There are several notes I need to provide to aid you with the enclosed package. The original kits used 1/16" balsa. Since I wanted to print these directly on balsa sheet I developed the parts for 1/32" balsa sheet. My printer will handle up to 1/20" sheet, but I find 1/32" is a little easier to handle in the printer. As a result, some of the parts have been drawn to allow for cross grain laminations. The fuselage formers are a good example. The fin as also been drawn with a mirror image to allow for markings on both sides. This works fine as long as you are using 1/32" sheet stock.

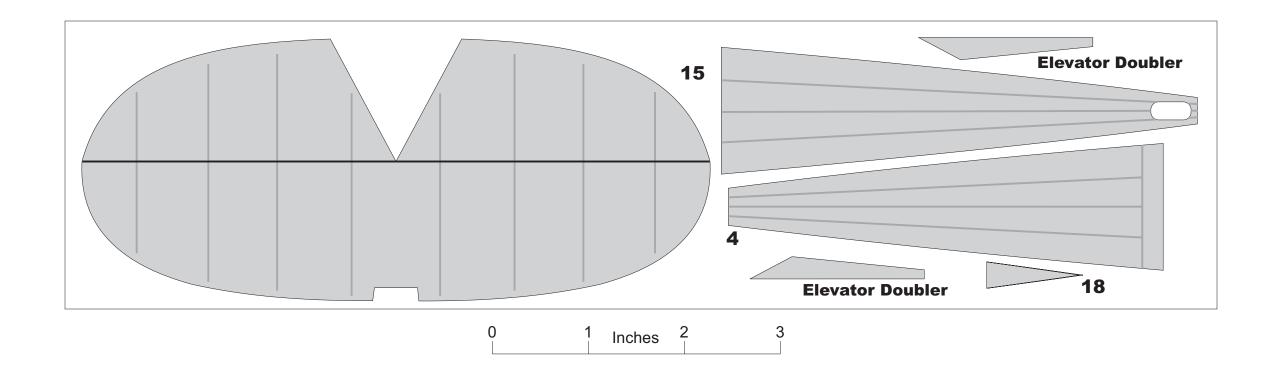
I like to use a removable nose for winding. The parts have been drawn with this in mind. An un-colored nose former has been drawn that is to be part of the fuselage structure. A colored nose piece has also been drawn. The piece when backed with a piece of 1/64" plywood becomes the removable part. The nose former is located to allow the removable piece to nestle inside the fuselage sheeting. I like to use a Peck thrust bearing for 1/32" prop shafts in the removable nose piece. Please see the diagram that comes just before the scanned kit plan in this package.

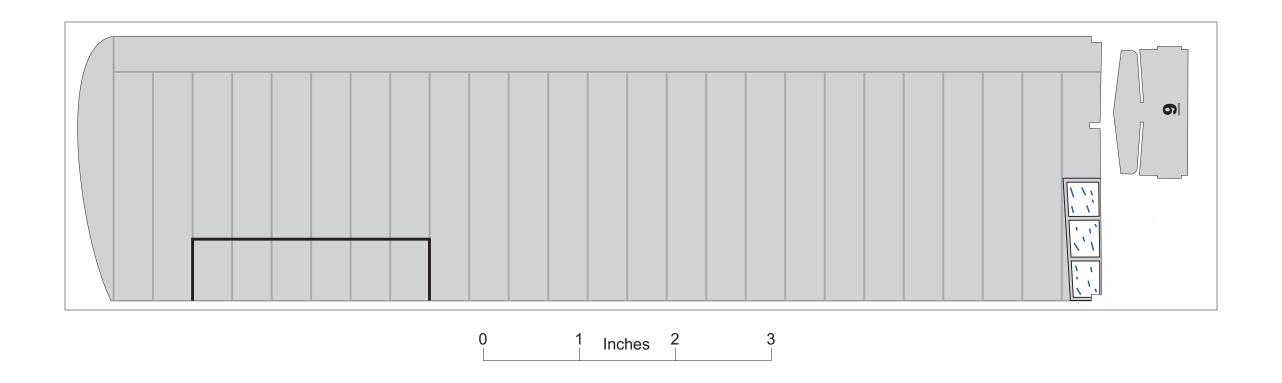
When using 1/32" sheet for the fuselage sides, I was concerned about the load of a fully wound motor on the rear motor peg. I like to use a piece of 3/32" aluminum tubing for the rear peg. Makes holding the model in a winding stooge very easy. To create a bit more strength at the rear peg, I apply a 3/8" diameter disk of plywood to the inside of each fuselage side at the peg location. This has proven to be more than adequate for a fully wound motor of 1/8" Tan II rubber. A piece of 3/32" OD aluminum tubing is used for the rear motor peg.

