THE HANGAR PILOT

U.S.A.'s

12TH YEAR OF PUBLICATION

THE MIAMI INDOOR AIRCRAFT MODEL MEET

MIAMI

ISSUE 96
OCTOBER 1984
AMA CLUB 986





"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 the only active all indoor free flight club in AMA. Our Mottos: "It must be fun.", and "Indoor isn't for everyone." For $10.00 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:

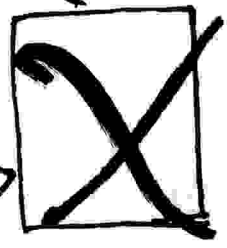
Dr. John Martin Pres./Editor. 2180 Tigertail Ave. Miami, Fla. 33133 USA
Phone: 305-858-6363 We want to hear from you!!! Send material!!!

THE HANGAR PILOT IS GETTING TO BE A PAIN IN THE NECK !! with over 2oo on the mailing list, and 9 issues a year it is impossible to send everyone a renewal notice a year after he subscribed..too much bookeeping....So this is YOUR..

OCTOBER RENEWAL !!

Dispite when you subscribed, The subscription starts in OCTOBER. If you subscribed after March 1984 you got 3 free issues (April, May, June) and will get 9 more commencing Oct. 1984. Those who subscribed between Oct. 1983 and March 1984 got all the back issues they missed, and RENEWAL TIME IS NOW. We have a great seasonahead so keep on the mailing list.....Also, let's hear from YOU!

HEY! IS THERE AN X IN THIS BOX?



THEN THIS IS YOUR LAST ISSUE OF HANGAR PILOT

MEET

OCTOBER 14 9 TO 5

CD MIKE ARAK
MIAMI DADE SOUTH COLLEGE
27 FOOT HIGH CEILING

THIS IS THE FIRST OF 7 INDOOR MEETS. COMEOUT TO FLY OR JUST SPECTATE.

INDOOR RULES:

Summary of proposals for the next AMA rule book:
Easy B is getting all the attention.
Both Curt Stevens and DonLindley have suggested that Easy B can be covered with any material at all as long as the minimum weight is one gram. Seems to make sense, particularly since English rules limit Easy B to 1.2 grams, and don't restrict covering, and they get very high times. Lindley would also like to restrict EZB length to 22 inches.
These competitors also feel we have too many indoor events as follows: Lindley would like to delete Indoor Cabin, and award the Stout Trophy to the winner of the Manhattan Cabin event at the Nats. Curt Stevens likes Novice Pennyplane, but feels Regular Pennyplane has become a freak event"that went wild" and wants to drop it. Let's hear your views on this!

FLA. RECORDS COMPILED BY DON BAL FROM GOING BACK THROUGH 95 BACK ISSUES OF HANGAR PILOT.

FLORIDA STATE CAT II RECORDS		Established at Miami Dade South Gym (27 ft. ceiling), JFK Gym & Youth Fair Grounds	
* YOUTH FAIR HAS NOT BEEN MEASURED UNDER THE "NEW" METHOD - IT IS POSSIBLY A CAT I SITE.			
SCALE:	3/18/73	1:48.7*	JOHN MARTIN (Dornier)
PEANUT SCALE:	5/27/73	3:53.1***	RUSS DORSEY (Bleriot)
		1:31.2*	
PENNY PLANE:	11/28/73	6:52.5	GARY MYERS
H. L. STICK:	10/13/74	14:35.0	ROMAN SZYMULA
PAPER STICK:	4/15/73	8:25.0	GARY MYERS
EZB:	3/15/81	9:18.6	DICK OBARSKI
OLD TIMER BABY ROG:	4/12/81	5:59.7	DAVE HAGAN (Proxy by J. Martin)
CLASS A ROG:	3/18/83	5:23	WALT EVERSON
BOSTONIAN CABIN:	4/29/84	3:40.2**	JOHN MARTIN
MANHATTAN:	4/29/84	3:54	WALT EVERSON
GLIDER:	2/27/83	1:12.4	DON BAL (41.1)(41.3)
JUNIOR RECORDS:			
PENNY PLANE:	2/11/73	4:59	RICK MYERS
EZB:	5/27/73	6:03	RICK MYERS
OLD TIMER BABY ROG:	4/24/83	:48.7	SUE ARAK
GLIDER:	3/13/83	:57.1	DAVID BAL (29.9)(27.2)

