THE HANGAR PILOT

MIAMI INDOOR AIRCRAFT MODEL ASSOCIATION

MIAMA

27 TH YEAR of PUBLICATION
INDOOR ISN'T FOR EVERYONE

POST HOLIDAY ISSUE 192

WINGS OVER AMERICA



squadron of American fighter planes into battle in this World War II poster.

BELATED MERRY CHRISTMAS - HAPPY NEW YEAR

TO THE WORLD'S HANGAR PILOTS!

TREE SHEDDING A BIT

AIR CORPS U.S. ARMY

1930's recruiting poster



"LIKE A LETTER FROM HOME" Whelan

THE HANGER PILOT

The Hanger Pilot, edited by John Martin Jr., who is solely irresponsible 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 3624 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,]-views, complaints, gripes and compliments to: Dr.John Martin Jr., President / Editor, 2180 Tigertail Ave., Miami, FL 33133 USA. phone: 305-858-6363.

FLYING ACES AT SAM 46 PALM BAY NOV 1997 #5

PEANUT SCALE

		Scale Pts.		
1.Doc Martin	Lemberger	69 (4:45)	82.5	151.5
2. Don Reed	Cougar	65 (1:14)	67	124
3.John Tudor	Dayton-Wright	60	55	115
4.Rich MacEntee	Float Beaver	65	49	114
5.Charlie Nelson	Pietenpol	48	5	53

FAC Scale

1.Doc Martin	Vance Flying Wing	73 (1:36)	149.2	
2.Rich MacEntee	Float Turbo Beaver	65 (1:30)	140	
3.Don Brimmer	Cessna C-37	58 1:22	129	
4.Don Reed	Curtiss Robin	58	48.6	106.6
5. John Polento	Fokker D-7	61.5	42	103.5
6.Don Mace	Stinson 105	50	32	82

JUMBO SCALE

1.Rich MacEntee	Bellanca YO50	57 1:55		138
2.John Tudor	Bellanca	56.2	1:39	133
3.Doc Martin	Messerschmitt M-20	51	1:46	130
4.Johm Polento	Rearwin	45	1:03	106.5

GOLDEN AGE

1.Rich MacEntee	Bell. YO50	1:55	1:38	1:42
2.Doc Martin	Messer. M-20	1:46	1:17	L:27
3.John Polento	Rearwin	1:01	:57	:54
4.Don Reed	Curtiss Robin	:35	:48	:38
5.Don Brimmer	Cessna C-37	1:22	--	--
6.Charles Nelson	Robin	:10	--	--

EMBRYO ENDURANCE

L.Don Reed	2:00	:29
2.Charlie Nelson	:20	:17

OLD TIME RUBBER

1.J. Polento RAINBOW 1:35

OLD TIME ELECTRIC

1.John Tudor 1:46

LEGAL EAGLE

L.Charles Nelson :31

POWER SCALE

1.John Tudor DGA-8 1:17

NO-CAL SCALE

1.Don Brimmer Citabria	1:26
2.Doc Martin Windham	:53
3.R. MacEntee Lacey	:38

DIME SCALE

L. Doc Martin Nieuport	3:56
2.Rich MacEntee BF-109	2:57
3.Don Reed Dragonfly	2:40
4.Charles Nelson Robin	:36

THE SHOOT OUT AT PALM BAY

After four meets in the Flying Aces Summer Series Doc Martin and Rich MacEntee were tied in annual points. Remember the shoot out at OK Corral? High Noon? You get the picture, A two day duel , many flights, and many events, Doc prevailed by 3 points to win the first FLYING ACES FLORIDA STATE CHAMPS. The above results reflect the closeness of the competition. Great times, great models, GREAT WEATHER, and the prospects of a great future for Flying Aces competition in the State of Florida, We hope all you first year competitors enjoyed yourselves and plan to do it again next year. Keep tuned for future dates.

MIAMA HORSES ORIFICES - CLUB NEWS

(3)

Here we are: 1998. Seems less like a year, and more like a price tag on a K-Mart $20,00 item. This issue (#192) begins our 27th year of Hangar Pilots. I wonder if anyone out there has collected them? This is the time of the year when pilots re-up ; we enjoy the notes letting us know how and what they are doing. How abouta note with something to publish in Hangar Pilot?

THIS PAST SUMMER we flew our first full Flying Aces Season. It attracted 14 FAC flyers . We hope to double that turn out this year..starting with Don Brimmer's Spring SAM 46 at Palm Bay on April 25,26. In the inaugural year Doc Martin won the big brash,ugly,in your face (uglier than the Stanley Cup) over arch rival Rich MacEntee (Professor Moriarity).

NEW MIAMA MEET FEE SCHEDULE or AVOIDING GOING BROKE:To pick up the tab for our pay for play Armory meets we have to increase our entry fees. this modest increase will still cause us to lose money at the Armory,but we will make enough (in theory) on the 3 other meets to come out even. We trust this will not keep anyone home, or force our senior citizens to eat dog food. Remember, entry fees are used for our excellent awards,club expenses, and any Hangar Pilot losses.

FOR ALL FUTURE MIAMA MEETS: ENTRY FEE(one event) $10.00. Each additional event $2.00

$20.00 MAX - ALL EVENTS

INTER-GNATS POSTAL: We thank all the newsletter editors and columnists for their cooperation in publicizing this event..greatly appreciated. Admit it now, you've always planned to build a pistachio, right? Now you have3 months to carry out that plan..and YOUR photo will be in Hangar Pilot.

FIRST ARMORY MEET was a big success. Hey,pilots,this site is a KEEPER. thirtyfour feet toa CLEAN, flat ceiling. Everyone flew like Moody's goose. Lots of new faces and flyers, and great Karma...flying on the site of Teddy Roosevely's old Rough Rider camp grounds gives you goose pimples. Sidney Gilbert sent a great photo ofthe gang in front of the Armory,thanks. MIAMA would like to see other photo taken on that historic day.they would make a good cover for H.P. MIAMA meet #4 will be here on Feb.14,15 NOT JAN 24,25 Peanut Mass Launch is now an FAC event so build to FAC rules. FAC Mass Launch is Golden Age.

FLORIDA FLYING ACES ANNUAL POINTS

FLA. FLYING ACES HALL OF FAME
1ST SEASON 1997 - 5 MEETS

*	1. Doc Martin	72
***	2.Rich MacEntee	69
***	3.Don Reed	36
***	4,John Polento	31
***	5.Charles Nelson	23
***	6.John Tudor	18
	7.George Nunez	14
*	8.Don Brimmer	12
	9.Ric Choate	7
	10.Walt Schlesinger	3
	11.J. Nunez Sr.	2
	12.R. Ross	2
	13.C. Brown	2
	14. T. Pailleron	4

GOLDEN AGE

1. Rich MacEntee	16
1.Doc Martin	16
3.John Polento	9
4.Don Reed	6
5.Charles Nelson	3
6 Don Brimmer	2

1997 EVENT STANDINGS:

PEANUT

L.Rich MacEntee	15
2.Doc Martin	14
3.Don Reed	12
4.John Tudor	8
4.George Nunez	8
6.Charles Nelson	4
7. John Polento	4

FLYING ACES SCALE

1.1.Rich MacEntee	15
1.Doc Martin	15
3.Don Reed	6
4,Ric Choate	5
5.George Nunez	4
6.Don Brimmer	3

