THE HANGAR PILOT

MIAMI INDOOR AIRCRAFT MODEL ASSOCIATION — MIAMA

ISSUE 205

28TH YEAR of PUBLICATION
INDOOR ISN'T FOR EVERYONE

TREASON WINGS

by ROBERT H. LEITFRED

THIS WEEK END

MIAMA MEET 3

NOV 27, 28

TAMPA ARMORY

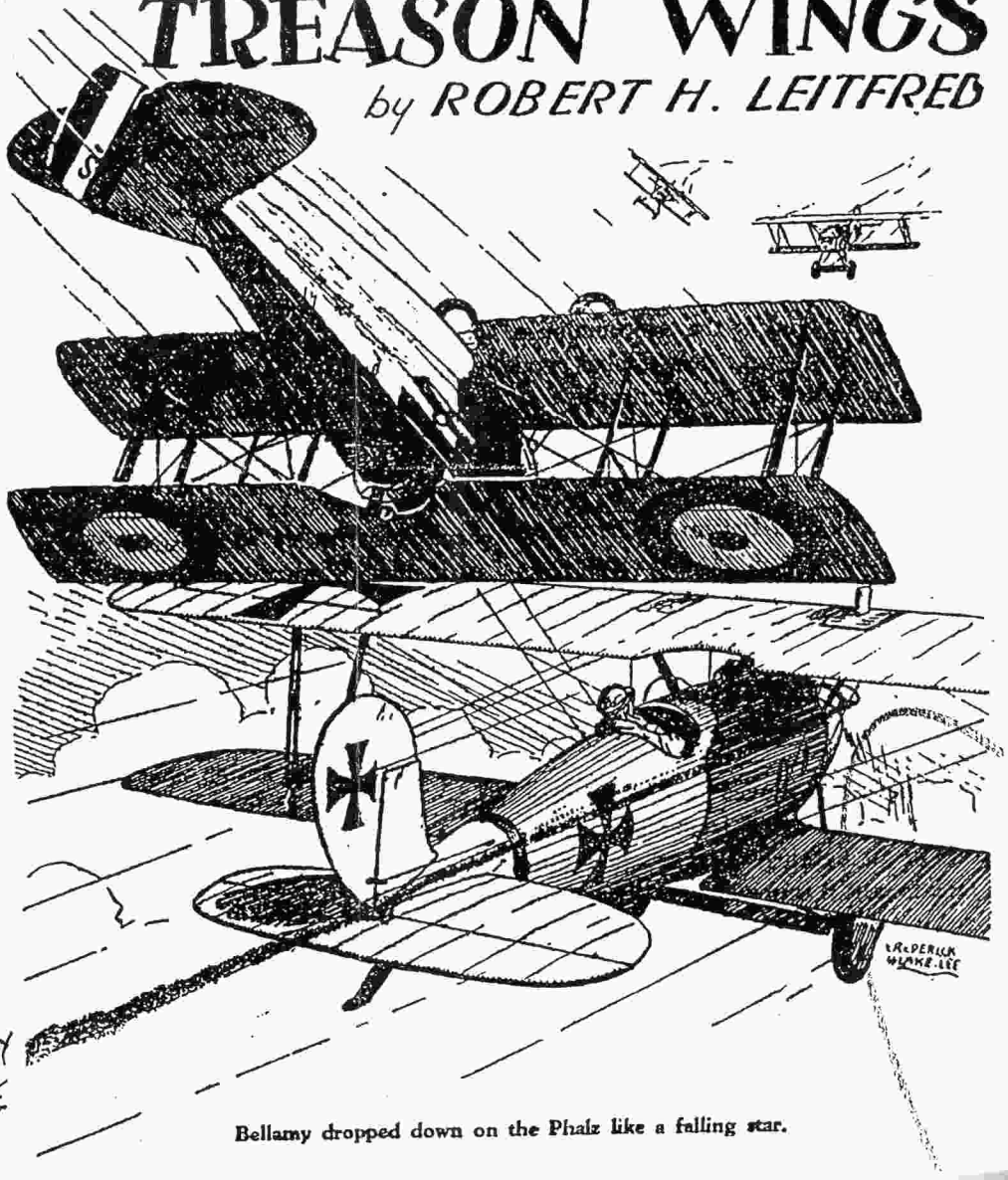


ILLUSTRATION FROM DARE-DEVIL ACES by F. BLAKESLEE

Bellamy dropped down on the Phalz like a falling star.



"LIKE A LETTER FROM HOME" Whelan

THE HANGAR PILOT

The Hanger Pilot, edited by John Martin Jr., who is solely responsible for its content, is published 8 or 9 times a season for bunch of middle aged guys who refuse to grow up. MIAMA (Miami Indoor Aircraft Model Association) - AMA club [redacted] One of two active all indoor free flight clubs in AMA. For a mere $12.50 you will receive all of the published issues that year. We encourage reader contributions because, frankly, we need the material. Letters, plans, 3-views, complaints, gripes and compliments to: Dr.John Martin Jr., President / Editor, 2180 Tigertail Ave., Miami, FL 33133 USA. phone: 305-858-6363.

