Best of THE HANGAR PILOT

Vol 2: 1979-86

COMPILED BY DAVE LINSTRUM 1994

WATCH FOR VOL 4 + VOL 5 COMING SOON! A 1993 READER SURVEY BY EDITOR DOC MARTIN SHOWS PREFERENCE FOR PLANS, SCALE DOCS, HOW-TO AND FUNKY FORMAT: DOC'S ORIGINAL LO-TECH DESKTOP PUBLISHING METHODS IN USE SINCE 1972!

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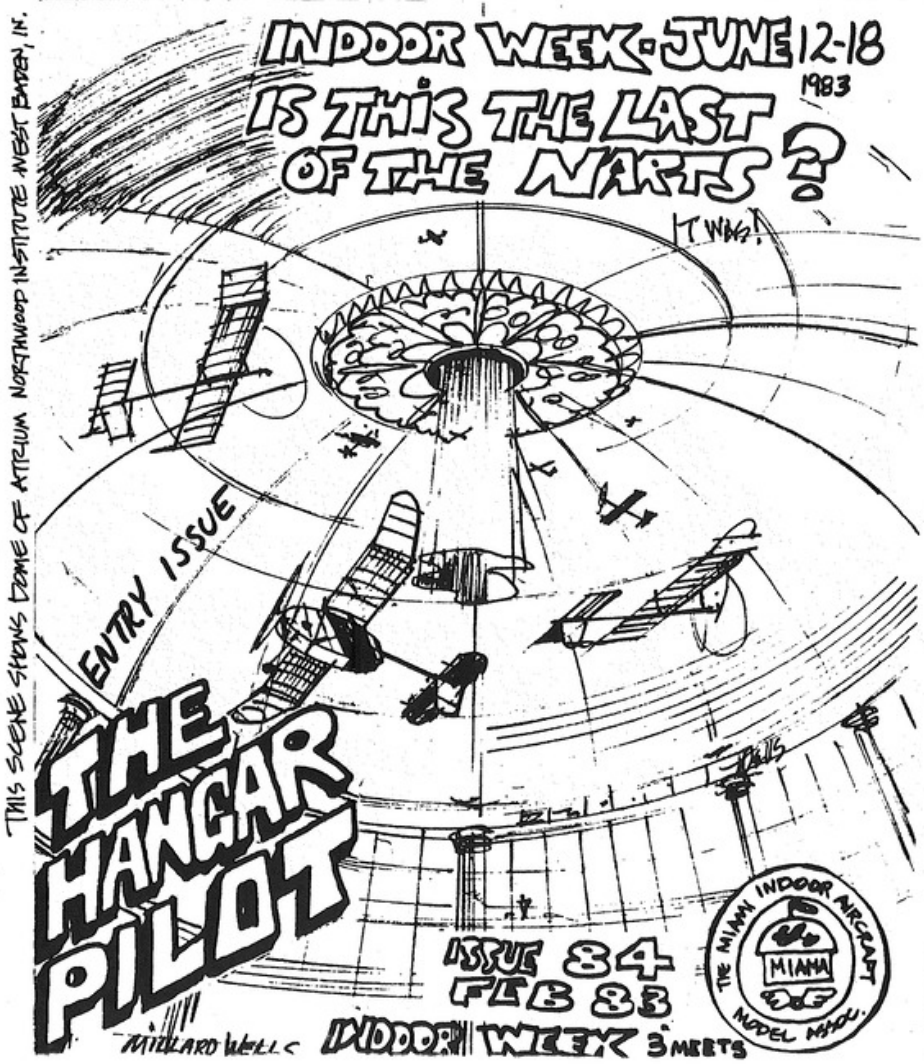
1971-94 YOU'VE COME A LONG WAY, BABY!!

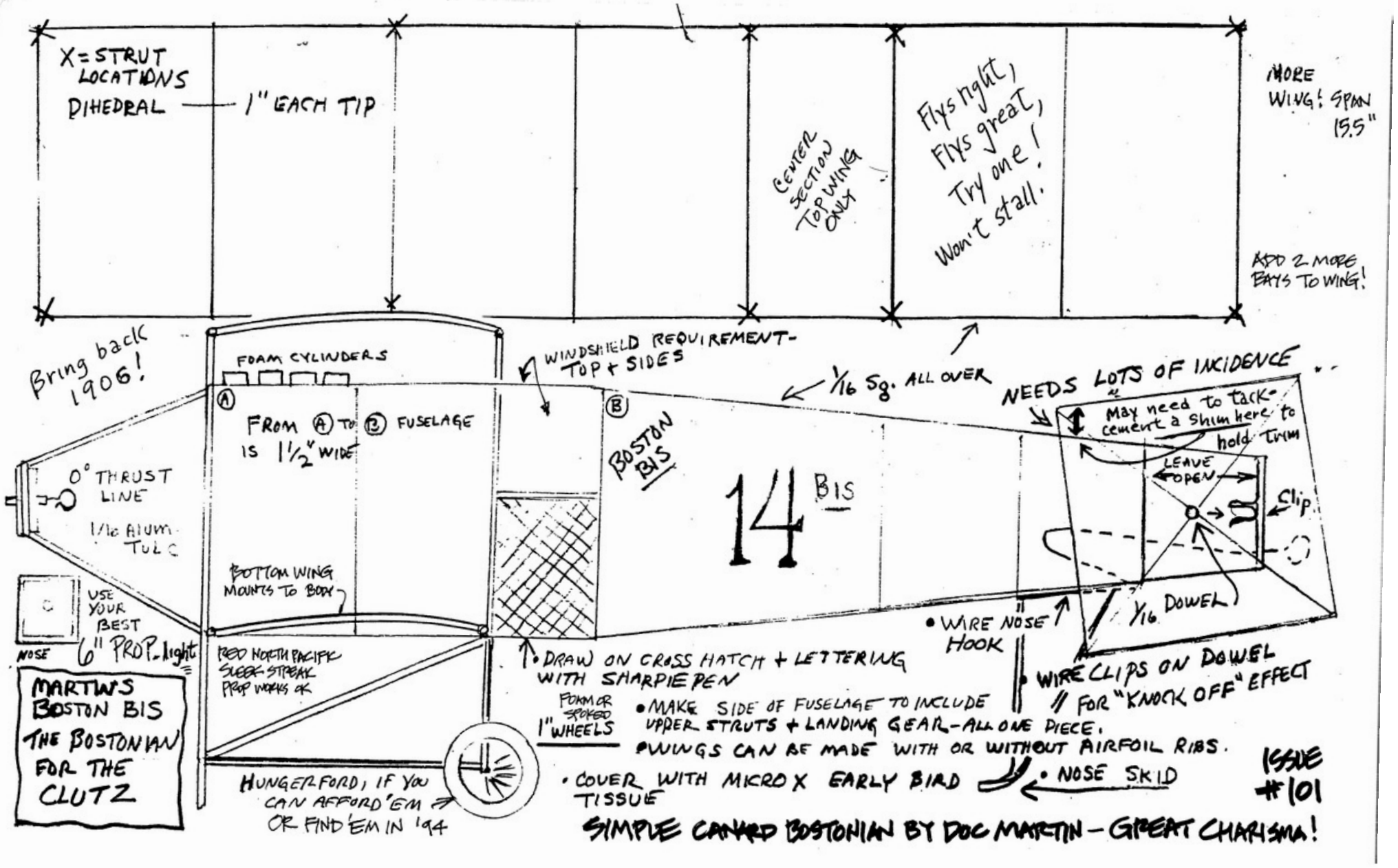
VOLUME UNBOUND TO EASE COPYING PLANS!

Best of the HANGAR PILOT

Vol 2: 1979-86

COVER 90% TRUE SIZE ART: MILLARD WELLS AMS




X = STRUT LOCATIONS
DIHEDRAL — 1" EACH TIP
CENTER SECTION TOP WING ONLY
Flys right, Flys great, Try one! Won't stall.
MORE WING! SPAN 15.5"
ADD 2 MORE BAYS TO WING!
Bring back 1906!
FOAM CYLINDERS
WINDSHIELD REQUIREMENT- TOP + SIDES
1/16 Sq. ALL OVER
NEEDS LOTS OF INCIDENCE
May need to tack-cement a shim here to hold Trim
LEAVE OPEN
Clip
FROM (A) TO (B) FUSELAGE IS 1 1/2" WIDE
BOSTON BIS
14 BIS
0° THRUST LINE
1/16 ALUM. TUBE
BOTTOM WING MOUNTS TO BODY
USE YOUR BEST 6" PROP. light
NOSE
MARTIN'S BOSTON BIS THE BOSTONIAN FOR THE CLUTZ
FRED NORTH PACIFIC SLEEK-STREAK PROP WORKS OK
HUNGERFORD, IF YOU CAN AFFORD 'EM OR FIND 'EM IN '94
FOAM OR SPOKED 1" WHEELS
• DRAW ON CROSS HATCH + LETTERING WITH SHARPIE PEN
• MAKE SIDE OF FUSELAGE TO INCLUDE UPPER STRUTS + LANDING GEAR - ALL ONE PIECE.
• WINGS CAN BE MADE WITH OR WITHOUT AIRFOIL RIBS.
• COVER WITH MICRO X EARLY BIRD TISSUE
• NOSE SKID
• WIRE NOSE HOOK
1/16 DOWEL
• WIRE CLIPS ON DOWEL // FOR "KNOCK OFF" EFFECT
ISSUE #101
SIMPLE CANARD BOSTONIAN BY DOC MARTIN - GREAT CHARISMA!

