THE HANGAR PILOT

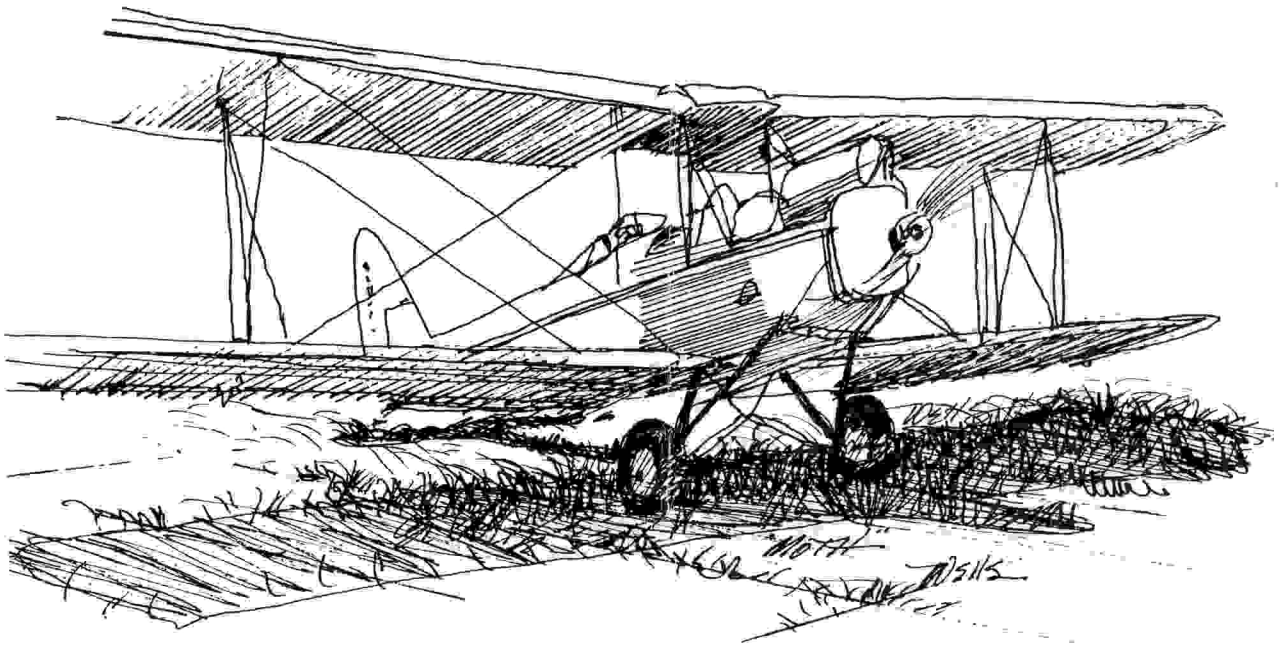
EVOCATIVE

MIAMI INDOOR AIRCRAFT MODEL ASSOCIATION — MIAMA

19TH YEAR OF PUBLICATION-
INDOOR ISN'T FOR EVERYONE

ISSUE 135

- MIAMA HALL OF FAME
- SOTICH 'FUDGE FACTOR' UPDATE
- JIM CLEM'S WINNING JOHNSON CITY F.R.O.G. 7MIN. 51 SEC.
- TWO OBSCURE FRENCH GOLDEN AGE TANDEMS
- CEZAR BANKS 'VARIABLE PITCH PROP.



DeHaviland Moth 1957. Restored by Charlie Flaglor with Millard Wells designed color scheme. Sketch by Wells

SEASON OPENER: SEPT. 22 23

MACDILL AFB - TAMPA 9-5

MIAMA INDOOR MEET #1

(1)



"LIKE A LETTER FROM HOME" WHELAN

THE HANGAR PILOT

Is published 8 (or 9) times a season for a bunch of middle aged guys who refuse to grow up. MIAMA (Miami Indoor Aircraft Model Association,) AMA Club 986, is one of two active all indoor free flight clubs in AMA.

Our Mottos: "It must be fun.", and "Indoor isn't for everyone." For $12.50 a year you will receive all copies.

We solicit your contributions since we are always running out of material. Letters, plans, 3-views, articles, gripes, and Money to:

Dr. John Martin Pres./Editor. 2180 Tigertail Ave. Miami, Fla. 33133 USA

Phone: 305-858-6363 We want to hear from you!!! Send material!!!

NOTE NEW $12.50 ANNUAL RATE

WHAT I DID ON MY SUMMER VACATION -

Remember that old Chestnut? Bam, the first day you were back in English class they hit you with that assignment. Well, there was lots of Summer activity..almost all of it outdoors, and not reported in this issue. Millard Wells great ROW meet, John's San A City, Middle Wallop Battle of Britain meet, Old Warden Vintage meet, flying in the Blimp Hangar, etc.

But now it's back to MIAMA indoor season eighteen. Something happening about every two weeks..see back cover for schedule.

THE NEW SEASON STARTS

MEET #1 MAC DILL AFB SEPT 22, 23

YOU HAVE JUST A FEW DAYS TO FINISH THAT MODEL YOU WORKED ON THIS SUMMER AND TO PATCH UP SOME OF LAST YEAR'S. ON THE OPPOSITE PAGE ARE THE 10 EVENTS WE FLY - SURELY ONE OF THEM INTERESTS YOU. FLY FOR TOTAL POINTS OR CONCENTRATE ON ONE EVENT - JUST BE SURE YOU'RE HAVING FUN!

