DETROIT AREA INDOOR FLYING INFORMATION

Our indoor flying will again take place at UWM/ReImagine Recreation
867 South Blvd E
Pontiac, MI 48341
We will be flying at Field 1, and access is normally from the back parking lot.

INDOOR DATES:
Per usual, our monthly indoor contests will be on the Second Thursday of each month, from 8am to Noon, November through April.

14 November
12 December
09 January
13 February
13 March
10 April

WAIVER:
ReImagine Recreation has requested that ALL indoor attendees (flyers and spectators) sign the waiver. It is a simple electronic document; link below. PLEASE SIGN THE WAIVER
https://docs.google.com/forms/d/e/1FAIpQLScpEMt71bsI-HNtJ6IIXpVlUhJcj5ixiNGd5B9BVPsqrC47kw/viewform?usp=sf_link

EVENTS:
Firstly, a reminder that it will cost $20 per flyer, per session, payable to me (George) on the date of the event (I turn in the cash to the office after each flying session).

We will be flying all non-Mass-Launch events as BUST (Best Unlimited Single Time).
Mass Launches will be minimum of two rounds:
Golden Age Racer* NoCal (6.2g minimum, 7" prop maximum)
WWII NoCal (6.2g minimum, 7" prop maximum)

* - Golden Age Racers include all eligible Greve, Thompson AND National Air Race models (per FAC Rules).

TIMED EVENTS:
All Events are BUST (Best Unlimited Single Time) events*
Phantom Flash - best single flight
Simplified Scale - Any Scale model (Peanut, Scale, Dime, etc) - no judging, best single flight plus bonus
NoCal - (must be different than Mass Launch models) - best single flight
Embryo - best single flight plus bonus
JetCat - best single flight plus bonus
P-18 - best single flight - SEE BELOW

* - Best Unlimited Single Time (BUST) Events.

We have only four hours to fly. Keeping everything Total of Three Flights restricts the time available to fly events. By changing to Best Unlimited Single Time (BUST), we allow people to fly fewer individual times, but participate in more events. Phantom Flash (and sometimes Embryo) almost always has multiple people recording 3 maxes and then a fly-off - which is, in effect, a BUST time. People can focus on one event to get better scores, if they want - but can move on to a different event if they are satisfied with their scores. Current "official attempts" would remain the same (3 flights or 6, per FAC Rule Book).

AMA RULES FOR P-18 (Event 227)
25.1. General - Except for the specific rules that apply to this event, the rules for free flight rubber hand launched stick shall apply.

25.2. - The model shall be a rubber powered MONOPLANE covered with either tissue or plastic shopping bag material.

25.3. - The wing shall not exceed 4.5 inch chord and projected span of 18 inches. Horizontal stabilizer shall not exceed a maximum span of 9 inches with a maximum chord of 3.5 inches. Maximum overall length, including the propeller, shall not exceed 18 inches.

25.4. - The propeller shall be an unmodified commercially available plastic prop with anominally maximum diameter of 6". If the propeller is advertised as being a 6" unit, it is acceptable for this event. Weight may be added for balancing.

25.5. - The maximum hook to hook distance shall not exceed 10 inches.

25.6. - The minimum weight of the completed model, less rubber, shall be 7.5 grams.

FOR CLOUDBUSTERS, BOM APPLIES!!!
Please find six P-18 plans attached. You can use ANY P-18 plan, from the attached or from any other source. We will be flying this as FAC "Pinkham Field Stick" for a kanone.

WING MAIN SPARS~FIRM 3/32
WING TIP SPARS~FIRM 1/16
WING RIBS~MEDIUM 1/16
SLICED X 1/16 DEEP

WING POSTS
OFFSET .5"

LEFT WING TIP

BIG SMASH P-18

EAA INDOOR 2020 P-18 ONE DESIGN INSPIRED BY THE MASH-UP
MUST CONFORM TO AMA P-18 RULES, WHICH BASICALLY SAY:
~MAX PROJECTED WING SPAN 18"
~MAX WING CHORD 4.5"
~MAX STAB SPAN 9", MAX STAB CHORD 3.5"
~MAX LENGTH INCLUDING PROP IS 18"
~MAX HOOK TO HOOK DISTANCE 10"
~MINIMUM WEIGHT 7.5 GRAMS
~COVERING TO BE TISSUE OR PLASTIC SHOPPING BAG MATERIAL
~PROP RULE: "The propeller shall be an unmodified commercially available plastic prop with a nominally maximum diameter of 6". If the propeller is advertised as being a 6" unit,it is acceptable for this event. Weight may be added for balancing."