MASS LAUNCH

1. Doc Martin	6
2. J. POLENTO	
3 R. MACENTEE	

DIME SCALE

1.Doc Martin	12
2.Rich MacEntee	10
3.Charlie Nelson	4
4.Don Reed	2

±EMBRYO ENDURANCE

1.Don Reed	12
2.Charlie Nelson	6
3.J. Pailleron	4
4.Don Brimmer	3
5.W. Schlesinger	2

NO-CAL SCALE

1.Don Brimmer	3
1.Doc Martin	3
3.Rich MacEntee	1
4.J.Pailleron	1

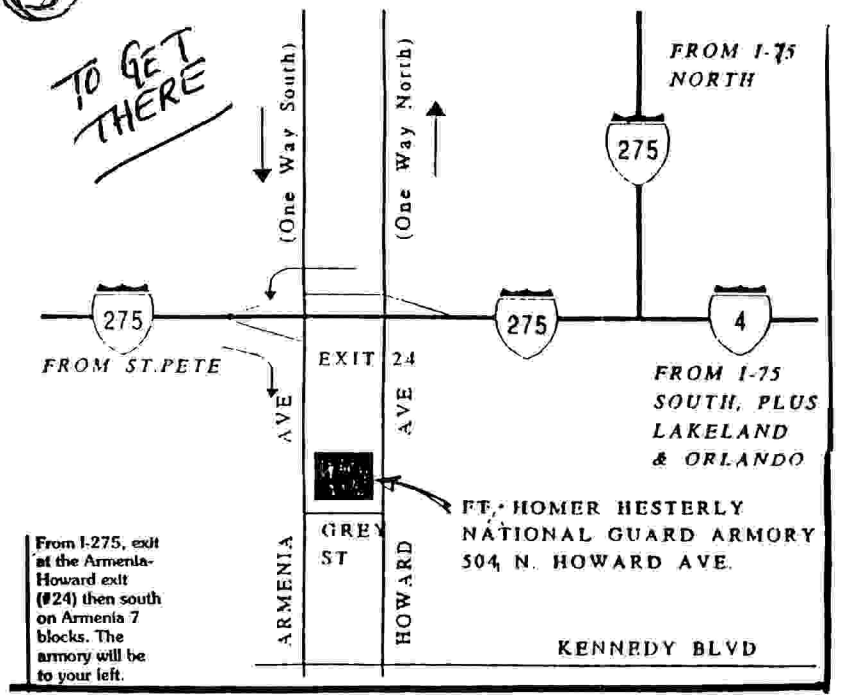
POWER SCALE

1. JOHN TUDOR
2 CARL BROWN 3. RICHARD ROSS

JUMBO SCALE

1.Rich MacEntee	12
2.Doc Martin	7
3.John Polento	6
4.John Tudor	4
4.J. Nunez Sr.	4
6,G. Nunez	
7. Ric Choa	
8. W.Schles	

(3)



JUNE 1898 ROUGH RIDERS ENCAMPMENT. At the outbreak of the Spanish American War this area, a sand flat without a tree, but surrounded by an extensive forest, was the camp site of Theadore Roosevelt's ROUGH RIDERS the most unusual regiment in the history of the US Army. The ROUGH RIDERS (1st US Volunteer Cavly Regiment) 1200 strong- included cowboys, indians, polo players, ranchers, hunters, socialites, lawmen, trappers, et al. This hodge podge group left Tampa to fight in the hills of Cuba for their belief that, "All men should be free", Teddy and his horsemen became a legend in their own time.

The above is from an historic plaque on the lawn of the Fort Homer Hesterly Armory where MIAMA is flying meets at this fine Cat II (34') site.

POST OF TAMPA
FLORIDA ARMY NATIONAL GUARD
FORT HOMER W. HESTERLY
504 North Howard Avenue
Tampa, Florida 33606-1245

Dr. John Martin Jr.
2180 - Tigertail Avenue
Miami, Florida 33133

Dear Dr. Martin,

This Memorandum of Understanding pertains to the planned events for the Miami Indoor Aircraft Model Association at this Armory. The dates for these upcoming events are 22-23 November 1997 and 24-25 January 1998. We consider these two events a "trial basis." We do look forward to having your group's event here in Tampa. However, we do want to make sure you are aware that we are not charging you full price for the rental of the Armory. The normal rental fee is $800.00 per day. In the event we have a full paying customer on the dates that you have planned your event, we will unfortunately have to cancel your event here at the Armory. In the event that this should happen we would give you a cancellation notice as soon as possible, but no less than five days prior to your planned event.

If you have any questions please call me at (813)272-2955.

* MEET OF 24,25 JAN. HAS BEEN CHANGED TO FEB. 14-15 - MIAMA MEET #4

KEVIN J. HOUSE
Facility Coordinator

MIAMA INDOOR MEET #2 NOV. 22/23 1997 Nat. GUARD ARMORY,Tampa C/D DOC M.

FLYING Aces Peanut/scale/Bonus/Time	/Total
1..Ric Choate Pottier 52.5 0 76	128.5
1.Rich MacEntee 14-Bis 56.5/25 :47	128.5
3.Sidney Gilbert Lacey 51 /0 75.5	126.5
4.Doc Martin Ford 2-AT 54 / 0 64.5	118.5
5.J. Polento SE-5 54 /15 45	114
6.Don Brimmer Cougar 61/0 52	113
7.Walt Schlesin.Fike 59.5/0 38	107.5
8.Charles Shaw DH-6 51.5/15 35	101.5
9.Chas.Nelson Pietenpol 47/0 23	70

MIAMA COCONUT	
1.Ric Choate,General Aristocrat	1:44
2.Doc Martin Messerschmitt M-20	1:21
X. Ric Choate Guardian	1:37
3.Sidney Gilbert Komet	:36
4.Rich MacEntee M-20	:18

FLYING ACES SCALE:			
1. Rich MacEntee Voisin hydro	87	54	141
2.Doc Martin Vance Wing	73	61	134
3.Sidney Gilbert Comper Swift	52	70	122
4.Dick Obarski Curtiss Robin	40.3	75	1153
5.Don Brimmer Aeromca	61	54	115
6.Bruce Knox Tailwind (No Docs.)	49	65.5	114.5
7.John Polento D VII 61.5		47	108.5
8.W. Schlesinger Pilatus Porter 57		39	96

PISTACHIO MODEL OF A MODEL		
1.Sidney Gilbert Pussy Cat	51	58
2.Don Brimmer " : "	21	33
3. Chas. Nelson " "	23	27

MIAMA PISTACHIO SCALE		
1.Doc Martin Goldwing	55	39
2.Sid Gilbert Fike	41	49
3.W. Schlesinger Cougar	25	28

FLYING ACES EMBRYO ENDURANCE	
1.Sidney Gilbert	322
2.Rich MacEntee	296
3.Don Brimmer	293
4.Dean McGinnes	220
5.Bruce Knox	176
6.Charles Nelson	140

DIME SCALE MIAMA	
1.Dick Hardcastle DVII	6:09
2.D.Obarski Fokker DVII	5:32
3.S.Gilbert Robin	2::44
4. J.Wormley Aeronca	2:41
5.C. Shaw Curt. Robin	2:15
6.J.Polento Stratoplane	2:30

MASS LAUNCH EVENTS:FAC PEANUT	
1.Sidney Gilbert	5.Jake Larson
3.Rich MacEntee	6.Ric Choate
2.Don Brimmer	7.John Polento
4.W. Schlesinger	8Doc Martin
	9.Bob Shaw
	10.C, Nelson

AMA EASY B	
1.Dick Hardcastle	16:36
2. Joe Nuszer	12:04
3. Chas. Nelson	1:50

(4)