1989-1990 SEASON

BEST 5 OF 6 MEETS

(2)

MIAMA HALL OF FAME

STATE CHAMP. 1989/90 - WAYNE TRIVIN

RUNNER-UP - DOC MARTIN

OVERALL POINTS:

1. Wayne Trivin	131
2. John Martin	107
3. Dick Obarski	81
4. Richard MacEntee	76
5. George Nunez	47
6. Walt Everson	36
7. Dave Linstrum	35
8. George Leffler	32
9. Millard Wells	27
10. John Tudor	21
11. Walt Schlesinger	19
12. Bill Stoutenburg	13
13. Tom Flanagan	12
14. John Voorhees	11
14. Judi Cohen	11
16. John Barker	8
16. Dick Hardcastle	8
18. Stan Chilton	7
18. Richard Laudati	7
20. Kieth Fulmer	6
20. Jim Miller	6
22. Bill Criss	2
22. John LeBlanc	4
23. J. McCoy	2
25. Jake Larson	1
26. Ellis Oglesby	3

FAC NO-CAL SCALE

1. John Martin	14
2. Dave Linstrum	5
3. Walt Everson	5
4. John Voorhees	5
5. Walt Schlessinger	3
6. Mike Arak	3
7. John Tudor	2

FROG - FEDERATION REG:

1. Dick Obarski	18
2. Wayne Trivin	16
3. George Leffler	9
4. John Martin	4
5. Walt Everson	2

EVENT RESULTS:

PEANUT SCALE:

1. John Martin	32
2. George Nunez	26
3. Wayne Trivin	25
4. Walt Everson	16
5. Millard Wells	15
6. Rich MacEntee	12
7. Carl Hedley	11
8. Bill Stoutenburg	7
9. John Tudor	6
10. Jim Miller	6
11. Judi Nunez	4
12. Tom Flanagan	4
13. Tom McCoy	2
14. John Voorhees	1
15. John LeBlanc	1

BOSTONIAN:

1. Wayne Trivin	37
2. Rich MacEntee	32
3. John Martin	24
4. Dick Obarski	22
5. Dave Linstrum	12
6. Roger LaudaTI	8
7. Carl Hedley	7
8. Tom Flanagan	6
8. Kieth Fulmer	6
8. Walt Schlessinger	6
8. Millard Wells	6
12. Fred Beeson	4
12. Bill Stoutenburg	4
14. John Tudor	3

EMBRYO ENDURANCE:

1. Richard MacEntee	25
2. Wayne Trivin	21
3. Dave Linstrum	20
4. John Martin	18
5. Walt Everson	8
6. Walt Schlesinger	7
7. Bill Stoutenburg	6
8. Tom Flanagan	4
9. Fred Beeson	4
10. Bill Criss	2
11. Russ Dorsey	3

FLYING ACES SCALE:

1. John Martin	23
2. George Nunez	21
3. John Tudor	14
4. Rich MacEntee	8
5. Walt Schlesinger	5
5. Judi Nunez	5
7. Millard Wells	4
8. Dick Obarski	3
9. Jake Larson	1

COCONUT SCALE:

1. John Martin	7
2. DAVE Linstrum	6
3. Judi Nunez	5
4. John LeBlanc	3
5. John Tudor	1

EASY B:

1. Dick Obarski	24
2. Wayne Trivin	18
3. George Leffler	8
4. Dick Hardcastle	8
5. John Baker	8
6. Rich MacEntee	7
7. Stan CHilton	7
8. Ken Groves	6
9. Millard Wells	3
10. Tom Flanagan	3
11. Roger Laudati	3

NOVICE PENNY PLANE:

1. Wayne Trivin	18
2. George Leffler	15
3. Dick Obarski	9
4. Rich MacEntee	8
5. Ken Groves	6
6. John Voorhees	4
7. John Barker	3
8. Walt Everson	1

CATAPULT GLIDER

1. Wayne Trivin	13
2. Dick Obarski	7
3. Ellis Oglesby	3
4. Kieth Fulmer	2
4. B. Miller	2
6. John Voorhees	1

THANKS TO ALL YOU HANGAR PILOTS WHO FLEW + MADE OUR SEASON A SUCCESS. COME OUT AND PARTICIPATE THIS NEW SEASON. COMPETITION IS FUN!

(3)

CORRECTION FACTOR TO 116 FEET - ETSU- JOHNSON CITY, TN

FUDGE FACTOR:

$C.F. = \sqrt{\frac{116}{\text{HEIGHT}}}$

COLUMN I HEIGHT OF MAX. ALTITUDE	COLUMN II C.F.
116	1.0000
114	1.0087
112	1.0177
110	1.0269
108	1.0364
106	1.0461
104	1.0561
102	1.0664
100	1.0770
98	1.0880
96	1.0992
94	1.1109
92	1.1229
90	1.1353
88	1.1481
86	1.1614
84	1.1751
82	1.1894
80	1.2042
78	1.2195
76	1.2354
74	1.2520
72	1.2693
70	1.2873
68	1.3061
66	1.3257
64	1.3463
62	1.3678
60	1.3904
58	1.4142
56	1.4392
54	1.4657
52	1.4936
50	1.5231
48	1.5546
46	1.5880
44	1.6237
42	1.6619
40	1.7029
38	1.7472
36	1.7951
34	1.8471
32	1.9039
30	1.9664
28	2.0354
26	2.1122
24	2.1985
22	2.2962
20	2.4083
18	2.5386
16	2.6926
14	2.8785
12	3.1091
10	3.4059
8	3.8079

Dear Doc,

I hope the enclosed sheet has the information you wanted. The ceiling height is given in column I. The time made in a given ceiling is multiplied by the correction factor (C.F.) in column II and thus gives the time it should be able to make in a 116 foot ceiling.

EXAMPLE 1. If a model does 72 second in a 32 foot ceiling, what time should it make in Johnson City, 116 ft?

The correction factor for a 32 ft. ceiling is 1.9039

72 sec x 1.9039 = 137 seconds.

GOING BACKWARDS

EXAMPLE 2. If a model flys for 3 Min 16 second in Johnson City, how much time could it make in a 35 foot ceiling?

3 MIN. 16 SEC = 180 + 16 = 196 SEC.

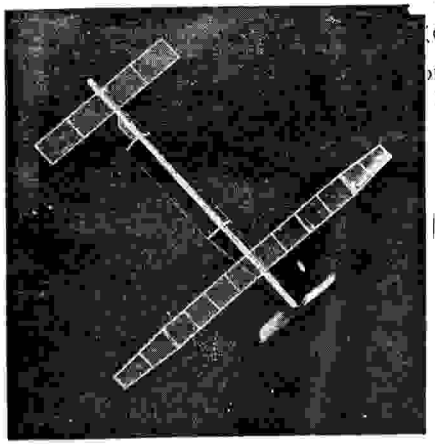
CF 36' = 1.7951, & CF 34' = 1.8471

CF 35' = $\frac{1.7951 + 1.8471}{2}$ = 1.8211 (APPROXIMATE VALUE)

$\frac{196}{1.8211}$ = 107.6 sec.

