

# MAX FAX



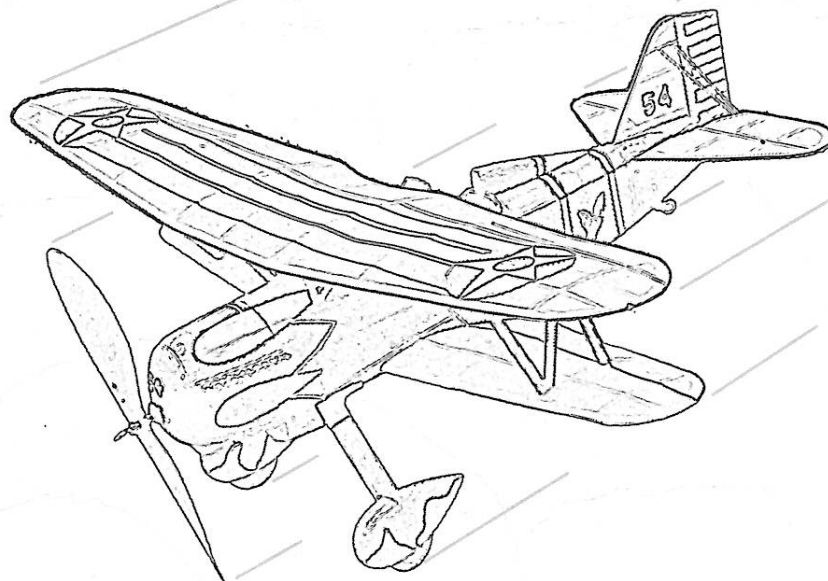
Journal of the D. C. Maxcuters

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

Editor: Dan Driscoll

NOV/DEC 2003

## SCIENTIFIC 20" HI-FLYERS



### COMING ATTRACTIONS.

- DECEMBER 7, 2003 MAXECUTER BANQUET -- INFO -- PAUL SPREIREGEN -- 202-337-2887  
EMAIL -- paularch@starpower.net
- DECEMBER 14, 2003 A WRIGHT FLYER FUNFLY AT COMSAT SUNDAY AFTERNOON 3 - 6 PM  
PLEASE PARK ON ROAD BY POST OFFICE (SEE PREVIOUS ISSUE)
- JANUARY 4, 2004 MECA COLLECTO SUNDAY 12 NOON -4:30 PM SPONSORED BY SAM CHAPTER 10 CAAMA  
AT TYSONS-PIMMIT REGIONAL LIBRARY 7884 LEESBURG PIKE, FALLS CHURCH, VIRGINIA -  
FOR MORE INFO CONTACT MARTY SCHINDLER (703) 938-2975
- JANUARY 10, 2004 NBM DELTA DART SESSION for JUNIOR GIRL SCOUTS SATURDAY 10AM TO 1 PM
- JANUARY 10, 2004 NBM DELTA DART SESSION for CUB SCOUT WEBELOS SATURDAY 2PM TO 5 PM  
VOLUNTEER INSTRUCTORS WARMLY WELCOMED FOR THESE AND ALL DELTA DART SESSIONS
- JANUARY 18, 2004 NATIONAL BUILDING MUSEUM FLYING SUNDAY 10AM - 5 PM  
(Martin Luther King, Jr. weekend)
- JANUARY 31, 2004 DC MAXECUTER FLEAMARKET AT COLLEGE PARK AIRPORT 9:00 AM until 1:00PM  
Bring all your good stuff Saturday for recycling!
- FEBRUARY 28, 2004 NBM FAMILY DELTA DART SESSION (8 YEARS AND OLDER) SAT 10 AM TO 1 PM
- FEBRUARY 28, 2004 NBM DELTA DART SESSION for CUB SCOUT WEBELOS SATURDAY 2PM TO 5 PM
- MARCH 7, 2004 NATIONAL BUILDING MUSEUM FLYING SUNDAY 10AM - 4PM
- MARCH 20, 2004 NBM DELTA DART SESSION for JUNIOR GIRL SCOUTS SATURDAY 10AM TO 1 PM
- MARCH 20, 2004 NBM DELTA DART SESSION for CUB SCOUT WEBELOS 2PM TO 5 PM
- MARCH 28 2004 MECA COLLECTO SUNDAY 12 NOON -4:30 PM SPONSORED BY SAM CHAPTER 10 CAAMA  
AT TYSONS-PIMMIT REGIONAL LIBRARY 7884 LEESBURG PIKE, FALLS CHURCH, VIRGINIA -  
FOR MORE INFO CONTACT MARTY SCHINDLER (703) 938-2975

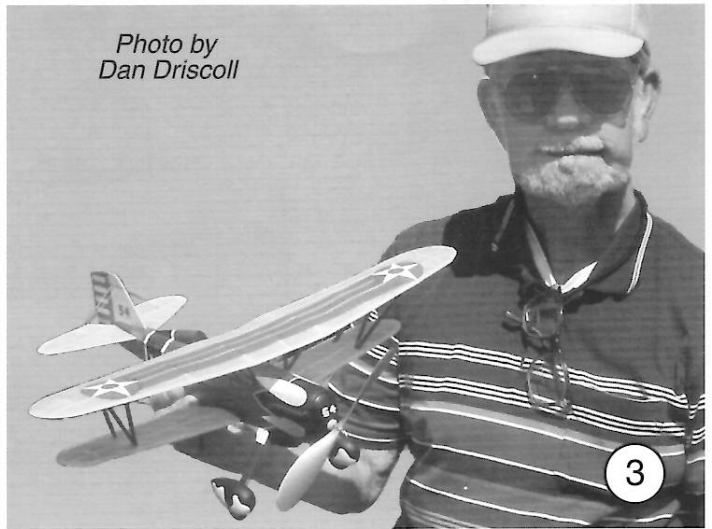


Photo by Dan Driscoll

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3



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5



6



7

2

**Photo Page**  
Tom Schmitt

1. Scientific HI-FLYER kit box c. 1937. Color was dark red-orange, dark blue, and white.
2. A great rendition of the HI-FLYER Curtiss XF13C-1 by Don Srull.
3. Claude Powell with his high flying HI-FLYER Curtiss P-6E Hawk seen at Brainbuster FAC meet.
4. Our good friend Doug Buchanan, who sadly is no longer with us, and his HI-FLYER XF13C-1.
5. Marv Yoder also left us a long time ago and flies with the Angels. He also built the HI-FLYER Curtiss.
6. Another HI-FLYER that is modeled often is the Mureaux seen here with Bill Ceresa.
7. Don Srull holds his version of the HI-FLYER Fokker DVII.

Dan Driscoll

In this issue, we look at the Scientific line of 20" Hi-Flyers from the 1930's, some color and marking options for the popular Comet Arado AR-96, and some miscellaneous other items.

Thanks to Hurst Bowers for making his Hi-Flyer kits available, Stew Meyers for scanning and rearranging the plans and patterns, and Tom Schmitt for scouring the Maxecuter photo archives for pictures of built Hi-Flyers.

National Building Museum Update

We had our first fun-fly at the National Building Museum (NBM) this season on November 9, 2003. We had a good turnout for the free flight area and a modest group for the RC area. The schedule for the rest of this season's activities – flying and Scout programs appears on the cover of this issue.

We will probably drop two events due to lack of interest – Scale Biplanes and FAC Old-Time Kit Scale. Our first attempt at a timed event for Pennyplane produced four entrants and was won by John Zselezcky with an outstanding single flight of 9:02. Amazing the model could fly that long without hitting something in the narrow confines of the hall.

In the past we have had some problems with children running onto the flying area. It became a big problem on November 9, and at future fun-fly's we will cordon off the flying area as we have been doing for the RC area.

Also, we need to be more cognizant of safety. So far, no person or the historic building has been injured by our activities. Many of us use the clutch or bail type free-wheel device on our rubber models. This device leaves a straight shaft extending beyond the front of the prop, and if not properly capped, could cause injury. Please make sure your prop shafts are sufficiently blunted.

NBM Fun-Fly Results – Nov. 9, 2003

Mass Launch:

<u>Bostonian</u> (8 entrants) 1. R. Summers Bostard	<u>P-Nut</u> (11 entrants) 1. M. Moscow Hosler 2. D. Driscoll OH-7 3. E. Zapolski Chamberm.
<u>WWII Profile</u> (8 entrants) 1. S. Fujikawa Dauntless 2. D. Mitchell FW-190A 3. T. Slattery FW-190D	<u>Phan. Flash</u> (12 entrants) 1. S. Fujikawa 2. S. Meyers 3. D. Mitchell
<u>Dime Scale</u> (5 entrants) 1. S. Meyers Luscomb 2. R. Gillis Harlow 3. W. Bell Fairchild 24	<u>Scale Biplanes</u> Not Flown – Insufficient entrants.

Timed Events:

<u>Pennyplane</u> (4 entrants) 1. J. Zselezcky 9:02 2. J. Appling 7:44 3. E. Zapolski 3:11	<u>FAC OT Kit Scale</u> Not Flown – Insufficient entrants
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# THE FAMOUS LINE OF SCIENTIFIC HI-FLYERS

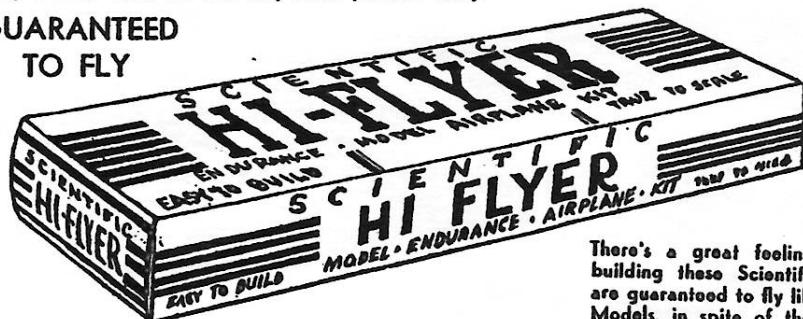


20" WINGSPAN! GUARANTEED TO FLY!

THESE are the popular "Hi-Flyers" that have been built by thousands of enthusiastic model fans. Every design has been tested, corrected, and perfected, before it was put out—the result is the most perfect models that can be made in this type of construction. Each kit contains everything needed to build the realistic model.

If you've never built a Hi-Flyer model, don't postpone the thrill another day. It's model airplane building of the highest type, yet planned and simplified to an amazing degree. Any model listed here is an exceptional value—send your order today for the ones you want—we'll see that they reach you in a hurry.

GUARANTEED  
TO FLY



50¢

EACH POSTPAID  
AT YOUR DEALER  
OR ORDER DIRECT

There's a great feeling of satisfaction in building these Scientific HI-FLYERS. They are guaranteed to fly like all other Scientific Models, in spite of the extreme low price of 50c.

## EACH HI-FLYER KIT CONTAINS:

Finished drilled propeller.  
2 sheets colored tissue.  
Washers  
Finished wire fittings.  
Rubber motor.  
All balsa strips cut to size.

Full size plans and explicit instructions.  
Finished drilled wheels.  
Bottle banana oil.  
Bottle cement.  
Finished drilled nose plug.  
All ribs, bulkheads, fairings, printed on balsa.

(1935 Scientific catalog)

## Scientific 20" HI-FLYERS

*Dan Driscoll*

The Scientific Model Airplane Company of Newark, NJ, began producing a line of eight new fifty-cent 20" wing span model airplanes in mid-1933. The line was named Hi-Flyers, and the earliest advertisement I can find appears in the August 1933 issue of Model Airplane News (MAN). According to the article on the Scientific Model Airplane Company by Walt Musciano in the December 1998 issue of The KAPA Collector, John Frisoli, the company owner, designed the models.

The models were fairly unique at the time in that the construction was simple, very light, and all balsa – no bamboo. They were also pretty accurate in that they looked like the airplane they were supposed to represent. The plans also showed colors and markings (not always accurate).

Even at the Depression-era high price of fifty cents, the kits were apparently popular, and the line expanded in subsequent years. Eight new models were introduced in 1934, eight more in 1935, and the final four in 1937 for a total of 28 different models. (The final four models were completely different from the earlier models in that they were much



# Announcing:

## EIGHT NEW SCIENTIFIC KITS

These Kits Were Made To Sell For \$1.00

Every Kit Contains:

- 2 sheets colored tissue
- Bottle banana oil
- Tube cement
- Washers
- Rubber motor
- All balsa strips cut to size
- Full size plans and explicit instructions.