~WOOD SIZES ARE SUGGESTIONS.
FEEL FREE TO CHANGE!
~COVERING SUGGESTION IS
PLASTIC VEGGIE BAG ADHERED
WITH GLUE STICK.



INSPIRED BY THIS DOOD

6% ARC WING FOIL
SAME TEMPLATE
FOR STAB

FRONT VIEW

1.63 DIHEDRAL EACH TIP
(DOUBLE POLY
DIHEDRAL OPTIONAL
MAINTAIN 18"
MAX SPAN)

WING POSTS~
FIRM 3/32 x3" LONG
PAPER SOCKETS

RUDDERS ATTACH
TO TOP OF RIBS

STAB SPARS~FIRM 1/16
STAB RIBS~MEDIUM 1/16
SLICED X 1/16 DEEP
(USE SAME TEMPLATE
AS WING)

ATTACH RUDDERS AT LEADING EDGE SO THAT
TRAILING EDGE DOES NOT EXTEND BEYOND 18"

RUDDERS~
ALL MEDIUM 1/16
(BUILD TWO!)

MOTOR STICK~FIRM 3/16 OR 1/8 x 3/8 TALL x 10.5 LONG. TAPER ENDS

TAILBOOM~FIRM 3/32 TAPERED FROM 1/4" TO 1/8"
OVERLAP GLUE SEAM TO STAY UNDER 18" O.A.L

PROP AND HANGAR~ ANY COMMERCIAL 6" PLASTIC PROP
HANGAR UP TO BUILDER!