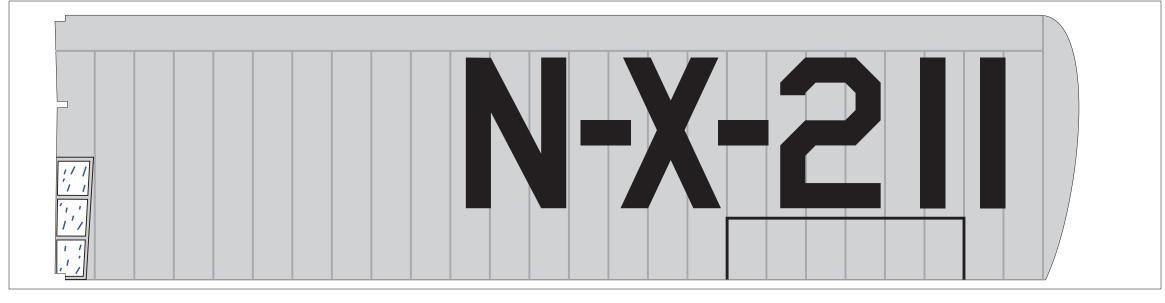
The original Goldberg kits did not have any color applied to the balsa. I have added color and markings in a manner similar to the old Top Flite Jigtime models. Carl Goldberg was responsible for the Jigtime series when he was with Top Flite. The colors chose are based on colors used on the full scale aircraft.

I do hope you build and enjoy a model from this plan package.

