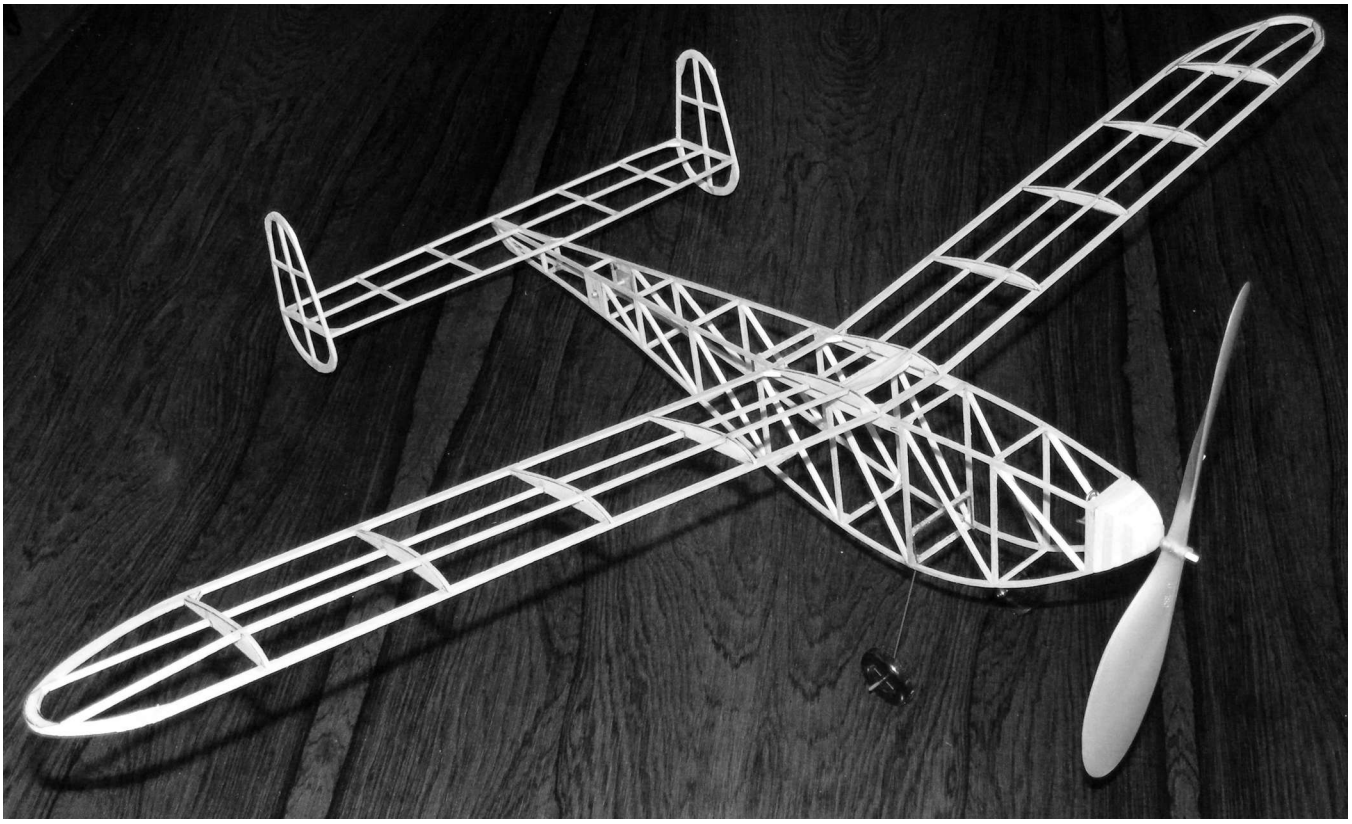
MAXFAX

Journal of the D. C. Maxecuters

... home of the dreaded POTOMAC PURSUIT SQUADRON of the Flying Aces

Editor: Stew Meyers **2014-1 (1st Quarter)**

SCIENTIFIC TWO BIT +1 ISSUE



COMING ATTRACTIONS

We get together every Tuesday at 11:30am at Mylo's Grill for lunch.
6238 Old Dominion Dr, McLean, VA

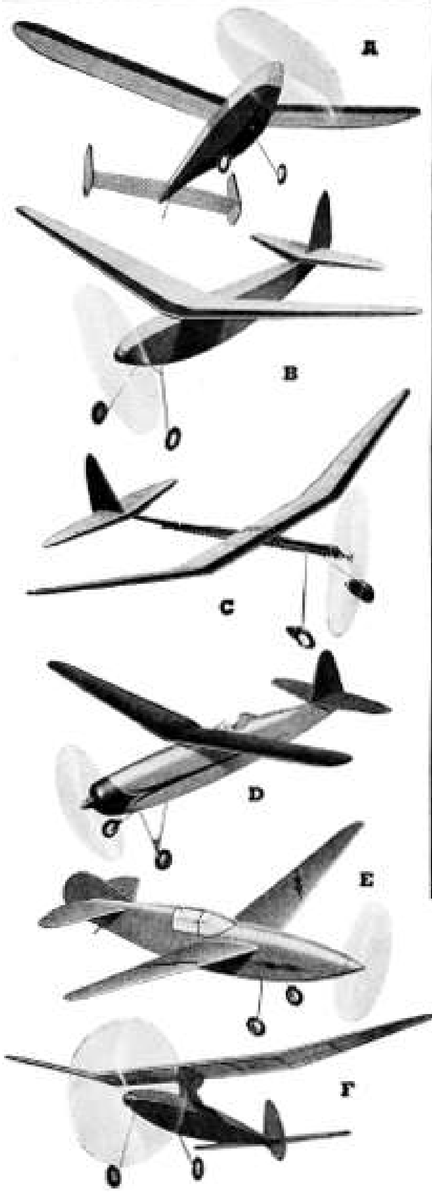
Bauer Community center is available for indoor flying Mondays and Wednesdays from 12:45 to 2:15 PM during the school year.
The address is 14625 Bauer Drive, Rockville, MD

Next NBM flying sessions Sunday May 4, 2014.

The annual Kudzu Classic date set for May 17 --18, 2014. Raeford, NC
Details in this issue and Maxecuter web site.

2014 FAC NATS July 16 (WED) -19 (SAT), 2014 Geneseo, NY
see FAC website for details

NEW! Scientific's 25" WINGSPAN FLYING DEMON Squadron



A. SKYSCRAPER. In her trial flights she consistently made altitude flights of over 500 feet. Fuselage, brown and white, wings and tail surfaces all white with brown trim. Her twin rudders assure greater spiral stability. COMPLETE KIT POSTPAID OR AT YOUR DEALER . . . 25¢

B. FURY. A really beautiful model that gives much pleasure building, and hours of enjoyment in the air. The Fury is easy to build and a real flyer too. Wing and stabilizer light blue with red trim. Body and rudder all red. COMPLETE KIT POSTPAID OR AT YOUR DEALER . . . 25¢

C. SCIENTIFIC R. O. G. An advanced type R. O. G., with built up wing and tail surfaces. Look at that polyhedral wing, the wheel pants. Wing and stabilizer all yellow, trimmed with blue, rudder and stick blue. COMPLETE KIT POSTPAID OR AT YOUR DEALER . . . 25¢

D. SPEEDSTER. A speedy, graceful model that is a consistent and steady performer. Takes off from the ground within three feet. Parasol wing type, with open cockpit. Red wing and tail surfaces, fuselage white with red trim. COMPLETE KIT POSTPAID OR AT YOUR DEALER . . . 25¢

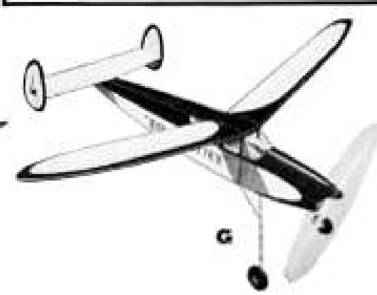
E. LIGHTNING. Everything the name implies. The Lightning is one of the fastest flying models ever designed. Easy to build, too. Adding to her streamlined beauty are red lightning flashes on her yellow wings and fuselage. COMPLETE KIT POSTPAID OR AT YOUR DEALER . . . 25¢

F. RAVEN. Easy to construct, even for a beginner. Her diamond shaped fuselage and elevated polyhedral wing assures contest winning flights. Fuselage and rudder covered with light blue tissue, wings and stabilizer yellow. COMPLETE KIT POSTPAID OR AT YOUR DEALER . . . 25¢

G. MISS WORLD'S FAIR. New 24" model, built on the exact scale of her larger sisters which gave such satisfaction last year. Up-to-date features include a high aspect-ratio swept back wing and trim rudders. COMPLETE KIT POSTPAID OR AT YOUR DEALER . . . 25¢

30" Miss World's Fair—50c p.p.
50" Miss World's Fair—$1.50 p.p.