* Best 1 flight
** Best 2 flight total
*** Best 3 flight total

CONTINUED ON PAGE 9

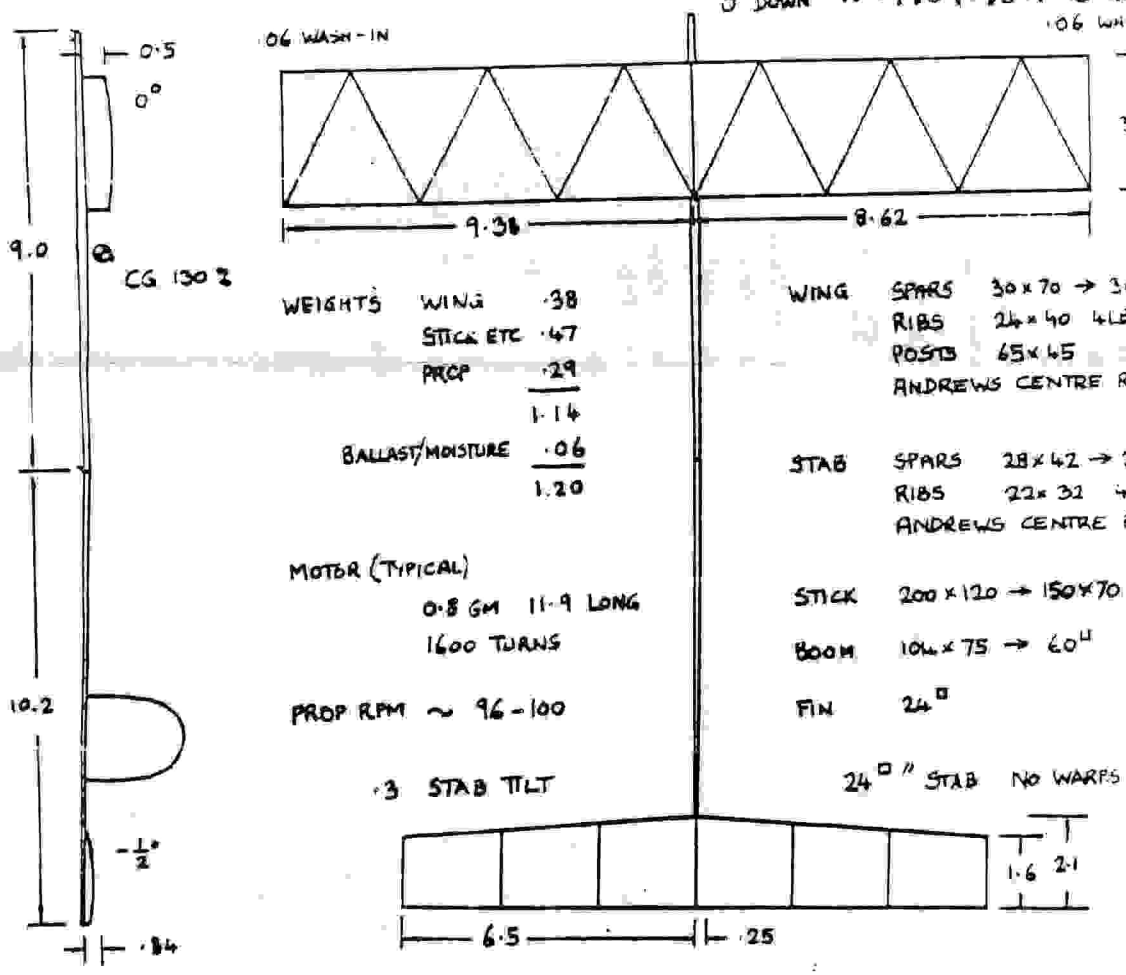
EZB

BRITISH MINIMUM 1,2 Grammes

PYMM DAVE

3° LEFT
0° DOWN

DAVE PYMM WAS AT WEST BADEN IN 1980 + IS A MEMBER OF THE ENGLISH TEAM AT NAGOYA IN 1984



WEIGHTS

WING	·38
STICK ETC	·47
PROP	·29
	1·14
BALLAST/MOISTURE	·06
	1.20

MOTOR (TYPICAL)
0·8 GM 11·9 LONG
1600 TURNS

PROP RPM ~ 96-100

WING SPARS 30×70 → 30×40 6LB ..
RIBS 24×40 4LB
POSTS 65×45
ANDREWS CENTRE RIB

STAB SPARS 28×42 → 28×18 5LB
RIBS 22×32 4LB
ANDREWS CENTRE RIB

STICK 200×120 → 150×70 5

BOOM 10¼×75 → 60"