HERE IT IS, PILOTS - CHARLIE SOTICH HAS WORKED OUT A NEW "FUDGE FACTOR" BASED ON THE JOHNSON CITY SITE. USING THIS, WE (ALL INDOOR CLUBS) CAN HAVE POSTAL COMPETITIONS WHERE OUR TIMES WILL ALL BE CORRECTED TO THE CEILING HEIGHT WHERE WE FLY. SAVE THIS TABLE & REFER TO IT FOR FUTURE POSTAL MEETS... LIKE BOSTONIAN, BUSH AVENGER, AND OTHERS. KNOW THE HEIGHT OF YOUR SITE.

} LIVING ROOM HEIGHT !



The totally unique appearance of a typical Federation ROG shows clearly as this example passes directly overhead. Despite being limited to a mere 30 sq. in. of wing area, the FROGs are a blend of simplicity and high-technology that can produce flights of well over seven minutes using a six-inch plastic prop. Note the thin bracing wires extending down either side of the model's motor stick.



Looooong Tail FROG (Federation ROG). The tail boom on Manny Radoff's model looks to be about five feet long to accomodate a long, skinny rubber motor.

FROM NFFS

THE LATEST DEVELOPMENTS IN FROG SEE NEXT PAGE

Peanuts & Pistachios Power HIGH-OUTPUT RUBBER STRIP for PEANUTS & PISTACHIOS!

Available in **1/32** inch, **1/16** inch, and **3/32** inch widths at **$1.98** per 20-foot skein.

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WINNING INDOOR DESIGNS **NEW!**

UNITED STATES INDOOR CHAMPIONSHIPS 1987-1989

A **SUPER** publication by the NATIONAL FREE FLIGHT SOCIETY! This softbound 130-page book is brimming with plans and descriptions of indoor models of many types including: Profile Scale, Peanut Scale, Peanut Speed, AMA Scale, Bostonians, Manhattans, Microfilms, autogyros, R.O.Gs, Helicopters, and Ornithopters. Sprinkled throughout are charming Elizabeth Krush "indoor ambiance" line-drawings plus Dr. Will Nakashima's incomparable cartoons! **$18.95**

"Let's hear it for Pistachios and Peanuts!"

HANNAN'S RUNWAY proudly presents PEANUTS & PISTACHIOS #5, with more pages and more plans! 5 is a doubly appropriate number, since this volume coincides with the fifth-year anniversary of HANNAN'S RUNWAY. We appreciate your past support and enthusiastic encouragement. May we serve you again?

Bill and Joan

IN JUST A FEW DAYS - MIAMA MEET #1 SEPT. 22-23
FAC MASS LAUNCH.... GOLDEN AGE - ANY SIZE MODEL

(15) FLAT WINGSPAN - 16 7/8"
PROJECTED WITH DIHEDRAL - 16"
AREA - 305 SQ. IN.

JAVELIN XL

STATE OF THE ART ℄ JOHNSON CITY 1990 WINNING F.R.O.G. (10)
FROM BURR STANTON

TIP DIHEDRAL ONLY 1/2"

1/16" T.E.

LEFT WING IS 4" LONGER

FROM HERE

RIGHT WING

LEFT WING

WINDING THE FROG

NOTE: NO L.G. NOTED ON PLAN SO IMPROVISE!

1/16" L.E.

13" 13"

1 1/2" x 1/16" MONO-WIRE POST

.005 KEVLAR MONO-WIRE

DON'T LET 26" MOTOR STICK + LENGTH OF MOTOR + # OF TURNS ESCAPE YOUR NOTICE!

.015 HOOKS FRONT + REAR

.015 x 1/2 WEBS FRONT + REAR

2" INSERT TO JOIN "TWO" STICKS TO MAKE ONE 26" STICK

4 EA. .004 BORON @ 90°

HARLAN THRUST BEAR.

WOW! ! !

JIM CLEM'S
JAVELIN — XL
(Extra Long!!)

A Federation ROG--1st Place USIC 1990 with a time of

7:51

Motor .050 X .040 X 60 in. FAI-Tan with 6250 Turns

All-up weight (less motor) 3.28 grams

Harlan Thrust Bearing
6" Tern Plastic Prop (well shaved, of course)

Complete construction details on the drawings. Note flat center section of wing and dihedral at tips only!

1/20 L.E.

STAB.

1/32 CAMBERED RIBS FROG R.O.G.

NOTE: METHOD OF MOUNTING STAB + TAIL BOOM NOT SHOWN ON PLAN. ALSO NO RUDDER PLAN SHOWN. WE'RE NOT PERFECT, RIGHT, BURR? .....

COVER COMPLETE MODEL WITH HARLAN ULTRA FILM

ALSO NO WING OR STAB AIRFOIL SHOWN - COULD JIM BE HOLDING OUT ON US?

NOTE: REDUCE MOTOR STICK WT. BY .18 GM.

1/20" T.E.

MOTOR STICK TUBULAR 9/32" DIA. x 26" LONG

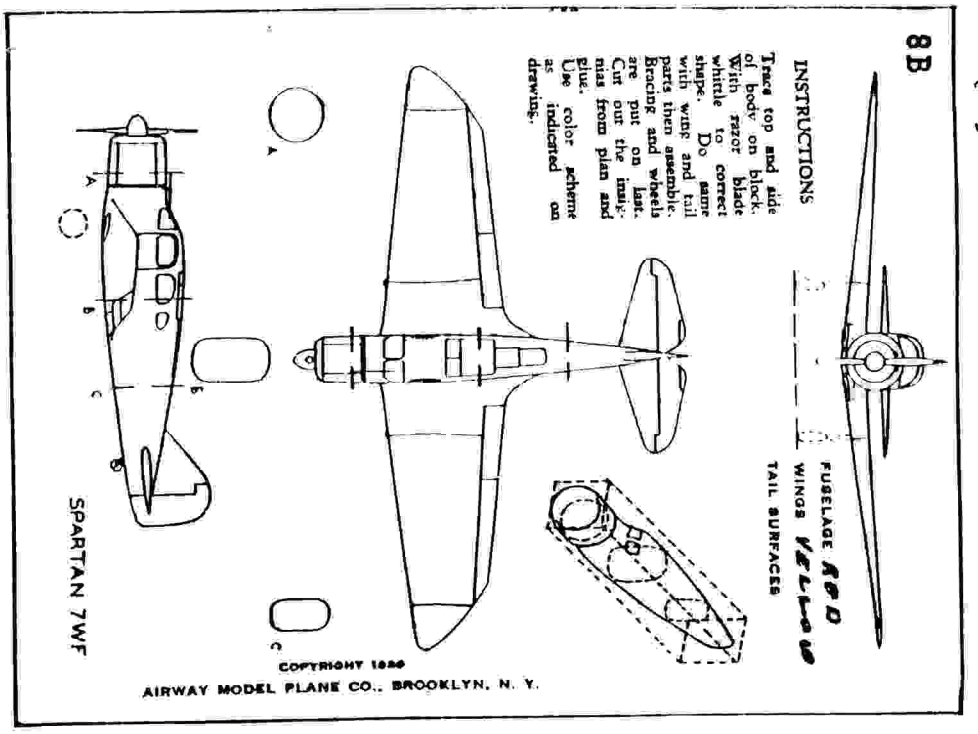
BOTH WING POSTS 1 1/2" LONG x 1/16" ϕ MOUNT REAR WING POST 1/4" IN FRONT OF C.G. ON STICK