# 50c

EACH POSTPAID

### 20" WINGSPAN

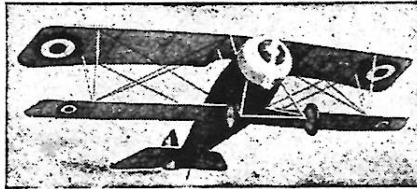
more detailed and construction was much more complex. These models may not have been designed by John Frisoli. There was also a line of \$1.00 DeLuxe Hi-Flyers at 25" which are not included in this article.)

Toward the end of the 1930's, sales appear to have fallen off or perhaps Scientific was heading in a new direction with gas models. The 1941 Scientific catalog shows only nine of the models, and they aren't referred to as Hi-Flyers. I can find no indication that the line was continued after 1941.

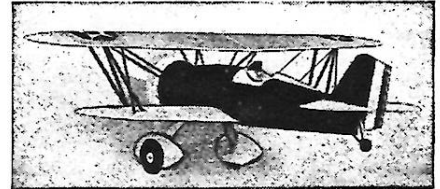
These designs have remained popular with rubber scale modelers. Golden Age Reproductions has had 15 of the plans, complete with patterns, in their catalog since the 1970's. They also produce a very good kit of the Fokker D-VIII. Penn Valley Hobby Center also lists a kit for the Bellanca Pacemaker. Information for ordering plans and kits from these suppliers is elsewhere in this issue.

Several of the designs have proved to be consistent winners. The Fokker d-VII has been a regular winner in WWI events for many years. Its popularity comes, no doubt, from the availability of the excellent Golden Age kit. The Curtiss XF-13C1 and Mureaux C1 have also proven themselves. Claude Powell's P-6E is a beautiful model that flies as well as it looks.

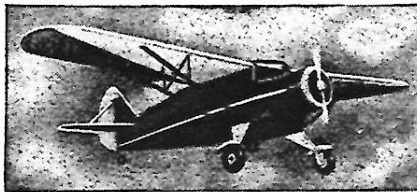
Construction of some of the designs would require varying degrees of modification to bring them in line with current practices. In most instances, the original designs show two



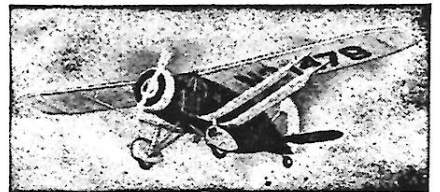
NIEUPORT "SCOUT" 20" 50c p.p.



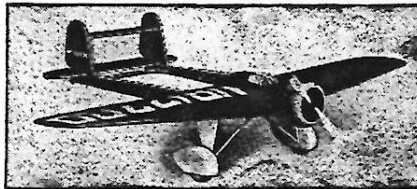
CURTISS "GOSHAWK" 20" 50c p.p.



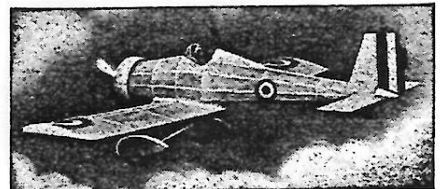
STINSON "RELIANT" 20" 50c p.p.



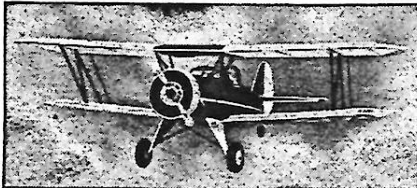
BELLANCA "Pacemaker" 20" 50c p.p.



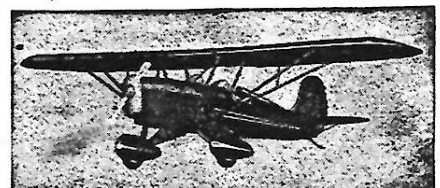
VANCE "FLYING WING" 20" 50c p.p.



VICKERS "JOCKEY" 20" 50c p.p.



WACO MODEL "A" 20" 50c p.p.



FAIRCHILD "22"-20" 50c p.p.

## Scientific "Hi-Grade" Supplies

### NOTICE

Scientific Balsa strips are not ripped or knife cut. All Scientific balsa is cut on high-speed automatic circular saws assuring you of true-cut balsa sticks with all four sides smooth.

SCIENTIFIC



- |                      |                         |     |
|----------------------|-------------------------|-----|
| Scientific Balsa     | 1/4 x 2                 | 10c |
| 36" lengths          | 1/4 x 2                 | 15c |
| 1/16x1/16, 10 for 5c | 1/64 x 2 x 18"          | 5c  |
| 1/16x1/8, 7 for 5c   |                         |     |
| 1/16x3/16, 6 for 7c  | Propeller Blocks        |     |
| 1/16x1/4, 6 for 7c   | 3/8 x 1/2 x 5           | 1c  |
| 1/32x3/32, 6 for 5c  | 1/2 x 3/4 x 5, 3 for 4c |     |
| 1/8 x 1/8, 6 for 5c  | 1/2 x 1/2 x 6, 3 for 5c |     |
| 1/8 x 3/16, 6 for 8c | 3/8 x 1/2 x 7 1/2       | 3c  |
| 1/8 x 1/4, 6 for 10c | 3/8 x 1 x 8, 2 for 5c   |     |
| 1/8 x 3/8, 5 for 10c | 1/2 x 1 1/2 x 11        | 7c  |
| 1/16x3/16, 5 for 10c | 1 x 1 1/2 x 12          | 9c  |
| 1/16x1/4, 5 for 10c  | Dowels                  |     |
| 1/4 x 1/4, 6 for 15c | 1/8" x 36", 2 for 5c    |     |
| 1/4 x 1, 3 for 15c   | 1/32", 1/16", 3/32"     | 10c |
| 3/8 x 3/8, 5 for 15c | Reed                    |     |
| 1/2 x 1/2, 3 for 20c | 1/8", 6 ft.             | 5c  |
| 36" Planks           | Banana Oil or Acetone   |     |
| 1x1 1/2, .20         | Large 2 oz. can, 10c    |     |
| 1x2, .25             | Per pt. 60c             |     |
| 1x3, .30             | Scientific Cement       |     |
| 1x6, .50             | 1 oz. bottle 10c        |     |
|                      | Large 2 oz. can 16c     |     |
|                      | 4 oz. bottle 25c        |     |
|                      | 5 oz. can 30c           |     |
|                      | Seal Model Tissue       |     |
|                      | 2 for 5c; doz. 25c      |     |
|                      | Camel Hair Brushes      |     |
|                      | 6c Each 5c              |     |

- |  |   |
|--|---|
| Jap Silk Tissue  | Celluloid Wheels                          |
| Large sheet 8c   | In all colors.                            |
| 2 for 15c  | 3/8" diam. —pr. 6c                        |
| Colored Jap Tissue   | 1" diam. —pr. 8c                          |
| Red, blue, yellow, orange, brown, green.                     | 1 1/2" diam. —pr. 11c                     |
| 5c. 6 for 25c.   | 1 3/4" diam. —pr. 16c                     |
| Jap Fine Tissue  | Propeller Shafts or Rear Hooks            |
| 5c; 6 for 25c  | 4 for 5c                                  |
| Wood Veneer Paper  | Featherweight Alum. Cowlings              |
| Sheet 20" x 30", 7c  | Closed and open face                      |
| 1 x 1 1/2 x 12 9c  | 1 1/2" diam. 13c                          |
| Thrust Bearings  | 2" diam. 20c                              |
| Large or small, each 2c                                      | 2 1/2" diam. 25c                          |
| Pinhole Washers  | 3" diam. 30c                              |
| 3/8" diam. 40c   | 3 1/2" diam. 40c                          |
| 1/4" or 1/2" Per doz. 1 1/2c                                 | Alum. Drag Rings                          |
| Bushings   | 1 1/2" diam. 18c                          |
| Per doz. 4c  | 2" diam. 20c                              |
| Musle Wire (Not Coiled)                                      | 2 1/2" diam. 25c                          |
| .010", .014", .017", .020", .024", .028", and .034" 3 ft. 1c | 3" diam. 30c                              |
| .037" and .040" 3 ft. for 2c                                 | 3 1/2" diam. 35c                          |
| Hooster Compressed Air Motor                                 | Featherweight Alum. inum Wheels           |
| Complete kit 99c   | per pr.                                   |
| Balsa Wood Wheels  | 1" diam. 10c                              |
| 3/32" flat, 1/8" flat, 3/16" flat, 3 ft. 1c                  | 1 1/2" diam. 15c                          |
| Celluloid Pants  | Scientific Rubber                         |
| 1 1/4" diam. Thin, 4c  | 1/16" sq. 1/16" flat, 1/8" flat, 3 ft. 1c |
| 1 1/2" diam. Thin, 6c  | 3/16" flat, 3 ft. 1c                      |
| 1 3/4" diam. Bal., 6c  | Small pants for 3/4" or 1" wheels.        |
| 1 1/2" diam. Bal., 6c  |   |

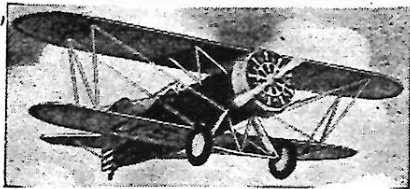
HOW TO ORDER: \$1.50. Over \$1.50 add 10%. No order sent C.O.D.

MODEL AIRPLANE CO. 277 HALSEY ST., Newark, N. J. Dept. N-8

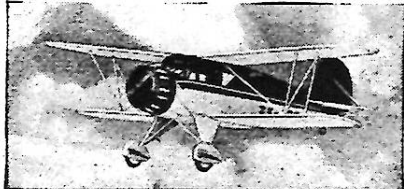
**SCIENTIFIC**

**8 NEW  
"HI-FLYERS"  
20" WINGSPAN  
50c each POST PAID**

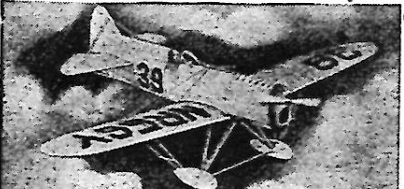
**GUARANTEED TO FLY**



20" BOEING PURSUIT F4B-4 50c postpaid



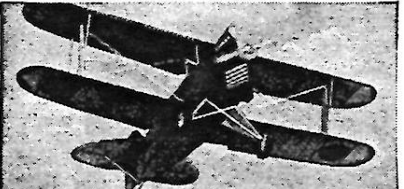
20" WACO Y.K.C. 50c Postpaid



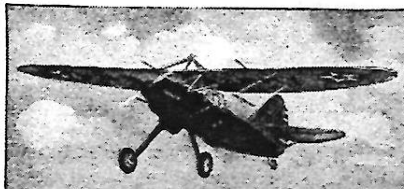
20" HOWARD "IKE" 50c Postpaid



20" FRENCH MUREAUX CI PURSUIT 50c Postpaid



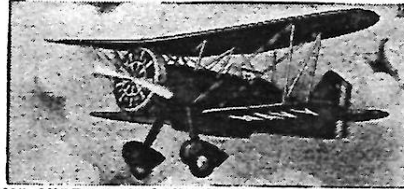
20" JAPANESE KAWASAKI FIGHTER. 50c Postpaid



20" ARMY DOUGLAS Y10-43 50c Postpaid



20" FAIRCHILD CABIN 50c Postpaid



20" CURTISS CYCLONE HAWK 50c Postpaid

(Model Airplane News - Dec. 1934)


piece stabs with butt joints to the fuselage. This is also true with the wing of cabin monoplanes and the lower wings of biplanes. These would work much better as one piece structures passing through the fuselage. The tail feathers of most designs would also need to be beefed up with additional structure.

Our intention is to present in Max-Fax full size plans and patterns for Hi-Flyers that are not available from Golden Age Reproductions or other sources. Maxecuter Hurst Bowers has several original Hi-Flyer kits, I have one kit, and FAC CINC Lin Reichel has provided several plans. Right now we have six of the 13 models that are not otherwise available. In this issue are two Fairchild plans from Hurst's kits. We will run the other plans in future issues.

The plans will be presented full size, but reformatted to fit our pages. Stew Meyers has done a superb job of scanning the plans and rearranging them. Each plan will be complete with patterns and instructions, and the complete plan, as originally produced, will also be presented in much reduced size.

A chart elsewhere in this issue shows the entire line by year of introduction. This chart also shows plans/kit availability and future Max-Fax plans. If anyone has plans or patterns for the Scientific Hi-Flyers we are still missing, please contact us. We will give you full credit for anything we put in the newsletter.