AMA Penny Plane NEW RECORD

1.Dick Hardcastle	11:09 ☆
2.2.Joe Nuszer	8:06
3.Chas.Nelson	1:15

Glider AMA HL		
2.Ric Choate	24.3	24.5
1.D.Hardcastle	25.6	25.9
3.C. Nelson	20	21

Glider,AMA Catapult		
1.C. Nelson	20	21

AMA -MINI Stick	
1.Dick Hardcastle	8:48
2.Dick Obarski	7:45
3.C. Nelson	:49

CAT II 34'

FIRST MEET IN ARMORY

FLYING ACES NO CAL	
1..Joe Nuszer Hosler Fury	4:05
2.Rich MacEntee Lacey	3:32
3.Dick Obarski Farman	3:07
4.Sid Gilbert Cub	2:48
5.John Wormley Wildcat	1:03

AMA BOSTONIAN Charisma			
1.D. Obarski Gen 77	.05	341.2	
2.R. MacEntee J-6	.18	264.1	
3.S.Gilbert 75Q	.05	231	
4J. Wormley Red Sox	.20	175.2	
5.J.Polento P.Ace	.05	159.6	
6.C.Nelson Pup	.05	100	
7.W.Schlesinger Pup	.05	78.7	

MIAMA LEGAL EAGLE	
1.D. Obarski	10:02
2.John Wormley	9:31
3.Sid Gilbert	6:01
4.D. Brimmer	3:35
5.C. Nelson	2:30

MASS LAUNCH FAC BIPLANES
1. Bob Shaw DH-6
2.Doc Martin
3. R. MacEntee
4.W. Schlesinger

THANKS AGAIN DELTA AIRLINES

(5) At the DELTA INDOOR KING ORANGE we continue to prove our motto (One of them) that-"The older you get the better indoor looks". Wow! What rotten weather. Record rainfall. 5" on the night before day one, and on contest day more rain, TORNADOS, hail and flooding rivers. Needless to say we were happy to be flying inside, and grieving for our free flight bretheren in Palm Bay. I had planned to attend the last 2 days at Palm Bay but I'm sorry to say the weather reports, and prospects for flying deterred me. It was draughty in the hanga,but good times anyhow,and Hardcastle set a new Easy-B record. A good turn out of 20 pilots, and lotsa hard work by C/D Rich MacEntee. THANKS DELTA AIRLINES FOR THE 9TH YEAR. A GREAT SITE !!

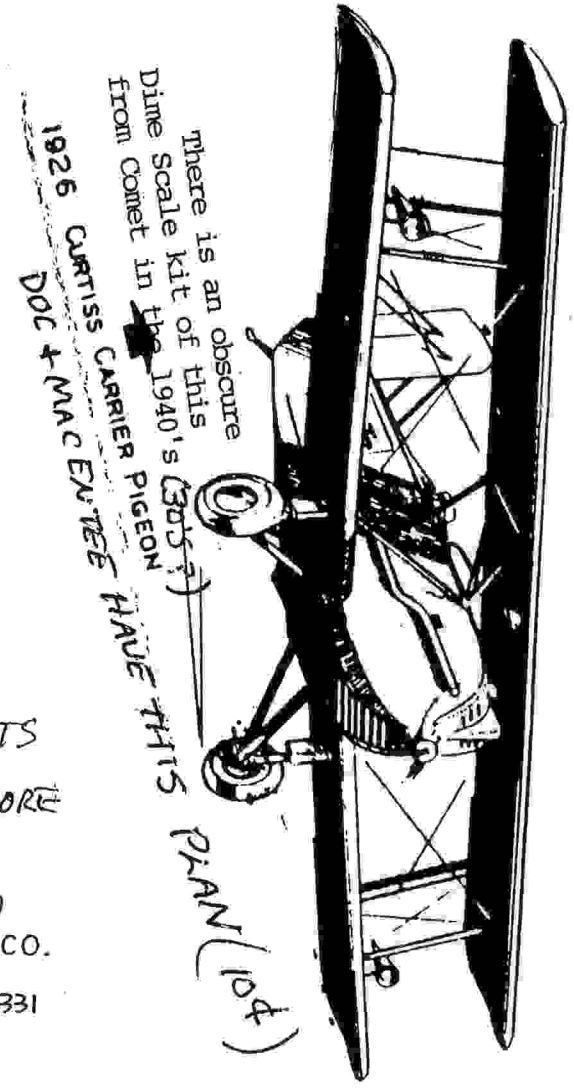
VTO RECOVERY: Dave Linstrum is continuing to feel better after his surgery. If it were'nt for E-Mail he'd be really bummed out 'cause there isn"t another free flight flyer in Provo, Utah. He"s promised more cover art, and some plans for future Hangar Pilots.

COTTAGE WINGS continues!

Carlo Godel, one of the club's most faithful long-time supporters, is carrying on the Cottage Wings resource guide. It is still a dollar bill and a legal-sized self-addressed stamped envelope, but the price may increase soon when Carlo has to absorb ALL the costs himself of getting it out. Believe me, if you are in FF Scale modelling today, you NEED this guide. Tells you where to get what, and that is not something you are going to get just anywhere!

Send that SASE and dollar to : YOU MUST HAVE THIS - THE MOTHER OF ALL CATALOGS.

Carlo Godel
5726 Case Ave.
No.Hollywood, CA 91601



OUR FIRST CATALOG!



INDOOR ELECTRIC KITS
GAMPI TISSUE
+ MORE

CAMPBELL MODEL SUPPLY CO.
37742 CARSON
FARMINGTON HILLS, MI 48331
U·S·A

CATALOG #1 AUGUST 1ST, 1997 $2.00

MIAMA DELTA KING ORANGE MEET 3, Dec. 27,28 1997 C/D RICH MACENTEE

CAT III (6)

FLYING ACES PEANUT

	SCALE/Bonus	Fly	Total
1.R. MacEntee Voisin Hydro	62/25	52	139
2.Newt Bollinger Cougar	54/0	78	132
3.Doc Martin Ford 2-AT	53.5/0	75.5	129
4.George Nunez PT-19	56/10	61.5	127.5
5.Mill.Wells Huntington H-12	51/5	75	121
X.. M. Wells J-3 Cub	52.0/0	65.8	117.8
X.M. Wells Rose Parakeet	50/15	49	114
1st Jr.J Nunez Airdale	50/5	55	110
6.Sidney Gilbert Lacey	51/0	61.4	112.4
7.J. Polento SE-5	54/15	30	99
8.Bob Shaw DeHavilland DH-6	51/15	24	90
9.Chas. Nelson Pietenpol	47	21	68.0

FLYING ACES SCALE

1.Geo. Nunez Rumpler	61/15	64	140
2.Geo. Knox Tailwind	53/0	77	130
3.Doc Martin Vance Wing	48/25	54	127
4.Sid Gilbert Corbin	52/0	71	123
5. R. MacEntee Jodel D-9	59/10	52.6	121.6
6.D. Obarski C. Robin	40/0	79	119
7.Chas. Nelson C. Robin	48/0	13	61
1st Jr. J.Nunez Daphne	53	79	132

AMA BOSTONIAN

	Charisma	
1.John BarkerScimitar	1.05	522.9
2.N. Bollinger Colt 45	1.05	325.5
3.R.MacEntee PAMA	1.20	283.2
4.J.Polento Pac, Ace	1.05	280
5.S. Gilbert 75Q	1.05	264.6
6.Carl Hedley 7-Up	1.05	155.4
7.C.Nelson Pup	1.05	80.7