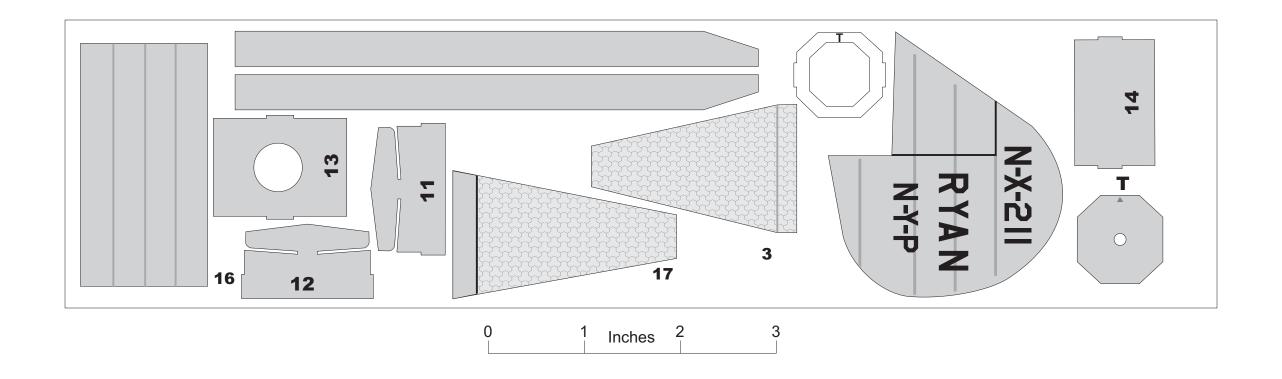
Paul Bradley

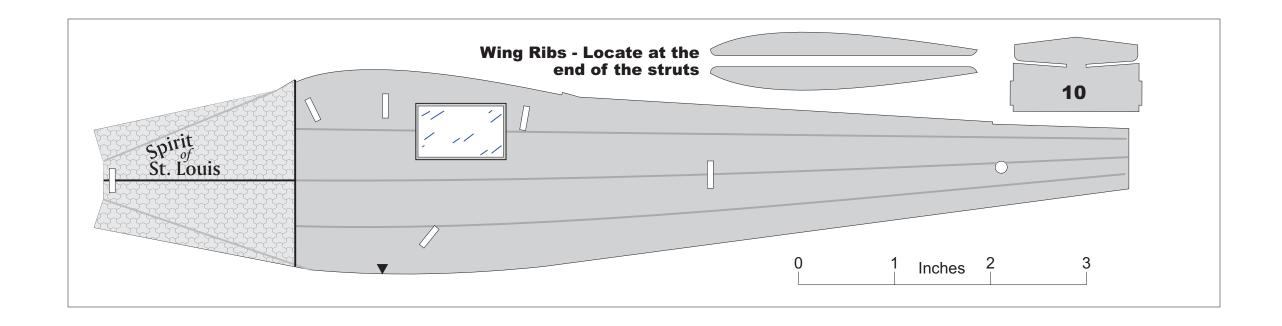


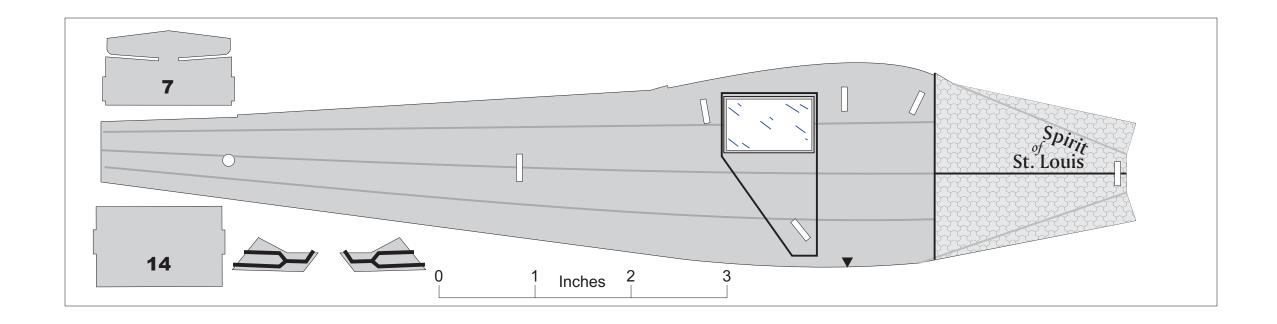


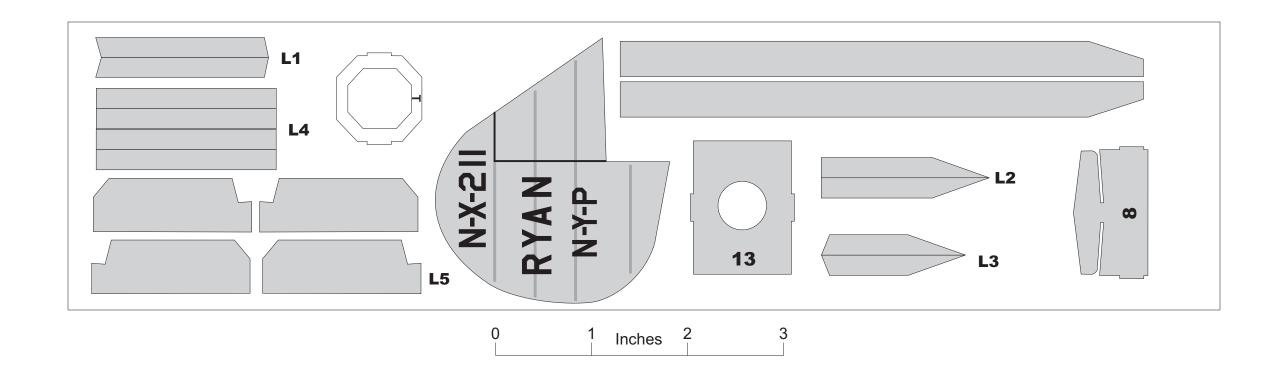


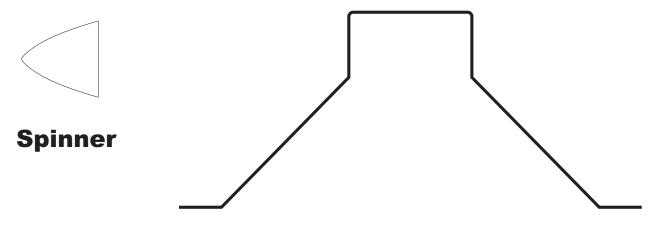
1 Inches  $\frac{2}{1}$ 











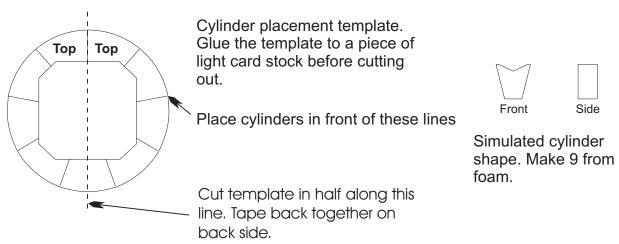
Landing Gear - .032 music wire.
Use 1" wheels.

**Dummy cylinders** - The original Goldberg kit used a vacuum formed part for the engine cylinders. This was a two piece part that represented the front and back of the engine cylinders. After assembly the part was painted and then slipped over the nose.

For the reproduction nine cylinders are made up from foam. Prepare a strip of foam 1/4" thick by 3/8" wide about 4" long. Cut "wedges" per the template from the foam. Either cut or sand the notch at the top of each wedge. This simulates the rocker arms at the top of each cylinder. Use a black marker or paint to make the cylinders black.

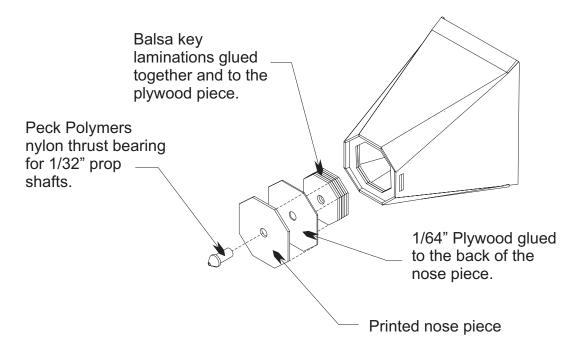
Next cut out the cylinder placement template. Leave material around the outside and do not cut the inside area just yet. Glue this to a piece of light card stock. Now cut to the outside circle and inside opening lines. Cut the template in half using the reference line. Once cut in half, on the back side tape the two halves together. This will make it easy to remove the template after the cylinders are in place. Slide the placement template over the nose of the model.