**HOOB GIBSON** *Selects...*  
**SCIENTIFIC KITS**



—as Official Prizes in the Nation-wide Best Tooth Paste Jingle Contest, in connection with the First Division Production \* "Sunset Range" starring Hoot Gibson \*

*and says—*  
*"They're Swell Flyers."*

Watch your local Motion Picture Theatre for Complete Details. Anyone is eligible for these valuable prizes.

(Model Airplane News - Jul. 1935)

# Goin' to town!

## WITH EIGHT NEW SCIENTIFIC HI-FLYERS

Scientific Hi-Flyers are going places these days. Wherever you ask you'll find that Hi-Flyers are winning new contests every day. . . . breezing right along to greater popularity.

featuring the exclusive Scientific

**Bridge-Type Landing Gear**

**20" WING SPAN!  
GUARANTEED TO FLY!**

Each new Hi-Flyer kit contains: Finished drilled prop, finished balsa cowl (where needed), finished drilled wheels, 2 sheets colored tissue, bottle banana oil and cement, washers, finished nose plug, finished wire fittings, all ribs, bulkheads, fairings, etc., printed on balsa, rubber motor, all balsa strips cut to size, colored insignia sheet, full size plans and explicit instructions.

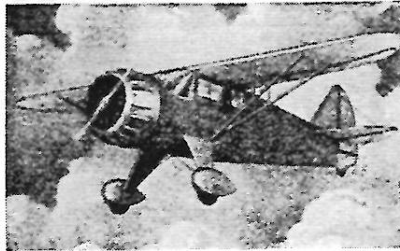
**ONLY  
50c  
EACH  
POSTPAID**

**AT YOUR  
DEALER OR  
ORDER DIRECT**

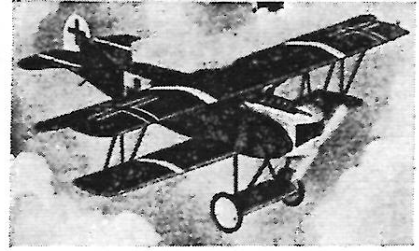
### GUARANTEE

**WE GUARANTEE** Scientific Hi-Flyer kits to contain the finest balsa wood, cement, tissue, etc., that can be obtained at any price.

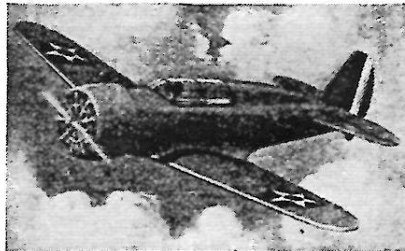
*Scientific Model Airplane Co.*



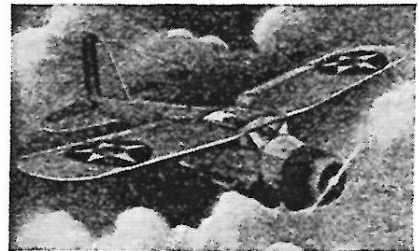
**BEN HOWARD'S "MR. MULLIGAN"**  
The world's highest speed commercial ship. Carries four people at the amazing speed of 314 m. p. h. Flies at high speed for long distances. Finished cowl in kit. 50c postpaid



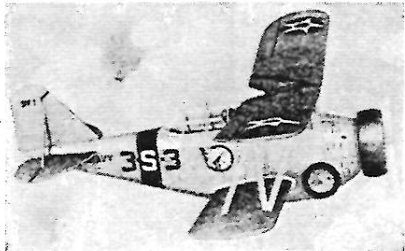
**FOKKER D-7**  
Not only is this a beautiful model but one that is chock-full of performance. Exciting and easy to build—thrilling to fly. 50c postpaid



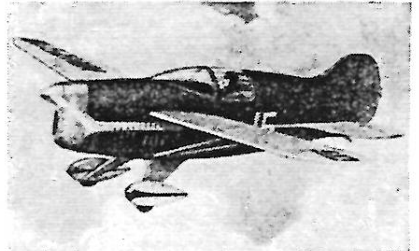
**BOEING FIGHTER XF13C-1**  
The most modern pursuit model of a low wing design. Still on the government's secret list this plane is estimated to have a speed of approximately 300 m. p. h. 50c postpaid



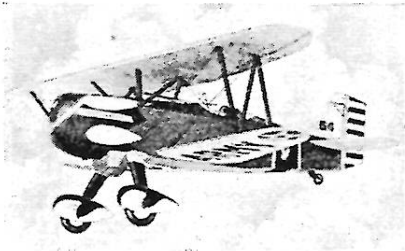
**CURTISS FIGHTER XF13C-1**  
This latest demon of the air is capable of tremendous speed. You will be greatly pleased with the beauty and performance of the model. Finished cowl in kit. 50c postpaid



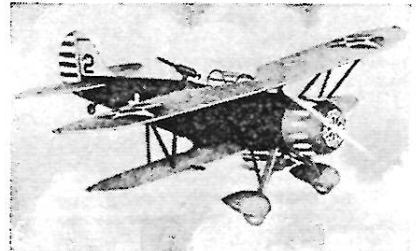
**GRUMMAN FIGHTER SF-1**  
A beauty in every respect. Turned cowl with many machined parts. You will agree that it is the best kit you have ever purchased. 50c postpaid



**ART CHESTER RACER**  
An easy to build model that flies and climbs beautifully. The kit is complete in every respect. You will be more than satisfied with it. 50c postpaid



**CURTISS P6E ARMY HAWK**  
The plane which needs no introduction as it has already made an excellent name for itself in Army work. Beautiful flying model. 50c postpaid



**WACO MODEL "D" MILITARY**  
Here it is—the Army's new streamlined fighter. A detailed model that flies far and fast. The kit contains a finished balsa cowl and other machined parts. 50c postpaid

## SCIENTIFIC MODEL AIRPLANE CO.

218-220 U9 MARKET ST., NEWARK, N. J.

In England H. & S. Norman, 46 Derby Rd., Kirkhams, Prestwich, Lancs.

20-pg. 1935 Catalog FREE: Send 3c Stamp for postage. DEALERS: Write for discounts



**You'll Rave About Them! You'll Praise Them to the Skies!  
You'll Marvel at Their Realism and Performance!**

**4 DeLuxe 25-Inch  
HI-FLYERS**

Bigger, stronger, more durable, and better flyers. For the utmost in a kit, make your first and last choice, Scientific's De Luxe HI-FLYERS. Whether it be a gift for yourself or some other model builder.

**\$1**

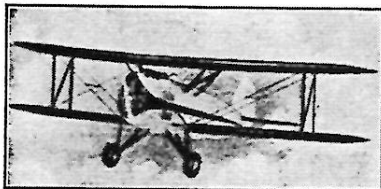
EACH  
POSTPAID

**GUARANTEED  
TO FLY 600 FT.**



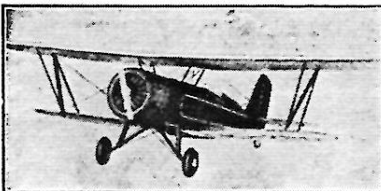
**25" NEW MONOCOUCPE, MODEL 145**

25" Model of a great flier. A beautiful model that will startle you with its amazing performance. Kit complete with true-to-scale, full size plans. \$1.00 postpaid.



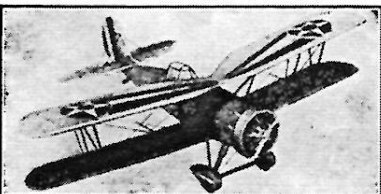
**25" GREAT LAKES SPORT TRAINER**

Popular sport and school plans used for instruction purposes. A snappy model that flies marvelously. Build one now from our full size plans. Authentic, accurate. \$1.00 postpaid.



**25" STEARMAN, MODEL 81**

Reproduced in minute detail. Picture taken from a photo of the actual model. This 25" Stearman is a beauty! Complete! Simple to build from our full size plans. \$1.00 postpaid.



**25" VOUGHT CORSAIR, MODEL V80**

25" Model of a well-known single seat fighting plane. A perfect replica—a treat to build—a thrill to fly. Kit complete and easy to construct from our detailed full size plans. \$1.00 postpaid.

**NEW 1935 3-COLOR  
CATALOG!**

Hot off the press! 20 pages crammed full of photographs and information on our entire line of model airplane kits and supplies. Send 5c stamps or coin right now to cover mailing and handling costs.

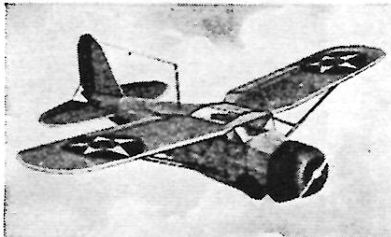
**EIGHT NEW 20" HI-FLYERS**  
featuring the exclusive Scientific  
**BRIDGE-TYPE LANDING GEAR**

**50c**

EACH  
POSTPAID

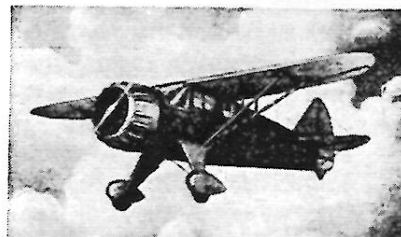
Each New HI-FLYER KIT contains—  
Finished Drilled Prop, Finished Balsa Cowling (where needed), Finished Drilled Wheels, 2 Sheets Colored Tissue, Washers, Bottle Banana Oil, Bottle Cement, Finished Nose Plug, Finished Wire Fittings, All Ribs, Bulkheads, Fairings, etc., printed on Balsa, Rubber Motor, All Balsa Strips cut to size, Colored Insignia Sheet, Full Size Plans and Explicit Instructions. *Eight Sensational Gift Values!*

**EVERY MODEL A GUARANTEED FLYER**



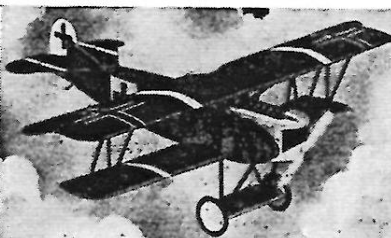
**CURTISS FIGHTER XF13C-1**

This latest demon of the air is capable of tremendous speed. You will be greatly pleased with the beauty and performance of the model. Finished cowl in kit. 50c postpaid.



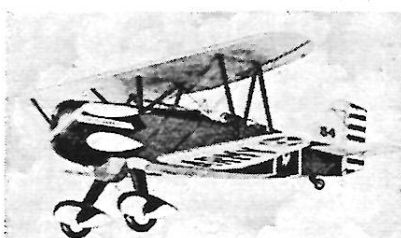
**20" BENNY HOWARD'S "MR. MULLIGAN"**

World's highest speed commercial ship. Carries four people at 314 m.p.h. The ship that won the big event at the 5th Annual Air Races. Kit includes finished cowl. 50c postpaid.



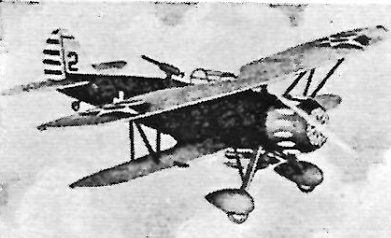
**FOKKER D-7**

Not only is this a beautiful model but one that is chock-full of performance. Exciting and easy to build—thrilling to fly. 50c postpaid.



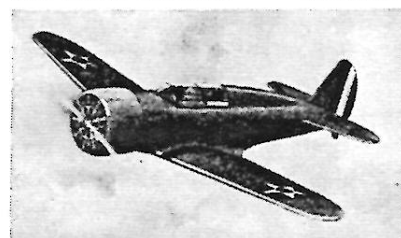
**CURTISS P6E ARMY HAWK**

Has made an excellent name for itself in Army work. Beautiful flying model. 50c postpaid.



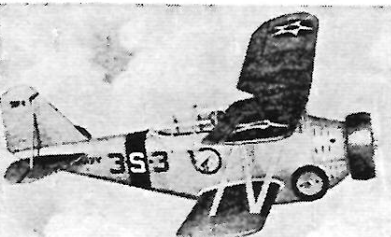
**WACO MODEL "D" MILITARY**

Army's new streamlined fighter. Flies far and fast. Contains finished balsa cowl and other machined parts. 50c postpaid.