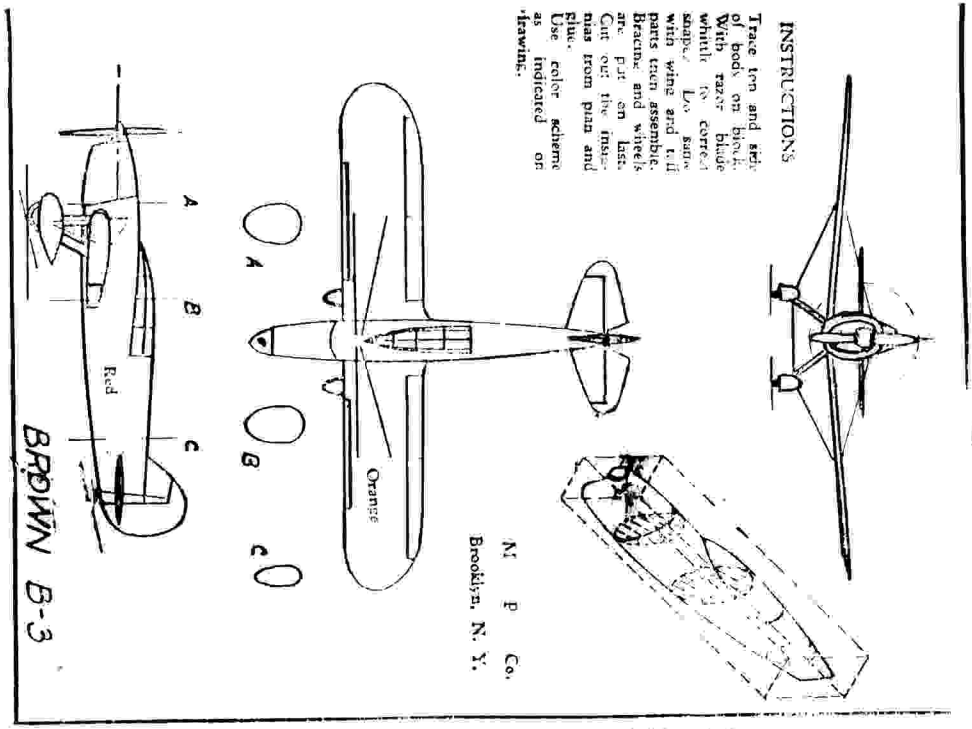
6" TERN PLASTIC PROP.

★ TAIL BOOM 1/16" ϕ x 8" : TOTAL FUSELAGE LENGTH 34" NOT SHOWN

MAKE 2 EA. MOTOR STICK BLANKS 19/64 x .018 x 18" 4-#½ LB. WOOD

(6)





TWO MORE "PENNY" SOLID MODEL PLANS FROM THE LATE 1930'S.

ANYONE HAVE ANY MORE INFORMATION ON THE BROWN B-3?

A PHOTO OR TWO, A COLOR REFERENCE, OR SOME HISTORY? I SEEM TO RECALL A CONTINENTAL F/D KIT OF IT.

LET'S HEAR FROM YOU.

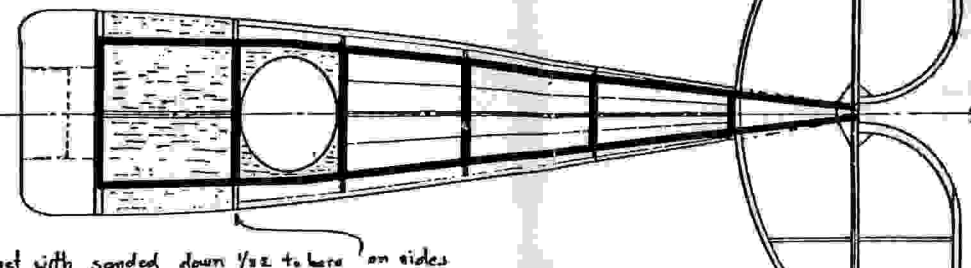
I DOUBT, VERY MUCH, THAT IT HAD A RED FUSELAGE AND ORANGE WINGS.

Copyright 1937 AIRWAY MODEL PLANE CO.