JUST OUT! BIG NEW 1941 CATALOG! Contains many BIG BARGAINS. Send . . . . 5¢

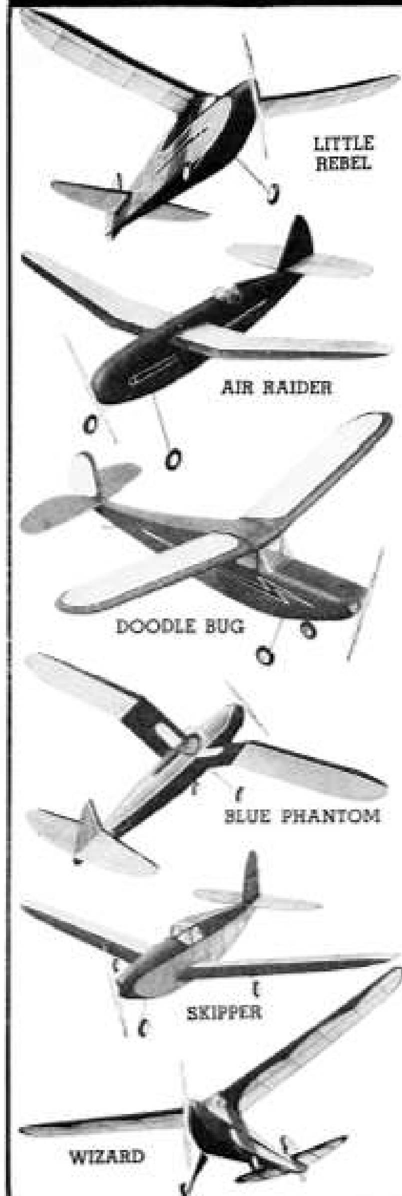


Scientific's New Rubber-Powered

FLEET of CHAMPIONS

BIG 25" WINGSPAN 25¢

POSTPAID OR AT YOUR DEALER . . .



LITTLE REBEL

Looking for "something different" . . . a model that is easily made and yet performs with the best? Here's one that tops all of that with a color design that speaks for itself. Orange trimmed with blue, and separated by white striping—black and white stripe on fuselage. Wing is fastened by the rubber-to-dowel method.

AIR RAIDER

You'll burst with pride when you see this classy pursuit-type model zoom skyward for a long, smooth flight and then come down to earth with a perfect 3-point landing. Colored brown and yellow, with black and white stripe on fuselage. Polyhedral wing can be made demountable or fastened permanently in place.

DOODLE BUG

Typical of the popular light planes of today, this saucy little job could meet all [illegible] for looks and performance. It is beautifully finished in red and yellow, set off by black and white. Demountable wing is fastened by rubber bands which hook to dowels set in fuselage. Here's a model that will give you much enjoyment in building and flying.

BLUE PHANTOM

Living up to its name, this model is an eye-catcher, not only on the ground, but also in the air. The wing has windows on both sides of the cockpit for better visibility. [illegible] wing, open cockpit, single-seater type. The color design of two-toned blue, divided by white, puts the "Phantom" in Class "A."

SKIPPER

The snappy low-wing [illegible] into the [illegible], and the tricycle landing gear makes this model so truly "up-to-the-minute." [illegible] Blue and yellow color design is set off by black striping.

WIZARD

After you build and fly this model you'll understand why it was so named. [illegible] off the ground so quickly you'll be amazed at the [illegible] long flights it turns in. Detachable wing uses the rubber-to-dowel combination which prevents broken spars and allows easy flight adjustment. Red and white with black stripe on fuselage.

AMERICA'S FINEST 100% BALSA KITS ONLY 35c EACH

NO DIE-CUT PARTS
NO PLASTIC PARTS
NO HARDWOOD PARTS
NO CARDBOARD PARTS
NO EXCESS WEIGHT
GUARANTEED TO FLY

THESE SCIENTIFIC SUPER-FLYERS ARE HONEST TO GOODNESS MODEL AIRPLANES, DESIGNED BY EXPERT FLYERS FOR LONG ENDURANCE FLIGHTS.

ASK YOUR DEALER FOR THESE SCIENTIFIC SUPER-FLYERS

MaxFax 2014- 1

NOTE - WE HAVE GONE FROM BIMONTHLY TO QUARTERLY

Stew Meyers Editor

SCIENTIFIC TWO BIT +1 ISSUE

My long time flying buddy Ray Rakow, (aceofaces@comcast.net) has been boosting the Scientific non-scale fliers. The Scientific Model Airplane Company had quite a range of models including gas jobs and the ubiquitous Miss Words Fair in the 1940s. By the fifties they were empathizing control line and ship models. I built a few of their way-off scale ½ A control liners, but had never built one of their rubber jobs. In the eighties, I built some of their rubber scale models and was impressed by the light construction, but had never built one of their non-scale jobs.

In their range is a series of 25 inch models which fill the bill for FAC Two Bit +1. I asked Ray for a photo of one his models, but he said they all flew away. Don Srull recalled having the same problem. Good enough for me. I did see Ray lose his Bantam at Kudzu last year.

Ray lent me some plans, a 1943 Scientific Catalog and a Fresno Models reproduction kit (from the 80's) of a couple of models in the series. Tracing back the ads in Model Airplane News, we find twenty one of their models qualify as Two bit +1. In 1939 they came out with the 20 inch *Flying Yankee* for 25¢. Later that year they introduced the 50¢ 25 inch *Jitterbug*. Then in 1940 they brought out six 25¢ 25 inch "Flying Demons" . The also produced a 25¢ 24 inch version of *Miss World's Fair* and added it to the "Flying Demons ". In 1941 they added six 25 inch 25¢ "Fleet of Campions". Finally in 1945 they produced six 25 inch "Super-Fliers" and upped the price to 35¢. All of these are very similar in construction with style variations in wing placement, plan form, fuselage shape, and tail configuration.

I am including the *Sky Scraper*, *Fury*, and *Bantam* in this issue because I have the cleanest drawings and print wood for these. I would encourage anyone out there that has clean plans or print wood to send me copies so I can complete the cannon an post them on the web. Ray has most of them, but they tend to be what I call "builder grade" ie: chopped up copies that need to be pieced together and or dingy copies with blotches made by copying opaque paper plans on a Blue Print machine. These require a lot of work to piece together or clean up to the point where I would publish or post them.

As usual when I get going on a subject, I just had to build one of them. The *Sky Scraper* has now joined my vast fleet of uncovered models.

The ads on this page and the one opposite show all 21 of these nifty FAC Two Bit +1 eligible models.

MEMBERSHIP - Dues for membership in the DC MAXECUTERS are **$25** per year for residents of the USA, Canada, and Mexico, and **$35** for all other countries. You may now use PayPal at the website:
www.dcmaxecuter.org
Your mailing label indicates the year and month of the last issue of your current membership. A red "X" in the box below is a reminder that your dues are due. Send a check, payable to the"D.C. MAXECUTERS", to the treasurer, Stew Meyers.

PUBLISHING DATES - Four issues of MaxFax are sent each year, one each quarter, but since this is a volunteer publication nothing is guaranteed except that four issues will be sent to all members. (***Rising costs and dwindling membership have forced us to go to four issues a year in 2014.***)

CONTACTS - Material for the newsletter and membership questions should be addressed to Stew Meyers phone 301-365-1749. Email gets immediate attention. stew.meyers@verizon.net

It turns out Bill Shive at Penn Valley Hobbies has ten of these designs as replica kits. I refuse to publish plans or parts from these. If I find the plan elsewhere I feel free to publish it.

Check out the drawing table on the back page.

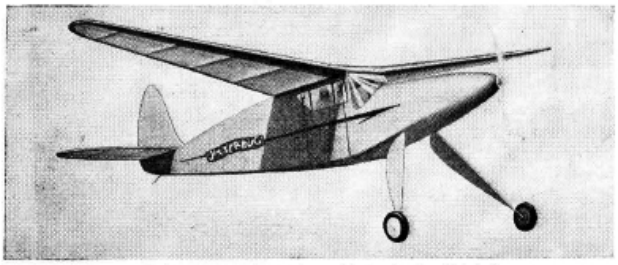
FLYING YANKEE

20" Wingspan. She flies with the greatest of ease . . . just wind her up and she is ready to go . . . her tail lifts . . . she gathers speed . . . space does not permit an explanation of the Yankee's many features . . . but go to your dealer and look it over for yourself and be convinced that it is the greatest value of all times. At your dealer or sent postpaid..... **25c**

THE NEW

JITTERBUG

ENDURANCE MODEL



25" Wingspan—Length 20½"—Light Weight

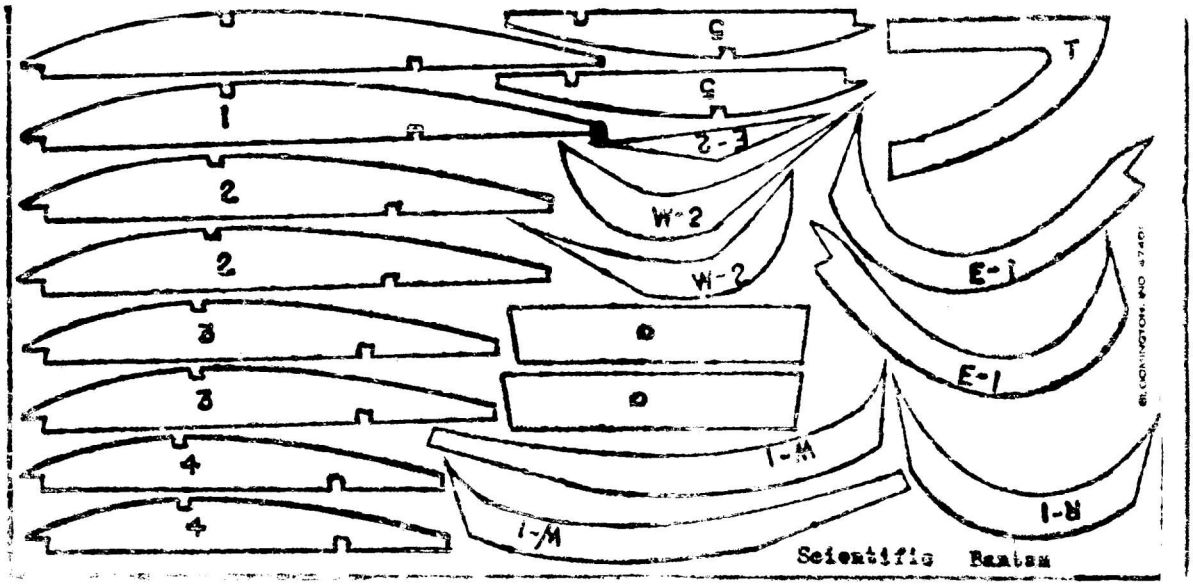
FLIES OVER 1 MILE (6,000 feet)

Here's another famous Flying Model originated and designed by Scientific. This trim endurance model can easily fly one mile or more. It speeds along the ground for a few feet, climbs into the sky—spirals up . . . and up . . . then gradually glides to a perfect 3-point landing! It is one of the slickest looking planes you will ever build! Look at that shapely wing—detachable, too!—that classy little cabin—streamlined nose—that graceful, thoroughbred appearance that simply spells "Class" and long flights. The construction is so simple that anyone with little or no past experience can easily build the "Jitterbug" in a few hours. A guaranteed Scientific product.