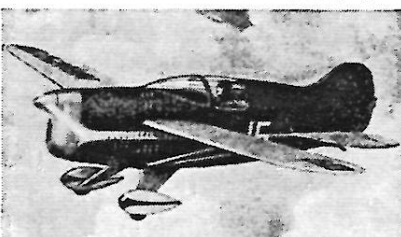
**BOEING FIGHTER XF7B-1**

The most modern pursuit model of a low wing design. Still on the government's secret list this plane is estimated to have a speed of approximately 300 m. p. h. 50c postpaid.



**20" GRUMMAN FIGHTER SF-1**

A beauty to look at and an equally beautiful flyer. Kit includes turned cowl with many machined parts. Complete. 50c postpaid.



**20" ART CHESTER RACER**

A model that is simple to build. A swell flier. Kit is complete to last detail. 50c postpaid.

See Scientific's Sensational Announcement on Page 27 of this Book

**SCIENTIFIC  
MODEL AIRPLANE CO.**

**218-220 M-1 Market St., Newark, N. J.**

**AN IMPORTANT MESSAGE  
TO DEALERS**

Scientific kits are meeting with popular favor everywhere. Dealers want to handle them because of their greater sales possibilities. Write (on your letterhead) for our dealer's discounts today.



# SCIENTIFIC MODEL AIRPLANE CO.

"One of America's Greatest Supply Houses"

NEWARK, N. J.

## FAIRCHILD "22"

Study carefully all details and observe all notations on plans before starting to work.

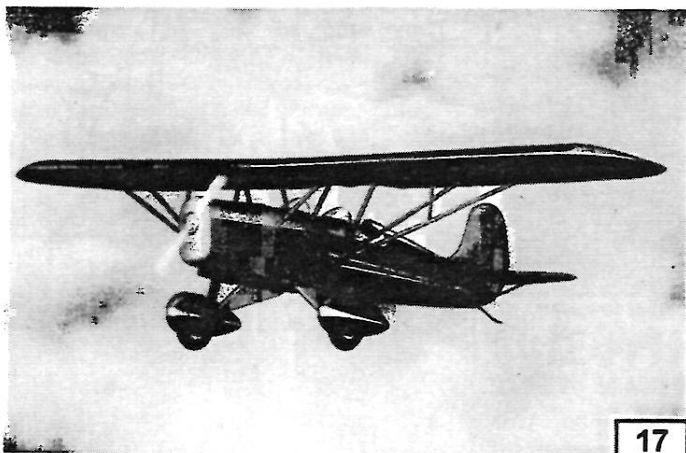
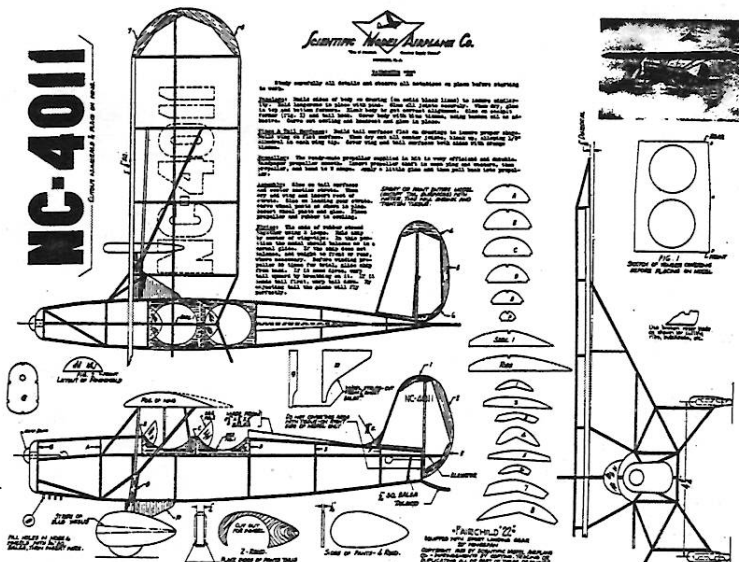
**Fuselage:** Build sides of body on drawing (on solid black lines) to insure similarity. Hold longerons in place with pins. Glue all joints securely. When dry, glue in top and bottom formers. Block body to get correct alignment. Glue on cockpit former (fig. I) and tail hook. Cover body with blue tissue, using banana oil as adhesive. Carve out cowling and headrest and glue in place.

**Wings & Tail Surfaces:** Build tail surfaces flat on drawings to insure proper shape. Build wing on flat surface. When dry cut all center joints, block up, allowing 1/8" dihedral in each wing tip. Cover wing and tail surfaces both sides with orange tissue.

**Propeller:** The ready-made propeller supplied in kit is very efficient and durable. Sandpaper propeller smooth. Insert propeller shaft in nose plug and washers, then propeller, and bend to U shape. Apply a little glue and then pull back into propeller.

**Assembly:** Glue on tail surfaces and center section struts. When dry add wing and insert rest of struts. Glue on landing gear struts. Carve wheel pants as shown in plan. Insert wheel pants and glue. Place propeller and rubber in cowling.

**Flying:** Tie ends of rubber strand together using 3 loops. Hold ship by center of wing-tips. In this position the model should balance as in a normal glide. If the ship does not balance, add weight to front or rear, where necessary. Before winding propeller 50 times for trial, glide ship from hand. If it nose dives, warp tail upward by breathing on it. If it lands tail first, warp tail down. By adjusting tail the plane will fly perfectly.



The November/December 2003 issue of AIR Enthusiast has an article with color photos of restored Fairchild 22 NC13166. It looks exactly like this plan. Colors are red and blue with a cream wing – beautiful.

# SCIENTIFIC MODEL AIRPLANE Co.

"One of America's Greatest Supply Houses"  
NEWARK, N. J.

## THE FAIRCHILD

### THE FAIRCHILD DIRECTIONS

Study carefully all details and observe all notations on plans before starting to build your plane. Follow instructions step by step, refer constantly to drawings and photo, and check parts carefully with plans from time to time.

When cutting curved balsa parts such as bulkheads, wing tips, tail surface outlines, etc., always cut the inside curve first, as this helps to prevent the balsa from splitting. When pinning parts to the drawing, never pin through the wood but place pins on each side.

**Fuselage:** Place top and bottom longerons on drawing (solid black lines), holding in place with straight pins. Insert vertical pieces (solid black lines). When dry, glue in top and bottom bulkheads cut from sheet balsa. Build up windshield of 1/16" sq. balsa. Insert rear hook. Carve and glue on cowling. Cover entire body and cowling with red tissue using banana oil as an adhesive.

**Wings & Tail Surfaces:** Build tail surfaces on drawing to insure proper shape. Rudder and elevators are half covered with yellow tissue, balance red. To make the wings cut out ribs from sheet balsa and glue to spars at proper distances, working on a flat surface. Cover all wing surfaces, both sides, with yellow tissue.

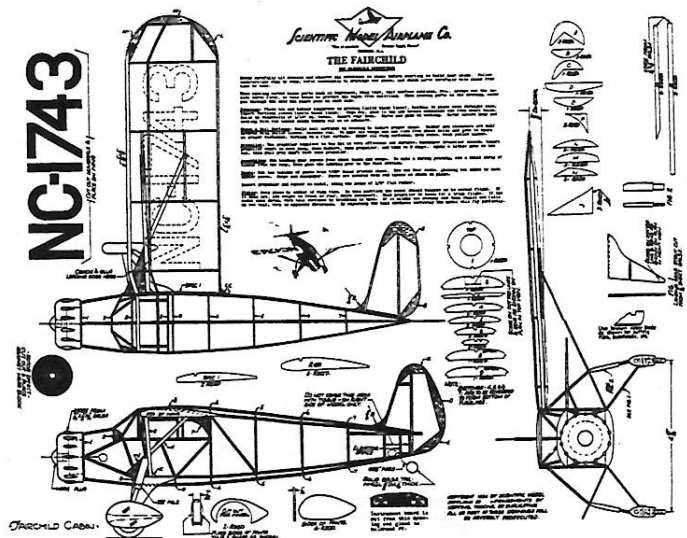
**Propeller:** The propeller supplied in the kit is very efficient and durable. Sandpaper propeller smooth. Insert propeller shaft in nose plug, then washers, then propeller, and bend to U shape. Apply a little glue on the end, then pull prop shaft back into propeller.

**Assembling:** Cut landing gear struts from sheet balsa and shape. To make a strong joining, cut a small strip of tissue from the body, then glue the landing gear to the wood section.

**Pants:** Cut two insides of pants from 7/32" balsa printed sheet. Now cut four sides, gluing two sides to each center piece. Shape and sandpaper. Pants are covered with red tissue as shown in plans.

Insert propeller and rubber in model, using two loops of 1/8" flat rubber.

**Flying:** Hold plane by center of wing tips. In this position the model should balance as in normal flight. If it does not, add weight to front or rear, where necessary. Wind propeller 50 times for a trial flight. If the model nose dives, warp tail surfaces by breathing on them. If it climbs too steeply and then stalls and falls on its tail, warp in opposite direction. By adjusting the tail surfaces correctly the model will fly perfectly.



**Sources for Plans and Kits**

Golden Age Reproductions has 15 Scientific Hi-Flyer plans available as shown on the chart on page 20. All plans are cleanly reproduced and show all patterns. They also sell an excellent kit of the Fokker D-VII. They also offer 250 other plans and 43 kits. Their Plan Book First Edition is not to be missed and includes many Hi-Flyer plans in reduced format. Catalog is \$3.00.

Golden Age Reproductions  
P.O. Box 1685  
Andover, MA 01810.

[GAREPRO@aol.com](mailto:GAREPRO@aol.com)

Penn Valley Hobby Center offers a kit of the Scientific Hi-Flyer Bellanca Pacemaker. I have not seen this kit, but their other kits are excellent. They also offer an extensive range of reproduction Dime Scale kits and many other kits. Complete catalog is online at their website. If you are in the Philadelphia area, this is a must visit - it is one of the few really good hobby shops left.

Penn Valley Hobby Center  
837 W. Main St.  
Lansdale, PA 19446

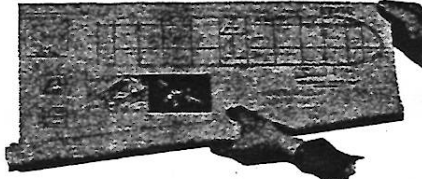
(215)855-1268

[www.pennvalleyhobbycenter.com](http://www.pennvalleyhobbycenter.com)

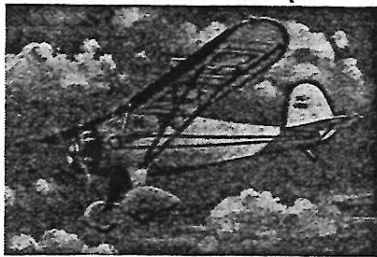
If you are at all interested in the history of model airplanes and old kits, be sure you belong to KAPA (Kits and Plans Antiquitous). Their newsletter is great, and complete back issues are available. Membership dues are \$8.00.

KAPA  
Morris Leventhal  
1788 Niobe Avenue  
Anaheim, CA 92804

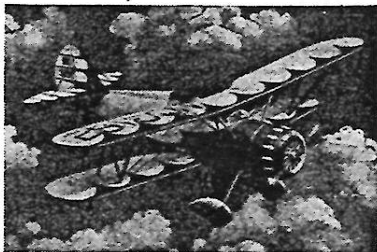
# Build These NEW, SENSATIONAL SCIENTIFIC "HI-FLYER" 50<sup>C</sup> 20 in. MODELS WITH BRIDGE-TYPE LANDING GEAR AND ADJUSTABLE CONTROLS GUARANTEED TO FLY 500 FT.



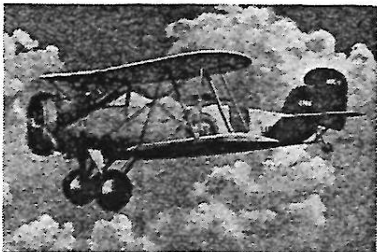
PLANS INCLUDE COMPLETE Right and Left Wing Section



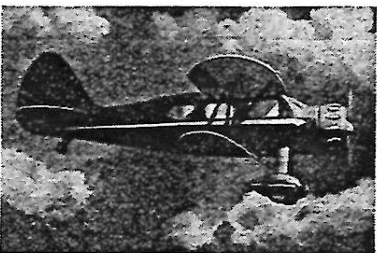
MONOCOQUE 90-A—20 inch



New WACO "F-5"—20 inch.



The CURTISS "HELLDIVER"—20 in.