ISSUE #63 VARIOUS AUTHORS OF

CONSTRUCTION TIPS:

Odd, isn't it that there always seems to be something that someone else knows that you don't? Lets see if you were aware of the following stuff:

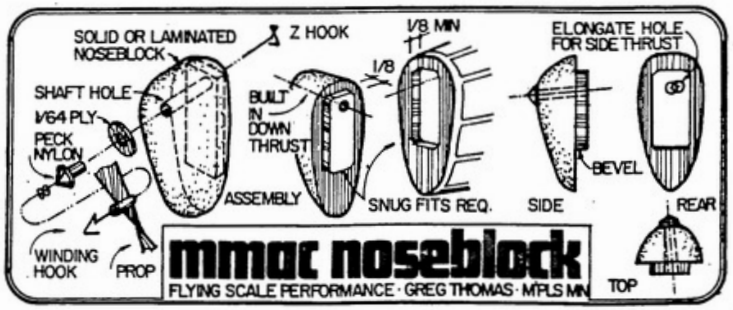
Doc Martin contributes this suggestion for scale models: Tired of your nose plug popping out as your rubber goes slack? Try coating both the plug and the nose formers with rubber cement. Renew once in a while.

Mike Arak says its easy to transfer all the curved wood parts from your plan to your print wood. Just Xerox the parts using the PLAIN PAPER copier, and then iron the parts onto your wood with a hot iron as you would a T shirt emblem.

Nick DeCarlis mentions a weight saving finish in his peanut Cessna Cardinal article in June 1980 Model Builder. Instead of dope he sprayed it with SCOTCHGUARD (Awaterproofing fabric treatment available at grocery stores) This does a good job of waterproofing for your next R.O.W., or foggy mornings. It beads up a bit when sprayed, and needs to be spread about a bit with a cotton ball or brush.

California's Ken Johnson contributed a lot to this issue. He drew the great WW I scene on the cover, and contributes these hints: For great rigging wires on peanut scale models he uses surgical thread—6.0 or 000000 DEKNATAL BLACK THREAD for suturing. Very thin and non hairy. He said his friend Dr. Hacker told him about it but I think he's putting me on. No Dr. is named HACKER. (A golfer, maybe). Ken designed all the peanuts for MICRO-X, and builds lighter than Richmond. For instance his Waco E biplane says "finished weight 2.5 Gms.". Popycock I say!! I'm gonna weigh it myself! Ken uses BEADBOARD FOAM everywhere a block of balsa would usually be used...Nose, wheels, cowl cheeks, wheel pants, etc. It only weighs 3 lb. per cubic foot. It must be cemented with white glue, or it will dissolve. Ken also suggests 1/32" plywood for biplane struts (Great!). Careful, Ken, that stuff's kinda heavy!!

RUFF'S LAW OF REVERSE RESULTS: ANYTHING ANY GOV. DOES TO CORRECT ANYTHING — RESULTS IN THE PROBLEM GETTING WORSE. HOWARD RUFF



MIAMA ALSO HELD THE 1ST WORLD INTER-GNATS FOR PISTACHIO (PROXY) MAY 13 1984



MIAMA ISSUE #60 JUNE 26 1981 NOTE DATE!

SECOND ANNUAL WORLD P-NUT GRAN PRI

MIAMA - THE SLEEPLESS INNOVATORS

24 HOURS OF FLYING!

Open to all modelers around the world....All nations, ages, and sexes, either in person, or with your model flown by proxy.

THE CONTEST will be from 7:00 PM Fri. June 26 to 7:00 PM June 27 followed by an awards banquet and a midnight awards ceramony.

There are 5 classes of peanuts, (I) PIONEER (Up to WW I), (II) Warplanes (Combined WW I & WW II aircraft excluding liaison, sky cycles & personnel planes that were civil aircraft of the period...You KNOW the ones we mean) (III) Golden age (Between WW I & II) (IV) Modern (After WW II) (V) Weirdo, This new class includes multi-engined planes, flying boats (not Cubs on floats amphibians, autogyros, helicopters, triplanes, or quadraplanes. NO canards, pushers, or flying wings unless they are also one of the above weird types . (Planes entered in Weirdo class can also be entered in its other class... Pioneer, Modern, etc.)

AWARDS: There will be engraved glass bottom mugs for Ist, 2nd, & 3rd, a Grand Peanut, Best static score, Best flight score, and some Flying Aces Type mass launch event awards. ALL ENTRIES will receive a souvenir and complete results down to umteenth place, so you can improve for next year.

PROXY ENTRIES will be sent to Northwood Institute directly, and kept on the college grounds throughout. Fill in both sides of the entry blank below:

ENTRY - 2ND WORLD P-NUT G.P.

SEND TO: Mike Arak, 10900 SW 61 Ct. Miami FLA. 33156 USA

THE SOONER THE BETTER - DEADLINE MAY 15, 1981

NAME: N/A AMA age Group_____

ADDRESS:_____

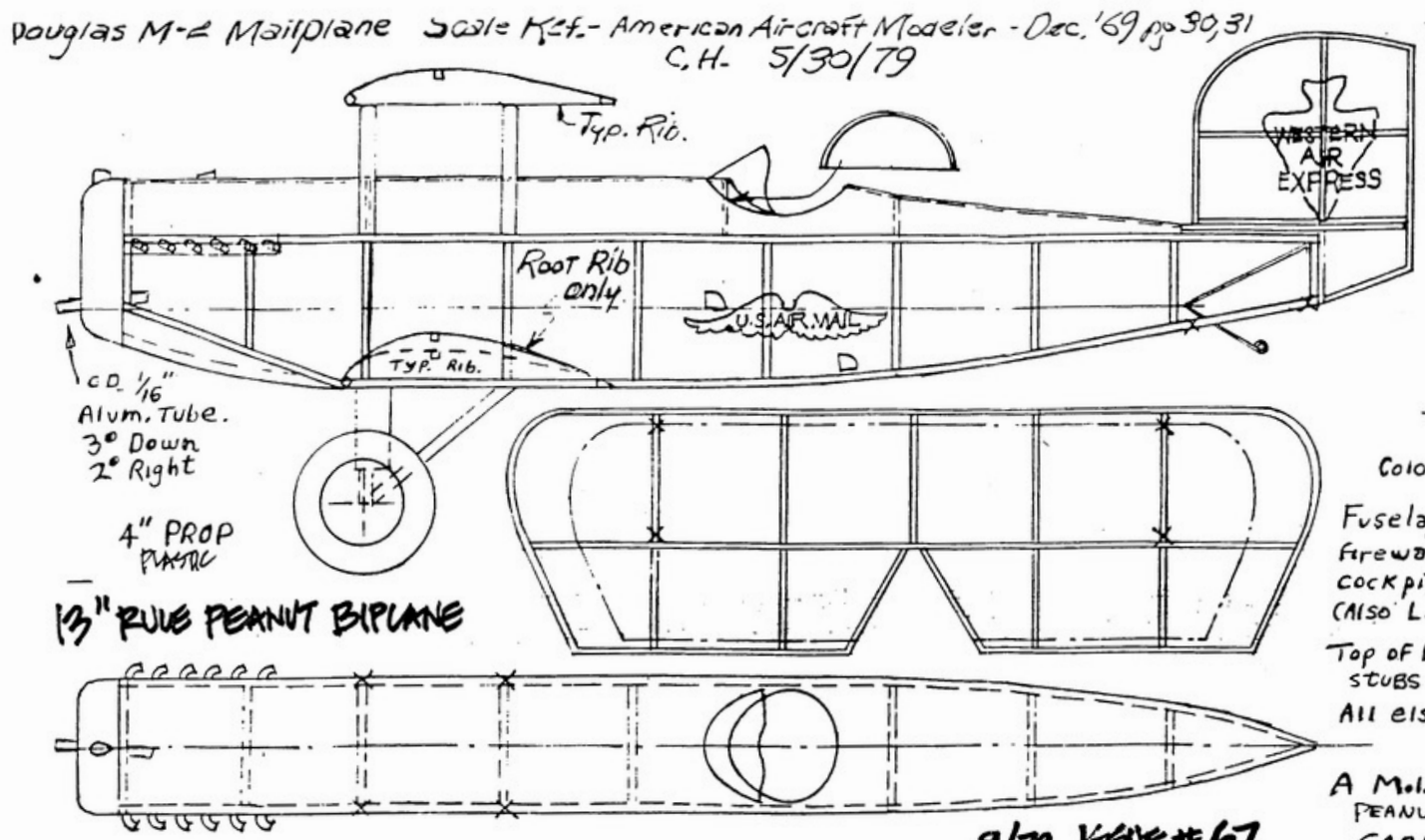
CHECK → ☐ I NEED A PROXY FLYER: NON-PROXY TURN IN TIME 10:AM JUNE 25 IT'S FUN!