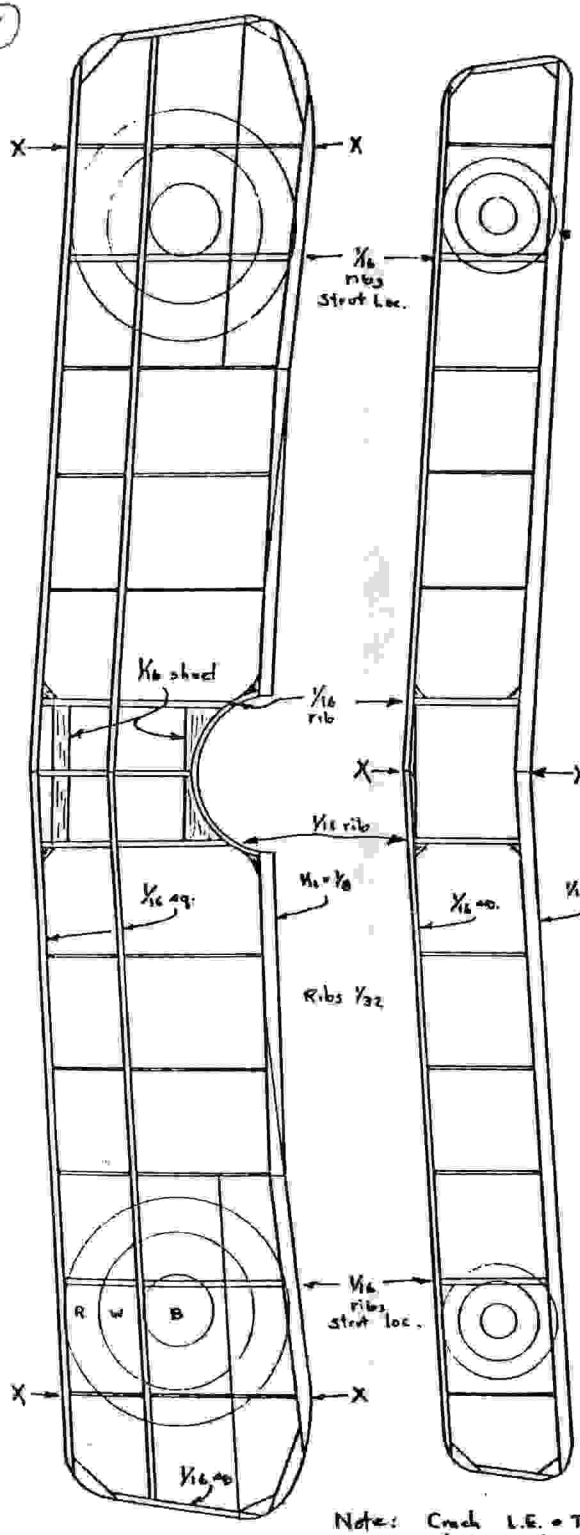
PILOTS - HERE IS GEO. NUNEZ' PEANUT SPEED 2ND PLACE WINNER AT JOHNSON CITY 1989. IGNORE THE WOOD SIZE CALL OUTS IF BUILDING IT IN PISTACHIO SIZE

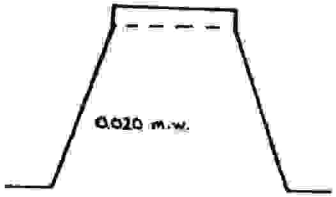
All outlines are scale except for a 13% increase in stab area and Lower wing has increased dihedral.

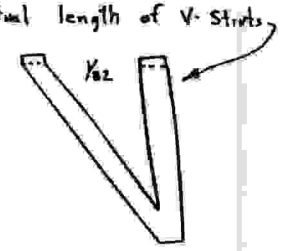
Stab.: All frame work 1/20"
3 Balsa lams. 1/20"
Ribs 1/20 x 1/32

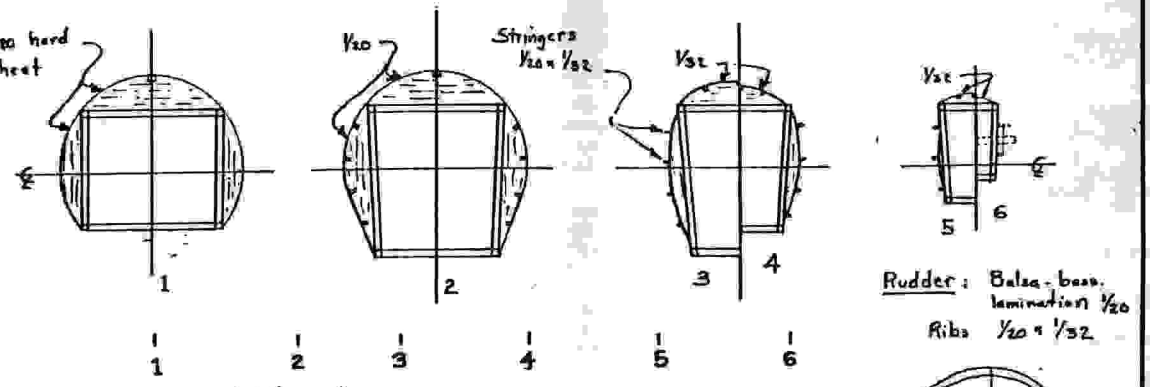


ANOTHER MIAMA FLIGHT TESTED PLAN



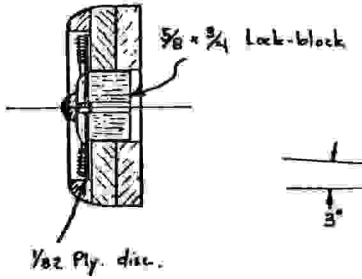


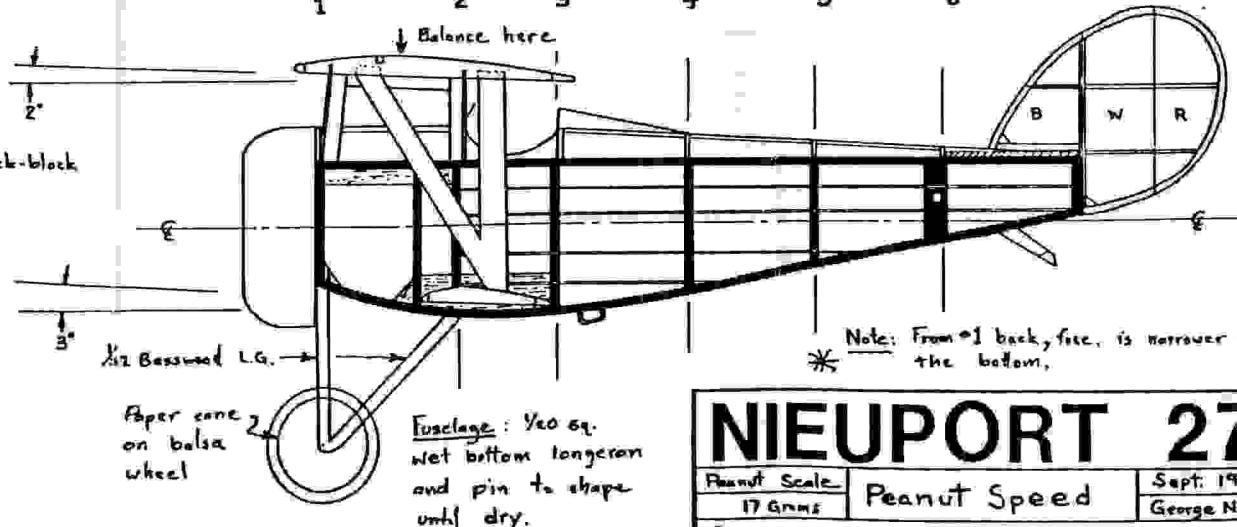




Rudder: Balsa - bass. lamination 1/20
Ribs 1/20 x 1/32

Plastic 5 in. prop
Peak nylon button

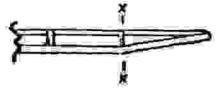




Fuselage: 1/20 sq. wet bottom longeron and pin to shape until dry.