MIAMA DIME SCALE

1.D. Hardcastle	Fokker D Vil	7:12
2D. Obarski	Fokker D Vll	6:56
3.J. Barker	Curtiss Robin	6:32
4.J. Wormley	Curtiss Robin	6:25
5.M. Wells	Douglas Obser.	3:15
6.J. Polento	Farman Stratoplane	1:56
7.C. Nelson	Curt. Robin	46

MIAMA LEGAL EAGLE NEW RECORD

1.D. Obarski	4:27	4:46	5:01 ★
2.N. Bollinger	4:07	4:00	3:54
3.J. Wormley	3:05	4:07	2:08
4.Carl Hedley	1:47	2:14	2:18
5.C.Nelson	:29	:28	:34

MIAMA COCONUT

1.R. Choate Aristocrat 2:11
2.Doc Martin M-20 1:41
3.G. Nunez Potez 1:31
X R.Choate Guardian 1:25

MIAMA MINI STICK

1.W. Van Gorder	10:35
2.D. Hardcastle	10:13
3.J. Barker	8:36
4.D. Obarski	6:26
5.C. Nelson	10

AMA EASY B NEW RECORD

1.D. Hardcastle	21:35 ★
2.W. VanGorder	17:50
3.D.Obarski	9:53
4.C.Nelson	1:10

AMA PENNY PLANE(Liimited)

1.D. Hardcastle	11:20
2.W. VanGorder	10:57
3.J. Barker	9:06
4.C.Nelson	:30

FLYING ACES NO CAL SCALE

1.Dock Obarski Farman	5:13
2.J.Vorhees Curt.SO3C-1	3:46
3.R.MacEntee Lacey	3:28
4.N. Bollinger Lacey	3:01
5.J. Nuszer Hosler Fury	2:47
6.John Polento	:45

MIAMA PISTACHIO

1.Doc Martin Goldwing:54 1:17

Model of a Model

1.C. Nelson P.Cat :28 :30

AMA CATAPULT GLIDER

1.D.Hardcastle	:42	:42.4
2.C. Nelson	:29	:31
3.Carl Hedley	:23	:24

FLYING ACES EMBRYO ENDURANCE

1.John Barker	9:06
2.N. Bollinger	[redacted] 7:53
3.J. Wormley	6:12
4.J. Polento	4:48
5.S. Gilbert	4:08
6.B. Knox	4:02
7.C.Nelson	1:03

MASS LAUNCH EVENTS: FAC PEANUT:

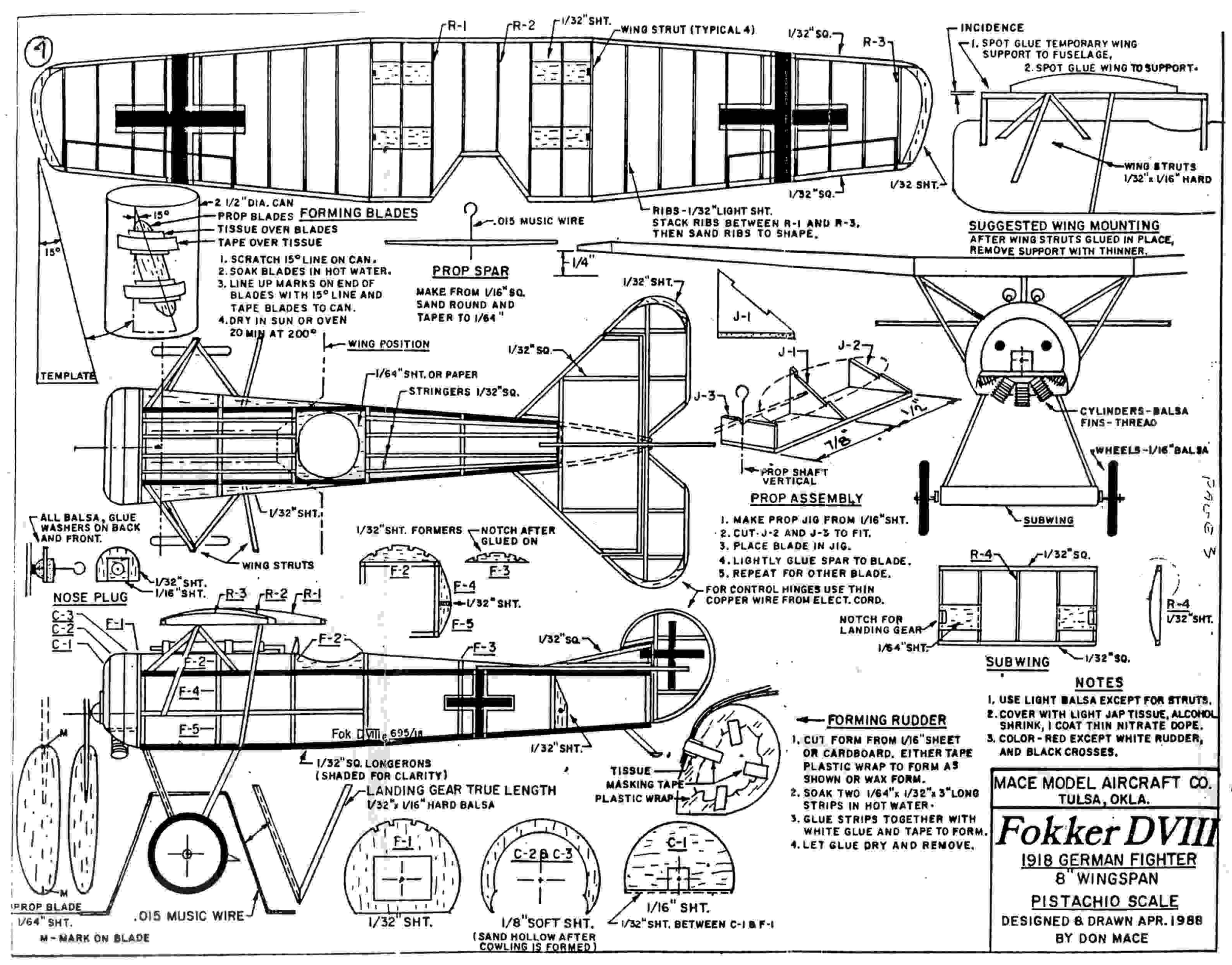
1.Newt Bollinger
2.Sid. Gilbert
3.Millard Wells
4.John Polento
5.Chas. Nelson
6.Bob Shaw
7.R.MacEntee, Martin, Choate