MEET 2 REPORT

The pilots really came out for the Coast Guard meet. I don't know if it's the site or the good inexpensive food at the mess hall that brings MIAMA out every year for this one. The weather was clear and cold for October in Fla. (50 degrees Sun. morning) Good to have new pilots - Eric and Randy Osborne- flying scale and embryo. It was so cool Joe Nuszer left his models in the box/. John Wormley had a great new Feisler Storch that was loaded with details and trimmed out instantly. Hardcastle is back early this year - flying one of the three Fokker D-VII's in the Dime Scale flying circus. The Comet D-VII is becoming the Lacey of the ten centers. George, Judi, and the whole Nunez family drove up from Miami for the 2 days. It's a good thing Jonathan Nunez is a Junior because his flights in Peanut,FAC scale, and Legal Eagle were way ahead of many of the "old pros". This coming week end is meet #3 at the Tampa Armory. This,too,is one of my favorite CAT. II sites with an unobstructed ceiling.

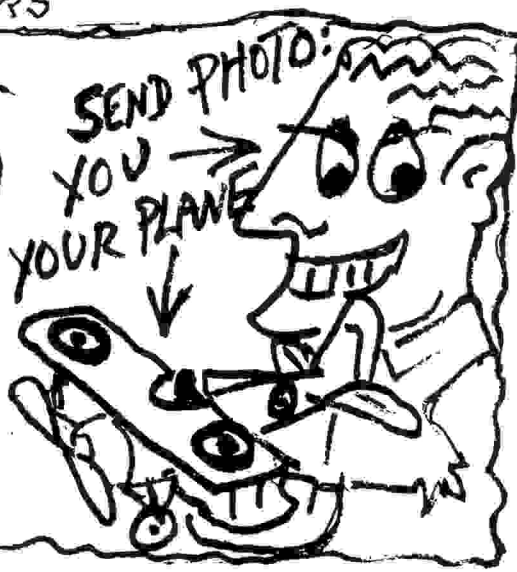
PRESS RELEASE: OTHER NEWSLETTERS PLEASE COPY

ENTER 16TH MIAMA POSTAL PISTACHIO INTER-GNATS

FAME..AWARDS..YOUR NAME IN LIGHTS .. YOUR PHOTO IN HANGAR PILOT. ALL THIS WITH NO ENTRY FEE.

1. Send in photo.
2. Best time, indoors.
3. Weight, less rubber
4. Three divisions: I, Scale
II. Model of a model (Of any fuselage outdoor free flight gas or rubber.)
III. RIDOTTO..Smallest span to fly 30 sec. Send span in mm. Send results to MIAMA 2180 Tigertail Ave. Miami, FL 33133

FROM NOW UNTIL APRIL 30 2000



MIAMA MEET 2 USCG OCT 23,24 1999 (2)

C/D The Obarskis and Doc

FAC PEANUT SCALE — Scale Fly

1.R. MacEntee Lemberger	72	1:19	141.5
2.N. Bollinger Cougar	61.2	1:29	135.2
3.Doc Martin Ford 2AT	56.5	1:29	131
5.John Wormley Lacey	60	1:17	128.5
4. S. Gilbert Lacey	51	1:45	129.8
7.J.Barker J-3 Cub	59.5	:52	111.5
6.Eric Osborne	48	1:15	115.5
8.Randy Osborne	49.5	1:03	111.0

JUNIOR PEANUT. JJ Nunez PT-19 124.5

FLYING ACES SCALE

1.MacEntee Currie Wot	72.5	:58	130.5
2.Doc Martin Waco E	70.5	:57	127.5
3.S. Gilbert Comper	59.4	1:03	120.9
4.J. Wormley F.Storch	61.3		
5.G. Nunez Aeronca Champ	60	:59	120.3
		:56.5	116.5

MIAMA PISTACHIO

1.J.Wormley Xmas Bullet	1	1:16	1:17	2,3
2.MacEntee Lacey	2	1:28	1:18	1,3
3.Doc Martin Stabiloplan	3	:28	:27	3,6
4.S.Gilbert Lacey	3	:48	--	4,6

MODEL OF A MODEL 1.Obarski Snuffy 2:20 2:32

MIAMA DIME SCALE

1.R.MacEntee Comet D VII	7:31	☆ NEW RECORD
2.D. Hardcastle " " "	7:23	
3.Dick Obarski " " "	7:06	
4.J. Martin Burd Caudron	5:22	
5.N. Bollinger Taylorcraft	4:09	

FLYING ACES NO-CAL

1.Dick Obarski	Farman	3:22
2.R. MacEntee	Lacey	2:21
3. Doc Martin	Dayton	1:30

COCONUT SCALE: R. MacEntee. M 20b 1:46

☆ NEW STATE RECORD

AMA EASY B
1.Dick Hardcastle 3:22

AMA MINI STICK
1. Hardcastle 7:56
2Obarski 6:33
3. John Barker 5:21

AMA PENNY PLANE
1.John Barker 7:24

FLYING ACES EMBRYO

1.N.Bollinger	2:41	2:44
2.J. Barker	2:30	2:31
3.3.S. Gilbert	2:16	1:41
4.Earl Osborne	1:17	1:00
5.5.Randy Osborne	1:01	:57