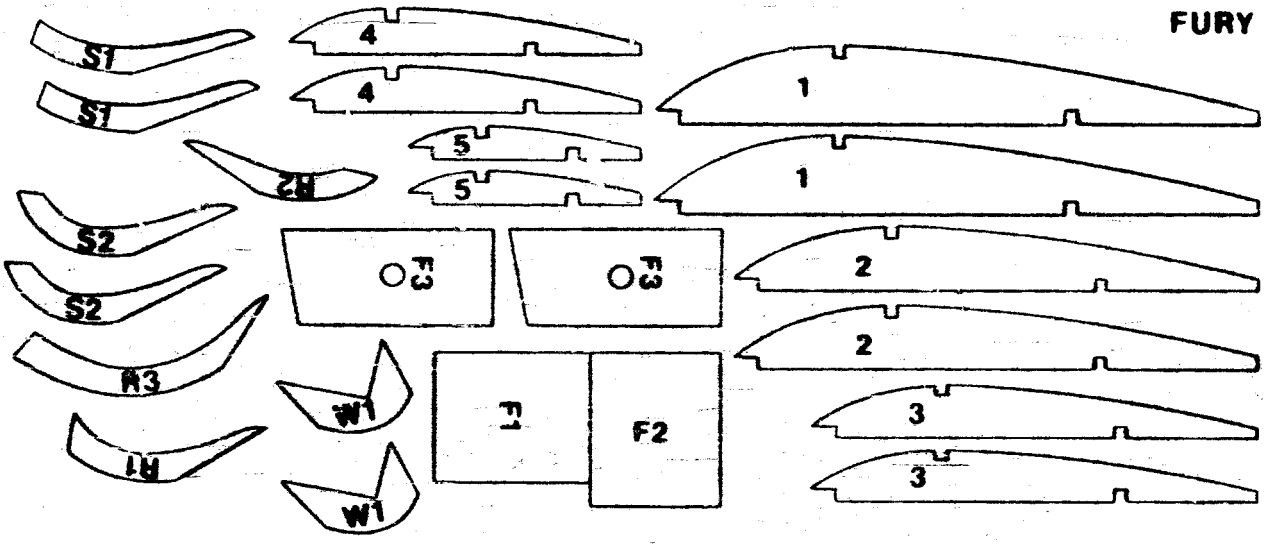
ONLY 50c Postpaid or at your dealer

Kit is complete with all materials including streamline wheels and a ready made propeller, full size plans and explicit instructions.

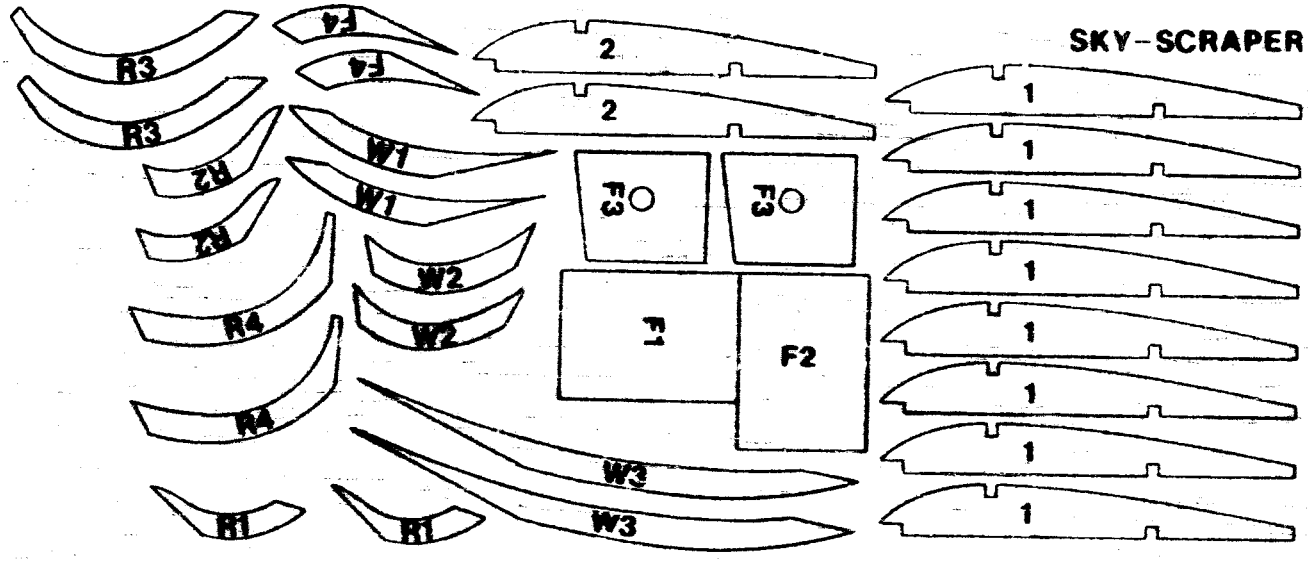
Priced exceptionally low. Complete kit



FURY



SKY-SCRAPER



TRAILING EDGE

1/16" X 1/8"

SPARS 1/16" SQ.

W-1

W-2

RIB-5

RIB-4

RIB-3

RIB-2

RIB-1

RIB-1

1/16" SHEET GUSSETS

1/16" X 1/8"

LEADING EDGE

The BANTAM

CUT FROM PLAN AND ATTACH TO FUSELAGE SIDES

STRAIGHT PINS, SPACED 1" APART, ARE INSERTED THROUGH PLAN AND INTO DRAWING BOARD. AROUND OUTLINE OF FUSELAGE TO HOLD PARTS TO-GETHER WHILE CEMENT IS DRYING.

R-1

1/16" X 1/8"

STABILIZER POSITION

1/16" SQ.

POSITION OF WING

2-1/8" WASHERS

TOP LONGERON MEMBER

SIDE VIEW

T

1/16" SQ.