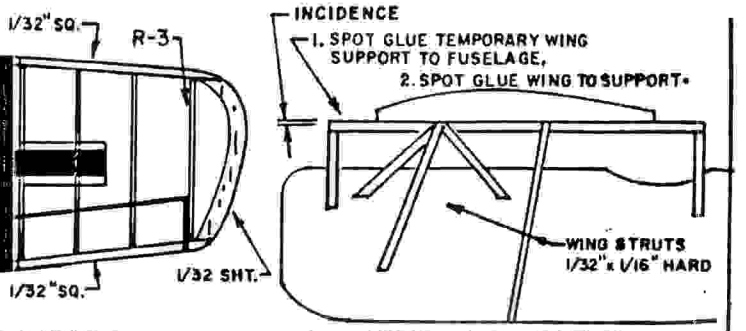
FAC WARPLANES

1.G. Nunez
2.Johnathan Nunez
3.Doc Martin
4.R. MacEntee

Coconut Mass Launch

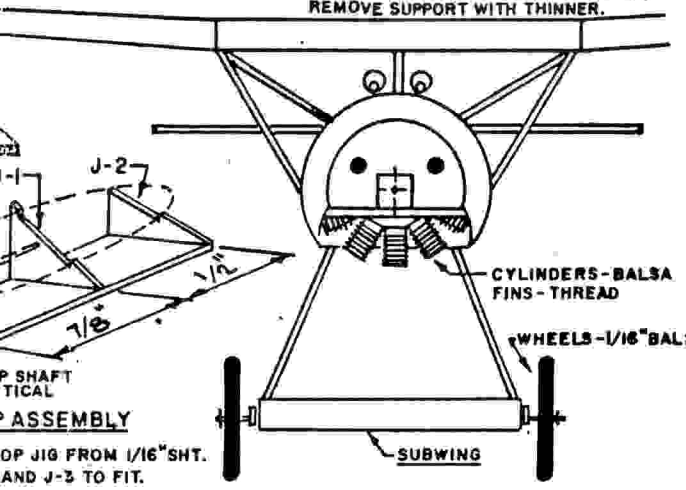
1.R. Choate
2.MacEntee
3.Nunez
4.Martin


R-1
R-2
1/32" SHT.
WING STRUT (TYPICAL 4)
1/32" SQ.
R-3
1/32" SQ.
1/32 SHT.
RIBS - 1/32" LIGHT SHT.
STACK RIBS BETWEEN R-1 AND R-3,
THEN SAND RIBS TO SHAPE.
INCIDENCE
1. SPOT GLUE TEMPORARY WING SUPPORT TO FUSELAGE,
2. SPOT GLUE WING TO SUPPORT.
WING STRUTS
1/32" x 1/16" HARD
SUGGESTED WING MOUNTING
AFTER WING STRUTS GLUED IN PLACE, REMOVE SUPPORT WITH THINNER.
2 1/2" DIA. CAN
PROP BLADES
TISSUE OVER BLADES
TAPE OVER TISSUE
FORMING BLADES
1. SCRATCH 15° LINE ON CAN.
2. SOAK BLADES IN HOT WATER.
3. LINE UP MARKS ON END OF BLADES WITH 15° LINE AND TAPE BLADES TO CAN.
4. DRY IN SUN OR OVEN 20 MIN AT 200°
15°
15°
TEMPLATE
.015 MUSIC WIRE
PROP SPAR
MAKE FROM 1/16" SQ.
SAND ROUND AND TAPER TO 1/64"
1/4"
1/32" SHT.
J-1
J-1
J-2
J-3
1/2"
7/8"
PROP SHAFT VERTICAL
CYLINDERS - BALSA
FINS - THREAD
WHEELS - 1/16" BALSA
SUBWING
WING POSITION
1/32" SQ.
1/64" SHT. OR PAPER
STRINGERS 1/32" SQ.
1/32" SHT.
WING STRUTS
PROP ASSEMBLY
1. MAKE PROP JIG FROM 1/16" SHT.
2. CUT J-2 AND J-3 TO FIT.
3. PLACE BLADE IN JIG.
4. LIGHTLY GLUE SPAR TO BLADE.
5. REPEAT FOR OTHER BLADE.
FOR CONTROL HINGES USE THIN COPPER WIRE FROM ELECT. CORD.
ALL BALSA, GLUE WASHERS ON BACK AND FRONT.
1/32" SHT.
1/16" SHT.
NOSE PLUG
1/32" SHT. FORMERS
NOTCH AFTER GLUED ON
F-2
F-3
F-4
1/32" SHT.
F-5
R-4
1/32" SQ.
R-4
1/32" SHT.
NOTCH FOR LANDING GEAR
1/64" SHT.
1/32" SQ.
SUBWING
R-3
R-2
R-1
C-3
C-2
C-1
F-1
F-2
F-3
F-4
F-5
1/32" SQ.
Fok D VIII e 695/18
1/32" SHT.
1/32" SQ. LONGERONS (SHADED FOR CLARITY)
LANDING GEAR TRUE LENGTH
1/32" x 1/16" HARD BALSA
TISSUE
MASKING TAPE
PLASTIC WRAP
FORMING RUDDER
1. CUT FORM FROM 1/16" SHEET OR CARDBOARD. EITHER TAPE PLASTIC WRAP TO FORM AS SHOWN OR WAX FORM.
2. SOAK TWO 1/64" x 1/32" x 3" LONG STRIPS IN HOT WATER.
3. GLUE STRIPS TOGETHER WITH WHITE GLUE AND TAPE TO FORM.
4. LET GLUE DRY AND REMOVE.
NOTES
1. USE LIGHT BALSA EXCEPT FOR STRUTS.
2. COVER WITH LIGHT JAP TISSUE, ALCOHOL SHRINK, 1 COAT THIN NITRATE DOPE.
3. COLOR - RED EXCEPT WHITE RUDDER, AND BLACK CROSSES.
M
M
PROP BLADE
1/64" SHT.
M - MARK ON BLADE
.015 MUSIC WIRE
F-1
1/32" SHT.
C-2 & C-3
1/8" SOFT SHT.
(SAND HOLLOW AFTER COWLING IS FORMED)
C-1
1/16" SHT.
1/32" SHT. BETWEEN C-1 & F-1
MACE MODEL AIRCRAFT CO.
TULSA, OKLA.
Fokker DVIII
1918 GERMAN FIGHTER
8" WINGSPAN
PISTACHIO SCALE
DESIGNED & DRAWN APR. 1988
BY DON MACE

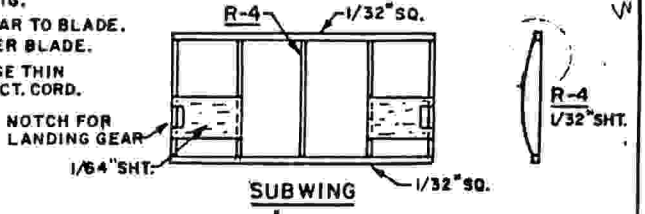


R-1 AND R-3.
HAPE.

SUGGESTED WING MOUNTING
AFTER WING STRUTS GLUED IN PLACE, REMOVE SUPPORT WITH THINNER.



P ASSEMBLY
OP JIG FROM 1/16" SHT.
AND J-3 TO FIT.
LADE IN JIG.
GLUE SPAR TO BLADE.
FOR OTHER BLADE.
HINGES USE THIN
FROM ELECT. CORD.



← FORMING RUDDER

1. CUT FORM FROM 1/16" SHEET OR CARDBOARD. EITHER TAPE PLASTIC WRAP TO FORM AS SHOWN OR WAX FORM.
2. SOAK TWO 1/64" x 1/32" x 3" LONG STRIPS IN HOT WATER.
3. GLUE STRIPS TOGETHER WITH WHITE GLUE AND TAPE TO FORM.
4. LET GLUE DRY AND REMOVE.