PEANUT MASS LAUNCH
1.Sidney Gilbert
2.George Nunez
3. Doc Martin
4.Rich MacEntee
5.JJ Nunez
6.Newt Bollinger
7.John Wormley
8Randy Osborne
9. Eric Osborne

AMA BOSTONIAN — Charisma

1.Rich MacEntee	1.05	3:23	3:01
2.J.Barker Romulus	1.03	2:43	2:52
3.N. Bollinger Colt 48	1.05	2:19	2:24
4.S. Gilbert 7_Up	1.05	2:03	1:51
5.J. Wormley 7_Up	1.05	1:52	1:46

MIAMA LEGAL EAGLE

1.R. Obarski Simple Eagle	3:56	3:39	2:25
2.Bollinger Pro Bono	3:04	3:24	3:10
3.R. MacEntee VT Tail	2:44	2:47	2:36
4.S. Gilbert Scimitar	1:35	2:16	2:20
5.Hardcastle	1:52	X	X

Jr. LEGAL EAGLE 1.JJ Nunez Alibi 2:10 1:48 1:30

NEXT MIAMA MEET - THIS WEEK END NOV. 27,28 TAMPA ARMORY

C/D: 305.858.6363

FORT HOMER HESTERLY 504 N. HOWARD AV. TAMPA.

3

LEGAL EAGLE REVISITED

Invented by Dave Stott and introduced in Hangar Pilot #168 , the Legal Eagle event has been flown for six years now. Since then the event has intrigued and interested many flyers. The rules are worth a re-reading. They are unchanged since presented. Dave Stott put a lot of thought into each line and each word. They are cleverly designed to encourage creativity and innovation; even a little controversy. For instance design rules 2 & 3 mention "Fuselage". According to Webster, is"The elongated structure of an aircraft to which are attached the wings and tail unit of an airplane and which is designed to hold the power plant,passengers, cargo,etc." See what I mean? MIAMA flys Legal Eagle at every meet ,and has flown it nationally at Johnson City the past 3 years. Almost one half the plans submitted to the CD fail to meet every rule so be careful when you design ~~yours~~ .

THE LEGAL EAGLE EVENT.

DRAWING REQUIREMENTS

1. Drawing must fit on one side of one sheet of legal size (8½ X 14) paper.
2. No component parts drawing may be superimposed or overlap another and must clear one another and the edge of the paper by at least 1/8 inch.
3. Wing(s) and stabilizer must be drawn full span, tip to tip.
4. Fin(s) may be drawn where space allows and not neccessarily attached to the side view.
5. Landing gear must be drawn in it's place on the side view showing it's full length.
6. No top or front view is required.
7. Drawing must be presented to C.D. on demand.

DESIGN REQUIREMENTS

1. Smallest wood size to be 1/16 square.
2. Fuselage volume must contain a cube 1 X 1½ X 3 inches.
3. Fuselage must have a cabin or open cockpit with a raised windshield of at least 30°. Cockpit must be actually open, with a headrest or canopy.
4. Flight surfaces; Leading and trailing edges cannot parallel each other.
5. Tip outlines must have no straight lines except for stabilizer where a twin fin is used.
6. If twin fins, or two wings are used in the design, parts may be built in duplicate over the same drawing.
7. Jap tissue covering. No ultra light covering to be used. Flight surfaces may be single or double covered.
8. Landing gear must use at least one 1" hardwood wheel.
9. Use of motor sticks ar tubes O.K.

FLYING

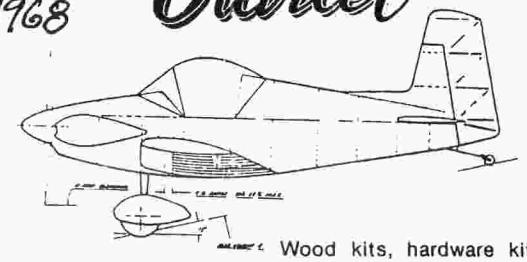
1. Models must R.O.G. from ground, ice, table top, gym floor, or any solid place designated by C.D. on contest day.
2. Highest total of 3 flights wins. Delay timing at C.D. discretion.