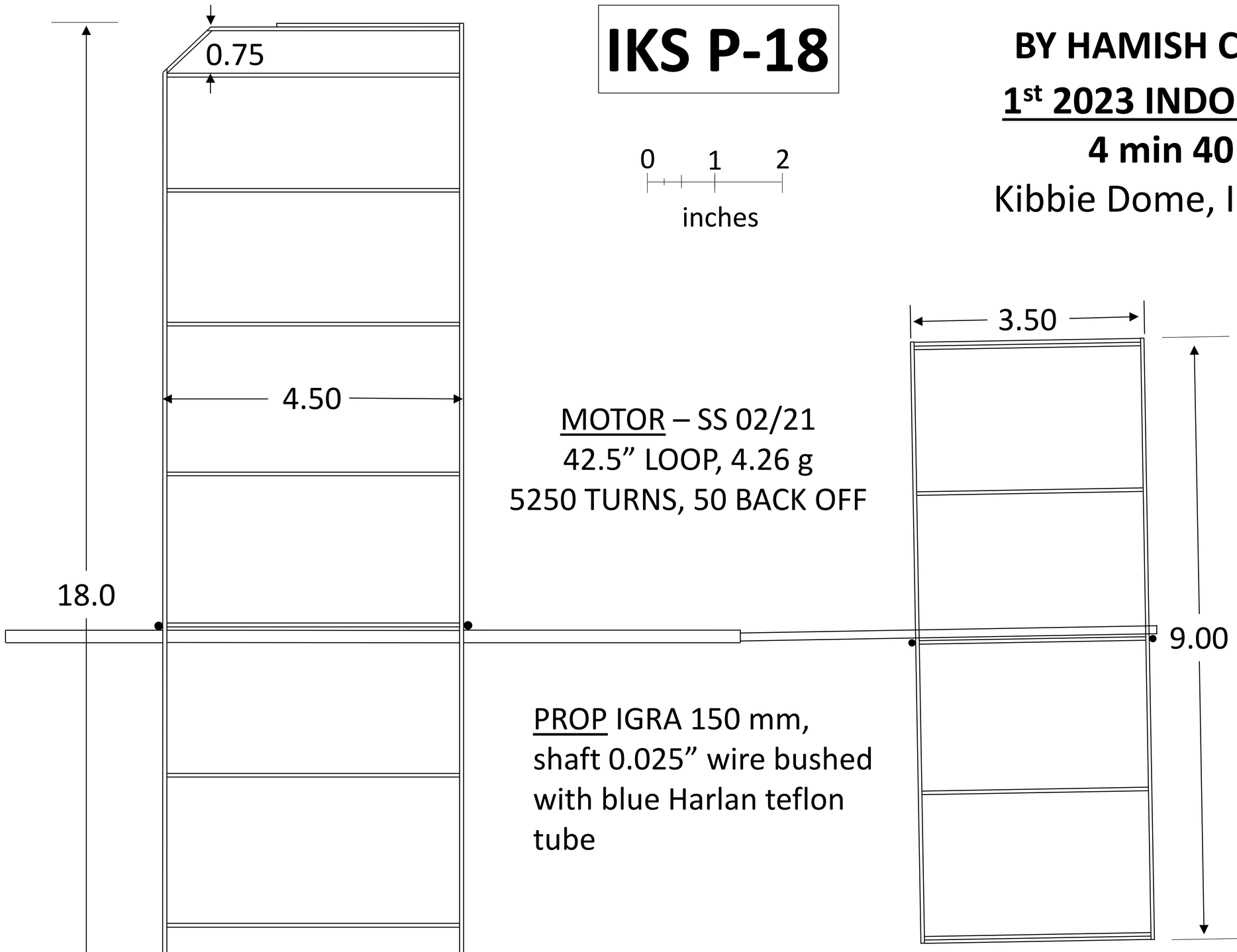
IKS P-18

BY HAMISH CHRISTIE

1st 2023 INDOOR NATS

4 min 40 sec

Kibbie Dome, ID (Cat IV)



0 1 2
inches

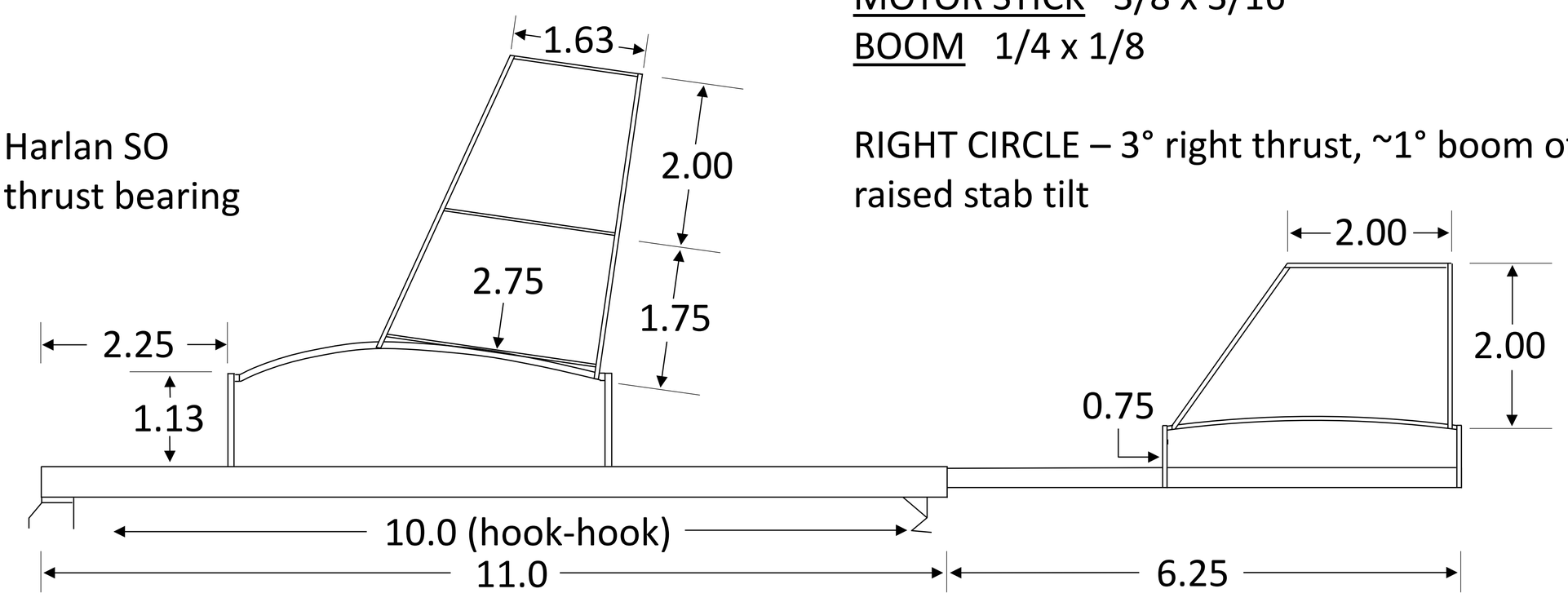
MOTOR – SS 02/21
42.5” LOOP, 4.26 g
5250 TURNS, 50 BACK OFF