WACO "CUSTOM" CABIN—20 inch

Each kit complete including plans in full size with complete right and left wing sections!! Only SCIENTIFIC KITS have all these features. Finished, drilled Propeller, Wheels and Nose Plug; turned Balsa Wood Cowlings or Drilled Nose Blocks; finished Wire Fittings; all Ribs, Bulkheads, Fairings, etc., clearly printed on Balsa; 2 Sheets Colored Tissue; Banana Oil and Cement; Wire; Washers; Insignia and Wing Designs in Colors on Gummed Paper; Live Rubber; all Strip Wood of Finest Quality, accurately cut to size; Full Size Detailed Drawings with every bit of information and instructions for building and flying the model, and with Wings reproduced completely. No more trouble and difficulty with plans that show only half a wing, also photographs of the Model in skeleton and covered form. The most complete and highest quality Kits on the market at this sensational low price!!

**1001 High Grade Supplies at Money Saving Prices**



**FIRE CRACKER MOTOR**  
If your motor lacks pep, install this coil and see the difference. Can be used on any miniature motor. Price \$2.50



**BALL JOINT TOGGLE SWITCH**  
Easy operating light weight and will not stick. Price each .....45c



**A. C. SPARK PLUGS**  
Finest made; hot spark steps up performance of engine 100%. Prices low ....75c



**CONDENSERS**  
For all motors. Each .....20c



**BROWN JR. SPARK PLUG**  
Formerly \$1.50. Now .....\$1.00



**PNEUMATIC RUBBER WHEELS**  
3 1/4 in. size; for Models 3 to 8 ft. Black rubber; aluminum colored hubs. Per Pair .....\$1.50



STRIP Balsa	
5 ft. Lengths	
1/4x3/4	.....\$ .03
1/4x3/8	..... .04
1/4x3/8	..... .06
3/16x3/8	..... .07
3/16x3/8	..... .05
3/16x1/2	..... .08
1/4x3/4	..... .06
1/4x3/8	..... .08
3/8x3/8	..... .10
1/2x3/8	..... .12
1/2x3/4	..... .15
1/2x1	..... .18
3/4x1	..... .15
1x1	..... .20
1x1	..... .25



SHEET Balsa	
5 ft. Lengths	
1/32x2	.....\$ .10
1/32x3	..... .15
1/16x2	..... .12
1/16x3	..... .18
1/8x2	..... .15
1/8x3	..... .20
3/16x2	..... .18
3/16x3	..... .20
1/4x2	..... .25
1/4x3	..... .25
1/2x2	..... .25
1/2x3	..... .25



**SCIENTIFIC MODEL FINISHES**  
Clear Dope. Thinner. Colored Dope  
Heavy Cement, Bamboo  
3 Oz. Bottle .....\$ .25  
1/2 Pt. Can ..... .50  
1 Pt. Can ..... .75



**ZEPHYR SILK**  
Fine Quality, Sq. Yd. ....\$ .60c  
Extra Heavy, Sq. Yd. ....\$ .90c



**GLASS DROP-PERS**  
Finest quality. Per bottle .....35c



**FILTER FUNNEL**  
Assures clean fuel in motor tank; easy, quick filling. Complete with filter screen. Each .....35c



**SPECIAL VALVE**  
Hardened steel Valve for use on Baby Cyclone Motors. Guaranteed. Each .....50c



**SPECIAL DESIGNED GAS MODEL PROPS**  
True pitch and specially designed for use on all gas models. 13" and 14" Size. Special each .....\$1.95

**HOW TO ORDER:** Retail orders of \$4.00 or more are sent postpaid and insured in the U.S.A.  
Kits are sent postpaid in U.S.A. Add 15c for packing and postage on ALL supply orders up to \$1.50. On orders of \$1.51 or over, add 10 per cent of the total for packing and postage. Add 20c to all orders that contain balsa or wire in 5 foot lengths to cover special handling.

**CANADIAN ORDERS:** Add 30c for postage on all orders up to \$2.00. On orders of \$2.00 or more add 20 per cent of the total for postage and special handling.

**SCIENTIFIC MODEL AIRPLANE COMPANY**  
218-220 MA-3 Market Street, Newark, N. J.

In France: E. Kruger & Co., 9 Rue St. Sebastien, Paris  
In England: H. & S. Norman, 46 Derby Rd., Kirkham, Prestwich, Lancs.  
In Australia: Swift Model Aircraft, 156 Adelaide St., Brisbane, Queensland.  
In South Africa: Stratosphere Model Aircraft Supplies, P.O. Box 3248, Johannesburg.

19 (Model Airplane News - Mar. 1937)

# Scientific 20" HI-FLYER Models

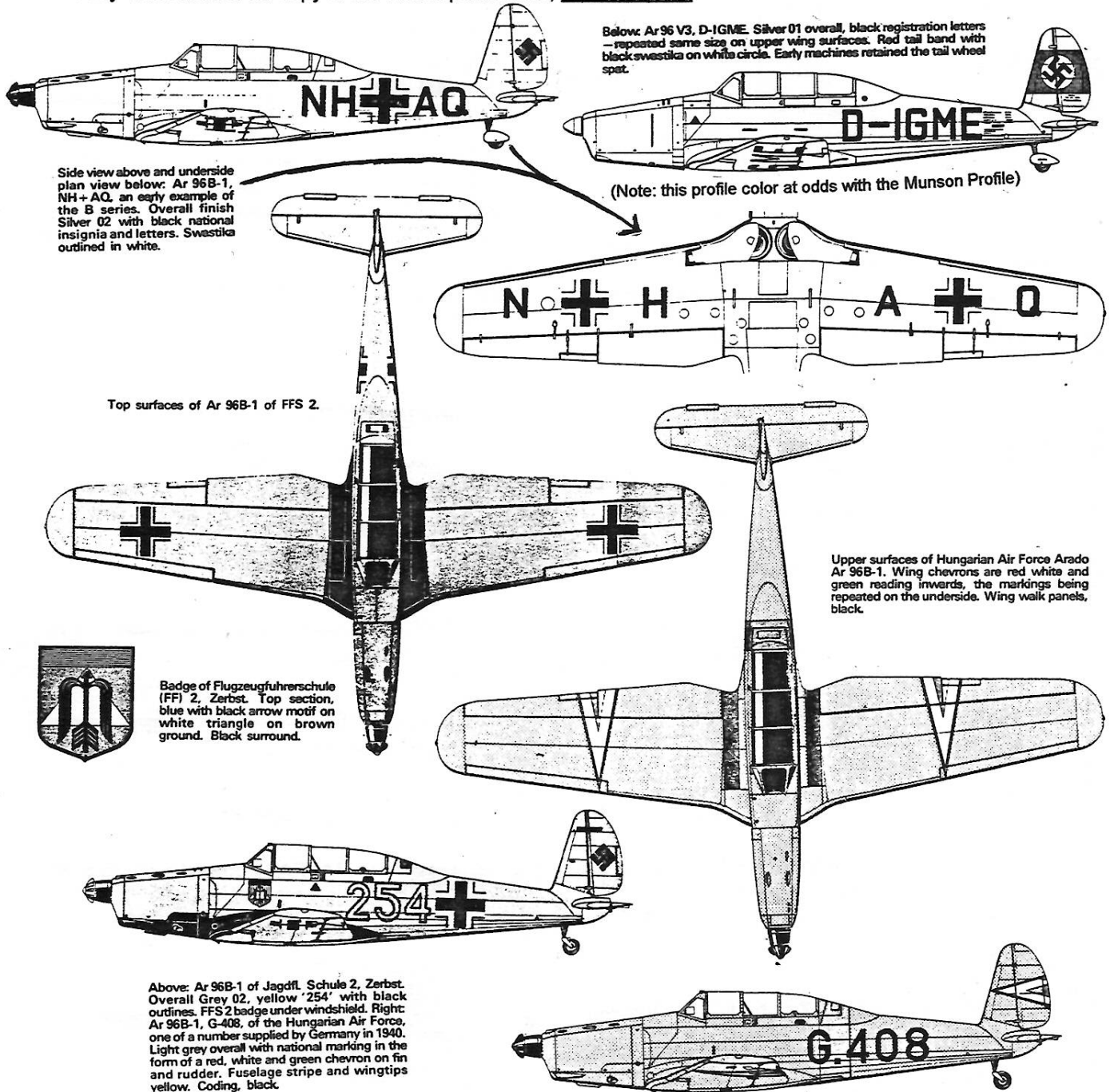
Final Kit No. (1937)	Aircraft	Plan Available from Golden Age Reproductions	Kit Available	Plan and Patterns will appear in Max-Fax
<b>1933</b>				
H-14	Bellanca Pacemaker	Plan No. 224	Penn Valley (Kit 3210 Sci)	
H-17	Vance Flying Wing			
H-19	Nieuport Scout			
H-20	Curtiss Goshawk	Plan No. 247		
H-21	Fairchild 22			X
H-24	Waco Model A	Plan No. 230		
H-26	Vickers Jockey	Plan No. 223		
H-27	Stinson Reliant			X
<b>1934</b>				
H-13	Curtiss Cyclone Hawk			
H-15	French Mureaux C1 Pursuit	Plan No. 214		
H-16	Japanese Kawasaki Fighter			
H-18	Army Douglas Y10-43	Plan No. 156		
H-22	Waco YKC	Plan No. 258		
H-23	Howard "Ike"	Plan No. 257		
H-25	Fairchild Cabin			X
H-28	Boeing Pursuit F4B-4	Plan No. 171		
<b>1935</b>				
H-5	Waco Model D Military	Plan No. 158		
H-6	Curtiss P-6E Army Hawk	Plan No. 222		
H-7	Ben Howard's Mr. Mulligan	Plan No. 159		
H-8	Grumman Fighter SF-1			X
H-9	Art Chester Jeep	Plan No. 229		
H-10	Fokker D-7	Plan No. 170	Golden Age (Kit #6.)	
H-11	Curtiss Fighter XF13C-1	Plan No. 160		
H-12	Boeing Fighter (P-29)			
<b>1937</b>				
H-1	Waco Custom Cabin			X
H-2	Monocoupe 90-A			
H-3	Waco F-5			X
H-4	Curtiss Helldiver			



# Arado AR-96 Color and Markings

Dan Driscoll

Earlier this year I needed a low-wing military trainer model for the event at the Brainbuster FAC contest. I noticed Dan Kane had won Dime Scale at the 2002 FAC Nats with a Comet Arado, so I decided to build one. Bert Phillips did also. At the 2003 FAC Non-Nats, Jack McGillivray won Dime Scale with a Comet Arado. Subsequently, Tom Hallman and Wally Farrell built them, and I have seen others on the internet. It's a great flying model, but the wing shape is completely wrong. All but two of the models I have seen have been finished as the yellow D-IGME (including mine). This color and markings comes from a profile in Fighters Between the Wars 1919-39 by Kenneth Munson. It is an attractive and easy scheme, but all the models look exactly alike. Below are some other relatively simple schemes if you want to be different. They come from a old copy of the British publication, Aviation News.



# The KUDZU FLYING CORPS Annual Land & Lake event for 2003 Results

Friday September 19th 2003 On the lake, spitting rain and wind. Wally Farrell flew his Fleet Canuck which torqued over and dug its wing on take off then managed a nice take off, good flight, and great landing. His next attempt repeated the performance except there was only a long taxi across the lake. He also flew his Convertable. Too windy for John Diebolt.

Saturday September 20th 2003 RAEFORD. Better conditions, less wind and not much rain.