VERTICAL MEMBERS

CEMENT & WRAP LANDING GEAR WITH THREAD

LEADING EDGE

BOTTOM LONGERON MEMBER

PROPELLER BLADE TEMPLATE

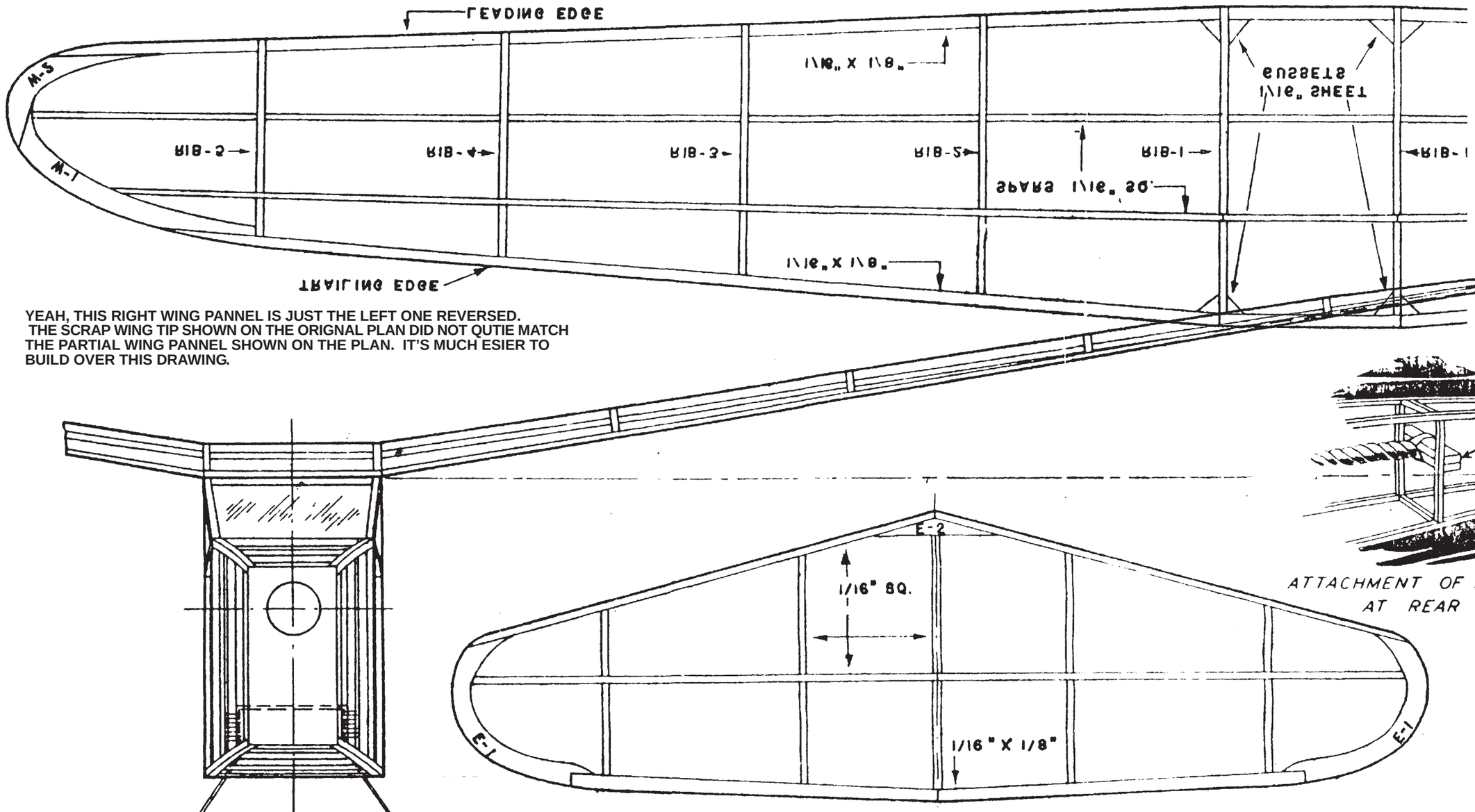
.020 WIRE

1/16" SQ.

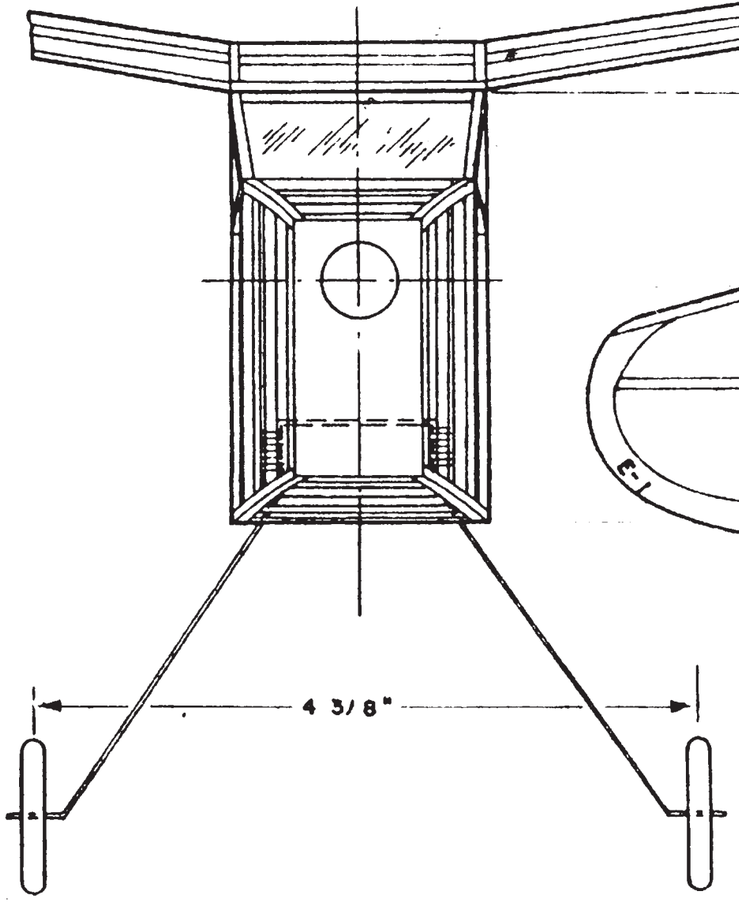
TOP VIEW

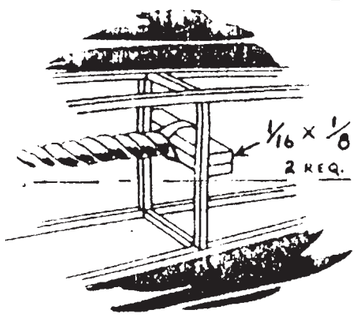
CROSS PIECES

HARDWOOD DOWELS

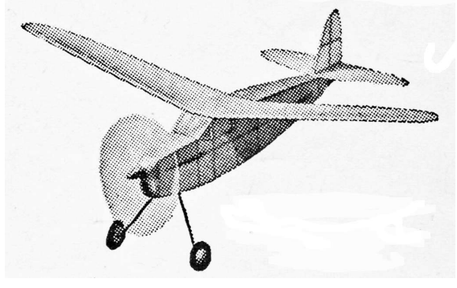


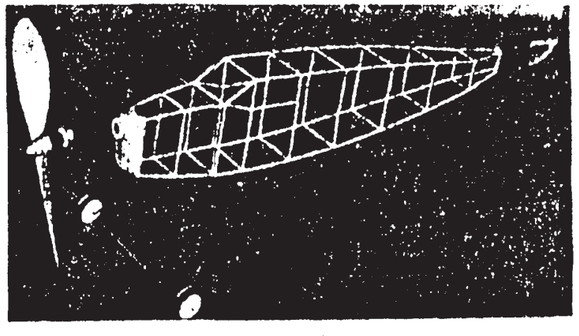
YEAH, THIS RIGHT WING PANNEL IS JUST THE LEFT ONE REVERSED. THE SCRAP WING TIP SHOWN ON THE ORIGNAL PLAN DID NOT QUTIE MATCH THE PARTIAL WING PANNEL SHOWN ON THE PLAN. IT'S MUCH ESIER TO BUILD OVER THIS DRAWING.