FIN 24□

24□" STAB NO WARPS

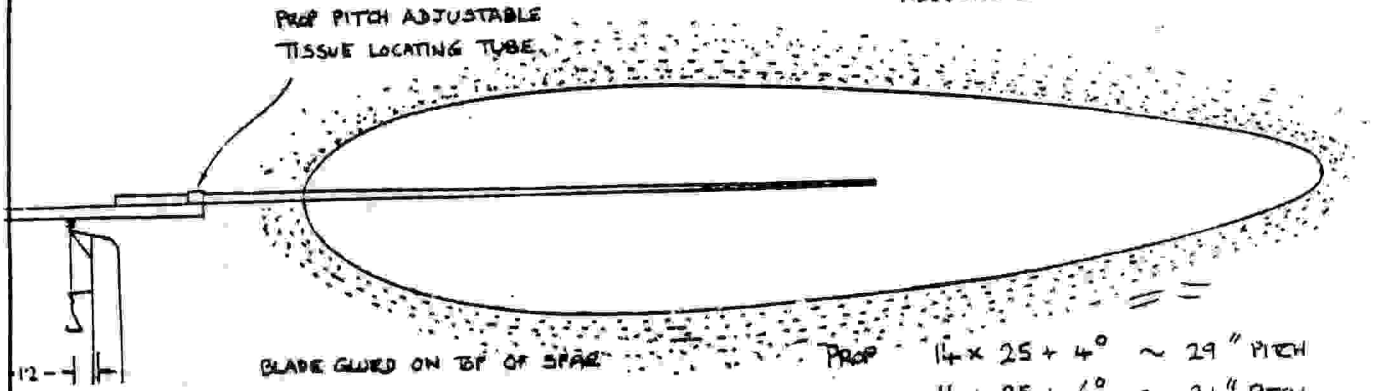
WING 4%



STAB 7%



ADJUSTABLE STAB FITTING



BLADE GLUED ON TOP OF SPAR

SPAR 76 ϕ → 30 ϕ
STUB SPAR 76 ϕ

'S' REAR HOOK

PROP 14×25+4° ~ 29" PITCH
14×25+6° ~ 31" PITCH

CMOS BALANCE EQUATION Y = 1·32X - 3·00
AS FLOWN X = 5·03
Y = 4·10
SM ~ 15%

STOLEN FROM: VOL LIBRE, November 1983, A.Schandel Editor.

EVERYONE INVITED : R.S.V.P.

So you think the Olympics was big? Wait till we fly the 2nd World Pistachio Proxy Inter-Gnats...April 13 & 14, 1985.

Pistachio Scale models are like peanuts, only smaller. They are a bit harder to build and trim. You have to use tweezers sometimes. The tiny bit of rubber power is hard to get. Try a golf ball, or the inside of shock cord (Bungee) if you cantcut down on your rubber. .030" to .050 size and 3 inch propellers or a bit bigger.

There are many plusses: Cheap to build, cheap to mail, durable in the slam-bang world of postal services, small enough to trim in your own home, little time expended, lots of fun.

We will provide trophies, and publish a list of all who enter so we can see where our flying friends come from, and their addresses. Also you will be informed of the complete meet results, even if you are last. We realise that there are a limited number of people who are interested in this sort of thing, but at least we will all get to know each other. PISTACHIOS FOREVER: SIC SEMPER PISTACHIOS.

There is a great temtation to build unusual aircraft- canards, triplanes, autogyros,etc. What can you lose? A few evenings work. 3-views, and maybe a photo are the only documentation needed.

WE ARE SENDING THIS ISSUE OF HANGAR PILOT TO ALL THE KNOWN MODEL AIRPLANE PUBLICATIONS IN THE WORLD; plus many club newsletters. We hope that this will truly be an internation al event. PLEASE COPY THIS INVITATION if you are a n ewsletter editor. If you know of some obscure publication that has not gotten the word, PLEASE SEND US THE ADDRESS. Bill Hannan has given us a list, but it is not complete...HELP,please.

For any more information write to HANGAR PILOT. Meanwhile, get building and testing.