## Mass Launch Events:

### WW1 Biplanes

Stew Meyers	Spad	1
Frank Rowsome	D7	2
Bert phillips	Scout	3

### Golden Age Civilian

Walt Farrell	Vega	1
Bob McLellon	Luscombe	2
Frank Rowsome	Fleet	3

### All racers combined

Bob McLellon	Seversky	1
Stew Meyers	Long	2
Dave Mitchell	Pete	3

### WW2 Military

Walt Farrell	Me 109	1
Stew Meyers	Karkov	2
Bob McLellon	BR Bermuda	3

### Modern Production Civilian

Dave Mitchell	Cessna 140	1
Walt Farrell	Cessna 150	2
Bob McLellon	Vagabond	3

### Flying Horde for scale airplanes

Walt Farrell	General Aristocrat
--------------	--------------------

### Dime Scale

John Diebolt	DingBat	1
Frank Rowsome	Ong Cont	2
Stew Meyers	Luscome 50	3

### Military low wing trainer any era

Walt Farrell	Miles Magst.	1
Bob McLellon	Temco T-35	2
Stew Meyers	BT-9	3

### Feature Event! Jumbo/ Coconut

Frank Rowsome	General Aristocrat	1
Walt Farrell	General Aristocrat	2
Stew Meyers	Farman Stratoplane	3

### Timed events: Old Time Rubber Cabin

Stew Meyers	Black Bullet	1
Walt Farrell	Convertable	2
Donn Linton	Moth	3

### FAC Rubbber Scale

Frank Rowsome	Lippish P13	1
Walt Farrell	Macchi	2
Bob McLellon	Hurricane	3

### Grand Champ: Walt Farrell

## Photo Page

- |   |  |
|---|--|
| 8. Bob McLellon's pseudo Hawk JIMMY ALLEN model.  | 13. Lindsey sent this photo of another great Doug McHard model, the Short Scion.   |
| 9. Bob Schlosberg built this great looking Skyfarer using Earl Stahl's 1/12 scale plan.   | 14. Our intrepid aviation pioneer looking for inspiration for his next tri-motor!  |
| 10. Lindsey Smith enlarged Mark Fineman's Fiat plan in a recent MAXFAX and produced this knockout model; you should see it in color.                    | 15. The previous MAXFAX showed a photo of the Vought V-173. Here is a photo of a PEANUT version. A kit and formed canopy of the aircraft are available from: |
| 11. Robert Spink, a prolific producer of rubber powered aircraft out in South Dakota, used the plan from MAXFAX to build this all-balsa "Luxury Liner". | Michael A. Morrow<br>1327 44th Ave. S.W.<br>Seattle, WA 98116  |
| 12. Another model by Robert from MAXFAX is his "Chieftain".   | For a CURRENT CATALOG and order forms, send \$2.00   |

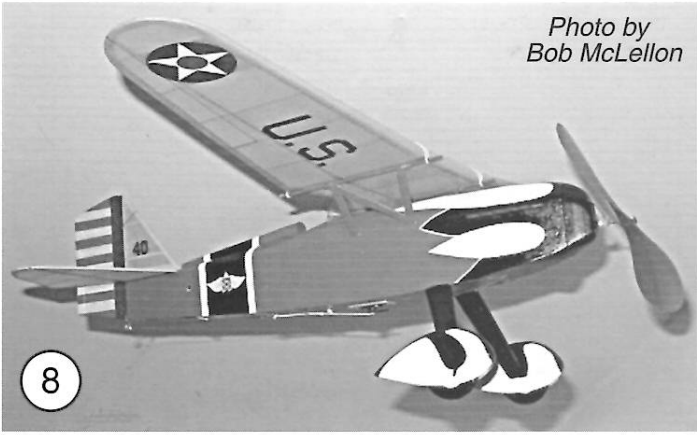


Photo by  
Bob McLellan

8



Photo by  
Bob Schlosberg

9



Photo by  
Lindsey Smith

10



Photo by  
Bob Spink

1



Photo by  
Bob Spink

12



Photo from  
Lindsey Smith

13



23

14



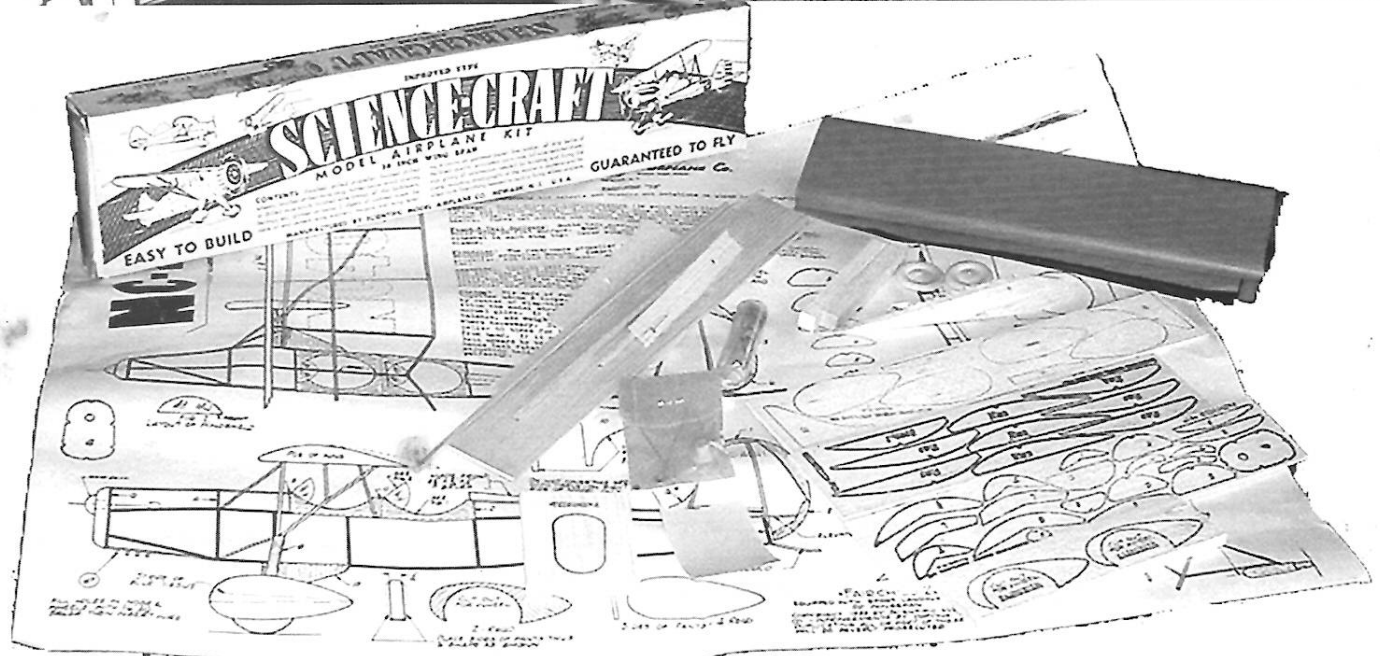
Photo by  
Michael Morrow

15

MAXFAX NOVEMBER/DECEMBER 2003

Right: Don Srull with his Hi-Flyer Mureaux  
Below: Hurst Bowers and his Mureaux.  
Hurst was the source of the plans  
in this issue.

Bottom: Hurst's original Hi-Flyer kit of the  
Fairchild 22. This kit in the yellow  
SCIENCE-CRAFT box c.1939.



CLUB OFFICERS -President: Hurst Bowers, 1649 Birch Rd., Mclean, VA 22101  
Secretary: Bert Phillips, 1709 Crofton Pky, Crofton, MD 2111-2305  
Treasurer: Norm Davison, 14008 Castaway Dr., Rockville, MD 20853 Email --- nordav@juno.com  
Editor: Stew Meyers, 8304 Whitman Dr., Bethesda, MD 20817

MEETINGS - The D.C. MAXECUTERS hold meetings at 8:00 pm on the first Tuesday of every month at the College Park Airport, the oldest continuously operating airport in the world.

MEMBERSHIP - Dues for membership in the D.C. MAXECUTERS are \$15 per year for residents of the USA, Canada, and Mexico, and \$25 for all other countries.

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, Norm Davison.

PUBLISHING DATES - Six issues of MaxFax are sent each year as close to the nominal dates as possible, but since this is a volunteer publication nothing is guaranteed except that six issues will be sent to all members.

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

Maxecuter web site: [www.maxecuter.com](http://www.maxecuter.com)

Your DUES are due





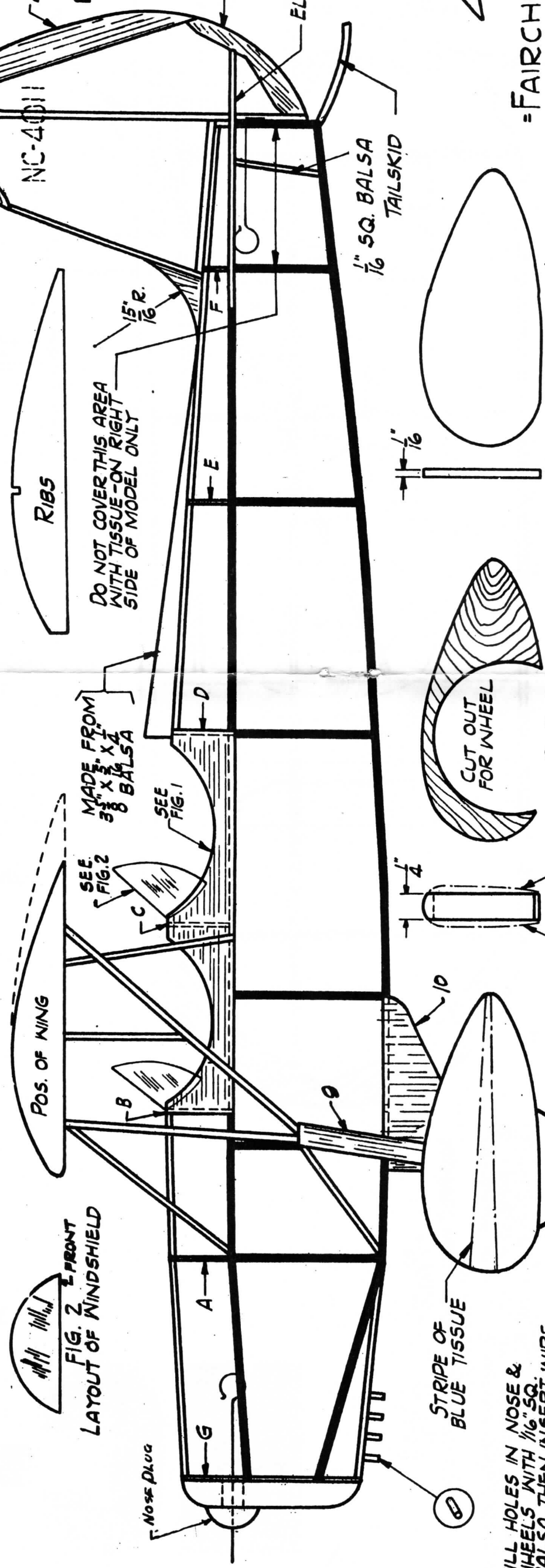
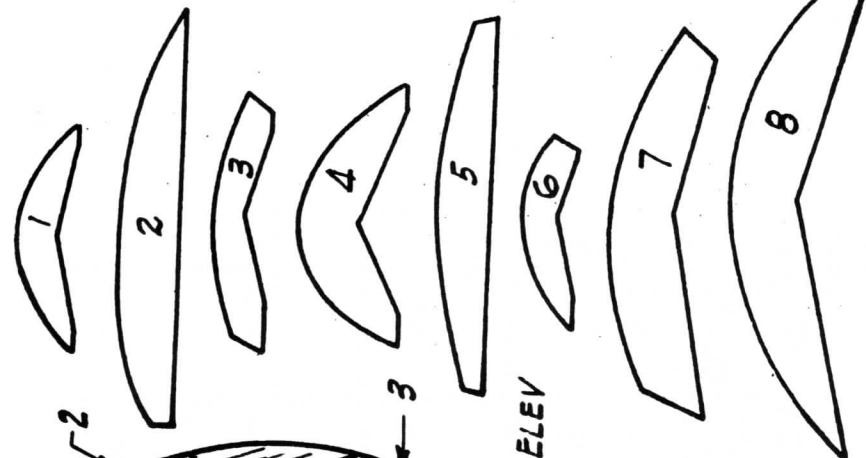
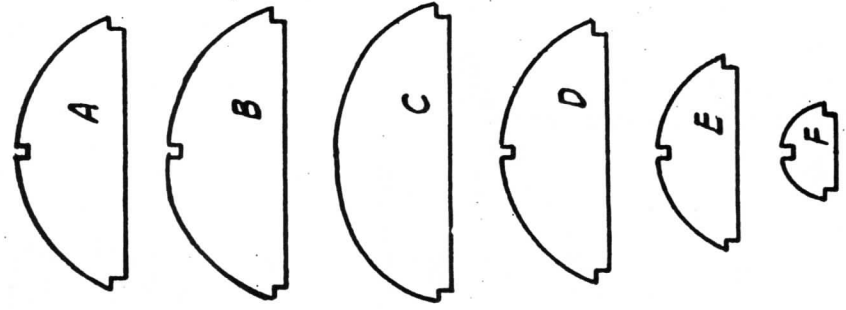
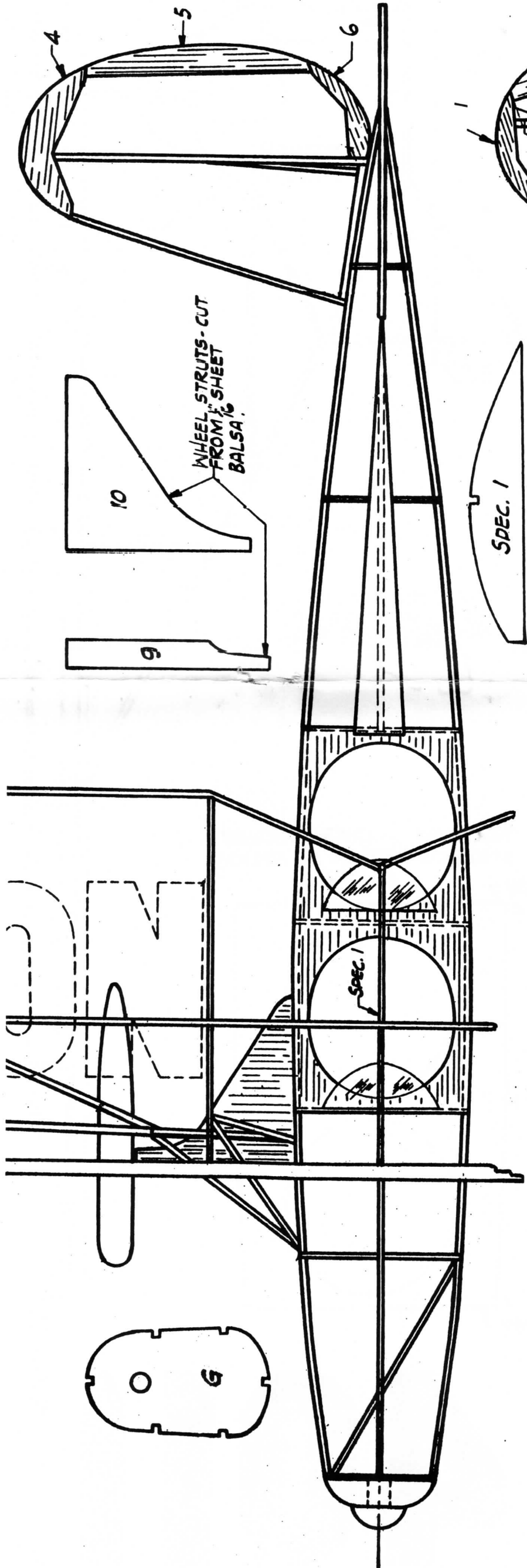
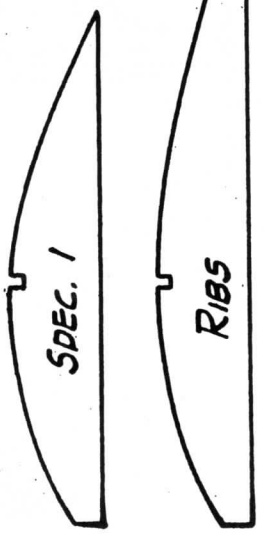
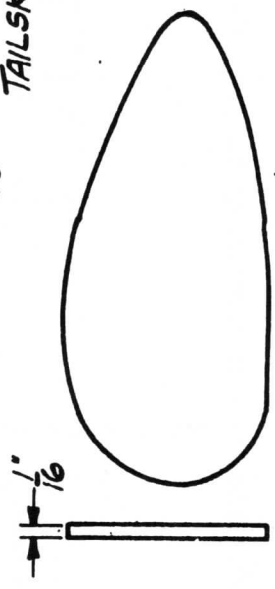