→ ☐ I AM COMING TO WEST BADEN FROM JUNE____ TO JUNE_____

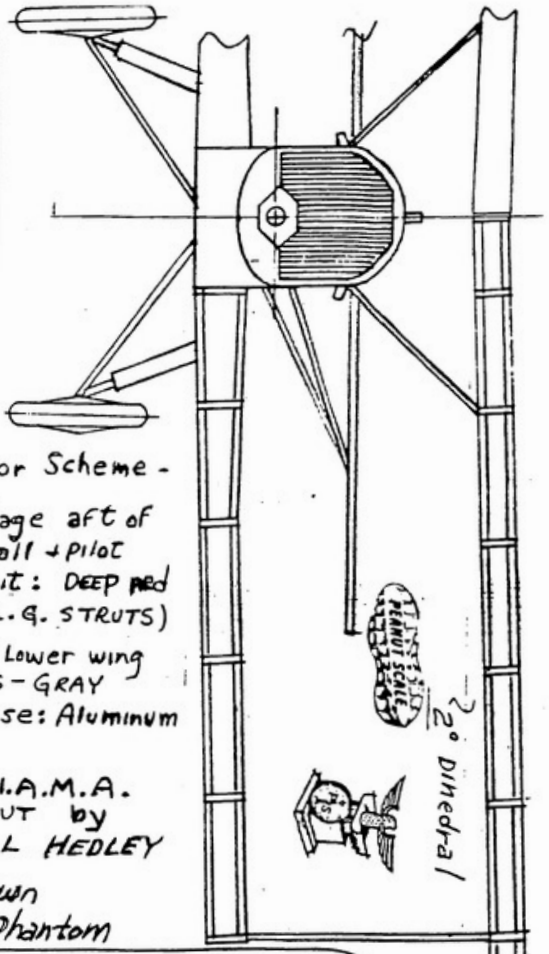
→ ☐ I WILL PROXY FLY (We need Proxy Pilots. There is a special discount for proxy flyers..see other side:)

THERE WILL BE_____OTHERS WITH ME: Because of the many indoor events this week we urge you to make arrangements for rooms early. Room reservation, and meal information will be sent out when we receive this entry form from you so don't delay sending it in

Douglas M-2 Mailplane Scale Ref.- American Aircraft Modeler - Dec. '69 pg 30,31
C.H. 5/30/79



13" RUBE PEANUT BIPLANE



Color Scheme -

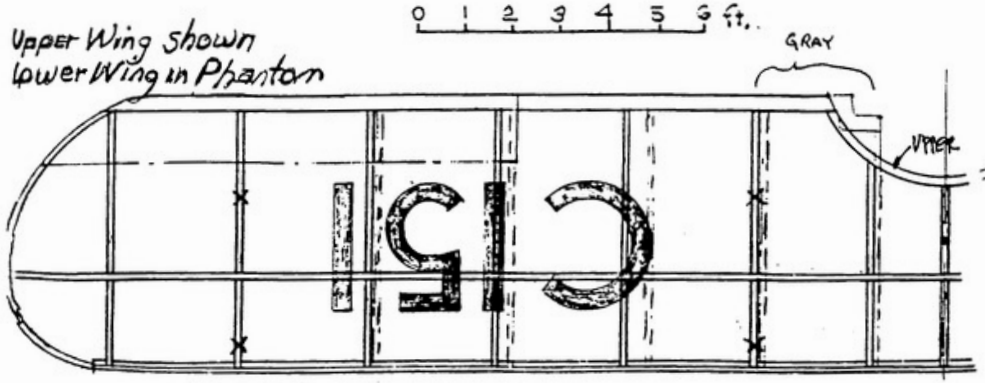
Fuselage aft of firewall + pilot cockpit: DEEP RED (ALSO L.G. STRUTS)