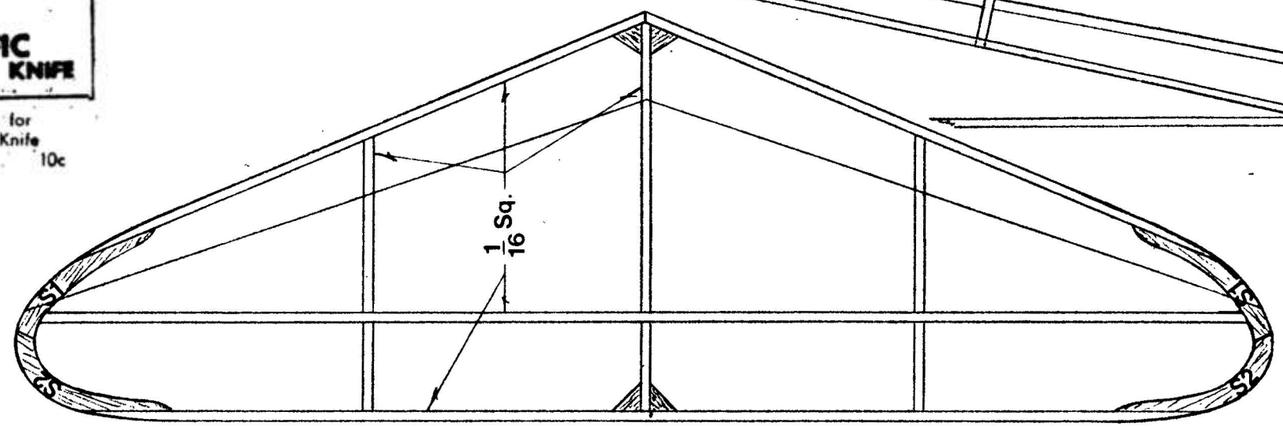


ATTACHMENT OF RUBBER AT REAR

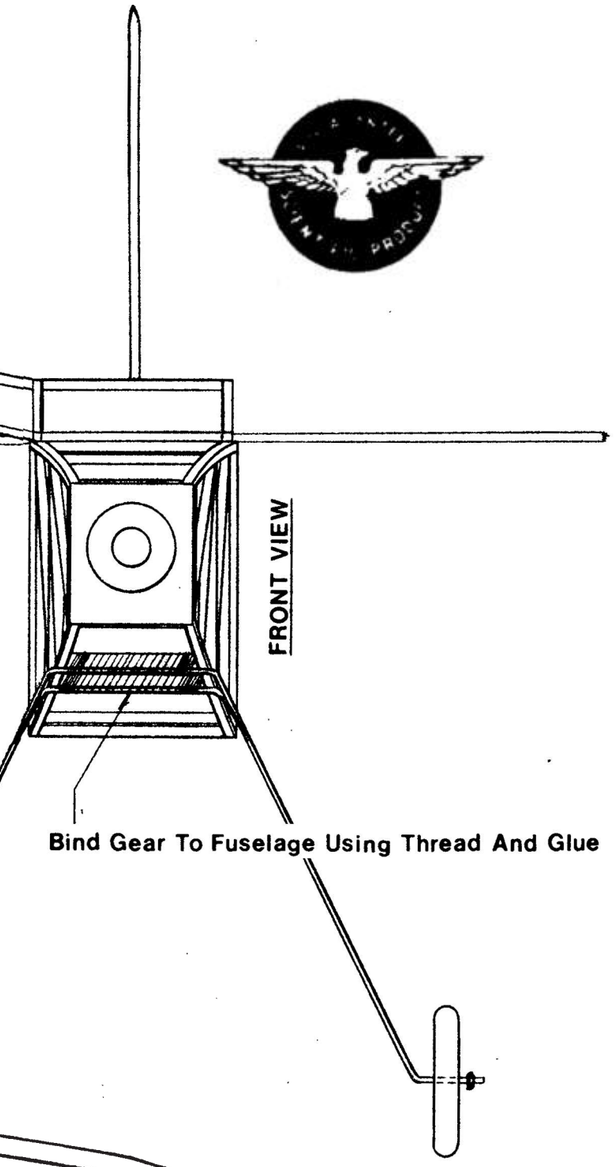


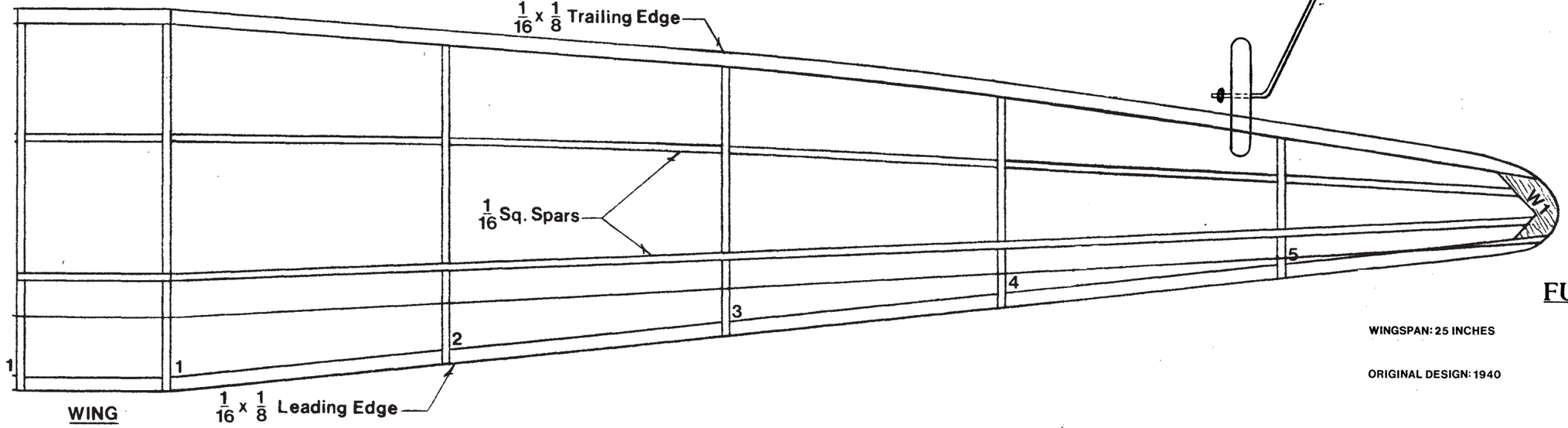


I have stuck in a couple of the ads that Scientific had on their plans but Fresno omitted.