FIG. 2 - FRONT LAYOUT OF WINDSHIELD

FILL HOLES IN NOSE & WHEELS WITH 1/16" SQ. BALSAL, THEN INSERT WIRE.



DO NOT COVER THIS AREA WITH TISSUE - ON RIGHT SIDE OF MODEL ONLY



SIDES OF PANTS - 4 REqd.



2 - REQD.

PLACE SIDES OF PANTS THUS & SHAPE AS SHOWN.

= FAIRCHILD "22"

# NC-4011

CUTOUT NUMERALS & PLACE ON WING.

= FAIRCHILD "22"

EQUIPPED WITH SPORT LANDING GEAR  
20" WINGSPAN

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1/8" DIHEDRAL

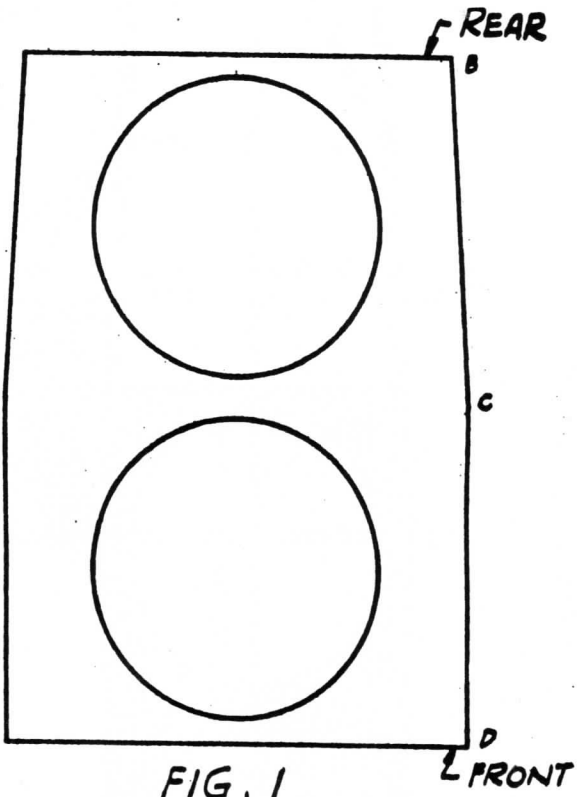
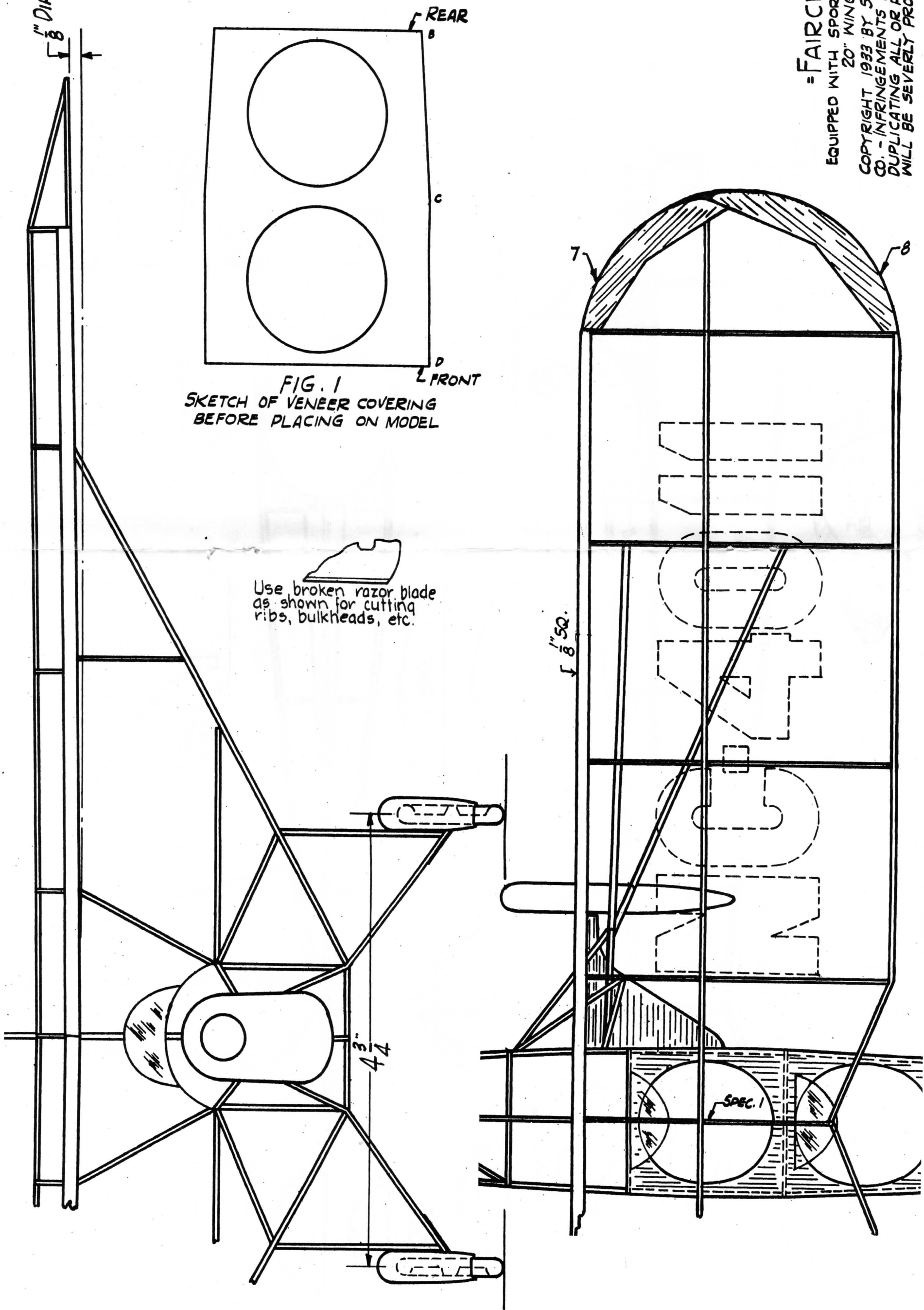


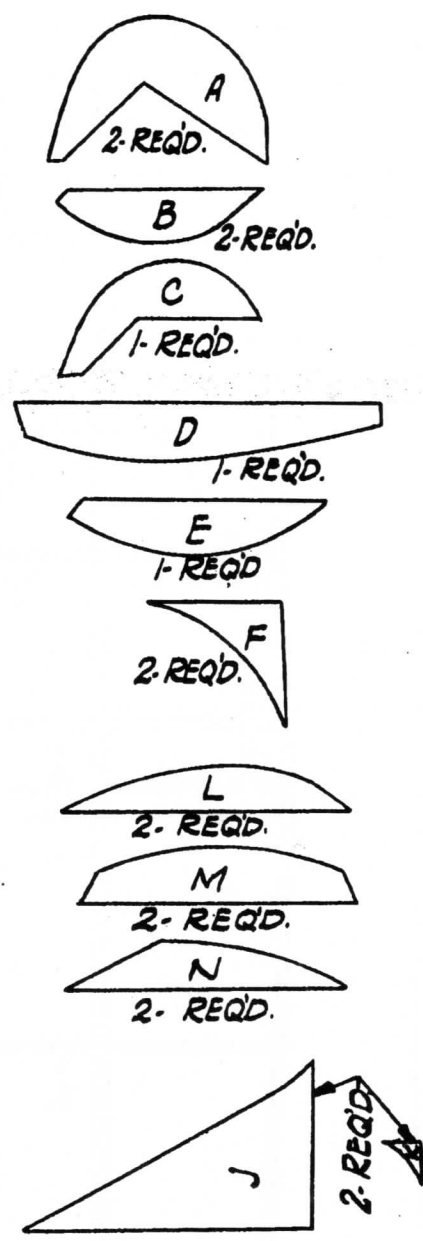
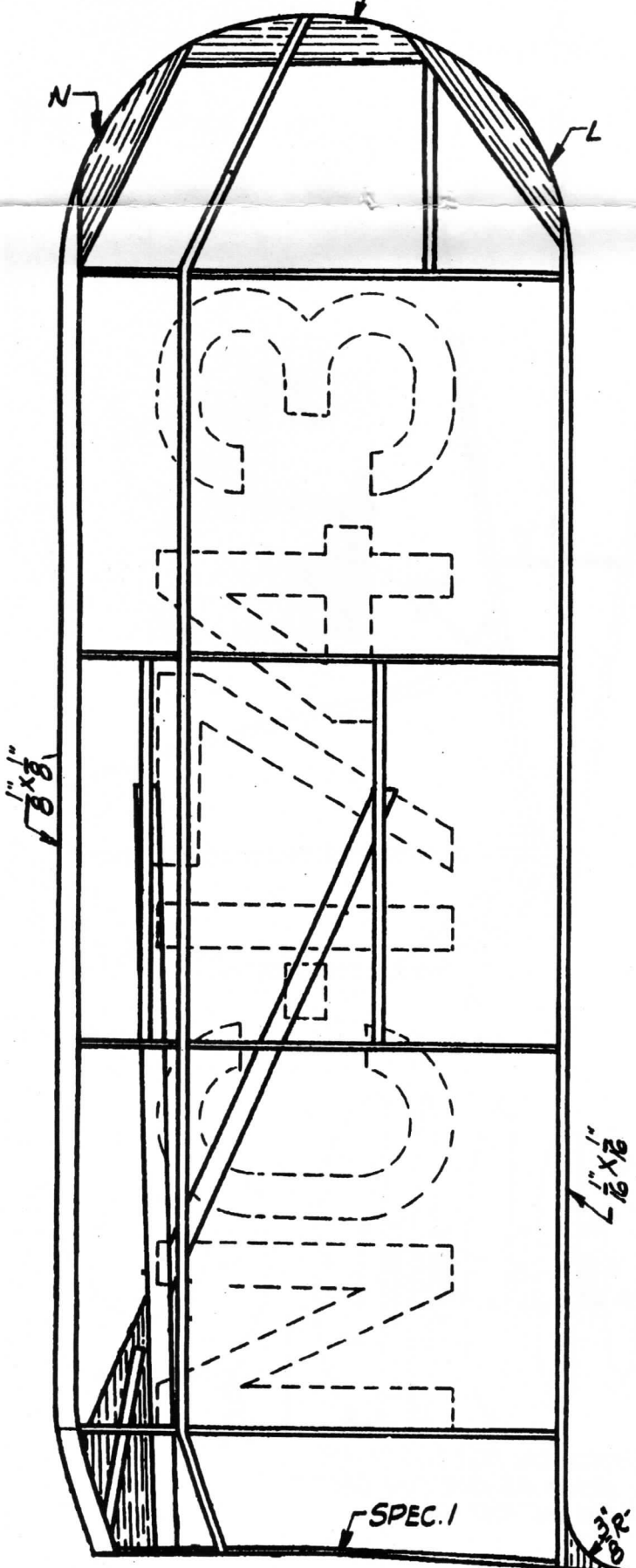
FIG. 1  
SKETCH OF VENEER COVERING  
BEFORE PLACING ON MODEL