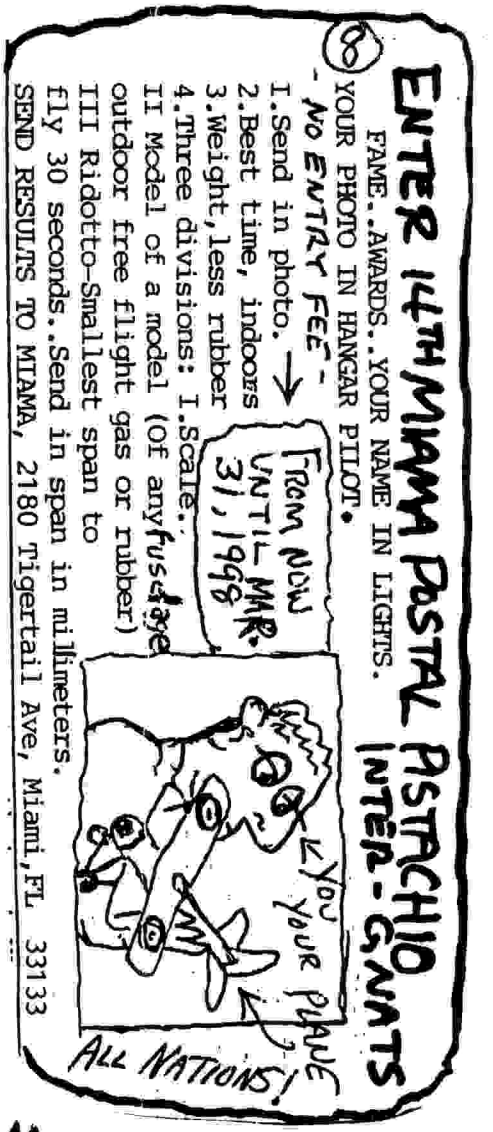
NOTES

1. USE LIGHT BALSA EXCEPT FOR STRUTS.
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MACE MODEL AIRCRAFT CO.
TULSA, OKLA.

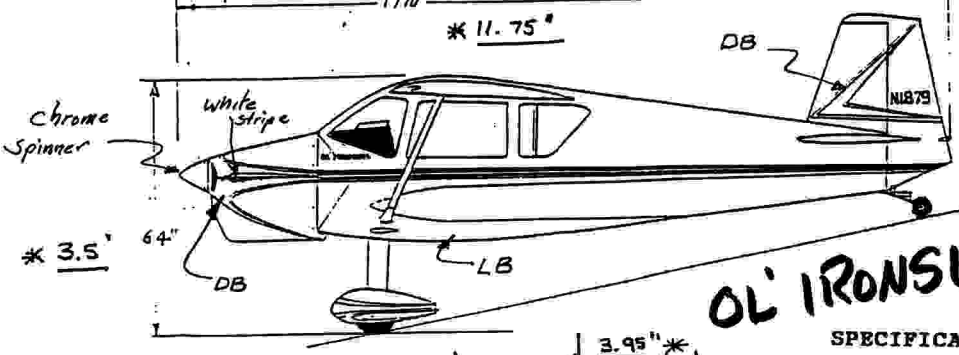
Fokker DVIII

1918 GERMAN FIGHTER
8" WINGSPAN
PISTACHIO SCALE
DESIGNED & DRAWN APR. 1988
BY DON MACE



MIAMA INDOOR #4
HOMER HESTERLY ARMORY
FEB 14,15 9705
FAC MASS LAUNCH
GOLDEN AGE

(9)



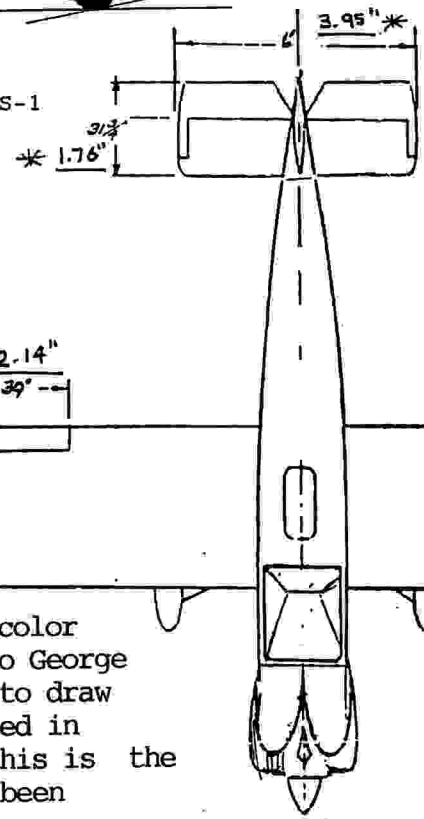
OL' IRONSIDES

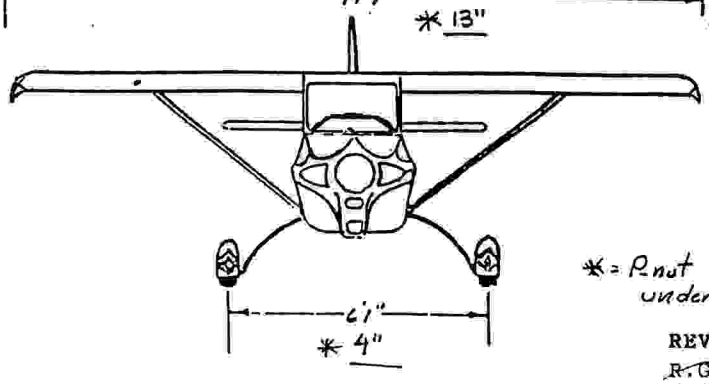
DATA

Scott - 01' Ironsides XS-1
DESIGNED AND BUILT BY:
Ronald G. Scott
586 Sky Lane
East Troy, Wi 53120
SERIAL NO 1
SINGLE PLACE
SINGLE CONTROL
SITKA SPRUCE/FIBERGLASS
COMPOSITE AIRFRAME

SPECIFICATIONS

ENGINE.....CONT 0200
FUEL CAP.....18 GAL
OCT RATING....80/87
PROP.....STERBA
(WOOD) 69X56 PITCH
EMPTY WT.....749 lbs
GROSS WT.....1125 lbs
WING AREA.....80 sq ft
WING LOADING..13.2 lbs/sq ft
CRUISING SPEED..145 mph
MAX SPEED.....160 mph





Colors
- all white
- LB = Light Sky blue
- DB = Dark True Blue
- Landing gear Satin Black
- Varnish wood prop
- Colors repeated on wheel pants

Here is the 3 View and color scheme from Ron Scott to George Nunez, that George used to draw up the plan that appeared in H.P. # 191. Could be this is the Lacey, Fike killer you've been looking for?

P.nut model by George Nuñez Miami, Fl 1993

* = P.nut dimensions underlined

REVISED 2-18-91
R.G. SCOTT
EAA# Mb. #300297

IN H.P. 191 · JOHN OLDENKAMP MISSED THE OLD MODEL

HANGAR PILOT EDITOR: COLUMNISTS - "LITTLE OF INTEREST NOW,"

(10)

I HAVE A RESPONSE TO MR. OLDENKAMP'S RECENT COMPLAINT.

HERE ARE JUST THREE OF THE FASCINATING ARTICLES THAT I HAVE SEEN RECENTLY IN OUR POPULAR MODELERS' MAGAZINES.

1. A DETAILED DESCRIPTION AND FOUR PAGE COLOR LAYOUT ON THE FLIGHT OF A 15 FOOT, 4 ENGINED RC FLYING BOAT. SINCE IT WAS THE BUILDER'S FIRST MODEL, HE SUBCONTRACTED THE DESIGN, BUILDING, COMPUTER PROGRAMMING, FLYING AND VIDEO PRODUCTION TO A TEAM OF PROFESSIONALS. HE IS NOW THE PROUD OWNER OF A SUPURB MODEL WHICH HANGS IN THE SHOWROOM OF HIS LEXUS DEALERSHIP.

2. AN INSIGHTFUL PRODUCT REVIEW OF AN ARF RC KIT. THE TEXT AND PHOTOS GAVE MANY VALUABLE TIPS TO SUPPLEMENT THE NINETY MINUTE VIDEO OF ASSEMBLY AND FLYING INSTRUCTIONS SUPPLIED IN THE KIT.