INTER-GNATS ENTRY NAME _____

ADDRESS _____

_____

NAME OF PLANE: _____ CLASS: _____

WEIGHT (Grams) _____ SOURCE OF PLAN _____

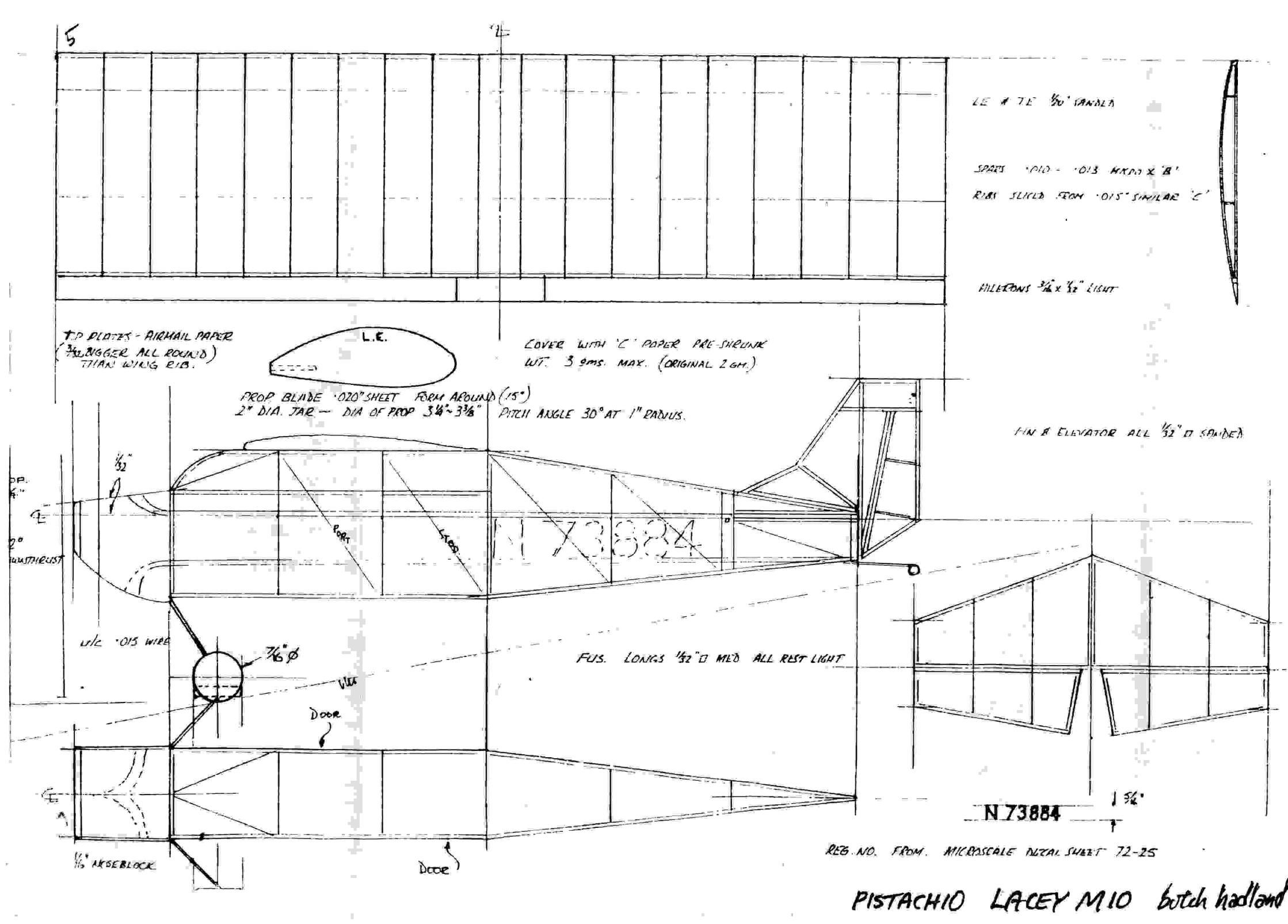
SOURCE OF DOCUMENTATION: _____

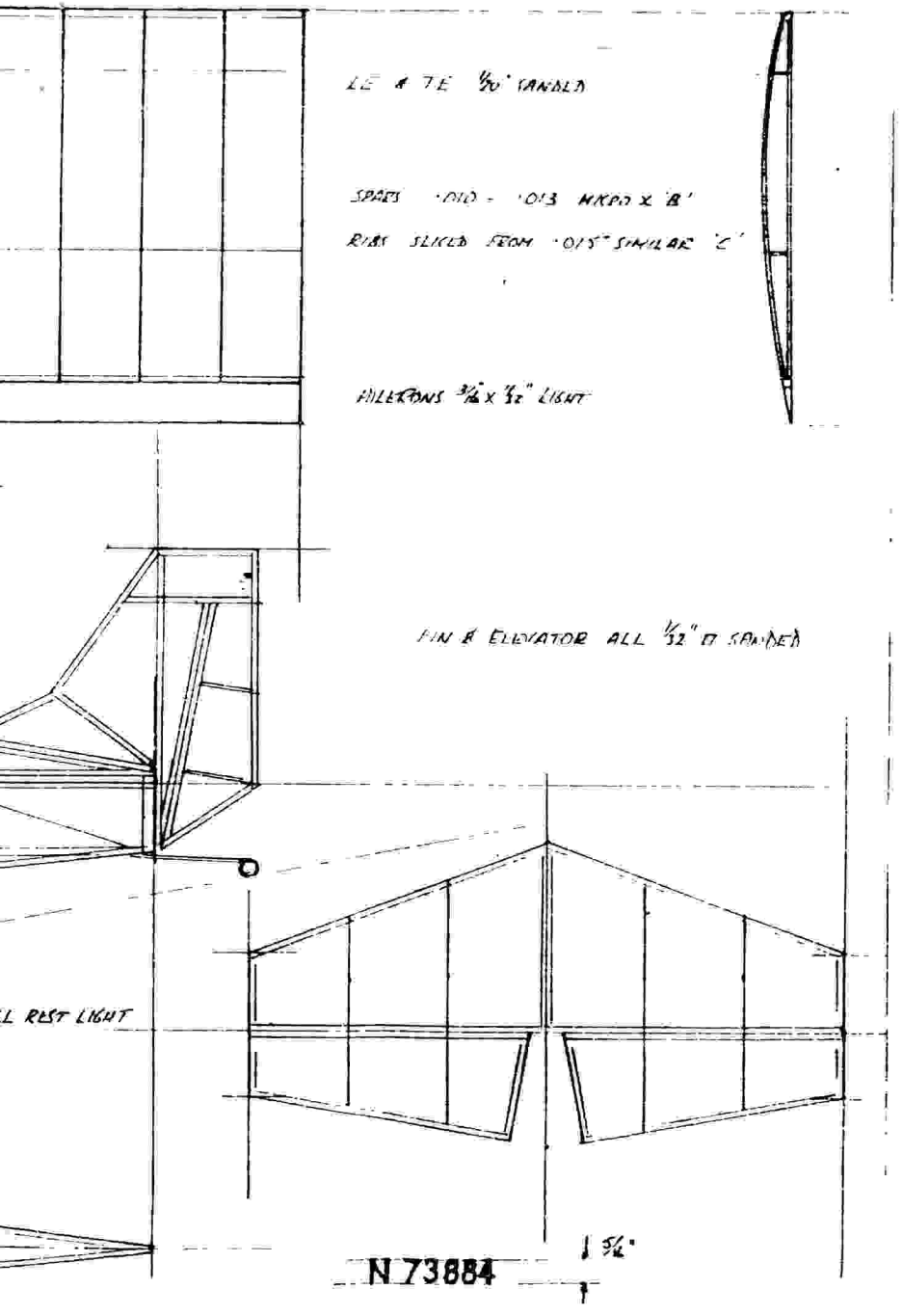
PROP SIZE: _____ X _____ X _____

TYPE PROP: Carved block, laminated, bent wood, plastic, other _____

POWER: _____ INCH LOOP OF _____ (SIZE) Rubber Company _____

BEST FLIGHT: _____ SECONDS ON _____ TURNS OF RUBBER


5
LE & TE 1/20" SANDED
SPARS .010 - .013 ARMO X 'B'
RIBS SLICED FROM .015" SIMILAR 'C'
AILERONS 3/16" X 1/32" LIGHT
TIP PLATES - AIRMAIL PAPER
(3/32 DIGGER ALL ROUND)
TITAN WING RIB.
L.E.
COVER WITH 'C' PAPER PRE-SHRUNK
WT. 3 gms. MAX. (ORIGINAL 2 GM.)
PROP BLADE .020" SHEET FORM AROUND (15°)
2" DIA. JAR — DIA OF PROP 3 1/4"-3 3/8" PITCH ANGLE 30° AT 1" RADIUS.
FIN & ELEVATOR ALL 1/32" □ SANDED
1/32"
PORT
STBD
N 73884
U/C .015 WIRE
3/16" Ø