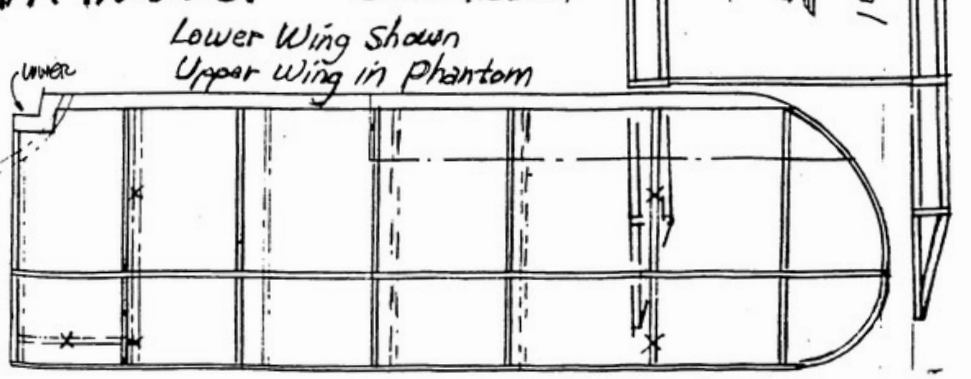
Top of Lower wing STUBS - GRAY

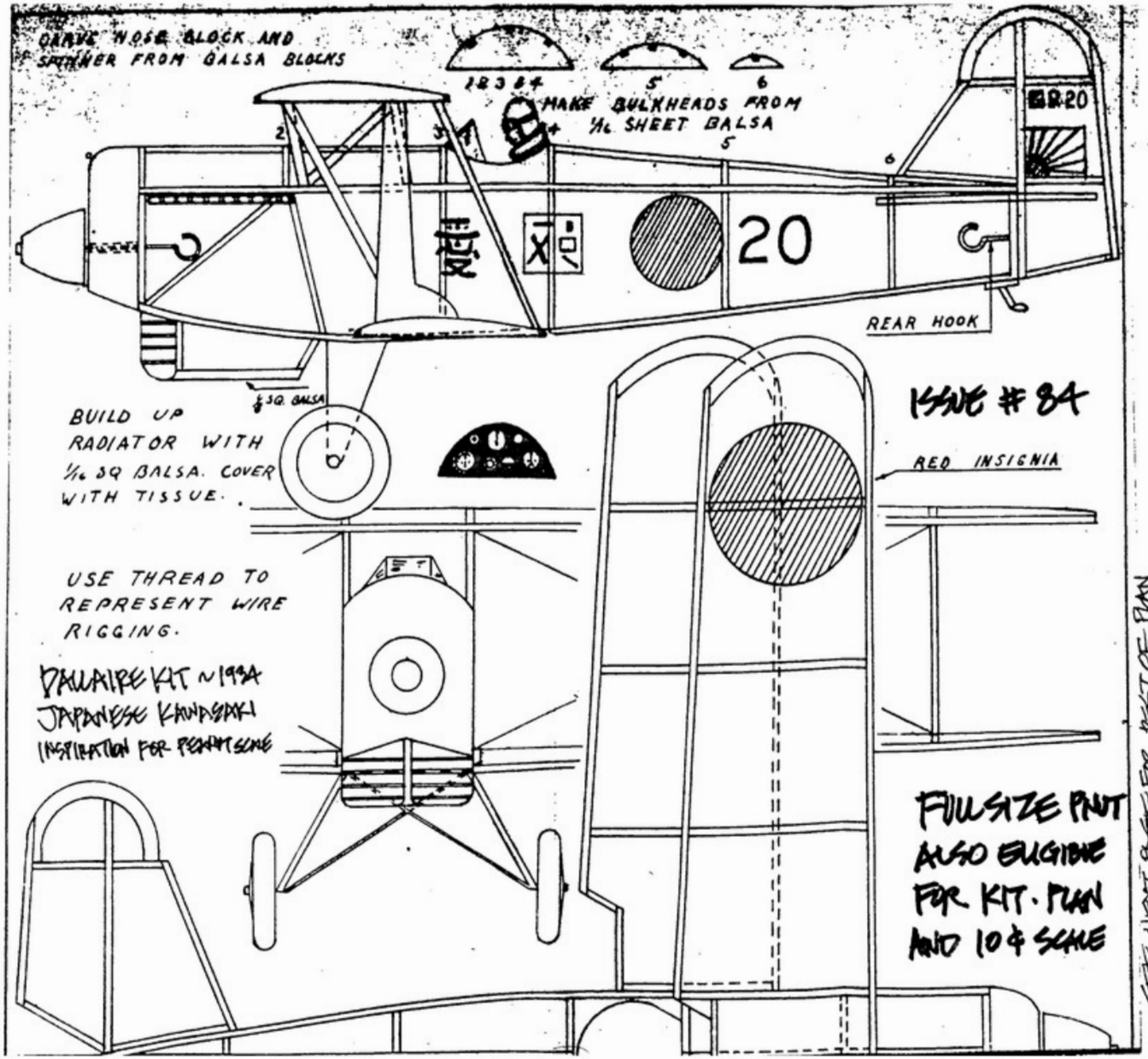
All else: Aluminum

A M.I.A.M.A. PEANUT by CARL HEDLEY

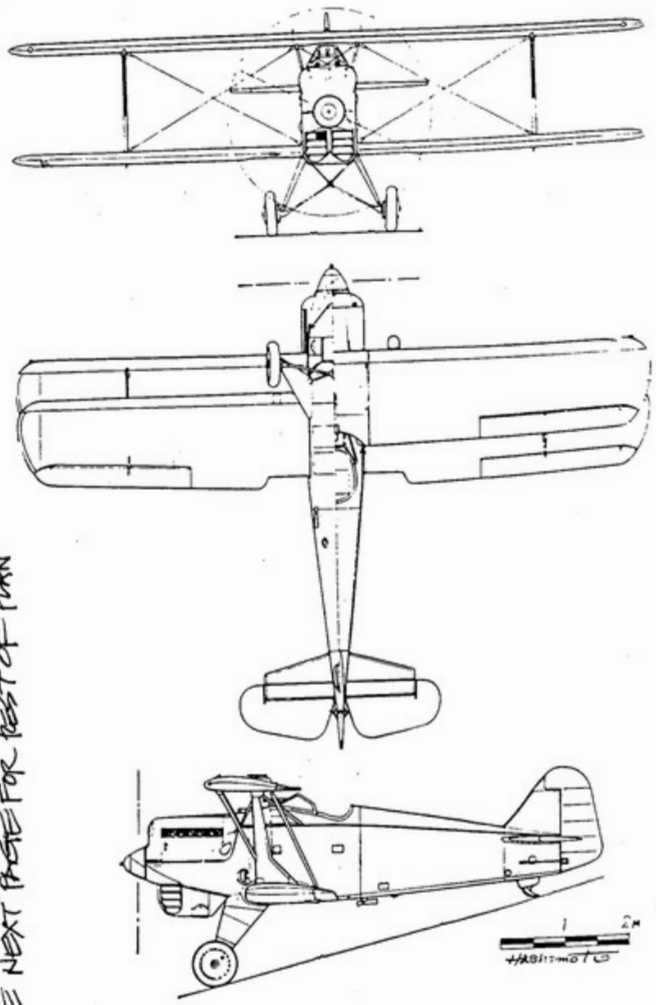
9/79 ISSUE #67





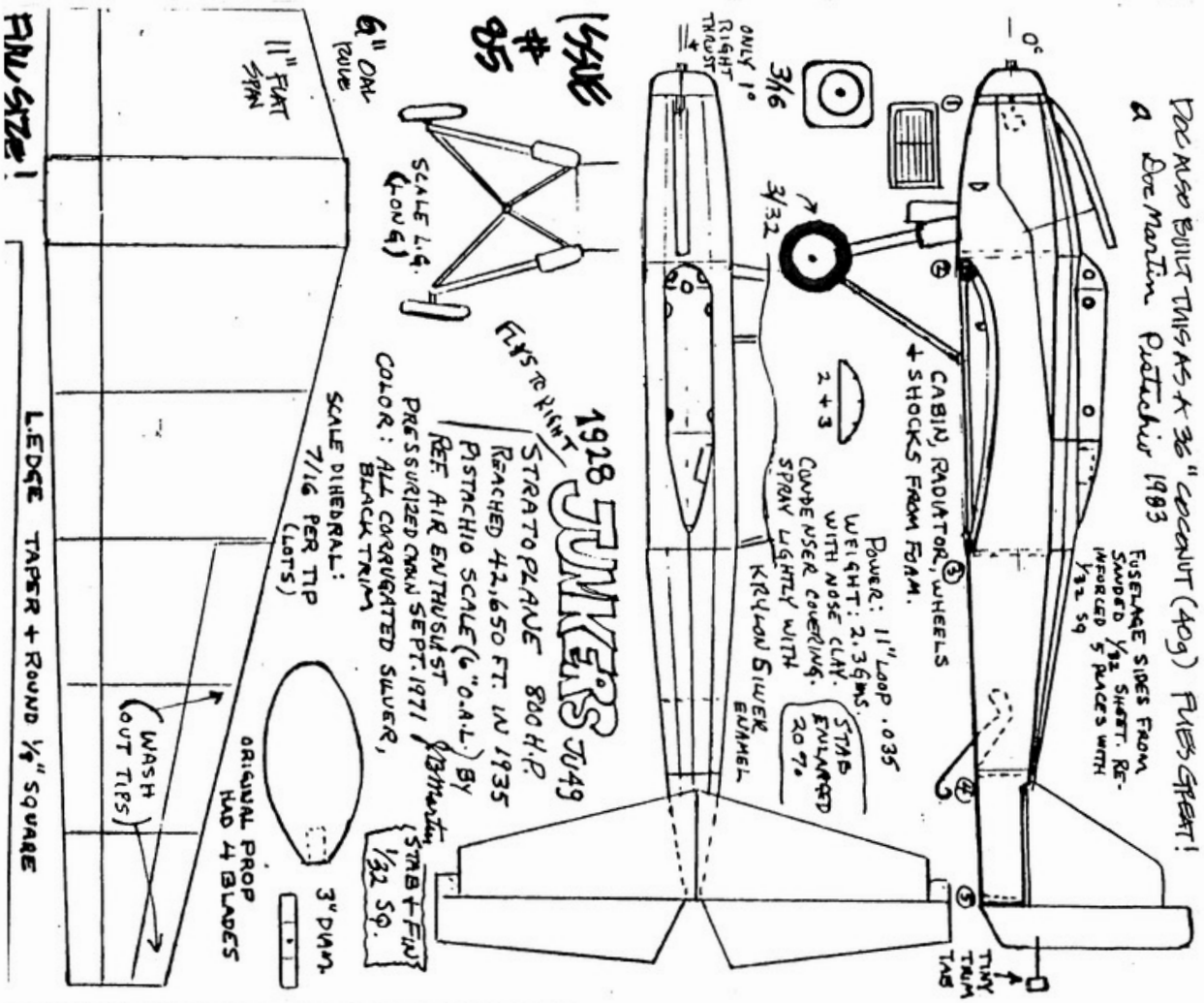


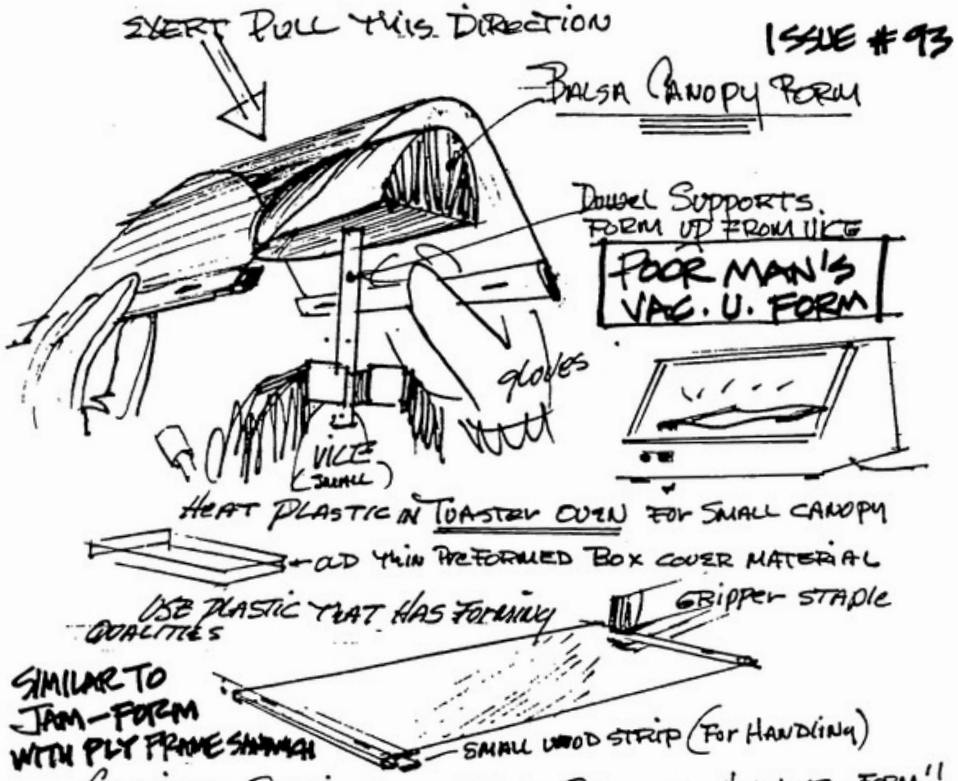
九二式一型戦闘機 (川崎 KDA-5)



EXCEL. JAPANESE MILITARY
3-VIEW CREDIT: JAPAN

NOTE AND GEAR LEG SHAPE FIN SHAPE DISCREPANCY!