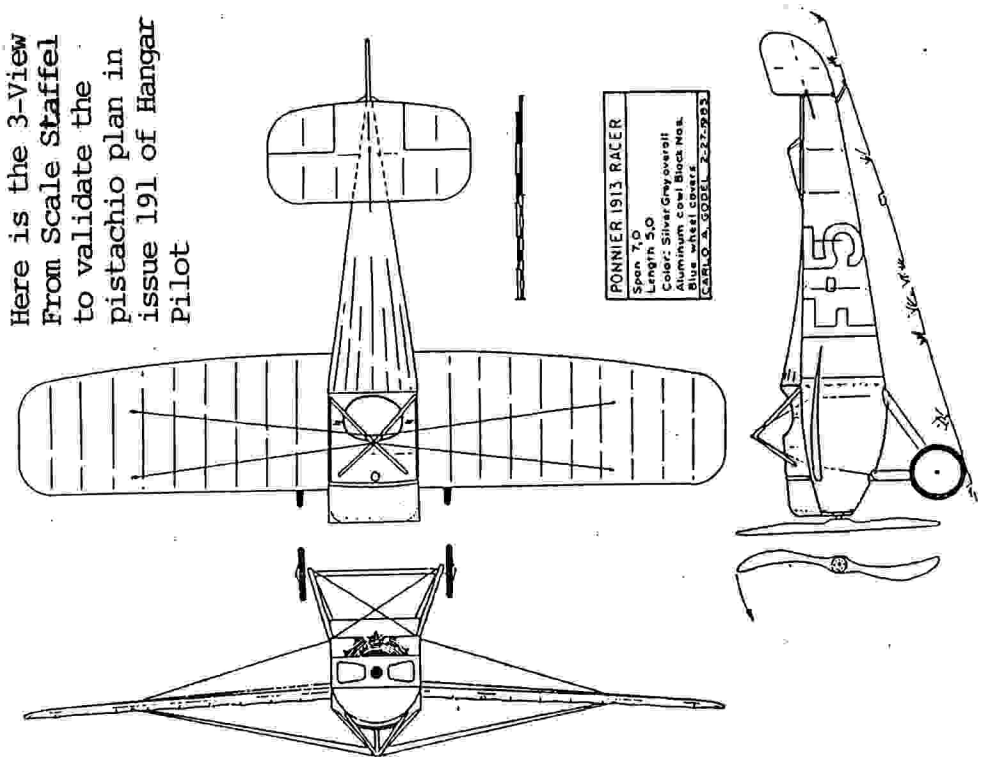
3. A HELPFUL BEGINNER'S ARTICLE OUTLINING HOW TO GET STARTED IN COMPETETIVE RC POWERED SAILPLANES FOR LESS THAN $2000.

HOW CAN MR. OLDENCAMP COMPLAIN WITH INTERESTING AND HELPFUL MATERIAL LIKE THIS AVAILABLE EVERY MONTH.

P. Mc. - A MODERN MAGAZINE READER

DO I DETECT A LITTLE SATIRE HERE? Ed.

Here is the 3-View From Scale Staffel to validate the pistachio plan in issue 191 of Hangar Pilot



TRIANGULAR WING SPANS

by Al (Gray Hawk) Lawton, Portland, CT

1. Straight, waxed edge support for gluing B to A. Both are B or C grain 1/32"; width is tapered or straight as appropriate for wing type.

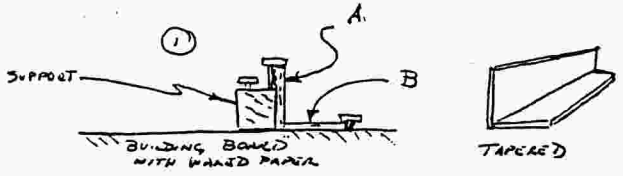
2. For Wings in 20-26 inch range, use 1/8" end plugs and 4 to 5 1/16" bulkheads (less if smaller model).

3. With sandpaper on a flat surface, sand down A and B edges to obtain beveled edge and to ensure bulkheads and end plugs are flush with "hypotenuse piece" #4.

4. "Hypotenuse" piece (1/32) is cut wider than A to B dimension and the AB piece is glued down on it. Sand down excess on edges of hypotenuse piece.

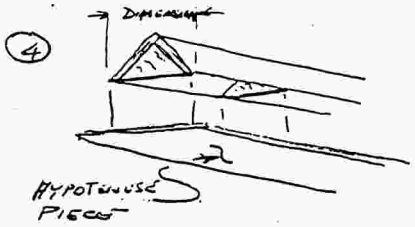
5. Apply to fit your favorite sliced rib procedure–this is mine. Notching in top of spar OK for top of rib alignment (span wise)

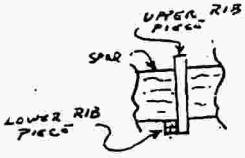
(1/2 WING SCHEME SHOWN)



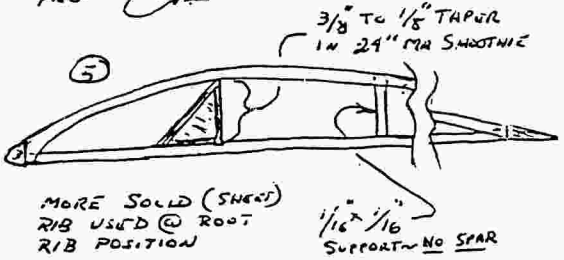








VIOLA!!



I use white glue to nail everything together since it allows more time to get the joints aligned properly and pinned down (also less prone to warp).

The BIG advantage is that this configuration is much more resistant to torsional changes in the wing and is overall stronger at the same spar weight. My 24" Mr. Smoothie has survived, with no damage, after a tree hit where it plummeted through branches to the ground!!

--via "Air Flow"

Vance Gilbert, Ed.



Tired of your same old wing construction? Here are TWO suggestions from Tom Arnold's Scale Staffel for your leading edge, and your spar.

SLICED RIBS (without BBQ sauce)

--John Laycock

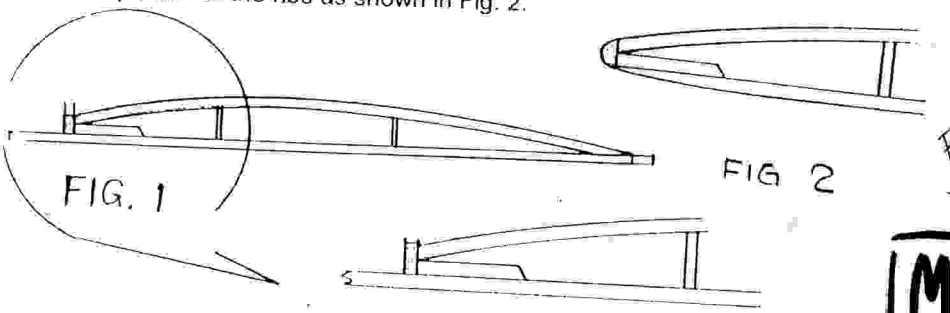
(12)

I've used a modification of the famous sliced rib method that gives a bit more scale appearance to the leading edge but still keeps the ease of sliced rib construction. It goes like this:

1. Build the wing over the plans in the usual way--but extend the lower portion of the ribs past this leading edge, see Fig. 1.

2. Locate the leading edge on top of the lower portion of the ribs and add a short section of balsa to the back of the leading edge as shown.