Use broken razor blade  
as shown for cutting  
ribs, bulkheads, etc.



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**THE FAIRCHILD**



Use broken razor blade as shown for cutting ribs, bulkheads, etc.



**NC-1743**

CUT OUT NUMERALS & PLACE ON WING.

MADE FROM 1/16 x 1/8 Balsa.

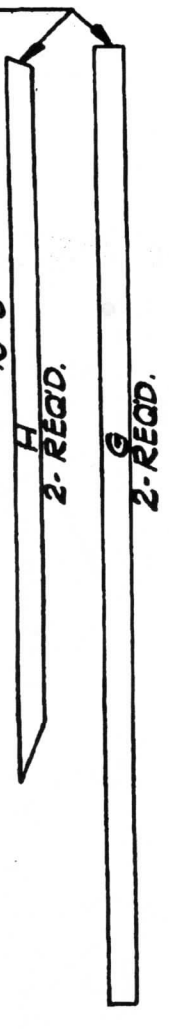
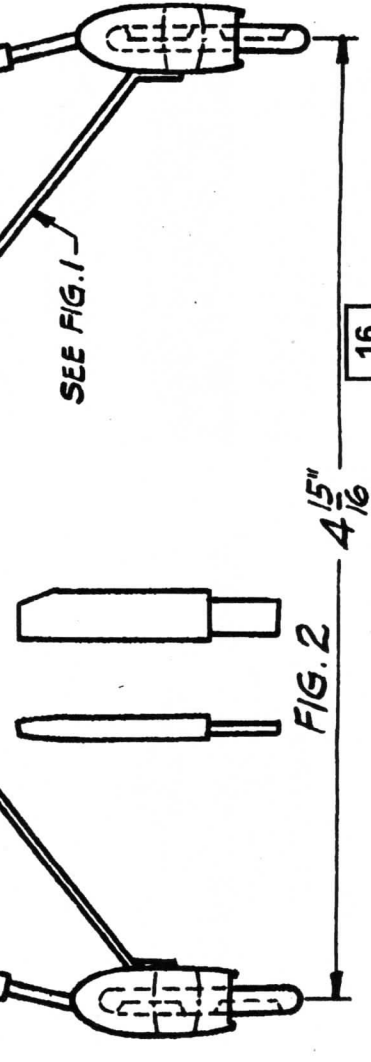
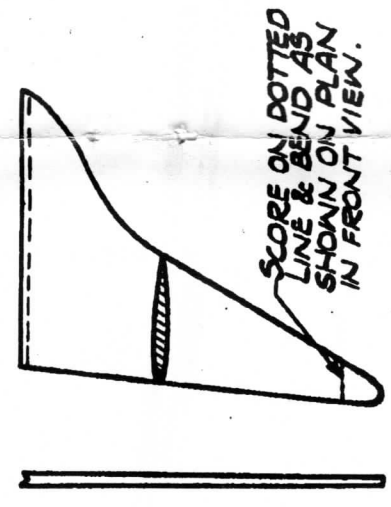
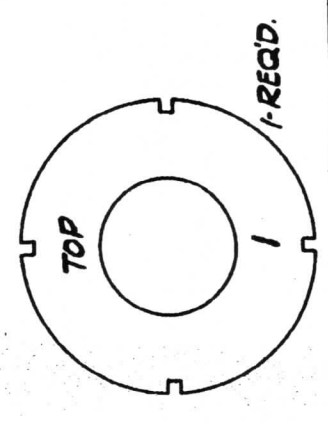


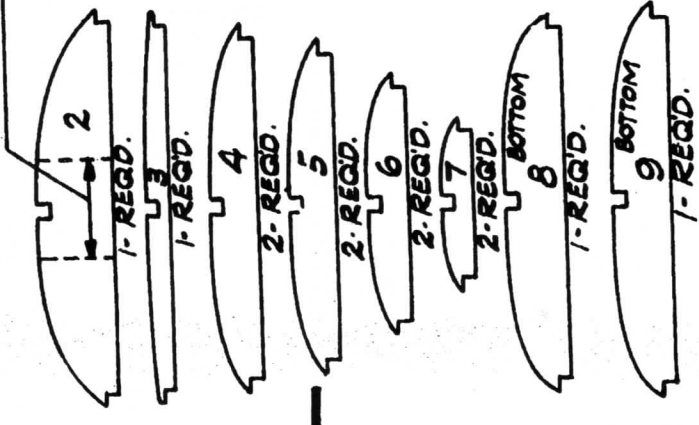
FIG. 1 LANDING GEAR STRUT CUT FROM 1/16 SHEET Balsa.



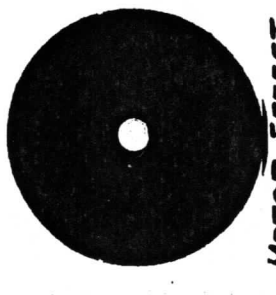




SCORE ON DOTTED LINES & BEND AS SHOWN ON PLAN IN TOP VIEW.

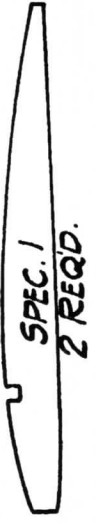
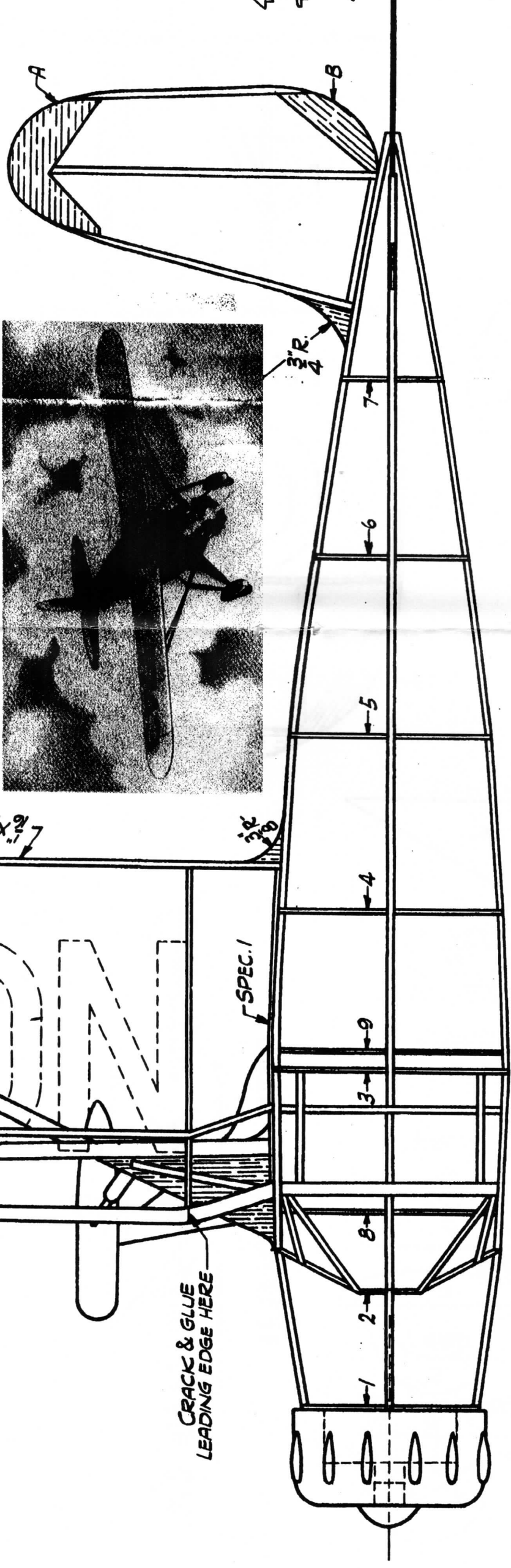


NOTE: SKETCHES 4, 5, 6 & 7; ARE TO BE REVERSED TO FORM BOTTOM OF FUSELAGE.

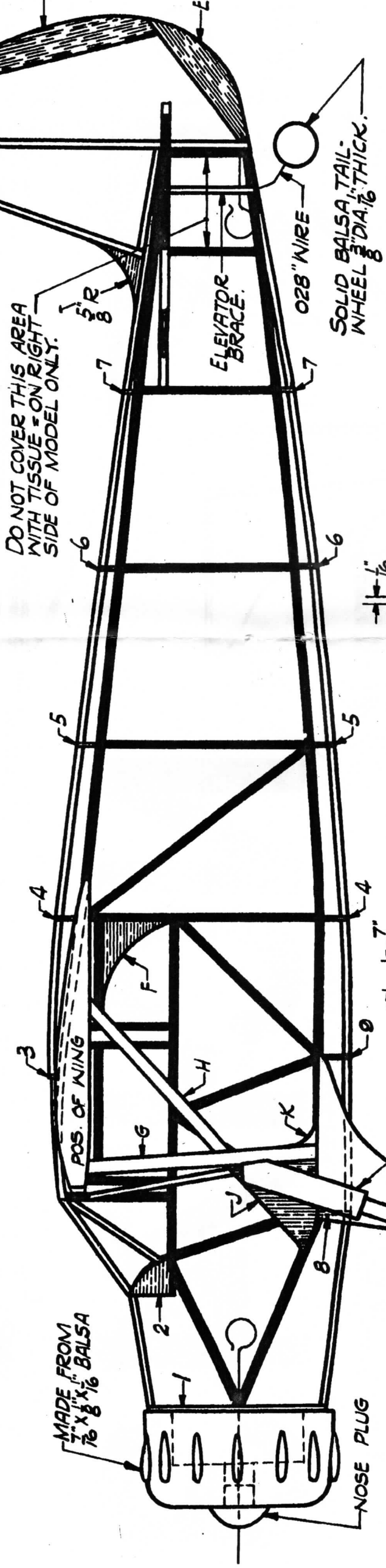


- MOTOR EFFECT - CUT OUT & PLACE AGAINST NOSE BLOCK

THE FAIRCHILD  
SCIENTIFIC MODEL AIRPLANE Co.  
NEW YORK, N.Y.



FAIRCHILD CABIN



DO NOT COVER THIS AREA WITH TISSUE - ON RIGHT SIDE OF MODEL ONLY.



INSTRUMENT BOARD IS CUT FROM THIS DRAWING AND GLUED TO BULKHEAD #2.