* Note: From #1 back, fuse. is narrower on the bottom.

Note: Crack L.E. & T.E. of top wing at X and bend up to widest wing spar. No dihedral except for tips.



NIEUPORT 27

Peanut Scale 17 Gnms	Peanut Speed	Sept. 1988 George Nunez

Power: 16 in. loop FAI tan 1/8" 900 turns
Flies left - left for about 40 sec. indoors

Ref: Feb. '85 MODEL Aviation

INDOOR MODEL SUPPLY

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FOR CONTEST & SPORT IN AND OUTDOORS

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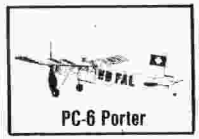


PEANUT SCALE
1924 Farman
Piper Vagabond
Piper Cub
Stinson 125
Outdoor kits each . . . $7.95



OUTDOOR PEANUT
Super Scale. $7.95

NEW! MICRO-X HORNET P-30



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Taylor Craft
Stinson Voyager
Rubber or CO_2 Power
Kits each $9.95



SPORT MODELS
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Run over twice, she lucks out

UNADILLA, N.Y. (AP) — Rosalie Searles may be the luckiest woman ever to have been run over by two cars in one day.

Searles escaped without broken bones or other serious injuries early Thursday when she was accidentally run over, first by her husband, then by a fireman responding to the accident, state police said.

Both drivers were charged with driving while intoxicated.

Searles' misfortune began around 2:30 a.m. Thursday when she and her husband, Gary Searles, 37, were arguing in their car in this central New York town, according to a state police arrest report.

Mrs. Searles, 30, had her passenger-side door open and somehow fell out onto the road, police said. Mr. Searles accidentally hit the gas pedal and ran over his wife's right leg.

Mrs. Searles lay in the road waiting for an ambulance with police when the fireman, Eric J. Barnes, 22, drove around the police cars and ran over both of her feet.

She was taken to a hospital in nearby Sidney, treated for bruises and scrapes and released, police said.

• The cooling system of the University of Florida's nuclear reactor malfunctioned whenever a toilet was flushed in the reactor building. A sign on the building's lavatory doors read, "Please don't flush the toilet while the reactor is running." Untimely flushes caused the reactor to be shut down five times between 1975 and 1978. *UPI*

Dr. Max Feldman put a patient under anesthesia for dental work, whereupon she grabbed a stranglehold on his testicles.

The patient then sued and won a $500 verdict because Dr. Feldman broke her finger in an attempt to free himself.

Wolfe v. Feldman
City Court of New York (1936)

UNDERWEAR EQUITY AT CSUC: Chico State's new athletic director, Janet Kittell, is "looking into" a purchase order for jock straps that came across her desk from the men's equipment room. Kittell said the athletic program will continue to buy jock straps for male athletes, because they are necessary equipment. At the same time, she has suggested the university also pay for sports bras for female athletes to insure equipment is being provided in a 'fair and consistent manner.... If a sports bra is equally important, then we're going to do that also," said Kittell, adding that the subject was "not a story."

• According to a correction published in the *Gallatin* (Tennessee) *News-Examiner*, the minutes of the election commission's April 14 meeting were changed to reflect that Commissioner Kirby had called Commissioner Emhling a "smartass" instead of an "asshole."

FLY THE NEW SEASON

* HIGHLY RECOMMENDED

• After Princeton, West Virginia, residents complained about their water's smell in August, West Virginia America Water Company workers found a body in a 100,000-gallon tank. Officials said the water was not dangerous but that for a few days customers should boil it anyway.

(11)

FREE FLIGHT SURVEY

YOUR URGENT ATTENTION!

Please make a small, but important effort and contribute to our future welfare by filling out the survey form and mailing it.

The NFFS and AMA really do not have a good handle on Free Flight activity in the USA. The record has not been properly updated and is urgently required to aid in the direction of future Free Flight activities. (Members outside the USA should also complete the survey, however the data will be separated from the USA data.)

Please mail your completed survey form(s) no later than March 17, 1990. — BETTER LATE THAN NEVER
IGNORE DEADLINE
IF YOU HAVEN'T ALREADY — PLEASE SEND TO TONY NOW

Send to: Anthony J. Italiano
1655 Revere Drive
Brookfield, WI 53005

MEMO: RUBBER LUBE Dow Corning 111 Valve Lubricant and Sealant is a chemically inert, white translucent grease, used in industry as a sealant, lubricant and dielectric coating. It is also unsurpassed, I believe, as a rubber motor lubricant. It permanently lubes, preserves, and does not splash off onto the model structure. I have used it since 1948 and find that motors so lubed may be stored for 2-3 years; retaining their pre-storage characteristics. To keep this slippery stuff from coating your hands, a zip-lok plastic bag is best used for working a dab of lube (3/8" squeezed from tube for a Jabberwok motor) into the rubber. After wiping off any excess, you will find your motor ready for repeated windings. The only health warning is to keep it from your eyes as it is not easily dissolved. This really is the slipperiest stuff around. For further info and where to get it contact John Tudor (407) 725-3563 or Bo Robinson (407) 290-8139.

GOOD OLD FLORIDA - ALWAYS SEEKING JUSTICE

Lawyers may let client lie, court says

The state Supreme Court has unanimously approved a revision of rules proposed by the Florida Bar that will allow lawyers to offer perjured testimony if ordered to do so by judges.

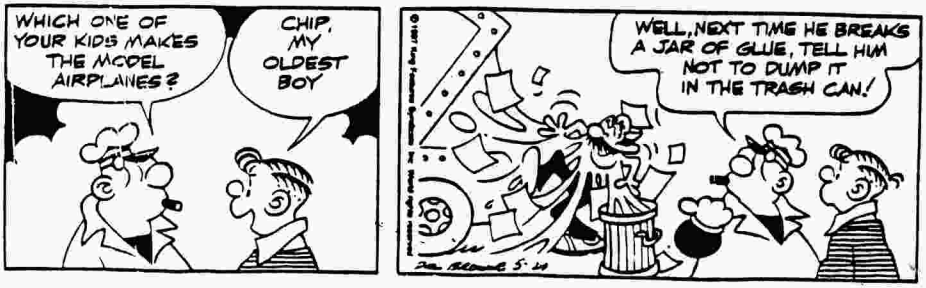
Miami attorney Ellis Rubin, who spent 37 days in jail in 1986 after being charged with contempt of court for refusing to represent a client he believed would lie on the stand, blasted the court's action as "unconscionable."