3. Add the top portion of the sliced rib. Remove from the plans and trim and sand the leading edge and lower portion of the ribs as shown in Fig. 2.



FROM TOM ARNOLD SCALE STAFFEL

SUPPORT THE

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If you enjoy building scale model airplanes, the FLYING ACES CLUB will put you in touch with others who share your interests. The monthly newsletter contains plans, tips on building and flying, contest information and much more! Send $15.00 to : FLYING ACES NEWS
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MIAMA #4
DATE CHANGE
NOT JAN 24-25
BUT - 9-5
FEB 14-15
ARMORY
TAMPA

INDOOR HOTLINE 305. 858 - 6363
ALWAYS CHECK THE NIGHT BEFORE MEET

USIC 1998 SCHEDULE

	7:30	10:00	12:00	2:00	3:00	5:00	7:00	10:00
WEDNESDAY 27 MAY 1998 PRACTICE	INLG STD CAT GLD UNL CAT GLD UNL RBR SPD	ALL SCALE EVENTS FAC & AMA PLUS NO-CAL	P. PLANE UNL P. PLANE MANHATTAN AUTOGYRO	P-24 MASS LAUNCH *	MINI-STICK ORNITHOPTER HELICOPTER	INT STICK ROG STICK EZ-B PRO-20	F1D HL STICK 35 CM CABIN ROG	
	7:30	11:30	2:30	3:30	6:00	10:00		
THURSDAY 28 MAY 1998	H.L. GLIDER STD. CAT. GLIDER UNLIMITED CAT. GLD. UNLIMITED RUB. SPD.*	INT. STK. HELICOPTER ORNITHOPTER STICK ROG	NO LAUNCH **	INT. STICK HELICOPTER ORNITHOPTER STICK ROG	F1D, HANDLAUNCH STICK PRO 20* AUTOGIRO CABIN ROG			
	7:30	11:30	2:30	3:30	5:15	6:30		
FRIDAY 29 MAY 1998	FAC PEANUT * BOSTONIAN PISTACHIO * HIGH WING MONO* WWI MASS LAUNCH 10:30 PIONEER * MODERN CIVIL PRD. *	PENNYPLANE MANHATTAN	NO LAUNCH **	PENNYPLANE MANAHATTAN	BOSTONIAN MASS LAUNCH 11:30*	BANQUET		
	7:30	11:30	2:30	3:30	6:00	10:00		
SATURDAY 30 MAY 1998	FAC SCALE * GOLDEN AGE* COCONUT SCALE* NO-CAL SCALE* AMA PEANUT SCALE F.R.O.G.* WWII MASS LAUNCH 10:30	LTD. PP	NO LAUNCH **	LTD. PP	F1D, HAND LAUNCH STICK PRO-20* 35CM*			
	COCONUT MASS LAUNCH 11:20*			DIME SCALE LEGAL EAGLE	MIAMA RULES			
	7:00	10:30 11:30	2:00	2:30	4:00			
SUNDAY 31 MAY 7 AM TO 4 PM	MINI-STICK KIT PLAN AMA SCALE	EZ-B	NO LAUNCH **	EZ-B	MINI-STICK MASS LAUNCH 10:45			

*= NON AMA EVENTS

PREPARATION TO DEPART. BUILDING MUST BE CLEARED BY 6:00 PM !!!!!!!!

*RETRIEVAL STARTS WITH LAST PLANE DOWN.

IS THERE A RED X HERE?
THIS IS YOUR LAST ISSUE

Paid May until 1997



Time to Re-Up all you Hangar Pilots and when you do- Please be sure to include a note or some plans or 3-views. Let us know what you've been up to.

One Year..$.12,50
Two Yrs...$24.00
Canada...$14.00
Overseas $15.50 Send to Dr. John B. Martin 2180 Tigertail Ave. Miami,Fl,33133USA

PM2L COVERING & HANDLING

(14)

PM2L: THE LIGHTEST STUFF THIS SIDE OF MICROFILM

PM2L is a super thin plastic material that can be applied to frames and hoops with spray adhesive such as 3m's Spray 77 or, Elmer's SAF*T CONTACT CEMENT, thinned one part cement to ten (10) parts water. Thinned contact cement permits the use of a razor blade for trimming the excess film after drying for at least 6 hours. The usual method of trimming with a pencil soldering iron may also be used if preferred. Covering can be accomplished with PM2L as received or crinkled and re-streched. Loose film at dihedral joints can be tightened by applying water on top of the film using a fine brush, much in the same way as handling microfilm. This material can also be used for patching holes in microfilm with the usual atomized water spray.

The weight loss factor (approx. 2/1) of using PM2L vs. Microfilm is a deterrent, but dimensional stability, puncture and shock resistance are much better, all of which would minimize problems of shipping and handling models.

. you can remove the static from your film by wrapping a Kling Free Laundry strip around the white protective paper on the film roll. Then place the whole thing back in the mailing tube for one week.

SPECIFICATIONS

	Weight In oz. Per* 100 sq in.	Thickness in inches
Ultra Film (Ray Harlen)	.0045	.00006
Ultimate (Wayne Trivin)	.00366	.000047
PM2L	.00271	.0000353
Microfilm	.0015 Appx.	Varies

* above weights determined using a Harlen beam scale. Weight for microfilm varies depending on sheet color after pouring.

PM2L PRICING as of 1/1/98

$17.00 for 15ft. Roll P.P USA & CANADA
$32.00 for 30ft. roll USA & CANADA - P. P.
$20.00 for 15ft. Roll P.P. Foreign
$38.00 for 30ft. Roll P.P. Foreign

SEND ORDER TO

Richard W. Obarski
2112 N. Halcyon Dr.
Sun City Center, FL 33573

PHONE - 813-634-8683

813-634-8683

WHAT"S ON IN S. FLA. FREE FLIGHT: 1998
Always call indoor hot line the night before the meet to be sure it's on. None of the dates for Miami/Dade South College have been confirmed as yet 305-858-6363

Jan 24 Miami Dade South College Fly In, 9 to 5

Feb.7 Miami Dade C. South Same Above. 9 to 5

Feb. 15 One Day Meet. Palm Bay C/D Ron Sharpton

Feb. 14,15 Tampa Armory, MIAMA INDOOR #4, 9 to 5
Call · 305-858-6363 the nite before

Mar. 7-8 Spring Opener, Palm Bay, C/D Dave Platt

Mar. 14,15 Tampa Armory, MIAMA INDOOR #5

Mar. 28. Miami dade South College Fly In , 9 to5

Mar. 31 Deadline for Pistachio Inter-Gnats

April 25,26 US Coast Guard MIAMA #6

April 30 Deadline for FAC Postal P-Nut & NO-Cal, Indoor & Out. Results to 3301 Cindy La. Erie, Pa. 16506

May 2-3, Palm Bay, Sam 46 & FAC Meet #1

May 9 Miami/Dade South Fun Fly 9 to 5

May 10, Palm Bay. One day meet. Ron Sharpton

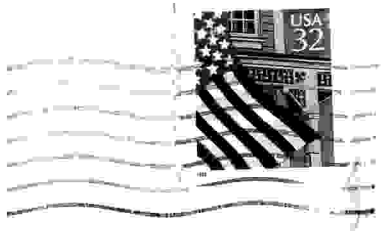
May 27 to 31. THE BIGGIE-AMA INDOOR NATS Johnson City.

June 13,14, Tampa Armory, MIAMA Meet #7 Final meet & 100th anniversary of the Rough Riders.

THE HANGAR PILOT

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





WALT ERBACH
2979 Dudley St.
Lincoln, NEB. 68503