wing and tail for warps. Stalling or diving characteristics can be corrected by adding weight either in the cowl or as far back in the fuselage as possible to bring the point of balance to the indicated position.

When making the landing or diving tendencies, use a 1/16" balsa wedge model placed under the trailing edge of the wing under the main spar. If they power-on, power-off flight characteristics can be altered by changing the thrust line of the engine.

**RUBBER-POWERED:** The Berkeley Rubber-Powered Accessory Package can be obtained from your dealer. Modify the nose to hold the prop bearing and install a 3/16" dowel at the rear of the fuselage reinforcing the fuselage at the peg and cutting away bottom structure for access to the rubber.

The Prop must have down-thrust and right thrust to give proper performance. Use about 12 strands of 3/16" rubber for power, winding with a mechanical winder.

**CONTROL LINE:** Tighten the control mechanism before covering. Be sure that the entire system operates freely. Install landing gear from the belly grass through the wing tip guide. Attach the flying wire with clips or snap swivels. Use 25-foot lines for the first test flight. Standard control line flying procedure information can be obtained from your dealer.

**1" Scale—Free-Flight, Rubber or Control Line**

# SUPER CADET

DESIGNED AND DRAWN BY: PAUL DELGATTO  
KIT ENGINEERED BY: BILL EFFINGER  
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FULL SIZE PLANS  
.035 - .049 ENG. FREE-FLIGHT  
.049 - .099 ENG. CONTROL LINE  
35-1/2" WINGSPAN

## BERKELEY MODELS INC.

WEST HEMPSTEAD, NEW YORK, U.S.A.