WIRE
DOOR
FUS. LONGS 1/32" □ MED ALL REST LIGHT
1/16" ARSEBLOCK
DOOR
N 73884
1 5/8"
REG. NO. FROM MICROSCALE DECAL SHEET 72-25
PISTACHIO LACEY M10 Botch Hadland



REG. NO. FROM MICROSCALE DECAL SHEET 72-25

THIS LACEY (6) WON THE FIRST GNATS AT WESTBADEN IN JUNE 1983 BY BUTCH HADLAND

POWER - 12" LOOP OF .035 PIRELLI

COVERING - DOPED CONDENSOR PAPER

WEIGHT 1.8 GM

3RD PLACE WAS ALSO LACEY BY MIKE ARAK

NOW IN LACEY/FIKE CLASS

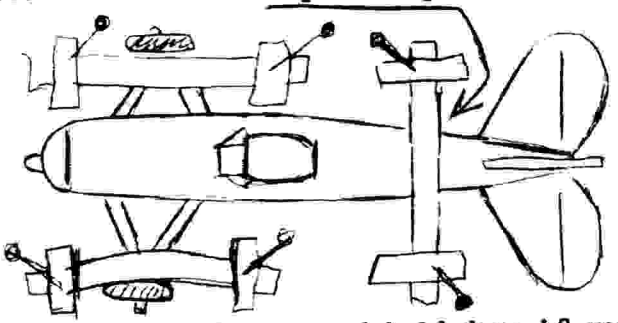
FLIGHTS OF WELL OVER ONE MINUTE

ALL WHITE WITH RED TRIM + BLACK LICENSE

PISTACHIO LACEY M10 butch hadland

SUGGESTED PACKING INSTRUCTIONS:

The most successful boxes are a little larger than cigar boxes and made of wood or heavy cardboard. Also the cardboard box within a box has been successful. Attach your model from its 3 strongest points to the bottom of the box. Paper strips held down by tape or pins hold your model.