STABILIZER





WING

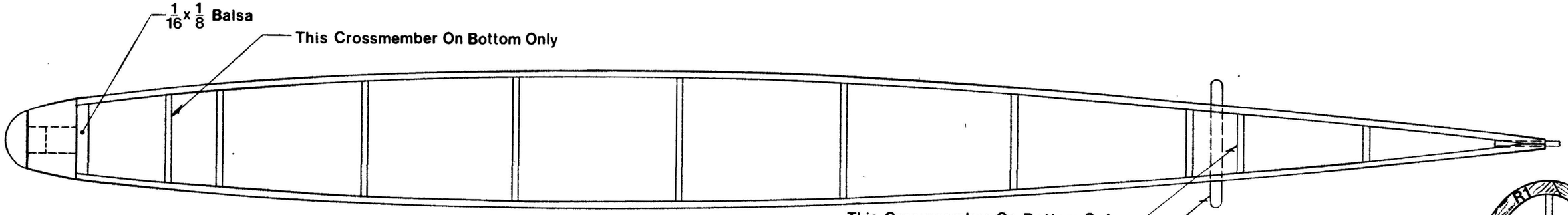
FURY

WINGSPAN: 25 INCHES

LENGTH: 16 1/2 INCHES

ORIGINAL DESIGN: 1940

DRAWN BY: Dave Kisling 12/86



FUSELAGE TOP VIEW

FURY

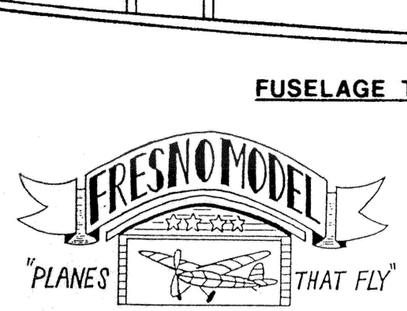
WINGSPAN: 25 INCHES

LENGTH: 16 1/2 INCHES

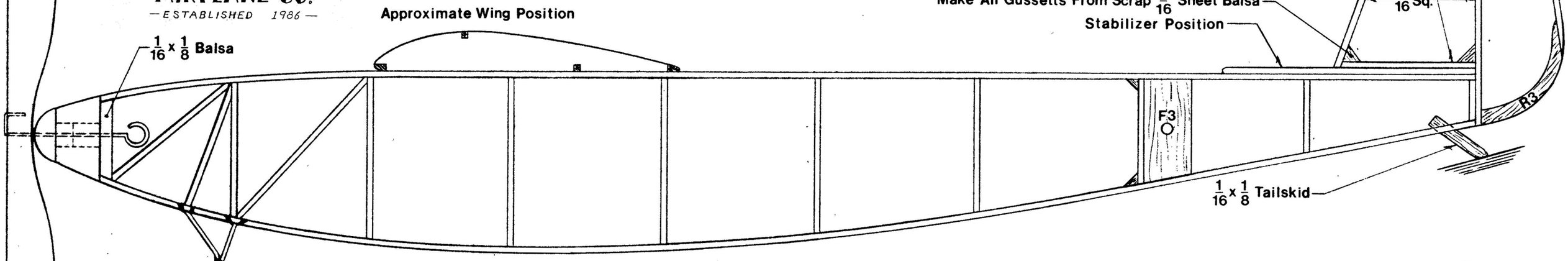
ORIGINAL DESIGN: 1940

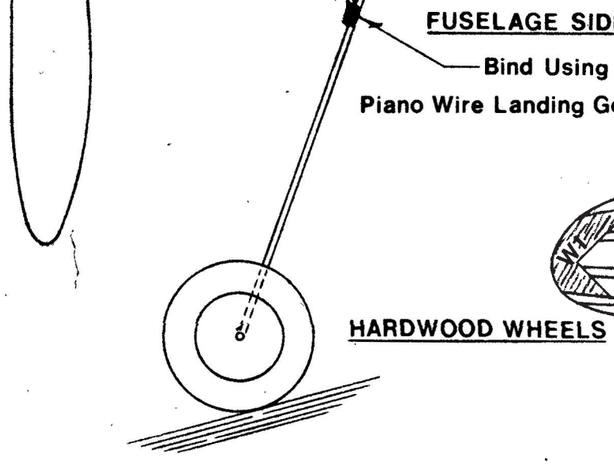
DRAWN BY: Dave Kisling 12/86

FRESNO MODEL "PLANES THAT FLY" AIRPLANE CO. — ESTABLISHED 1986 —



RUDDER

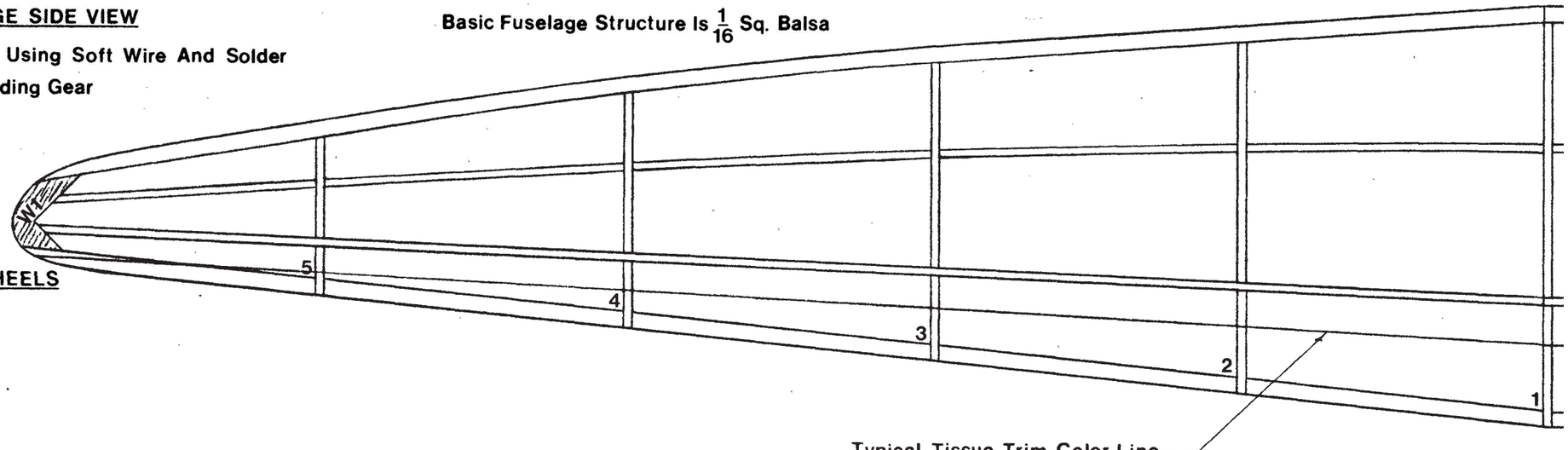


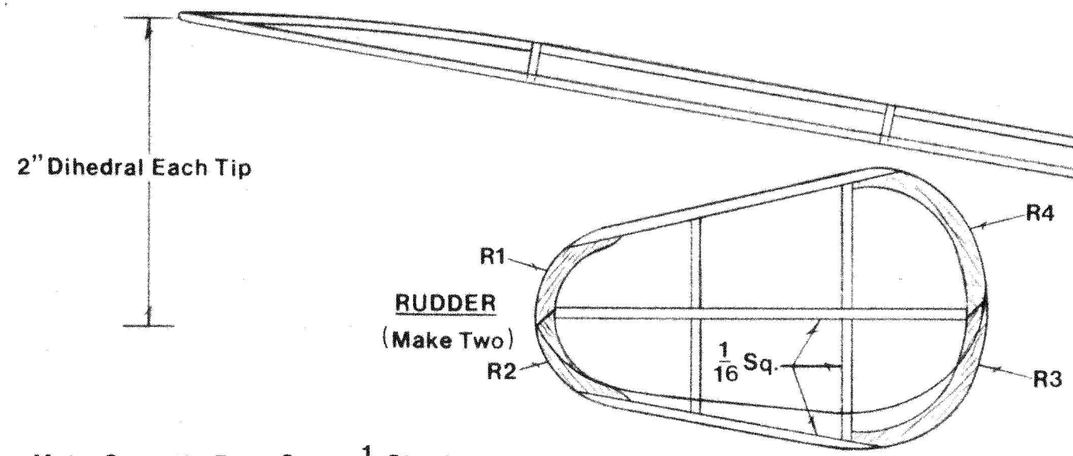


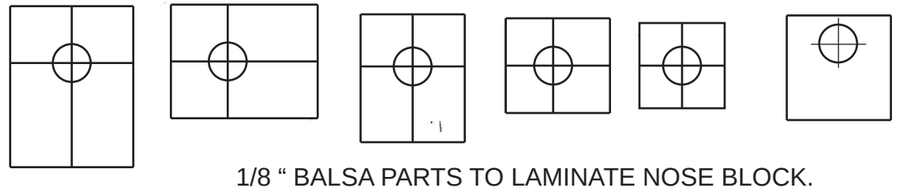
FUSELAGE SIDE VIEW

HARDWOOD WHEELS

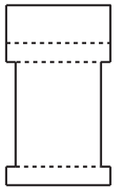
Basic Fuselage Structure Is 1/16 Sq. Balsa







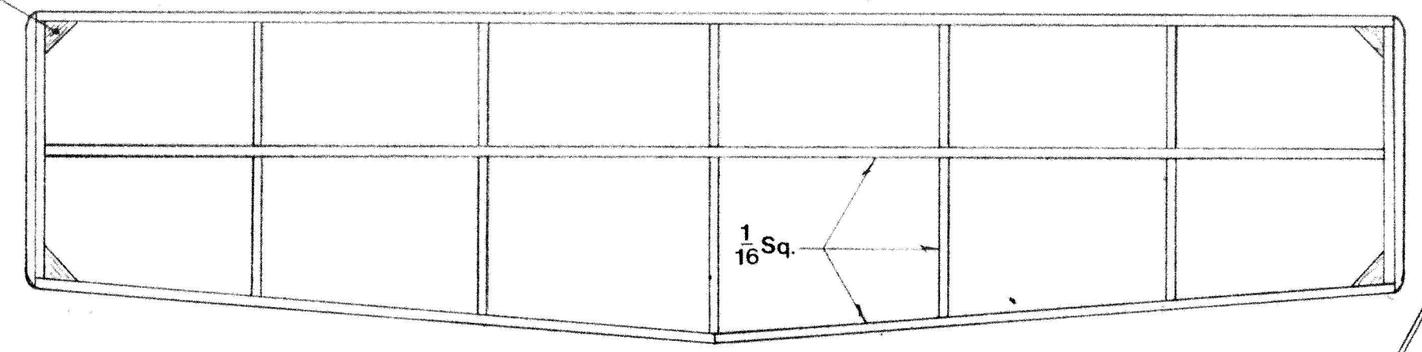
1/8 " BALSA PARTS TO LAMINATE NOSE BLOCK.
ASSEMBLE ON A SECTION OF 0.25 BRASS TUBE.



NOSE
FORMER

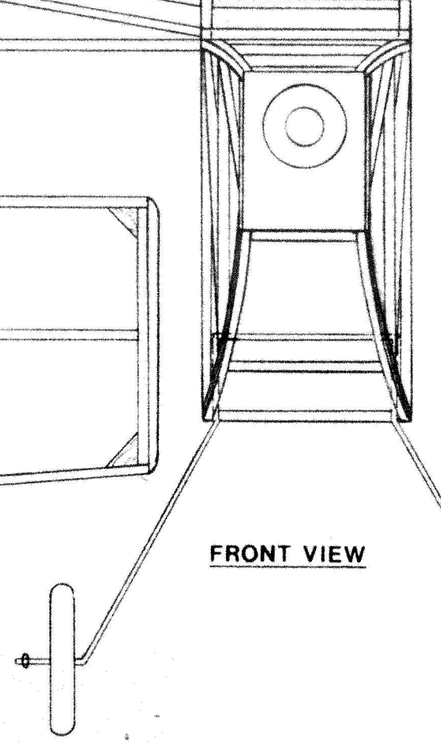
Make Gussetts From Scrap 1/16 Sheet

1/4 x1/16 STRIPS ADDED IN THE BAYS UNDER THE WING TO ACCEPT DOWELS FOR WING HOLD DOWN RUBBER BANDS. EXACT POSITION WILL BE DETERMINED AFTER COVERING TO PLACE THE CG AT 25%.
SEE THE PHOTO ON THE COVER.