ISSUE #85
FUN SIZE!
DOC ALSO BUILT THIS AS A 36" COCONUT (40g) FLIES GREAT!
a Doc Martin Plotkin 1993
1928 JUNKERS JU49
FLYS TO PAINT
STRATOPLANE 880 H.P.
REACHED 42,650 FT. IN 1935
PISTACHIO SCALE (6" O.A.L.) BY
REF. AIR ENTHUSIAST
PRESSURIZED CABIN SEPT. 1971
COLOR: ALL CORRUGATED SILVER,
BLACK TRIM
SCALE DIHEDRAL:
7/16 PER TIP
(LOTS)
11" FLAT SPAN
6" CHORD
SCALE L.G.
(LONG)
3/16
3/32
ONLY 1° RIGHT THRUST
+ SHOCKS FROM FOAM.
CABIN, RADIATOR, WHEELS
2 + 3
POWER: 11" LOOP .035
WEIGHT: 2.3 GMS.
COMPRESSER COVERING.
SPRAY LIGHTLY WITH
KRYLON SILVER ENAMEL
STAB ENLARGED 20%
FUSELAGE SIDES FROM
SANDED 1/32 SHEET. RE-
INFORCED 5 PLACES WITH
1/32 SQ
TINY TRIM TAB
L.EDGE TAPER + ROUND 1/8" SQUARE
WASH OUT TIPS
ORIGINAL PROP
HAD 4 BLADES
3" DIAM.
STAB + FIN
1/32 SQ.
IF MODEL STALLS
ADD A SMALL WEIGHT
TO THE NOSE. IF IT
DIVES WARP ELEVATORS
UP. MODEL SHOULD FLY
ON TWO STRANDS OF
1/8 FLAT RUBBER.
1934 DALLAPE KIT - INSPIRED FNUT SCALE LATER!
CARVE SPINNER
AS SHOWN AND
MOUNT ON PROP
SEE PREVIOUS
PAGE FOR
REST OF PLAN
AND 3 VIEW
ISSUE #84
JAPANESE
KAWASAKI FIGHTER
ARMY TYPE 92
THIS KIT IS 60 YEARS OLD!
IN 1994, IS IT POLITICALLY CORRECT TO SAY: "REMEMBER



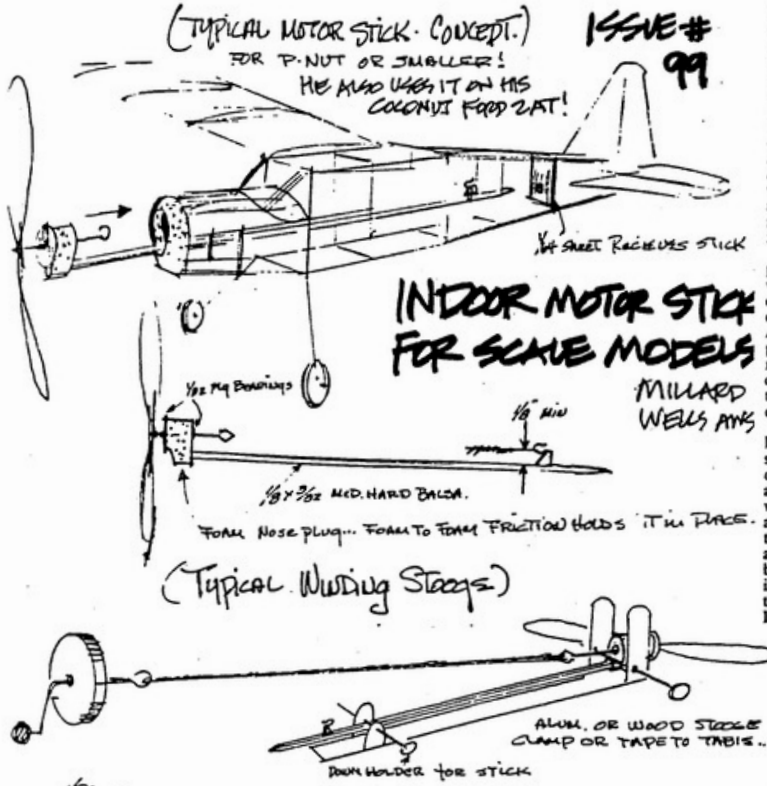
Here it is, hangar pilots: what to do when you don't happen to have a Vac-U-form that all your plans for your favorite airplanes call for. Now Millard tells you how to form wheel pants, cowls, canopys, etc. with only a toaster oven and consumate skill. CAN ALSO HEAT IN BOILING H_2O OR WITH HAIR DRYER

Get building, hangar pilots for the first ever world champs for the smallest scale models in the world. They are easy to send through the mail, and because of their small size, are cheap to mail, and durable in transit.

Here are the classes and awards:

I Under two (2) grams.
II Two(2) to Three and one half (3 1/2) grams.
III Over Three and one half (3 1/2) grams.

PISTACHIO - MAX: 8" SPAN. OR 6" OVERALL LENGTH
RIDDTO - 5" OR LESS SPAN



ADVANTAGES
1. CARE FREE WINDING
2. LESS HANDLING OF MODEL. NO MORE FUSELAGE REPAIRS!!
3. LIGHTER WEIGHT STRUCTURES (ESPECIALLY BEHIND THE WING.)

DISADVANTAGES
1. SOME FUSELAGES ARE TOO SMALL
2. THRUST ADJUSTMENTS MUST BE PRE-PLANNED.
3. A SPECIAL WINDING STOOGE MUST BE USED

TRY IT - IT WORKS!

ISSUE #89

Also most distant, most unusual, best static score, highest flight time, Lacey/Fike class, and a special award for the smallest RIDDTO model to achieve a 30 SECOND FLIGHT.

CAPT. PISTACHIO RULES FOR 1ST WORLD INTERGNATS PISTACHIO PROXY MEET MAY 13 1984 - FLOWN IN MIAMI

FIFTY YEAR OLD PAPER AE

PLANE. While browsing throug old Phillip's School Atlas in a sec hand bookshop recently Alan ridge, one of Martin Dilly's leagues at work, discovered envelopes, presumably, left her some air-minded schoolboy. contained unflown specimens *Sail-Me, The Wonder 'Plane of W bley*, which turned out to be a wingspan paper aeroplane, pre and two-colour printed with roundels and assembly and trimr instructions.