A NIFTY NUNEZ PEANUT

John Corby's Starlet CJ-1 (4)

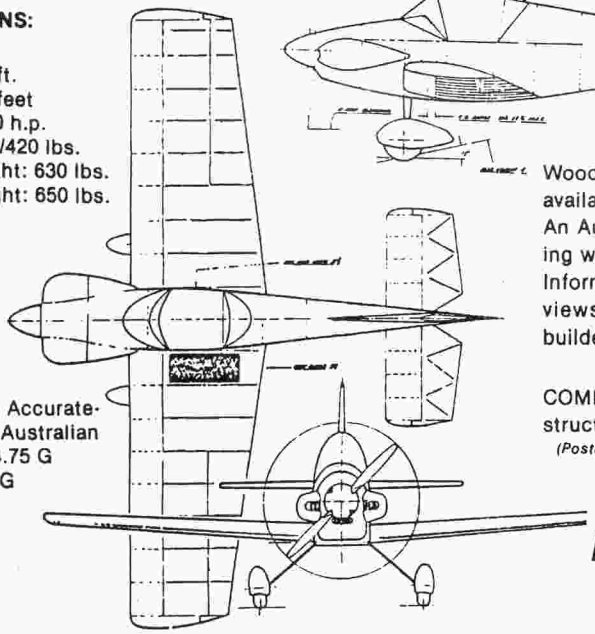
DESIGNER JOHN CORBY

FROM SPORT AVIATION 1968



- VOLKSWAGEN POWERED
- DESIGNED FOR AEROBATICS
- ALL WOOD CONSTRUCTION

SPECIFICATIONS:
SPAN: 18' 6"
AREA: 68.5 sq.ft.
LENGTH: 14.9 feet
POWER: VW 60 h.p.
Empty Wt.: 405/420 lbs.
Aerobatic Weight: 630 lbs.
Maximum Weight: 650 lbs.



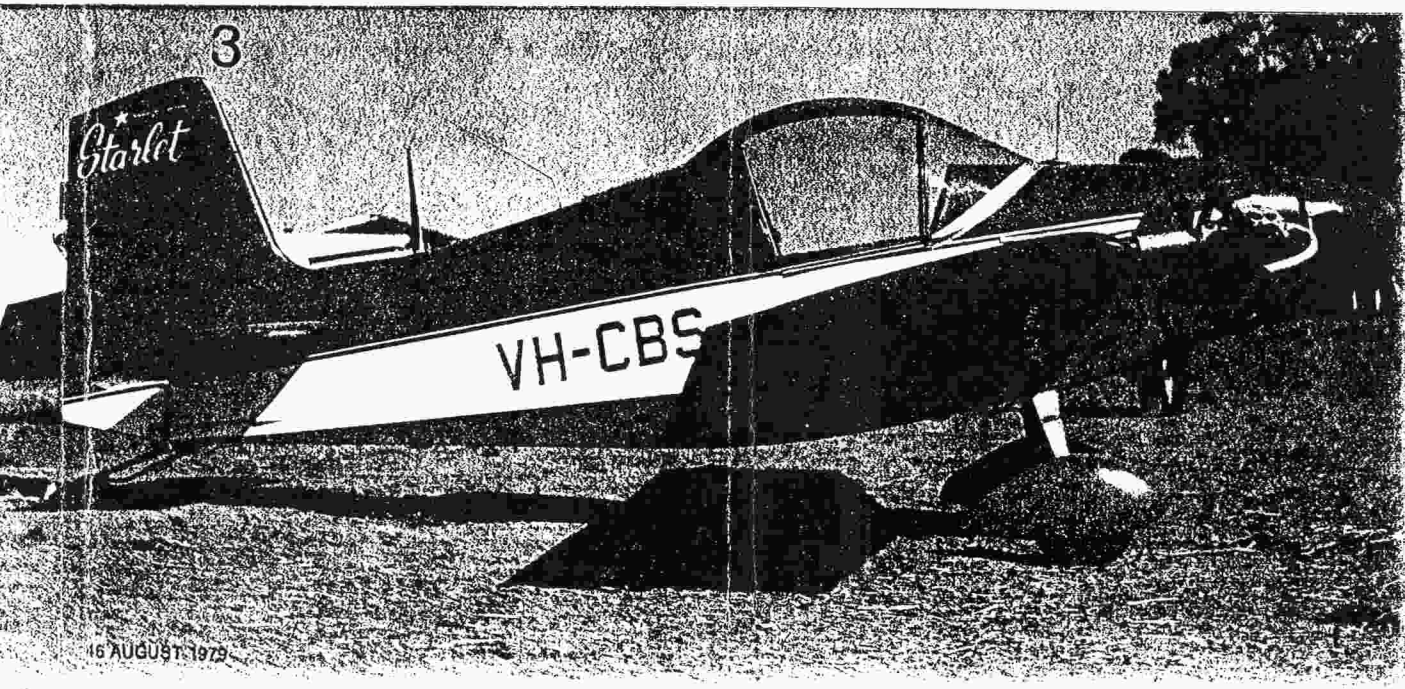
This Aircraft is Accurately Stressed to Australian Standards: ± 4.75 G
Ultimate: 6.75 G

Wood kits, hardware kits and Fiberglas parts available.
An Australian design, over 20 flying now, and doing well in aerobatic competition.
Information pack includes color photos, three views, specifications, materials, suppliers, builders' names. **$7.50** postage paid, U.S.A. only
$9.50 overseas air mail

COMPLETE PLANS, 17 large sheets with construction manual and notes **$110**
(Postage paid, U.S.A. only. Plus postage for overseas mailing)