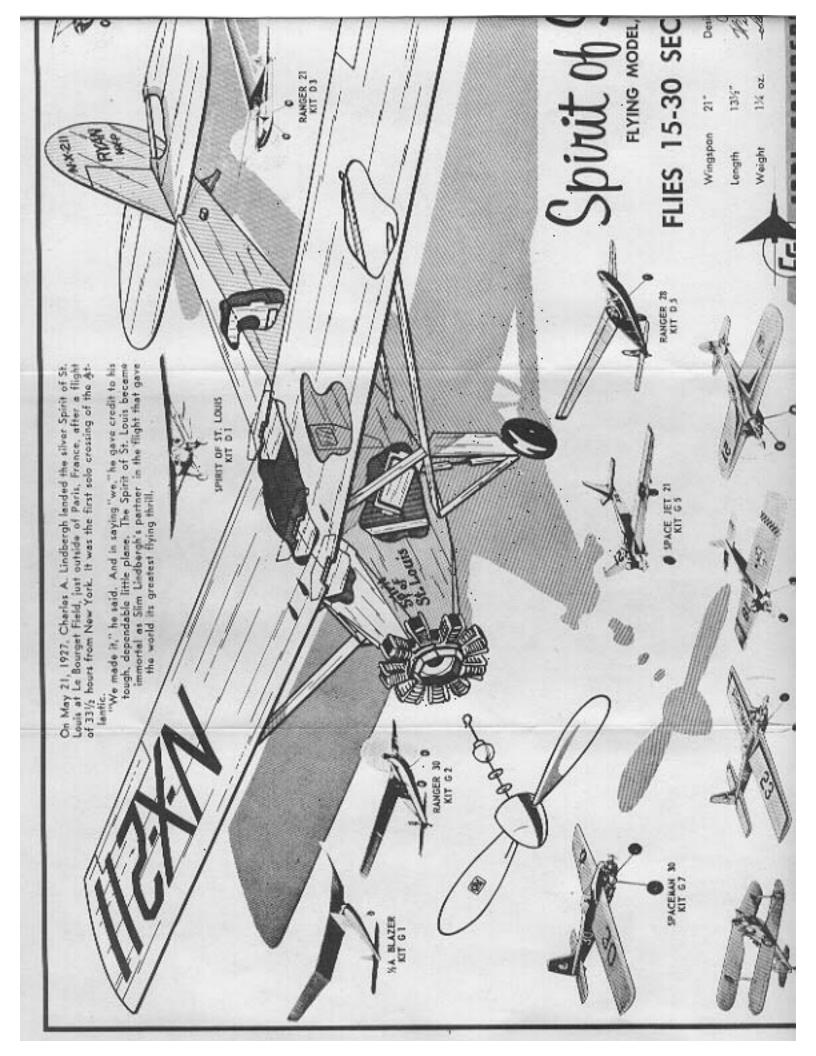
Fit each and glue each cylinder to the nose of the model using the placement template as your guide. The cylinders will be in front of the placement guide. You will need to cut or sand the bottom of each cylinder to fit. Be careful not to get glue on the template. After the glue has dried, remove the tape from the back of the template and remove each half.



#### **Spirit of St. Louis**

#### Removable Nose Assembly





## YOUR SUGGESTIONS WANTED

First, build your model carefully and accorately, following instructions, Cement all the joints firm: by. Sand the entire model nest and smooth, with rounded edges especially on the wing and tail. Modelers often have ideas for improvements. We will be happy to hear from you by post card or letter on:

- 1. Your suggestions.
- 2. What you like best about our models.

Keep it light,

you'd like to see us bring What three new models

the section on Haw to Make Estra Long Rights, Keep practicing.

Be sure to include your name, age, and address so we can reply and thank you.

> SHOESTRING CIT D 2

name, giving real recognition to your building and flying achievemental

# HOW TO WIN YOUR

A pilot must of course study, practice and finally pass certain tests before he can win the covered certificate. The performance standard set for your model is not difficult, but it will take some effort. So read the following corefully.

Second, follow the Flying Instructions to get your model in perfect "Bying trim." Get lots of proc-tice in flying it, and learn to make small adjustments to help it fly more smoothly. Study and follow Third, have your model limed to see how long it can stay up. The limer can be your teacher,

To Carl Goldberg Models, Inc.