The new rule allows a lawyer to offer testimony he knows to be false only if ordered to do so by a judge. Otherwise, the rule would continue an existing ban on presenting knowingly false testimony.

"The entire legal community is laughing at Florida," Rubin said, adding that he would never comply with the rule and would return to jail if necessary.

But in their ruling Thursday the justices accepted the Bar's reasoning that "an advocate does not vouch for the evidence submitted in a cause; the tribunal is responsible for assessing its probative value."

Hi and Lois **by Walker & Browne**



(12)

1990 - INDOOR SURVEY

I am interested in Indoor activity as a:

Competitor____, Enthusiast/Supporter____, Sport Flyer_____.

I am a member of: AMA____, NFFS____.
NIMAS____ SAM____ FAC____ MECA____ OTHER____.

INTERESTS:

HLG/Catapult G. ___
NPP/PP ___
Easy B ___
Ultra Lite (microfilm type)___
Bostonian/No-Cal ___
P-Nut/AMA Scale ___
Manhattan/Orn/ Helicopter ___
Intermediate STK ___
ROG (Cabin)/STK ___
Other _____
R/C Soaring _____
Other R/C _____

CONTESTS I HAVE ENTERED:

1 to 3 in 1989___ over 3___
1 to 3 in 1988___ over 3___
1 to 3 in 1987___ over 3___
1 to 3 in 1986___ over 3___

On an overall average, how much do you estimate you spent on Indoor Modeling (exclusive of travel expenses).
1989 _____ 1988 _____
1987 _____ 1986 _____

Have you traveled over 300 miles (one way) to a contest during these years? _____

How many Indoor Models of all types did you build in:
1989 _____ 1988 _____ 1987 _____ 1986 _____

AGE GROUP: JR. ___ SR. ___ OP. ___
Under 30 ___ Under 50 ___ Over 50 ___

**********PLEASE PRINT!**********

OCCUPATION: _____

REMARKS: _____

_____

_____

_____

NAME: _____

ADDRESS: _____

CITY, STATE ZIP: _____

PHONE: _____

(13)



Ci-dessous, le Lignel SFCA « Taupin » 5/2 à moteur Régnier de 70 ch. Un biplace de tourisme devant permettre l'école dans des conditions exceptionnelles de sécurité pour le pilote débutant.

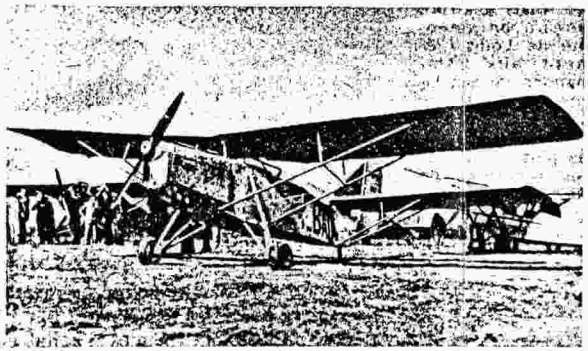
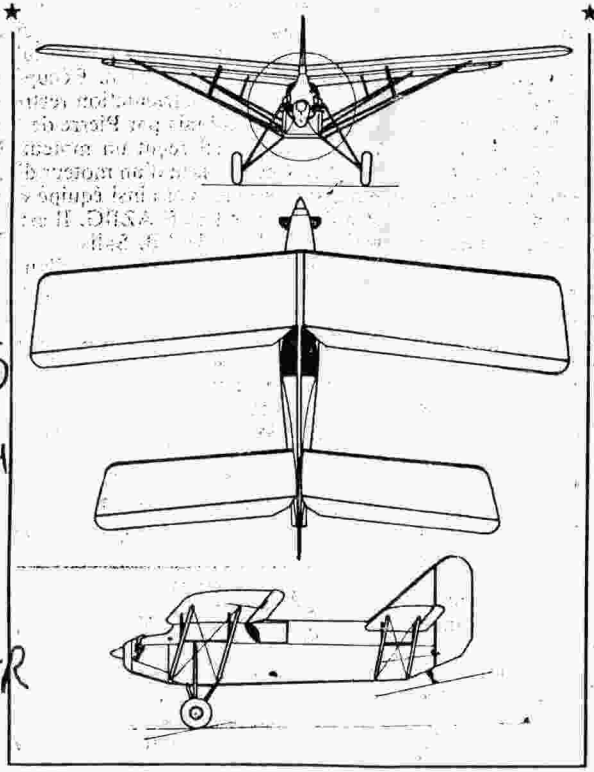
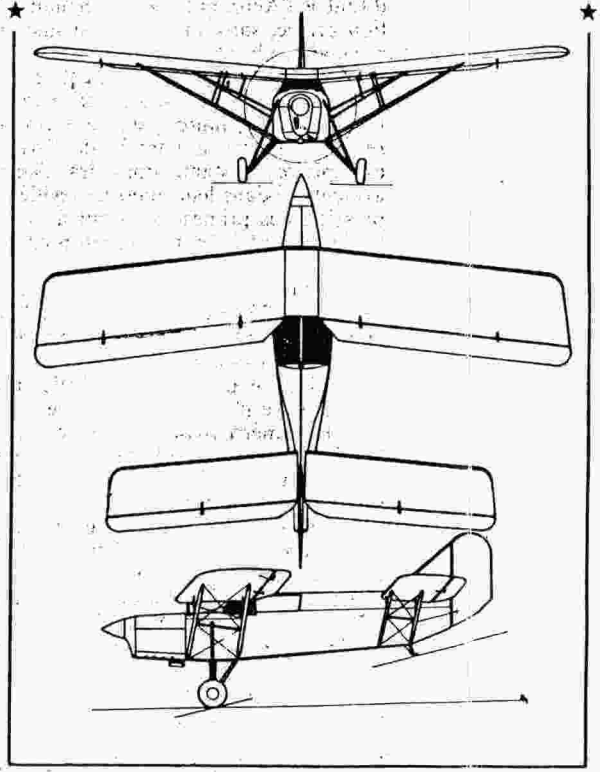


Photo et plan trois vues du troisième « Taupin » signé SFCA, le F-AONO de 1937 à moteur Mengin de 32 ch. Cet appareil définissait la version de série destinée à l'aviation populaire.