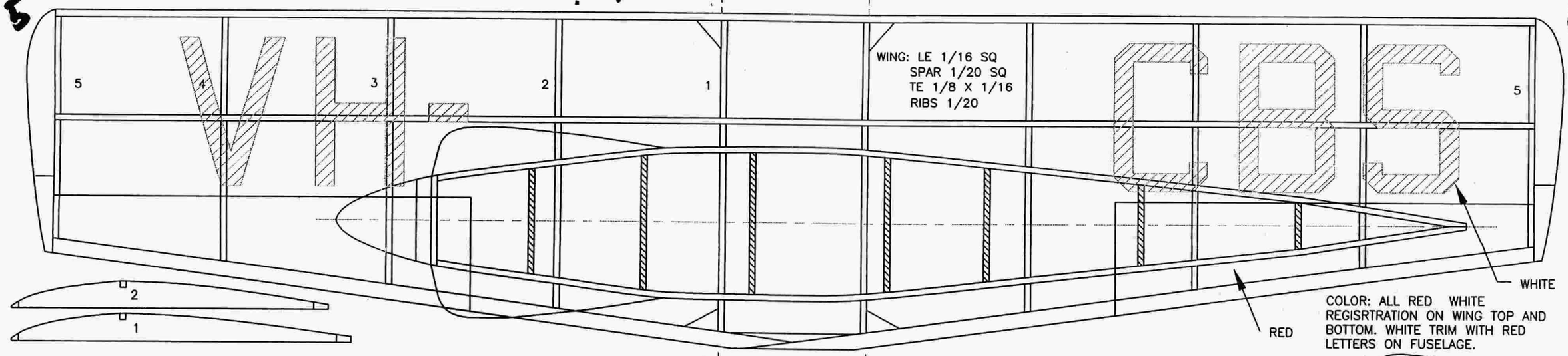
SEND ENQUIRIES TO:

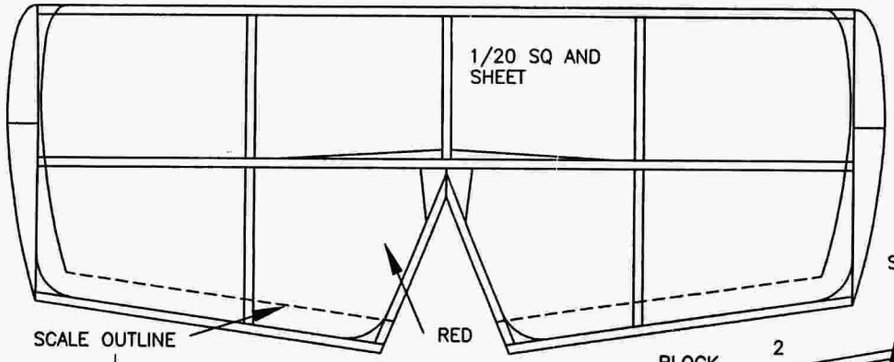
HAPI ENGINES, INC.
ELOY MUNICIPAL AIRPORT, RR NO. 1
BOX 1000, ELOY, ARIZONA 85231
PHONE: 602-448-9244