Masking tape makes a good hold down if you double up the part that comes in contact with the model. Do not make these loops too tight.
DO NOT USE ANY SOFT MATERIAL AGAINST THE MODEL: Styrofoam, excelsior, cotton will squash your plane when the box is compressed.
SECURE ALL LOOSE PIECES: Documentation, rubber motor, prop, should be in a separate container and HELD DOWN TIGHT. → AND SPARE MOTOR
INCLUDE INSTRUCTIONS TO PROXY FLYER -Use notes below.
TO GET YOUR MODEL BACK: Return postage, return address label, sketch of how your model fits back in box. It will take quite a while to return.

PROXY INSTRUCTIONS: Is it trimmed ? (The meet will be held in a gymnasium 27 feet high) What direction does it fly? How large are the circles? Do they get larger or smaller as the motor unwinds? How many winds will the motor take? What trim problems? What to try if it doesn't fly. Launch technique. Special instructions. Include all this stuff on a separate sheet so your proxy flyer can get the most out of your model. Don't send an untrimmed model.

RUN THIS AD IN YOUR PUBLICATION, PLEASE !

ENTER WORLD PROXY PISTACHIO

RUBBER POWER INTER-GNATS - ALL COUNTRIES INVITED -

FOR WORLD'S SMALLEST SCALE MODELS.

APRIL 13+14 1985 - MIAMI FLORIDA - MIAMA CLUB

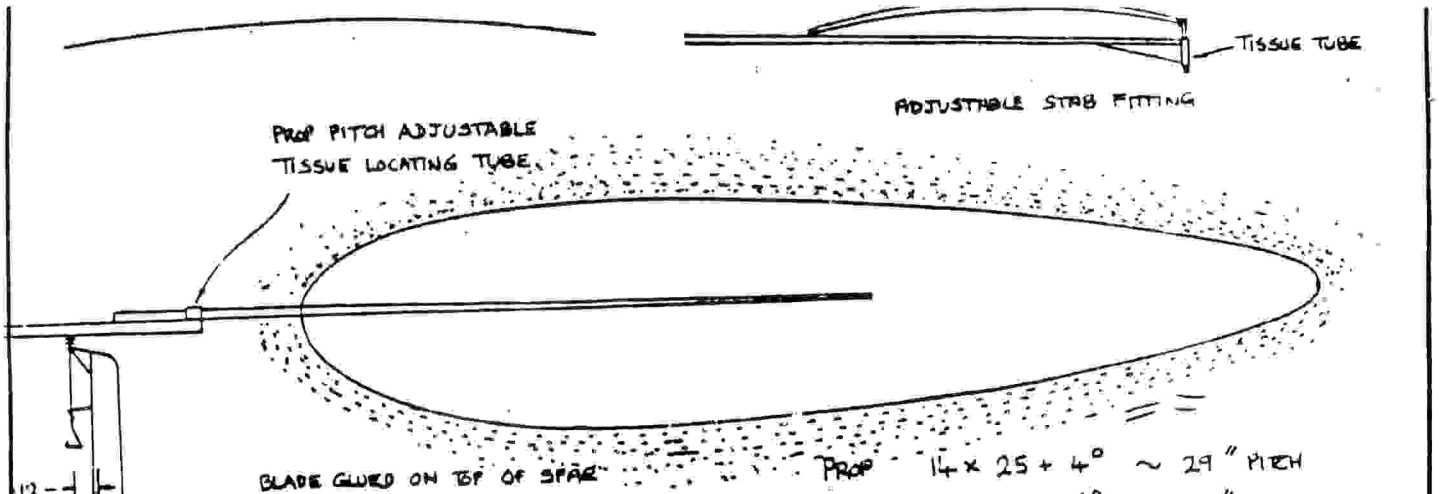
SPAN - 8" OR LESS, OR 6" (OR LESS) OVERALL LENGTH

FREE ENTRY, MANY PRIZES, WORLD FELLOWSHIP

SEND NOW FOR DETAILS FOR ENTRY, RULES, PLANS

TO: DR JOHN MARTIN
2180 TIGERTAIL AVE.
MIAMI, FLORIDA, USA

STOLEN





PENSACOLA NAVAL AIR STATION-FLORIDA

FREE ADMISSION

VISIT the Naval Aviation Museum

FOR THOSE OF YOU WHO ARE GOING TO THE JIM KLOTH MEET (OLD TIMER) OR ANY WHO JUST PASSES THRU PENSACOLA DON'T MISS THIS !!