WHO WILL BE THE FIRST ONE (AFTER ME) TO BUILD ONE OF THESE GREAT FRENCH TANDEMS?

THANKS TO ALAN PARMENTIER MONTREUIL, FRANCE!

ALAN, HAVE YOU A COLOR SCHEME?

AviMail 822 (15-3-82)

SFCA "TAUPIN"

LIGNEL SFCA "TAUPIN" 5/2

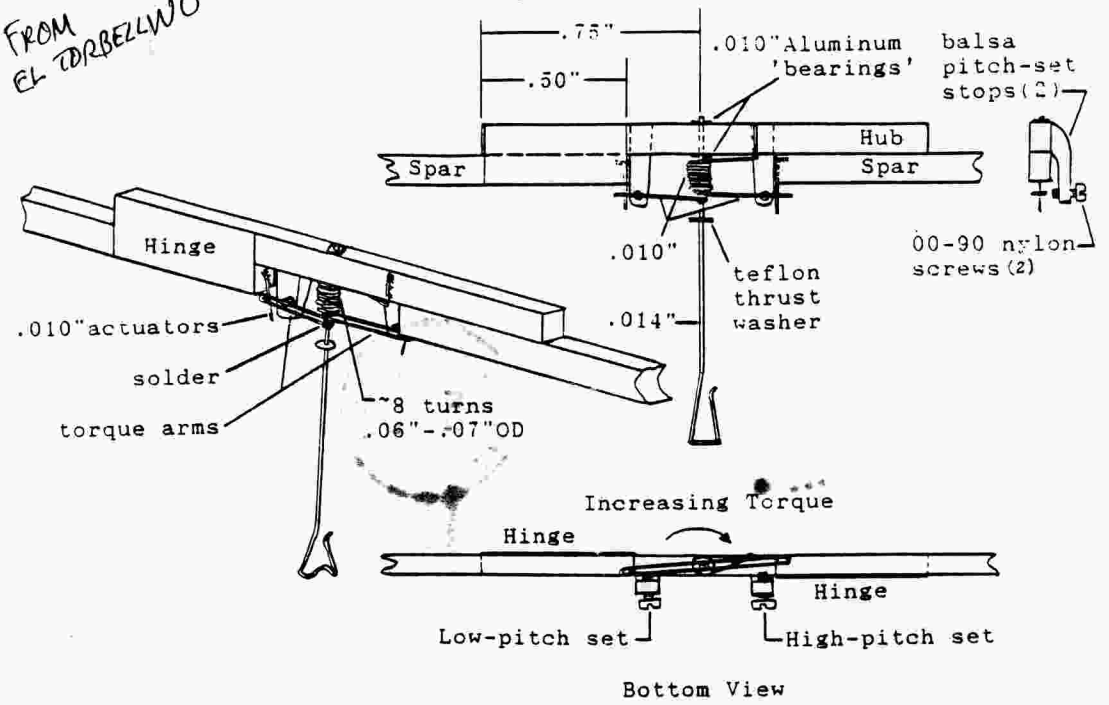
ATTN. DAVE LINSTRUM, BILL WARNER, CARL HEDLEY AND OTHER OBSCURE AIRCRAFT FANS.

(14)

ADJUSTABLE VARIABLE PITCH PROP

by Cezar Banks
July'90

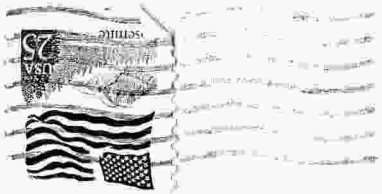
FROM EL TORBELLINO



NOTES:

1. This design used at both '88 and '90 wch.
2. Hinges are iron-on Monokote or Micafilm.
3. Ends of nylon screws act as adjustable stops to rotation of torque arms.
4. 00-90 Nylon screws are available from:
   Small Parts Incorporated
   6901-N.E. Third Avenue
   P.O. Box 381736
   Miami,Florida 33238-1736
   Ph. 1-305-751-0856
5. Threads in balsa stops are 'cast' out of cyano using 00-90 steel machine screw as a mold. Force screw it out when cyano has 'set'.
6. Torsional pre-load on spring determines when 'switchover' starts. I try for 25-30 minute mark. To adjust, bend free end of spring or add shims where spring end is glued to hub. Transition time to reach low pitch stop is determined by number of coils and coil diameter.

JIM MILLER
827 YORKHAVEN RD
CINCINNATI, OH 45240





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

WHAT'S ON IN FREE FLIGHT?:

CONFIRM ALL MIAMA MEETS BY CALLING 305-858-6363 THE NITE BEFORE

- SEPT 22,23 - MAC DILL AFB, TAMPA: FIRST MIAMA INDOOR MEET OF 1990/91 SEASON. 9 TO 5. FAC MASS LAUNCH SAT, 5 - GOLDEN AGE

OCT 14: MIAMI / DADE SOUTH COLLEGE 9-5 MIAMA INDOOR FUN FLY.
OCT 16-20 - LAWRENCEVILLE - AMA FF NATS

- OCT 27-28 - CLEARWATER/ST. PETE AIRPORT. US COAST GUARD HANGAR MIAMA INDOOR MEET #2. FAC MASS LAUNCH, 5, WWI BIPLANES

NOV 4 - PALM BAY: RECORD TRIALS, OUTDOOR FF
NOV 11 - MIAMI DADE SOUTH COLLEGE - MIAMA INDOOR FUN FLY 9-5.
NOV 17,18: PALM BAY - SAM FALL MEET. DON BRIMMER CD
NOV 24 OR 25 OR BOTH - MIAMA CAT I F.A.R.T. III YOUTH FAIR RECORD TRIALS
DEC 16 - MIAMI DADE SOUTH COLLEGE 9-5 MIAMA INDOOR FUN FLY.

- DEC 29/30 - TAMPA - DELTA AIRLINE HANGAR - MIAMA MEET 3+ KING ORANGE INDOOR.
DEC 29-31 PALM BAY - OUTDOOR KING ORANGE FF — MASS LAUNCH - WWII