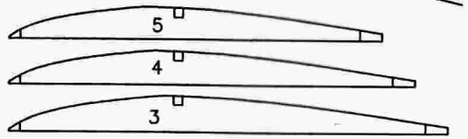
5

6



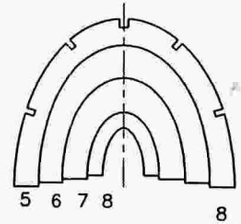


7/8" DIHEDRAL UNDER EACH WING RIB 5
DIHEDRAL BREAK

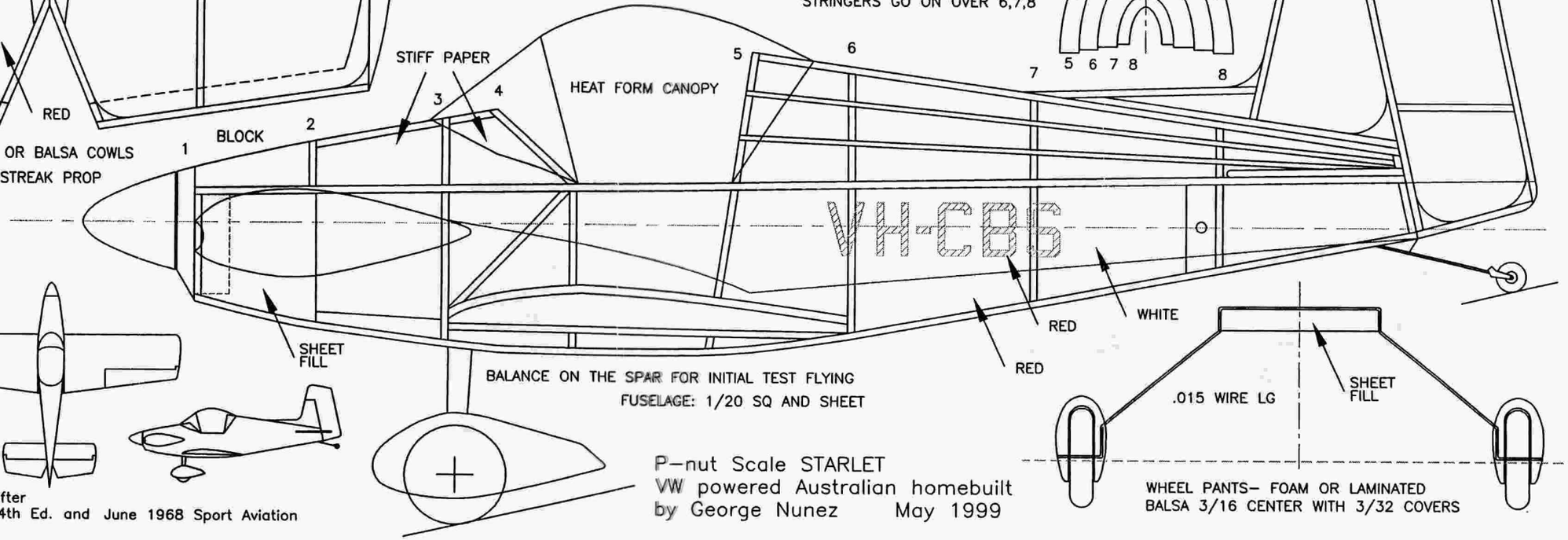


SIDE STRINGERS 1/20 X 1/32
ONLY 5 IS NOTCHED
STRINGERS GO ON OVER 6,7,8

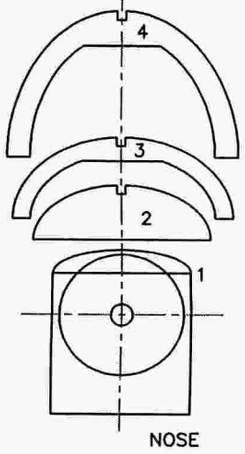
TOP STRINGER ONLY 1/20 SQ.



1/20 SQ AND SHEET



FOAM OR BALSA COWLS
SLEEK STREAK PROP



REF: AeroCrafter
Sourcebook 4th Ed. and June 1968 Sport Aviation

WHEEL PANTS– FOAM OR LAMINATED
BALSA 3/16 CENTER WITH 3/32 COVERS

P–nut Scale STARLET
VW powered Australian homebuilt
by George Nunez May 1999

(7)

TAIL-KICKERS by Mike Nassise

FROM TAILSPIN

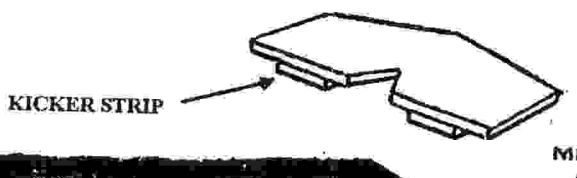
The trim technique with which this article deals was described and demonstrated to me at our last contest by clubster Harry Keshishian. Harry told me that the idea was not original with him, but that he had read about it quite some time ago and was only now getting around to trying it out.

It seems that Harry's new Ki. 61 Tony was giving him lots of trouble by displaying a strong tendency to stall and lose altitude rather than climbing out smoothly whenever it was launched. The usual cure, adjustments in down and side thrust, and the addition of nose weight, didn't seem to help matters very much. Harry was at a loss to explain what was going on with the ship.

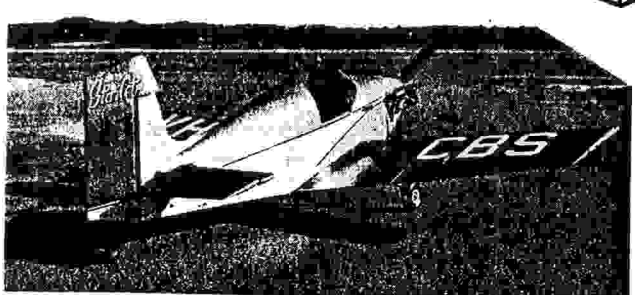
It was at this point that Harry remembered reading about "tail-kickers" in an old magazine article that was concerned with trimming hand launched gliders. The author of that article (Harry can't remember his name) was having the same stallout problems with his HLG that Harry was experiencing with the Tony. The solution, according to this gentleman, could be found by gluing small, thin strips of balsa to the bottom trailing edge of the horizontal stabilizer. This, it was explained, would produce the same effect as lowering the trim tabs on a full-sized airplane and bring the nose down.

Harry decided to try out the idea. He used 1/16" sq. strips and glued them to the trailing edge of the Tony's stab as described in the magazine article (See the drawing below). Much to his surprise, the "tail-kickers" worked. The Tony would now climb out properly and fly quite nicely. The glide, once the motor stopped, didn't seem to be adversely affected. Once he had everything sorted out, Harry painted the strips to match the rest of the airplane and you could hardly tell they were there.