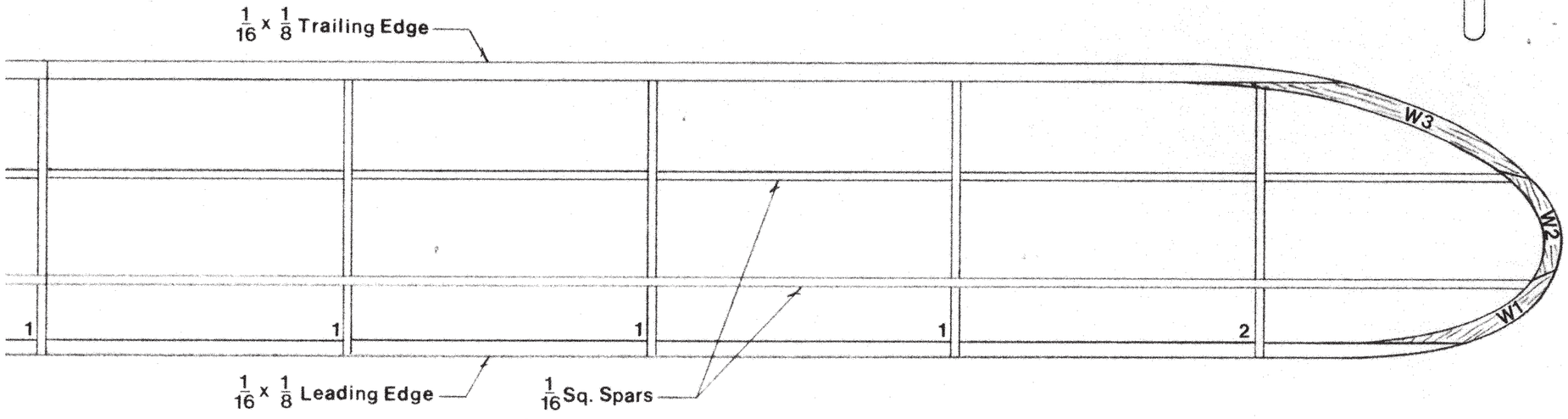


STABILIZER

Leading Edge

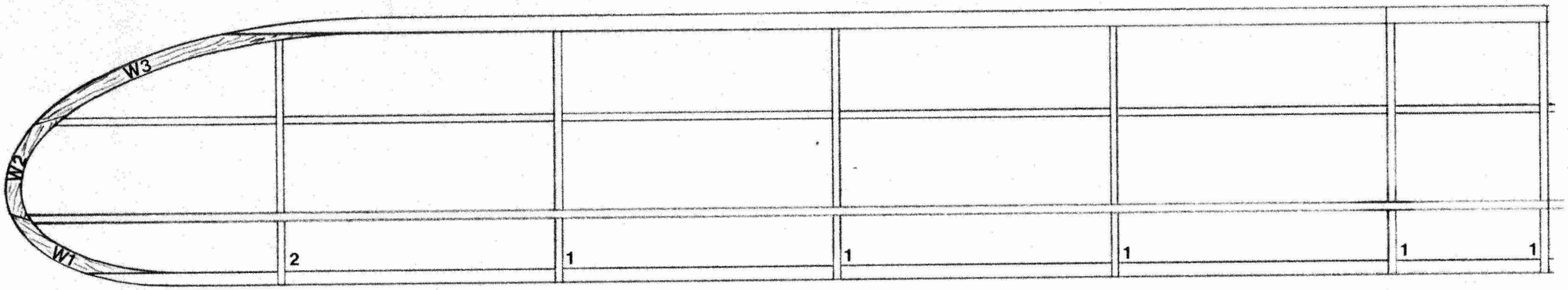


FRONT VIEW



FRESNO MODEL
"PLANES THAT FLY"
AIRPLANE CO.
— ESTABLISHED 1986 —

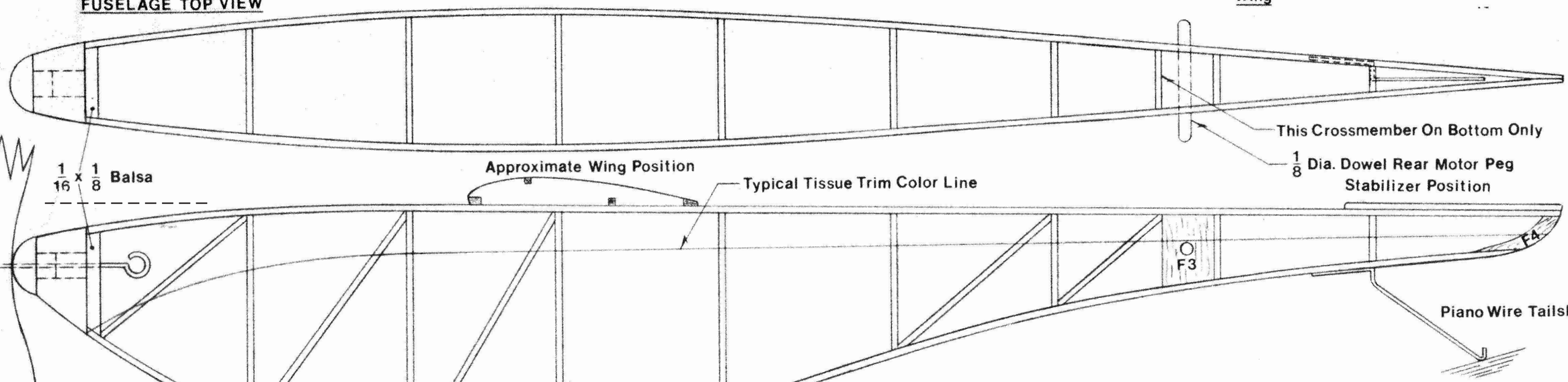
SKY SCRAPER



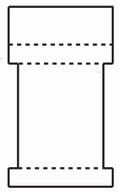
I GRADE THE PRINT WOOD FOR THIS KIT ONLY A " B" SINCE WITH THE THICK LINES I HAD TO FIDDLE A BIT TO GET THE PARTS TO FIT. YOU ARE MUCH BETTER OFF TRACING THE PARTS OFF THE PLAN.

FUSELAGE TOP VIEW

Wing



FUSELAGE SIDE VIEW



Bind Gear To Fuselage Using Thread And Glue

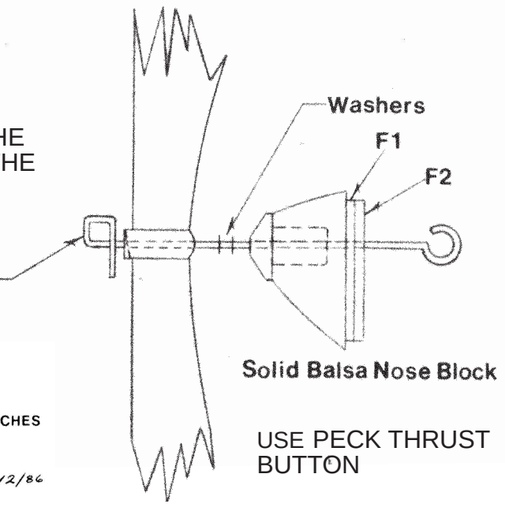
Piano Wire Landing Gear

HARDWOOD WHEELS

THE FUSELAGE HAS A FLAT TOP SO IT IS ASSEMBLED UPSIDE DOWN. THE NOSE FORMER IS CUT FROM 1/8 SHEET. WHEN THE FUSLAGE IS PLLUED IN AND GLUED TO IT, IT ESATABLISHES A RECTANGULAR SECTION AND ACCURATELY POSITIONS THE TOP AND BOTTOM CROSS PIECES. THE LOCATING TAB AT THE TOP IS CUT OFF AFTER ASSEMBLY. AFTER ASSEMBLY CUTS AT THE DOTTED LINES OPEN UP THE NOSE.

FRESNO MODEL AIRPLANE CO.
"PLANES THAT FLY"
— ESTABLISHED 1986 —

WHEN I BUILT THIS MODEL,I ADDED DIAGONALS IN THE BAYS WHERE THEY ARE OMITTED ON THE PLAN. I ALSO SOAKED THE BOTTOM LONGERON IN WINDEX THEN PINNED IT DOWN ON THE PLAN AND LET IT DRY OVER NIGHT. IT KEPT ITS SHAPE.



Typical Free-wheeling Unit

SKY-SCRAPER

WINGSPAN: 25 INCHES

LENGTH: 15 1/2 INCHES

ORIGINAL DESIGN: 1940

DRAWN BY: Dave Kisling 12/86

USE PECK THRUST BUTTON

KUDZU KLASSIC May 17-18 2014

RAEFORD, NC

Saturday May 17 **Sunday May 18**

Mass Launch

WWI	WWII
Navy Scale	Combined Racers
Modern Civil& Military	Golden Age Civil & Military

Judged and Timed

Embryo	2 Bit+1 Old Time Rubber
FAC Jet Catapult	Low Wing Trainer
Dime Scale	No-Cal
Simplified Scale	FAC & Pnut Scale Combined

AMA Events

Classic Towline Glider	P-30
Hand Held Catapult Glider	E-36 Electric
Hand Launch Glider	

CD /CONTACTS:

FAC Events: Stew Meyers stew.meyers@verizon.net 301-365-1749
Dave Mitchell davedge@me.com 202-744-9345

AMA Events: John Diebolt jdiebolt@mindspring.com 919-467-1025

For more information: www.carolinafreeflight.org www.dcmaxecuter.org

Google Map to field: http://goo.gl/maps/vc3R

Take US-401 / Raeford Rd. WEST out of Fayetteville. After the Food Lion shopping center on your left, US-401 divides; bear LEFT (south) on to US-401 Bus. Go 2.6 miles, turn LEFT at Oakdale Gin Rd. Go .4 miles, turn LEFT at Ratley St. Ratley makes a 90 degree bend to the left; at this point the field and dirt access road is on your right.

"SUPER - FLYER"

Instructions

Study the plan carefully before starting construction. Read the instructions thoroughly and check back with the plan often. Lay the plan out flat on a smooth surface such as a drawing board and then cover the plan with a sheet of wax paper to prevent the glue from sticking to the plan. Now insert straight pins about one inch apart, around the outline of. the fuselage.

Construct two fuselage halves by laying out 1/16" square balsa over the area shown in gray on side view of plan. Pin the top and bottom longeron members (see plan) in place first, and then cut the vortical members (see plan) to size and cement In place. Now construct another fuselage side directly over the one you have just completed. Allow the two fuselage sides to dry for 2 or 3 hours before removing them.

Then start joining the two fuselage sides together (see top view) by first inserting the crosspieces (see plan) at the widest portion of fuselage. Now cement and rear and front ends together and then the remaining crosspieces. Cut out the curved formers and cement in proper places as located on plan. (Refer to numbers on plan end bulkheads). Bend landing gear wire to shape, as shown in front view of model. The nose black is shaped to size as shown in the three views of model on plan, then cemented to front of model and sanded smooth with fuselage. The propeller is shaped to the pattern shown on plan. First insert the wire propeller shaft through back of nose plug, through washers, then into propeller and bend end of wire shaft into a "U" shape pressing it back into propeller and cementing it.

The tail surfaces are made in the same manner as were the flat fuselage sides using a piece of wax paper over drawing and pins.

Build wing by laying out leading and trailing edges (marked on plan) and cementing ribs between them but leaving out the two center ribs marked RIB-1. When this is dry raise the ends of the wing with blocks and then insert the two #1-RIBS and cement well.

Cover all parts of the model with tissue before starting final assembly of the airplane. Use your own discretion. in choice of colors on model as due to tissue shortage we can only include colors (or white) that are available at time kit is manufactured. When applying tissue do not stretch the tissue in an attempt to get it on tight or it will be sure to turn out wrinkled and warped. The secret is setting it on evenly. If it appears baggy, it will tighten up when you spray It lightly with water In an atomizer or flit gun. Scrape away the tissue where the stabilizer and rudder joins fuselage so as to cement wood to wood. The wheels are held on with a drop of cement on end of axle. The wing is held in place with a rubber band attached to the 1/16" dowels.

FLYING THE MODEL: Best results are obtained by using a winder. A band drill with a wire hook attached in the chuck can be used satisfactorily. A portion of the tissue must be cut away from rear of fuselage to allow rubber to come out. Launch the model into the wind or a little to the right of it. If it shows any stalling tendencies, move the wing back a little or, if this is not desired, bend the stabilizer down in the back. Reverse this procedure if the model does not climb properly. Control the direction of flight by mean, of the rudder.