пропри

LICENSE APPLICATION

**PIDIS** 

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June 2 Sproture

My plane Spirit of St Louis.

to come the costs of harding and

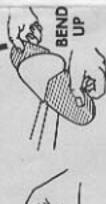
410

witness kinged the Business DOWEL in with 10c to cover the handling and mailing costs.
Within a short time follow three weeks, you will receive a handsome certificate inscribed in your scoutmatter, parent or a friend, and should use a stapwalch or a sweep-second watch. When you have successfully achieved the necessary time as shown in the application, fill it out and send it

### INSTRUCTIONS WIRE RUBBER BAND

Use long wire (from hobby shop, florist or hardware) to help install rubber motor. Insert dowel at rear. NEVER GLEST UPWARDS

PROPER GLIDE



Make test glides over tall grass. Should model dive, bend tail up a little at a time until the glide is smooth.

SMOOTHLY TOSS

WIND



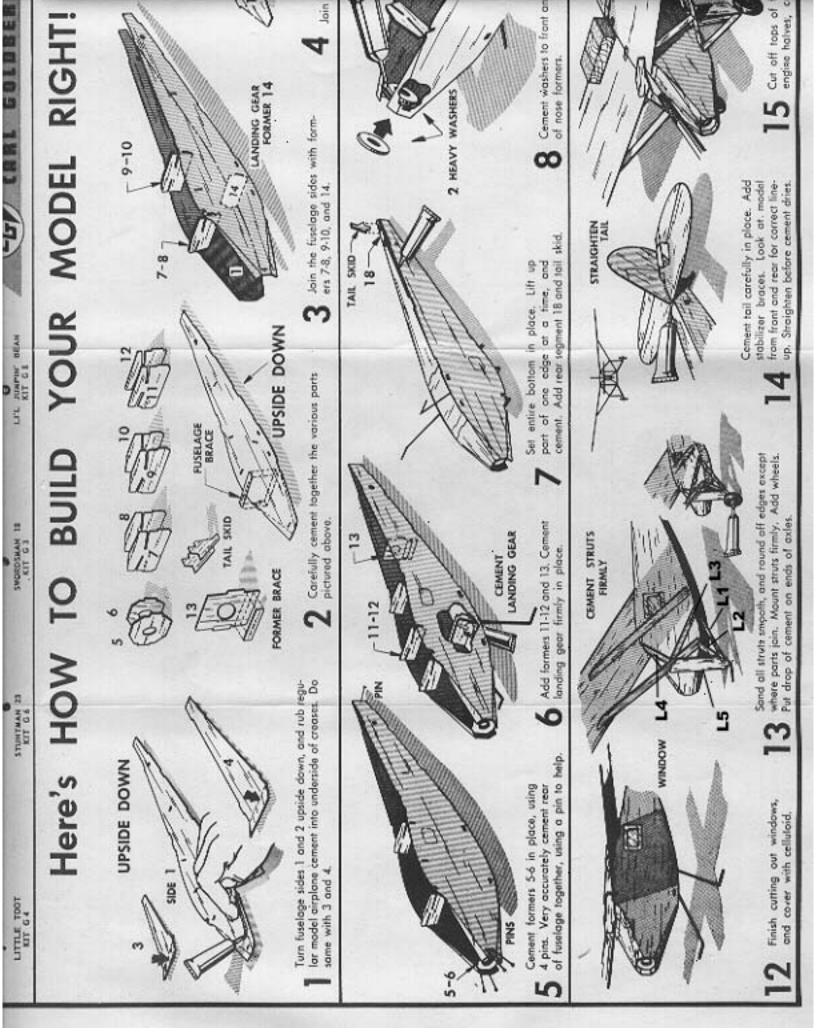
WIND PROPER GUDE BEND

, 150-300 FT.

KIT DI

ed and drawn by:

BEND RUDDER TO "8" IF MODEL TURNS "A"



Join