I haven't tried the "kicker strips" myself, but I did see Harry's Tony fly with them during the WW II Combat event and it performed very well (3rd place finish). Give them a try if you're having stall problems. Harry is certainly happy with them.



MN



The second of the famed Rollason Design Contest aircraft to fly, the Corby "Starlet" is the smallest. Temporary fillets at the wing/fuselage juncture have been added at this stage of testing, and a tail skid has replaced the tail wheel.

(8)

KING ORANGE INTERNATIONAL 1999/FAC
5th Annual WINTER OUTDOOR CHAMPIONSHIPS

PALM BAY, FLORIDA
DEC. 29,30,31, 1999

Once again the **Mosquito Sqaudron**, commanded by Steve Bacom, will conduct the 5th annual **FAC WINTER CHAMPIONSHIPS** in conjunction with the 46th annual **FMA KING ORANGE INTERNATIONALS**. There will be 15 **FAC** events in which prizes will be awarded through third place. A separate **FAC** high point trophy will also be awarded for overall point winner in **FAC** events.Flying will take place from 8AM to 5PM each day except on Dec. 31 when all flying ceases at 3PM. All mass launch events will be flown at noon each day. Scale model judging will be conducted at the Flying Field on Wednesday 29th of Dec. beginning at 8AM. You are urged to present all **FAC** Scale models as soon as possible to be judged. **NOTE: This is a correction from previous information.** The current **FAC** rules will apply to all events. Mass Launch will require proof of scale and minimum of 45 scale points. 15% rubber rule applies to Mass Launch also. Dime Scale not eligible for Golden Age.....**For further information contact Steve Bacom at 836 Banbury Dr., Port Orange, FL 32119, Phone (904) 788-7309**



SCHEDULE OF EVENTS

WEDNESDAY Dec. 29th	THURSDAY Dec. 30th	FRIDAY Dec. 31st
Embryo Endurace	FAC Peanut Scale	FAC Rubber Scale
FAC No-Cal Scale	FAC Jumbo/Giant Scale	FAC Power Scale
FAC OT Gas (Elec/CO2)	FAC Golden Age	FAC Dime Scale
Old Time Rubber	Old Time Stick	WWII Mass Launch
Greve/Thompson Trophy Race	WWI Mass Launch	Peanut High Wing

NAME_____AMA_____

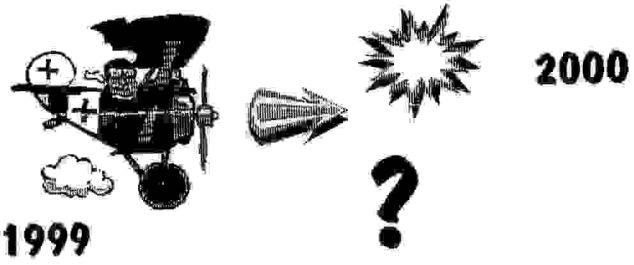
STREET_____JR/SR___OPEN_____

CITY_____STATE___ZIP_____

" LET'S FLY FACCCCCCCCCCCCCCCeeeeeeeeeeeeeee"

FLY ACROSS THE MILLENNIA - THE MODELMASTERS' Y2K POSTAL CONTEST

Here's a flying competition destined to make history. Will your models fall out of the sky at the stroke of midnight? Is your "Chili-Bean" ROG Y2K compliant? Will your 20th century rubber motor still crank the prop in the 21st? Find out the answers by launching a model into the next century. Let others worry about food, water, fuel, and power. ***Be a <u>real</u> modeler! Enter this contest!*** Fly across the millennia!



Fly any indoor or outdoor free-flight aircraft, powered or unpowered. If powered, any type is allowed -- rubber, gas, electric, CO_2, Jetex, steam, nuclear (fission or fusion), or other. Fly anywhere, indoors or out, at home, work, or at a friend's party. Launch before midnight. Record the elapsed time at the stroke of midnight (per radio or TV signal) and the total flight time.

For Junior entrants (under 16 years at when airplane is launched), total flight time must be at least 15 seconds to qualify. For all others, total flight time of 30 seconds minimum is required to qualify.

Winners (Junior, Senior, and overall) will be calculated for three categories. A "Millennial Balance" winner will be calculated for the flight with closest to a 1:1 ratio for time in flight before and after the stroke of midnight. A "Short Leg Endurance" winner will be selected for the maximum endurance of the shorter leg (either before or after midnight) of the flight. The "Total Endurance" winner will have the highest total elapsed flight time. A "Tall Tales" award will go to the person submitting the most interesting writeup of his/her millennial flight (fact or fiction).

Have some safe fun this new year's eve. Enter the Modelmasters' "Fly Across the Millennia" Contest. Use the entry form below or just send in the same info on any piece of paper. Send photos if possible. Entries must be received prior to 1/20/00 and the results (including some of the "tall tales" writeups) will be published in the February 2000 Wing Tips.

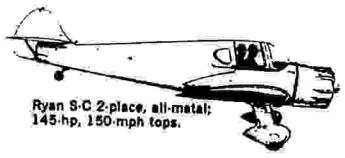
FACING A BORING NEW YEAR'S EVE? OPEN YOUR CHAMPAGNE AND FLY IN THIS POSTAL!