9

FLORIDA STATE CAT III RECORDS

Established at Opa-Locka Blimp Hanger (68 ft. ceiling) and IMC (as noted) (apx. 67 ft. ceiling)

SCALE:	5/26/74	1:56.6*	JOHN MARTIN	(Cessna AW)
PEANUT SCALE:	5/25/75	2:52 **	JOHN MARTIN	(Lacey)
		1:32.2*		
PEANUT SPEED:	1/10/82	8.6	MILLARD WELLS	
PENNY PLANE:	4/20/80	10:58.8	ROMAN SZYMULA	
FAI H. L. STICK:	4/29/79	23:34	RAY HARLAN	
PAPER STICK:	11/26/83	14:57	DICK OBARSKI	(at IMC)
EZB:	11/26/83	14:15	DICK OBARSKI	(at IMC)
OLD TIMER BABY ROG:	2/14/82	4:52.9	WALT EVERSON	
CLASS A ROG:	11/26/83	9:53.5	DICK OBARSKI	(at IMC)
BOSTONIAN CABIN:	1/04/81	:57 *	WALT EVERSON	
MANHATTAN:	10/11/81	6:32	DICK OBARSKI	
GLIDER:	1/04/81	1:58.2	DON BAL	(59.3)(58.9)

JUNIOR RECORDS

PENNY PLANE:	11/18/79	9:35.2	JEFF EVERSON
EZB:	3/16/75	10:07.4	CHAS SLATER
OLD TIMER BABY ROG:	12/06/81	:34.8	HEATHER ARAK
GLIDER:	5/19/84	:59.3	DAVID BAL (30.1)(29.2)

OPA-LOCKA SITE RECORD
(other than above)

PAPER STICK:	11/18/79	14:06	ROMAN SZYMULA
EZB:	2/14/82	13:20	STAN CHILTON

* Best 1 flight
** Best 2 flight total

IMC-International Mineral & Chemicals phosphate warehouse
Lake Wales, Florida (67'H x 351'L x 206'W)

NOV 10 - NOON
1ST PEANUT FLYING ACES FLY OFF
WW II COMBAT AIRCRAFT

THIS YEAR'S - EVENTS - 13TH MIAMA SEASON
PEANUT/PISTACHIO
KIT/PLAN SCALE - PROFILE
OK FOR JUNIORS
GLIDER - O.K. FOR JRS,
MANHATTAN / BOSTONIAN
PENNY PLANE
CLASS A ROG - ALSO PLASTIC PROP ENDURO (JR.S)
EZB

7 EVENTS FOR OPEN/SR
3 EVENTS FOR JUNIORS
WE COUNT YOUR BEST 4 OF 7 MEETS
+ YOUR BEST 5 OF 7 EVENTS/MEET
+ FLYING ACES PEANUT LAUNCH

WORLD PISTACHIO RULES

SPAN - 8" OR LESS
OR
OVERALL LENGTH 6" OR LESS

HAND LAUNCHED

SINGLE SURFACED OK FLYING SURFACES

•51.A. FF PISTACHIO SCALE—INDOOR AND OUTDOOR (PROVISIONAL)

1. **Applicability.** All pertinent AMA regulations (see sections titled Sanctioned Competition, Records, Selection of National Champions, and General, and Scale General) shall be applicable except as specified below.

2. **General.** Open to "scale models" as defined in Paragraph 2 of Unified Scale Judging. The model can be built to either of two scales. The wingspan may be 8" or the overall length of the model, exclusive of the propeller(s) may be 6". No stick or profile type fuselages permitted, unless same as prototype. Rubber powered only.

3. **Documentation.** Three-view drawings are not required but are necessary for maximum scale points. [redacted] A PHOTO IS HELPFUL (COLOR?)

4. **Flying.** Each entry is permitted nine flights. Each attempt is an official flight. Flights will be timed to the nearest .1 second. The average of the best two flights counts. Hand launch i[redacted]

No flight [redacted], may exceed the Total Scale Score.

5. **Scale Section.** The "Judging Criteria" on the score sheet is used to determine the scale score. Models will first be judged as to Workmanship (Item A). This number will be used as a multiplier of the criteria in Items B through I, minus any points lost in Item J.