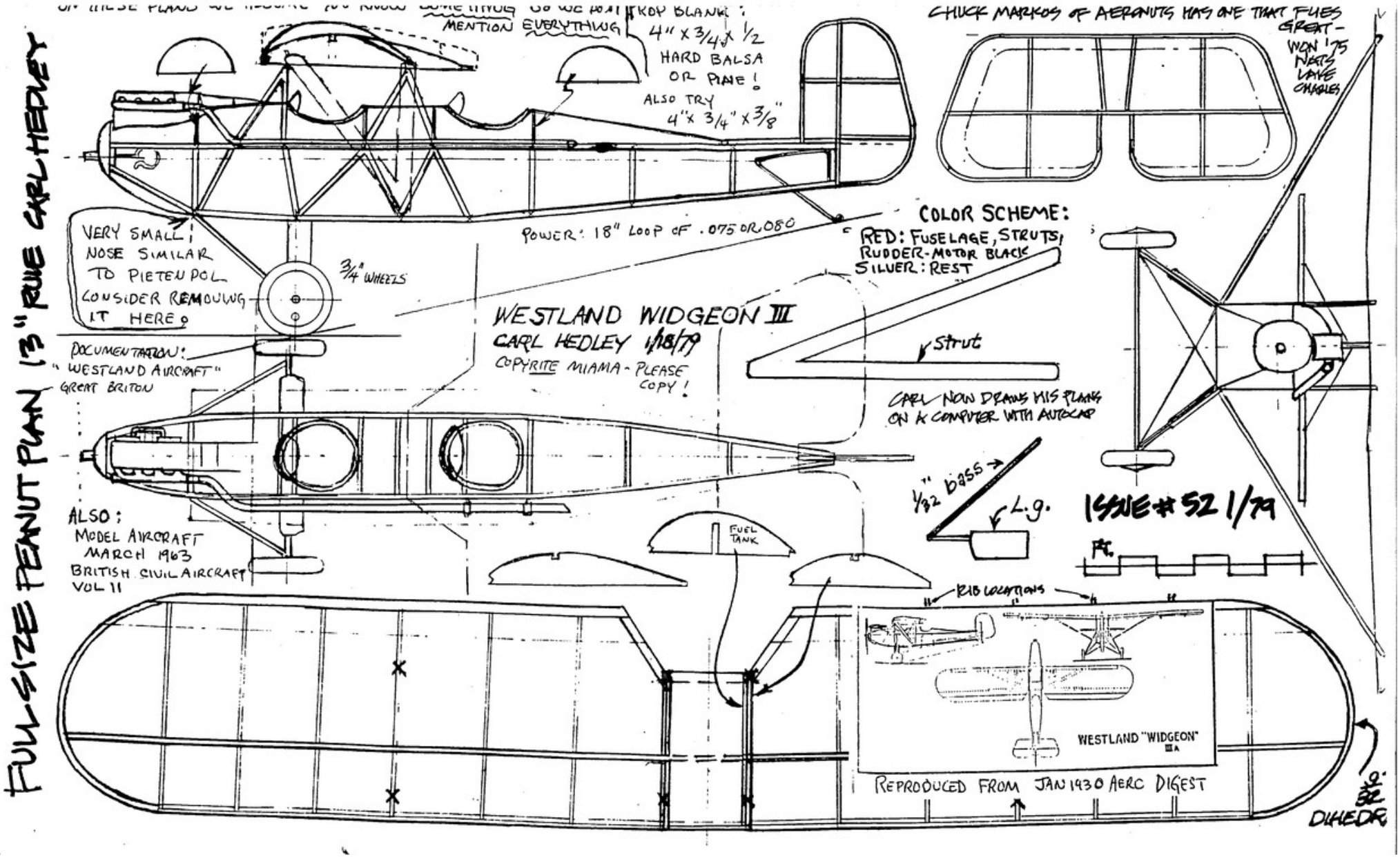
On the outside of the envelo presumably typically dressed ov with neatly-buttoned jacket and l cloth peaked cap, demonstrates capabilities of 'The Wonderful Aeroplane', which will perform pendicular Spirals, Horizontal rals' and can 'Loop the Loop'. clothes and Wembley reference the *Sail-Me* as probably 1925, the of the British Empire Exhibition

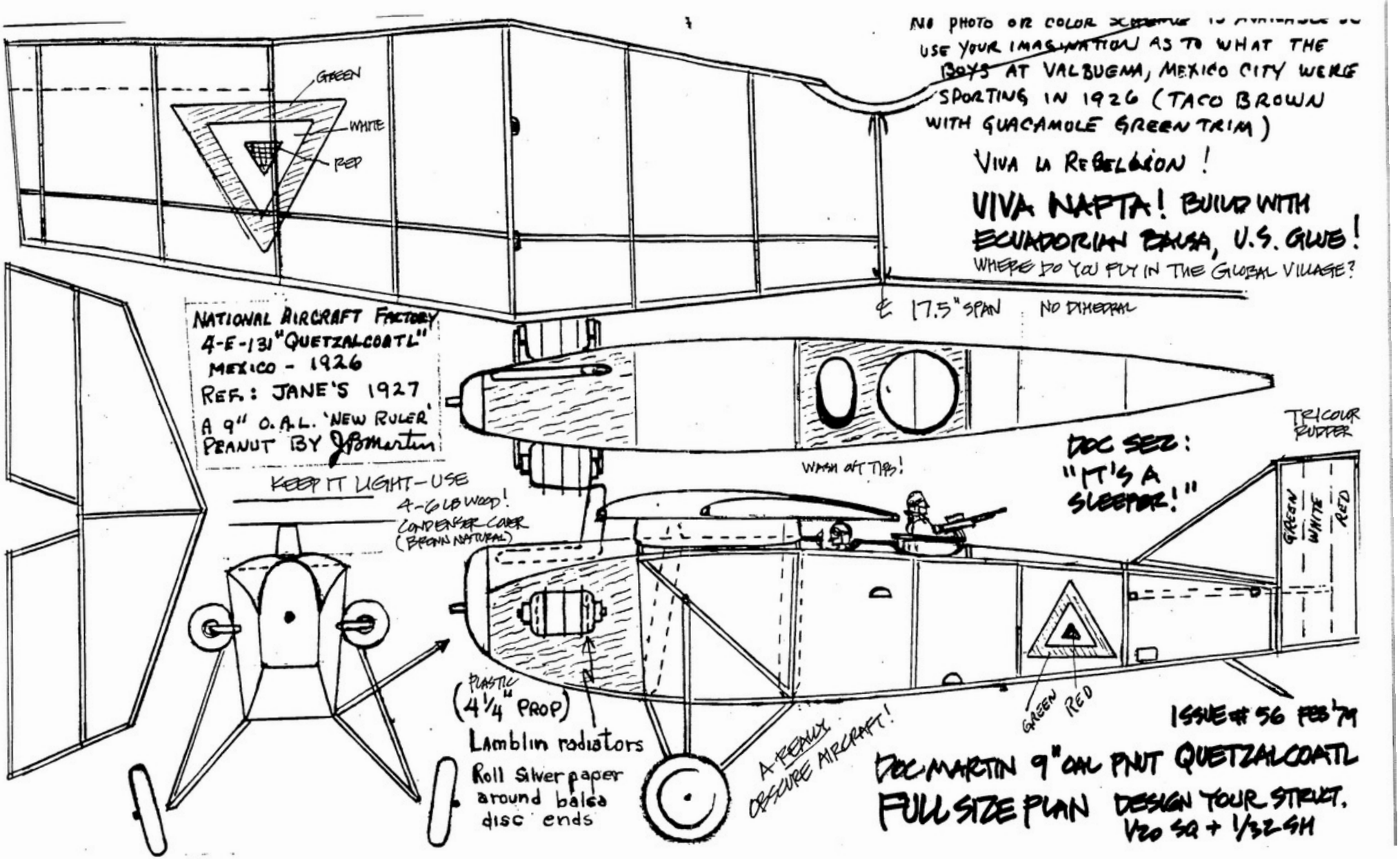
The cleverly-designed paper fu lage is ready-fitted with a crim steel nose weight, and, when spr open to accept the wing, gives about ¼in. of camber at the ro which decreases automatically to an almost flat plate section at tips. Flights of fifteen feet and m are possible, but aerobatics have been attempted. It would have b interesting to have seen a model this type competing in last yea Lyons Maid paper glider event.



The 'Sail Me' paper aeroplane as discovered in a book shop and probably dating from 1925.

NOV '75 AEROMODELLER


FULL SIZE PEANUT PLAN 13" RWE CARL HEDLEY
MENTION EVERYTHING
4" x 3/4" x 1/2
HARD BALSA
OR PINE!
ALSO TRY
4" x 3/4" x 3/8"
CHUCK MARKOS OF AERONUTS HAS ONE THAT FLIES GREAT - WON 175 NEATS LAVE CHARLES
VERY SMALL NOSE SIMILAR TO PIETENPOL CONSIDER REMOVING IT HERE?
POWER: 18" LOOP OF .075 OR .080
3/4" WHEELS
COLOR SCHEME:
RED: FUSELAGE, STRUTS, RUDDER-MOTOR BLACK
SILVER: REST
WESTLAND WIDGEON III
CARL HEDLEY 1/18/79
COPYRITE MIAMA - PLEASE COPY!
Strut
DOCUMENTATION:
"WESTLAND AIRCRAFT"
GREAT BRITON
CARL NOW DRAWS HIS PLANS ON A COMPUTER WITH AUTOCAD
1/32" bass
L.g.
ISSUE #52 1/79
ALSO:
MODEL AIRCRAFT
MARCH 1963
BRITISH CIVIL AIRCRAFT
VOL II
FUEL TANK
RIB LOCATIONS
WESTLAND "WIDGEON" III A
REPRODUCED FROM JAN 1930 AERO DIGEST
2° DIHEDRAL