FAC Postal Contests

This year (winter) we are going to give you five FAC events in the postal contest. The events are as follows, Indoor Peanut, Outdoor Peanut, Indoor No-Cal, Outdoor No-Cal and we are adding Dime scale to the list. Fly your models, as many as you wish, send in your time, the event, your name and the name of your model to: FAC-GHQ, 3301 Cindy Lane, Erie, Pa. 16506. Contest times count too. The contest will start for you as you read this! It will end on April 30, 2000. Entries postmarked after May 2, 2000 will not be counted.

DIME SCALE - INDOOR + OUTDOOR

BUILD--FLY--WIN---EFF--AAA--CEE!!



Ryan S-C 2-place, all-metal; 145-hp, 150-mph tops.

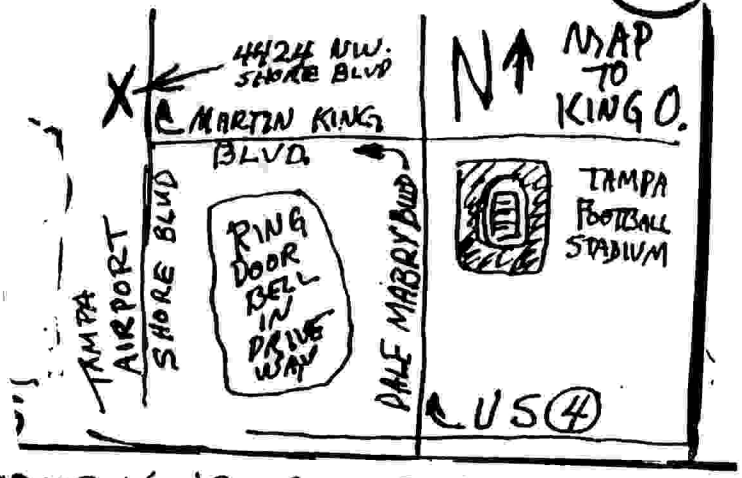
TAKE A NEW YEARS HOLIDAY IN FLA.

MIAMA-DELTA KING ORANGE INDOOR

70 FEET CAT III FLAT UNOBSTRUCTED CEILING - 6000 S.FT.

TWO FULL DAYS OF "COURTEOUS" FLYING FOR EVERY TYPE OF INDOOR MODEL. ALL EVENTS ALL DAYS. SIXTEEN HOURS OF FLYING. NO WAITING FOR YOUR EVENT TO BEGIN OR HURRYING TO GET IN A FLIGHT BEFORE IT'S OVER. NO ELECTRICS, PLEASE.

10



INDOOR KING ORANGE JAN 1, 2

C/D RICH MACENTEE 941-729-1524

HELP WANTED: MODEL BUILDERS

Don Ross has asked for experienced modelers to help him evaluate various model airplane kits. He just can't build them himself at the rate that he needs for his magazine column. Also needs good photos of finished models. Contact him at 201-568-5272.

MODELMASTERS' Y2K "FLY ACROSS THE MILLENNIUM" POSTAL CONTEST ENTRY

Send to: Jesse Aronstein, Wing Tips Editor
50 Pasture Lane
Poughkeepsie, NY 12603

Name: _____

Address: _____

_____

_____

DESCRIBE MODEL ENTERED: _____

_____

_____

ELAPSED TIME AT 12:00 AM 1/1/00 _____ **sec.**

TOTAL FLIGHT TIME _____ **sec.**

TIMED/WITNESSED BY : _____

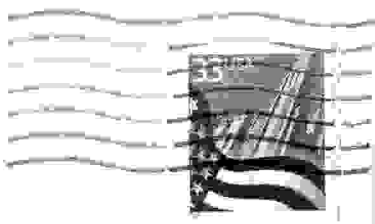
Enclose writeup (fact or fiction) to enter "Y2K Tall Tales" competition.

WHAT'S ON IN FREE FLIGHT ?

MIAMA MEET 3 - TAMPA ARMORY - NOV 27,28 305-858-6363
DEC 4 - PALM BAY RECORD TRIALS + COOK OUT RON SHARPTON 404-767-6138
DEC. 29-31 PALM BAY KING ORANGE WITH FAC EVENTS. SEE PAGE 8 FOR FAC EVENTS
JAN 1,2 TAMPA AIRPORT DELTA AIRLINE MAINT. HANGAR KING ORANGE INDOOR + MIAMA MEET 4 - MAP ON P. 10
JAN 29,30 - NOT CONFIRMED. TROPICANA RECORD TRIALS AND MIAMA MEET 5 C/D STEVE NORIEGA 813.254.9760

THE HANGAR PILOT
EDITOR: DR JOHN MARTIN, JR
2180 TIGERTAIL AVE MIAMI FLA. 33133

PM
1
1995



Walt Erbach
2979 Dudley
Lincoln, NE
68503

68503X1847 12