6. **Scoring.** Scale score plus the average of the best two flights (neither flight to exceed the scale score) is totalled. Highest score wins.

7. **Ties.** are broken by a fly-off; the average of the two best flights out of three determines the winner. No limit to flight times in the fly-off.

8. **Multiple entries.** are allowed each entrant. Only the best score counts.

9. **Re-entry.** The same ship may be re-entered separately if another entry fee is paid.

PISTACHIO
Official Scale Score Sheet

Name _____ AMA No. _____

Address _____

Type Aircraft _____ CLASS I, II, III * RIDOTTO

Scale Score Judging Criteria

A. Workmanship
- Great 5.0
- Good 4.5
- Better than average 4.0
- Average 3.5
- Below Average 3.0

B. Authentic Color and Markings
- Excellent 3
- Good 2
- Lax 1
- No 3-view or photo 0

C. Details and Accessories
- All there 3
- Mostly there 2
- A few there 1
- No 3-view or photo 0

D. Flying Surfaces — SINGLE SURFACE O.K. ALL ENTRIES GET 3 POINTS HERE.

E. Type Covering
- Clear or color doped tissue 4
- Undoped tissue 3
- Colored condenser paper 2
- Uncolored condenser paper or Microlite 0
- Microfilm prohibited

F. Landing Gear
- Scale length 3
- Enlarged no more than ¼" 2
- Enlarged more than ¼" or no 3-view .. 1

G. Dihedral
- Scale 3
- Slight increase 2
- Gross increase 1
- No 3-view 0

H. Stabilizer Outline
- Scale 3
- Enlarged 2
- No 3-view 0

I. Bonus Points for Type of Aircraft
- Low wing or canard 1
- Biplane 2
- More than one working propeller 3
- Flying boat or floats 3
- More than two wings 4
- Helicopter or autogiro 5

J. Minus Points. Deviations from scale to aid flying performance, i.e., lengthening nose or tail moments, moving wing back, simplifying fuselage cross section or outline grossly, leaving off struts or flying wires, and all other non-scale aids.
- Each ..... −2

Scale Score K

Items B through J Minus J [ ] × Workmanship [ ] = Total Scale Score [ ]

K.

Flying Section

1	2	3	4	5	6	7	8	9

Total Scale Score [ ]

Average of two best flights (May not exceed scale score) [ ]

* I - UNDER 2 GM
II 2-3 GM
III OVER 3 GM.
RIDOTTO - SMALLEST PLANE TO FLY AT LEAST 30 SEC.

K. JUDGES' APPRECIATION
JUDGE MAY AWARD UP TO 4 EXTRA PTS. FOR UNUSUAL FEATURES, RIGGING, ARMAMENT, LIVE TORPEDOS, PARACHUTE DROPPING, RETRACTS OR ANY OTHER CLEVER STUFF.

WHAT'S ON ? THE INDOOR FF SEASON :

BUILD FLY FUN!

OCTOBER 14 Meet 1 Miami Dade South College (CD Mike Arak) 11011 SW 104 St (27 Feet) Sunday 9 to 5

OCT. 13-14 Pensacola, FL Jim Kloth Memorial Old Timer, and Gathering of the Turkeys meet. AA Tom McLaughlin 4140 Fern Court, Pensacola, FL 32503 ph. 1-904-438-5372

NOVEMBER 10 & 11 MEET 2 MACDILL AIR BASE "2 Day Meet" (CD Dick Obarski) (61 Feet) You MUST call 305 858 6363 to be admitted to Base. !

DECEMBER 9 Meet 3 Miami Dade South College 9 to 5 (CD Dave Linstrum)

JAN 12 & 13 1985 Two day meet at MacDill Air Base - MEET 4

FEB: 10 Meet 5 Miami Dade South College 9 to 5

March 9 & 10: Two day meet. MacDill Air Base MEET 6 → WORLD PROXY INTER-GNATS

April 13 & 14 Two day Pistachio Proxy meet at Miami Dade South College

May 11 & 12 Two day meet at MacDill Air Base. MEET 7

HOORAY MIAMA!

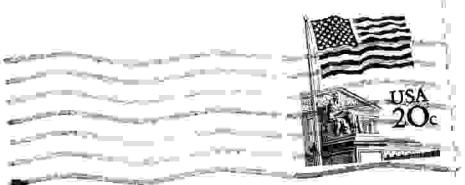
THE LATEST INDOOR NEWS INSIDES

THE HANGAR PILOT

EDITOR: DR. JOHN B. MARTIN MIAMA

2180 TIGERTAIL MIAMI FLORIDA 33133





TO:

JIM MILLER
827 YORKHAVEN RD
CINCINNATI OH 45240

1ST CLASS
NOT JUNQUE MAIL