NO PHOTO OR COLOR SCHEME IS AVAILABLE SO USE YOUR IMAGINATION AS TO WHAT THE BOYS AT VALBUENA, MEXICO CITY WERE SPORTING IN 1926 (TACO BROWN WITH GUACAMOLE GREEN TRIM)
VIVA LA REBELION!
VIVA NAPTA! BUILD WITH ECUADORIAN BALSA, U.S. GLUE!
WHERE DO YOU FLY IN THE GLOBAL VILLAGE?
NATIONAL AIRCRAFT FACTORY
4-E-131 "QUETZALCOATL"
MEXICO - 1926
REF: JANE'S 1927
A 9" O.A.L. 'NEW RULER' PEANUT BY J Bomerton
℄ 17.5" SPAN
NO DIHEDRAL
GREEN
WHITE
RED
TRICOLOR RUDDER
DOC SEZ: "IT'S A SLEEPER!"
WASH OUT TIPS!
KEEP IT LIGHT - USE 4-6 LB WOOD!
CONDENSER COVER (BROWN NATURAL)
(PLASTIC 4 1/4" PROP)
Lamblin radiators
Roll Silver paper around balsa disc ends
A REALLY OBSCURE AIRCRAFT!
ISSUE #56 FEB '79
DOC MARTIN 9" OAL PNT QUETZALCOATL
FULL SIZE PLAN DESIGN YOUR STRUCT. 1/20 SQ + 1/32 SH

FULL SIZE PEANUT PLAN 13" RULE BY DOC

APPLY BLACK LICENSE + AILERONS WITH "SHARPIE" PEN

3/16" SCALE DIHEDRAL - EACH TIP

CCCP -3-6

STRUTS

ISSUE #50 9/79

AS WITH ALL OUR MIAMA PEANUT PLANS - NOT ALL DETAILS ARE ON THEM. YOU HAVE TO INNOVATE AS WE KNOW YOU WILL DO ANYHOW. SEE MUNSON'S BOOK FOR ALL STUFF NOT HERE .... A MIAMA PLAN BY Doc Martin

OUTLINE OF WING IS 2 LAMINATIONS OF 1/32 X 1/16 BENT AROUND CARDBOARD TEMPLATE. COVER WITH CONDENSER PAPER THAT HAS BEEN PREVIOUSLY PAINTED WITH YELLOW INK.

A GOOD FLYER + HOLDS ITS TRIM!

STOLICHNOYA!

COMRADE LINSTRUM BUILT AS A PISTACHIO

1/20" SQ OUTLINE BENT ON TEMPLATE

RUDDER THE SAME -

NOSE FROM HOLLOWED BLOCK

BALLAST WITH TACKS IN HOLES DRILLED IN CYLINDERS

1 DEGREE RIGHT AND 2 DEGREES DOWN THRUST

RIGHT RUDDER -

BLACK TISSUE

SILVER COLOR LINE FROM HERE FOREWARD - PLANE IS ALL YELLOW WITH SILVER FUSELAGE

1/20" SQ - 6 LB. WT. FUSELAGE CONST.

BRACE

.020 WIRE

CLAY

.015 WIRE AXEL + SHOCKS

NORTH PACIFIC 'SKEETER' PROP OR 3½" LAMINATED HARDWOOD FOR WT.

WT 6.5 GM WITH BALLAST

20" LOOP OF .065 PIANO WILL DO 1 MIN R.O.G.

CARUE MOTOR - 9 CYLINDERS - FROM DISC 7/8" X 1/4"

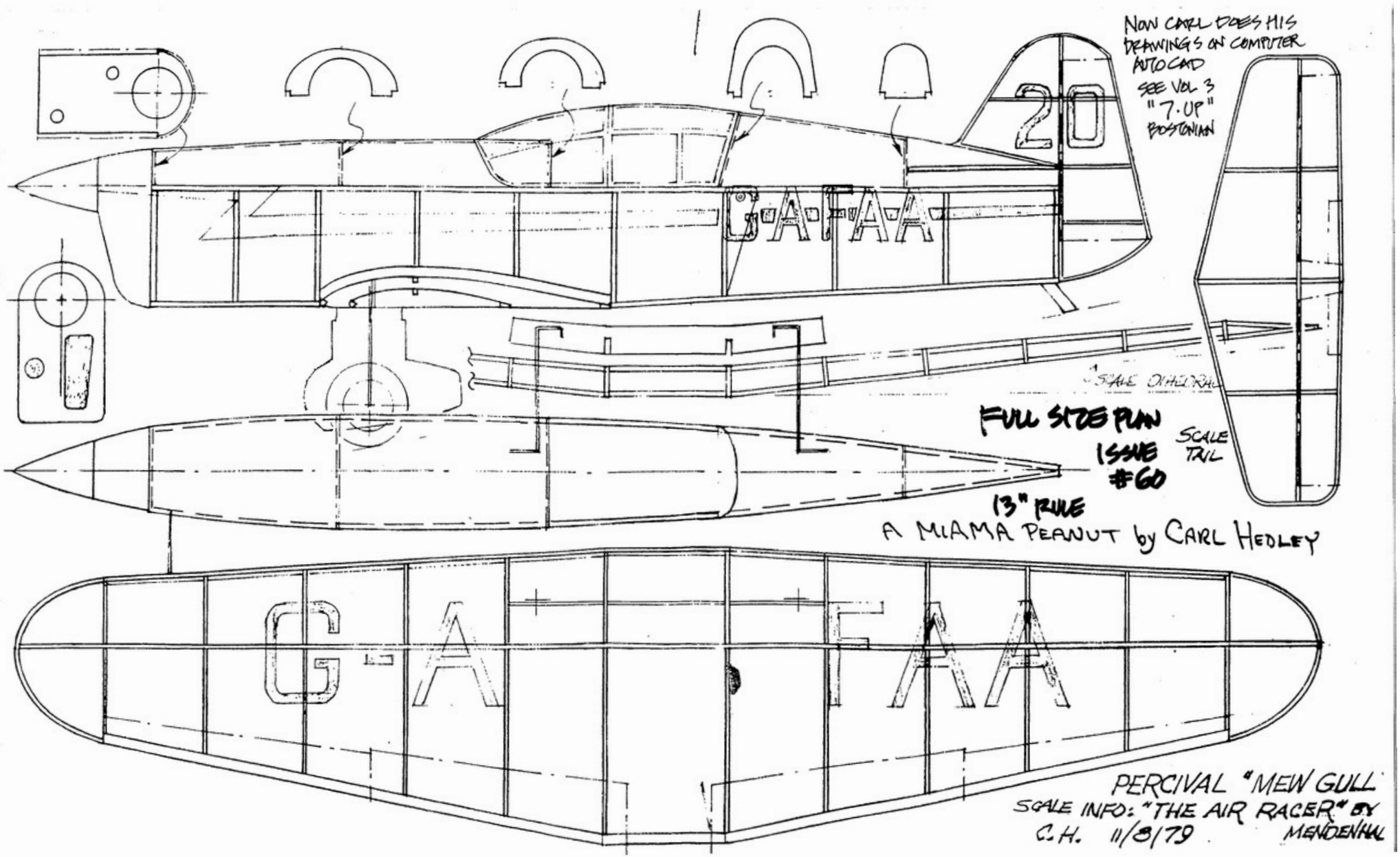
SCALE L.G.! RECOMMEND ENLARGING IT!