We believe .that when you have completed this model you will be satisfied with the results. We would appreciate receiving any reports and photographs you may care to send us upon completion of your model.

SCIENTIFIC MODEL AIRPLANE COMPANY,
NEWARK, N.J., U.S.A.

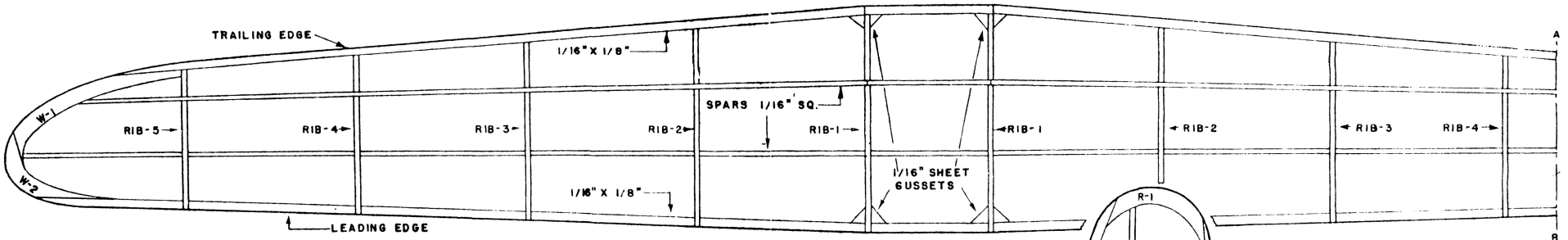
A reduced copy of an original Scientific *Bantam* plan is shown on the opposite page. The typical original Scientific plan had the above instructions or a slight variation of them on the plan. I didn't have the room to put them on the plans in this issue. They also typically had a bones shot, a photo of the completed model, an ad for the rest of the models in the series, and some ads for other Scientific products.
The Fresno reproduction kits are void of these embellishments. Fresno also shows a 6" prop on the plan and supplied a 6" Peck prop in the kit. The original Scientific plan for the *Bantam* featured a 7.5" balsa prop. Needless to say, the models will fly better with the larger prop.

Check out http://volareproducts.com/

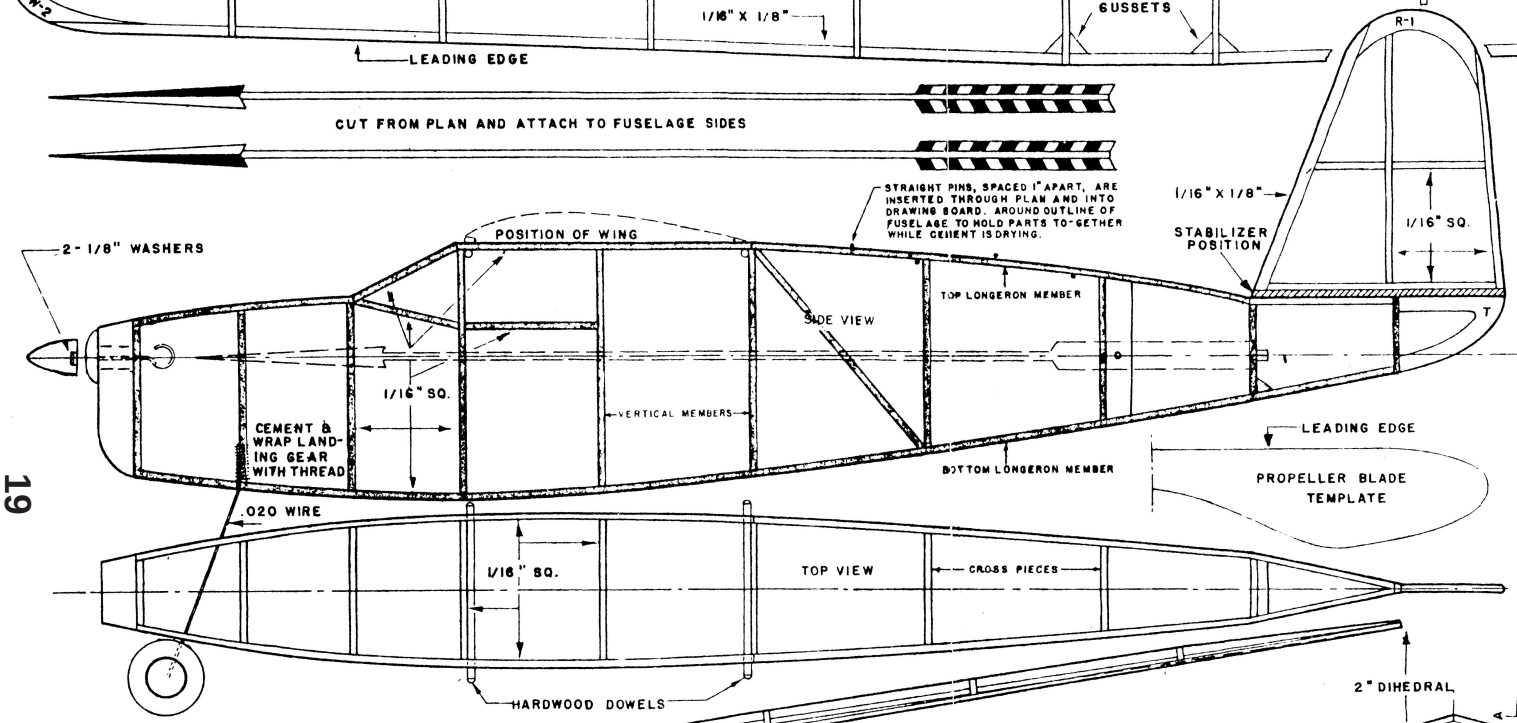
George Bredehoft purchased Shorty's Basement and now Superior Props. He has jumped in with both feet and has a very wide array of Free Flight modeling products and kits. Even more special tools! - Harlan rubber strippers , Jones balsa strippers, Rees winders with counters. It seems he has all the good stuff.

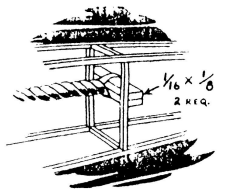
Torque meter update:

I continue to refine the mechanics and software I am at the stage where I can do some real research into rubber motor behavior and evaluate batches of rubber.

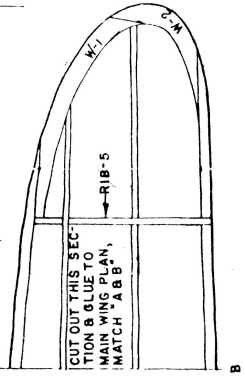


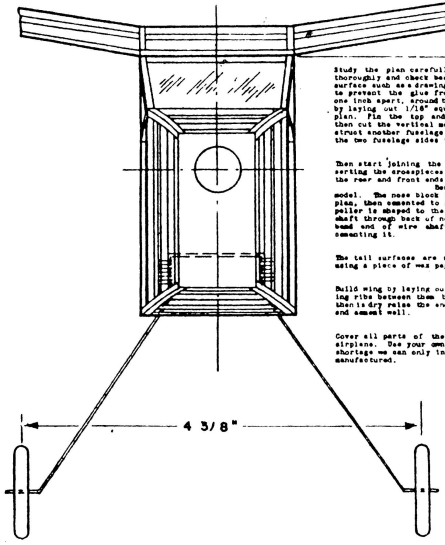
CUT FROM PLAN AND ATTACH TO FUSELAGE SIDES





ATTACHMENT OF RUBBER AT REAR





"SUPER – FLYER"

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FLYING THE MODEL. Best results are obtained by using a glider. A hand drill with a wire hook attached in the chuck can be used satisfactorily. A portion of the tissue must be cut away from rear of fuselage to allow rubber to come out. Launch the model into the wind or a little to the right of it. If it shows any stalling tendencies, move the wing back a little or, if this is not desired, bend the stabilizer down in the back. Reverse this procedure if the model does not climb properly. Control the direction of flight by means of the rudder.

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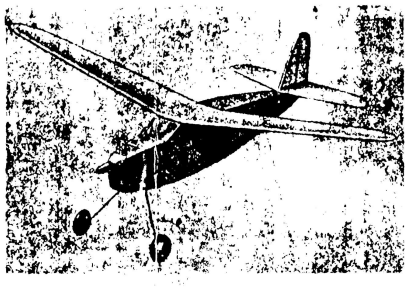

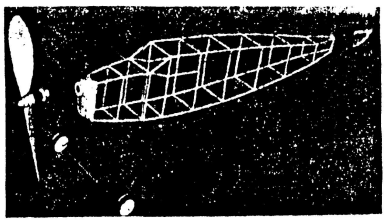

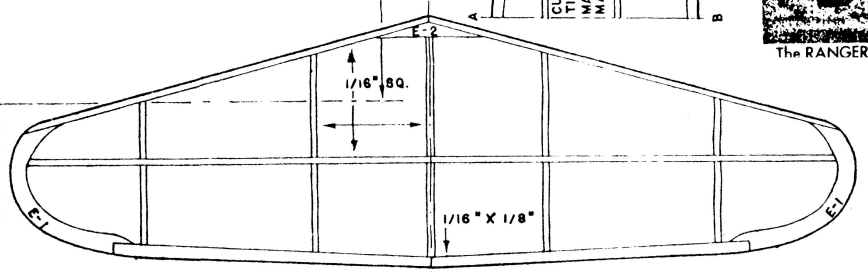

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MAJOR	SF	25	35	POST WAR			
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