IF YOU LIKE TO BEND WOOD, YOU'LL LOVE THE KALINAN TAYORICH

KALINAN K-5

1929 RUSSIAN AIRLINER

COLOR + 3-VIEWS IN "AIRLINERS BETWEEN THE WARS 1919 - 39" BY



NOW CARL DOES HIS DRAWINGS ON COMPUTER AUTOCAD SEE VOL 3 "7-UP" BOSTONIAN

FULL SIZE PLAN ISSUE #60

SCALE TRIL

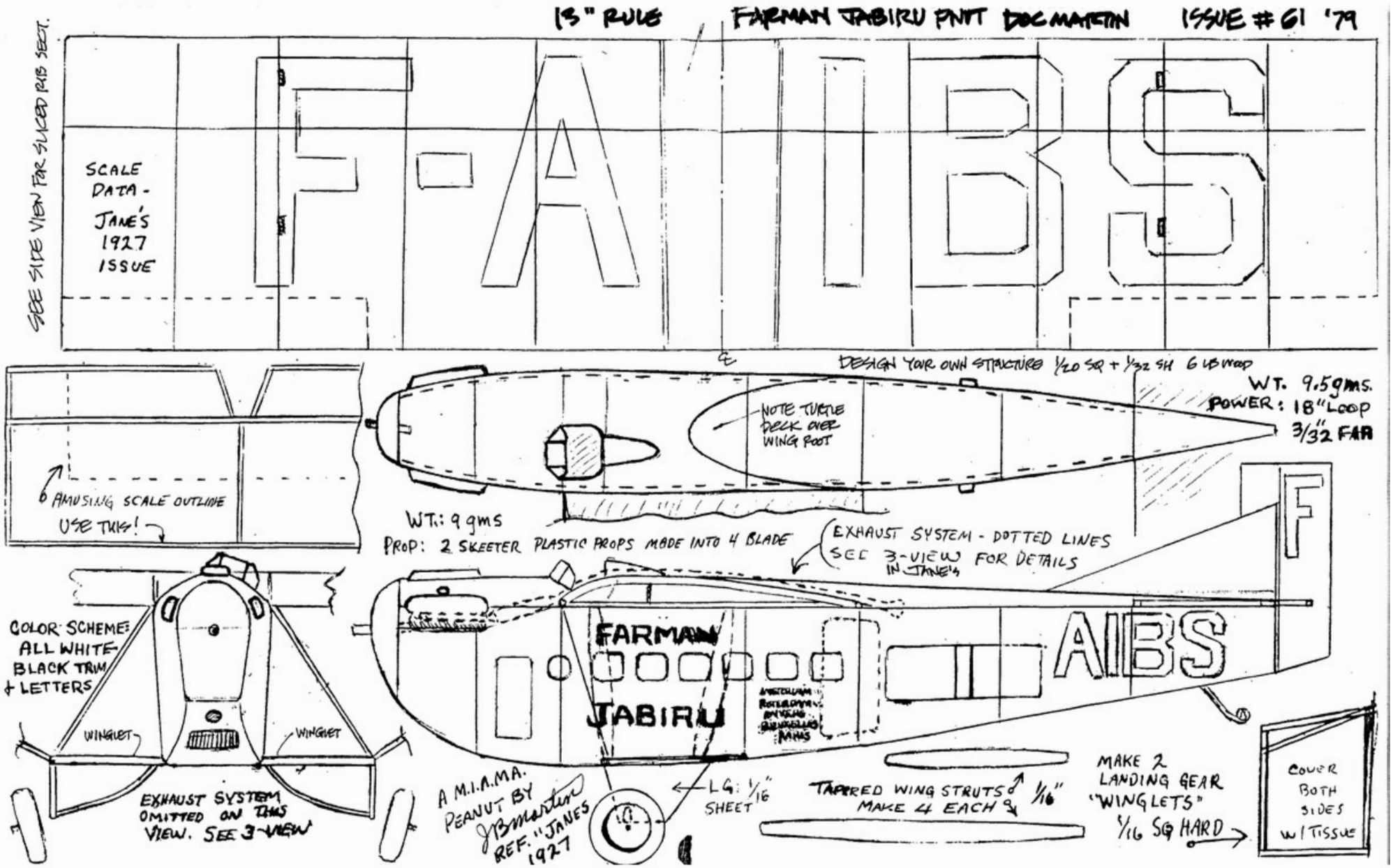
13" RULE

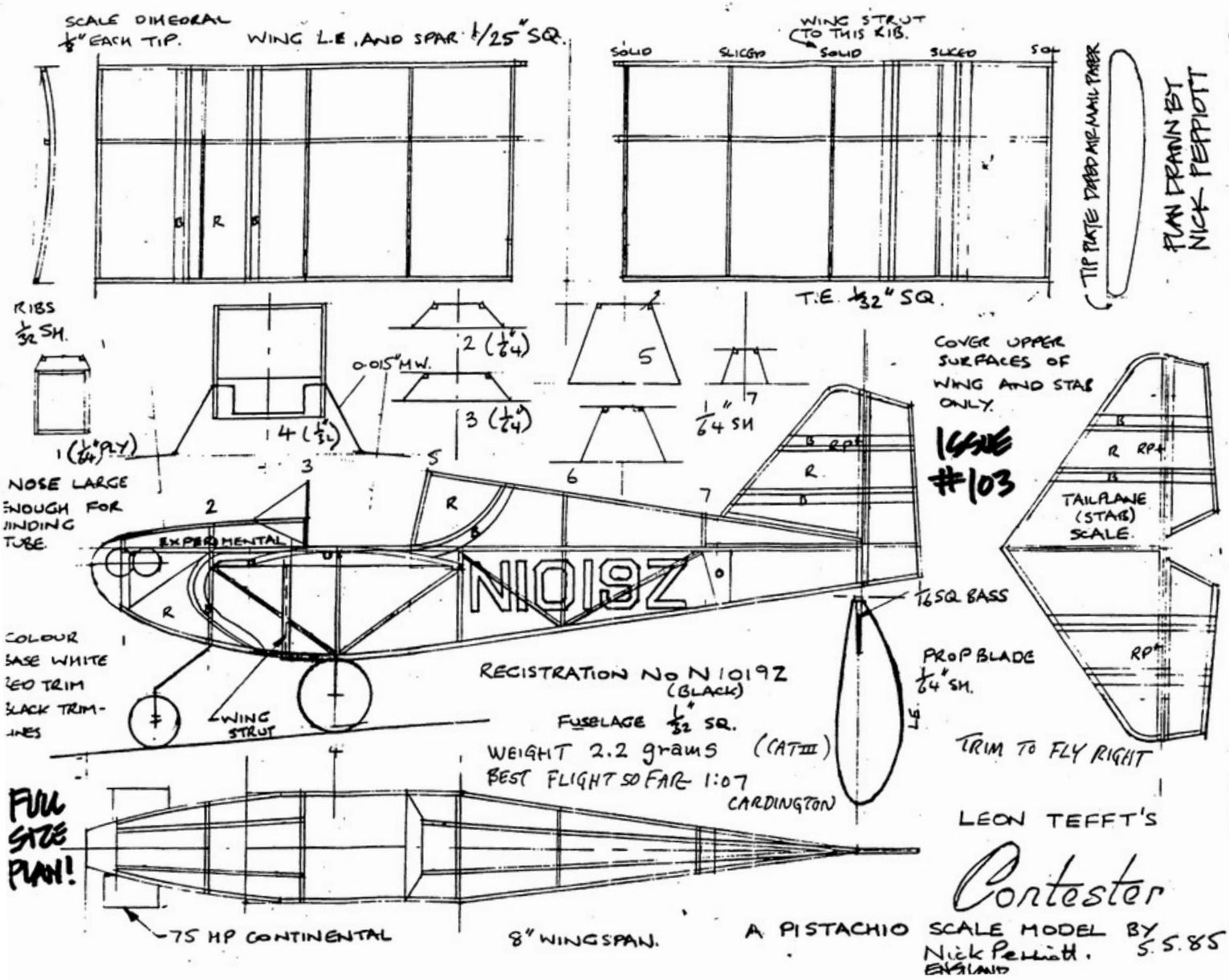
A MIAMA PEANUT by CARL HEDLEY

PERCIVAL "MEW GULL"

SCALE INFO: "THE AIR RACER" BY MENDENHALL

C.H. 11/8/79


13" RULE
FARMAN JABIRU PNTT DOC MARTIN
ISSUE #61 '79
F-AIBS
SEE SIDE VIEW FOR SLICED RIB SECT.
SCALE DATA - JANE'S 1927 ISSUE
DESIGN YOUR OWN STRUCTURE 1/20 SQ + 1/32 SH 6 LB WRAP
WT. 9.5 gms.
POWER: 18" LOOP 3/32 FAI
NOTE TURTLE DECK OVER WING ROOT
AMUSING SCALE OUTLINE USE THIS!
WT: 9 gms
PROP: 2 SKEETER PLASTIC PROPS MADE INTO 4 BLADE
EXHAUST SYSTEM - DOTTED LINES SEE 3-VIEW IN JANE'S FOR DETAILS
COLOR SCHEME: ALL WHITE BLACK TRIM & LETTERS
FARMAN
JABIRU
AIBS
WINGLET
WINGLET
EXHAUST SYSTEM OMITTED ON THIS VIEW. SEE 3-VIEW
A.M.I.A.M.A. PEANUT BY J.B. Martin REF. "JANES 1927
LG: 1/16 SHEET
TAPERED WING STRUTS 1/16" MAKE 4 EACH
MAKE 2 LANDING GEAR "WINGLETS" 5/16 SQ HARD
COVER BOTH SIDES W/ TISSUE



AT LAST!

A COMMON DELIMA... THE KNOT SLIPS ON YOUR FAVORITE LOOP OF RUBBER THAT MAKES SUPER FLIGHTS ON YOUR MODEL. OR THE BAND BREAKS .... IT'S LUBED RUBBER - - WHAT TO DO?

HOW DO YOU TIE LUBED RUBBER?

MANY, MANY, MANY SUGGESTIONS. A LOT OF THEM DON'T WORK!

I'VE TRIED THIS METHOD BY HAROLD LACLAIR AND IT WORKS!

(1) ABOUT 3" FROM END TIE 1/2 OF A SQUARE KNOT: (B) (A)



(2) PULL ENDS (A) + (B) TOGETHER. TIE A "GRANNY" KNOT IN THEM



(3) AFTER PULLING KNOT IN (2) TIGHT, PULL KNOT IN (1) UP AGAINST IT. DONE! THANKS, HAL.

WE SOLICIT OTHER SUGGESTIONS FOR TYING LUBED RUBBER!!

☆ ANY OF YOU WHO HAVE A DIFFERENT METHOD OF TYING LUBED RUBBER - SEND IT TO US!

DOC'S KNOT ISSUE #103