PROP IGRA 150 mm,
shaft 0.025” wire bushed
with blue Harlan teflon
tube

WING spars, ribs 3/32 H x 1/16 W
WING TIP PLATES spars 1/16 x 1/16
ribs 1/16 x 1/32, 5” radius camber
STAB spars, ribs 1/16 x 1/16, ribs 14” radius camber
STAB TIP PLATES 1/16 x 1/16
POSTS wing 3/32, stab 1/16 (rounded for tubes)
MOTOR STICK 3/8 x 3/16
BOOM 1/4 x 1/8

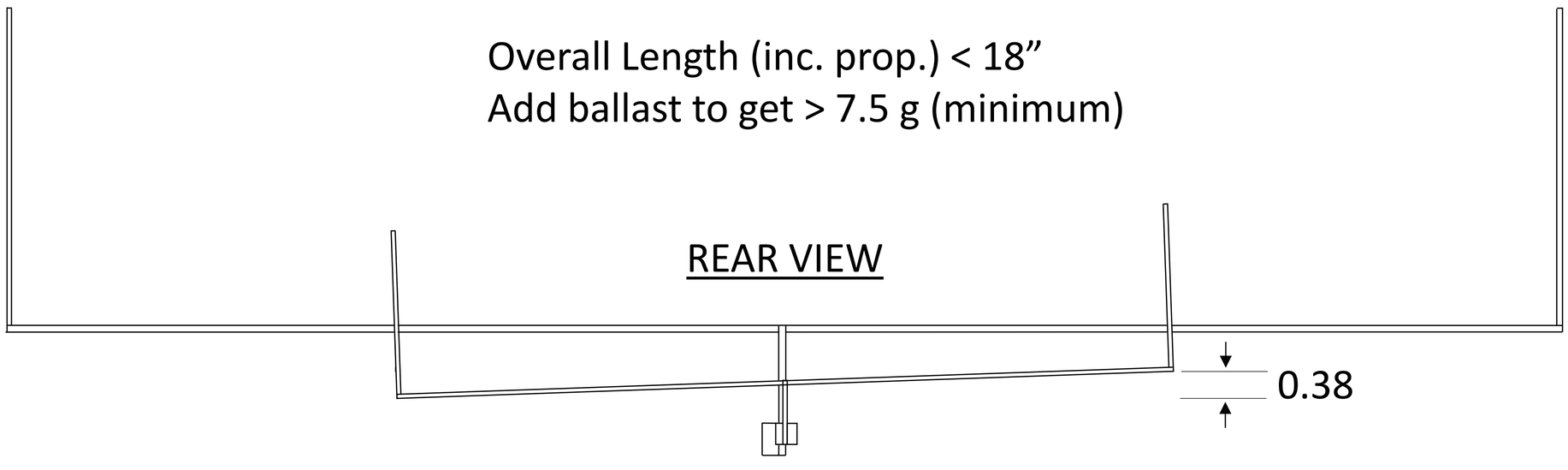
Harlan SO
thrust bearing

RIGHT CIRCLE – 3° right thrust, ~1° boom offset, R side
raised stab tilt



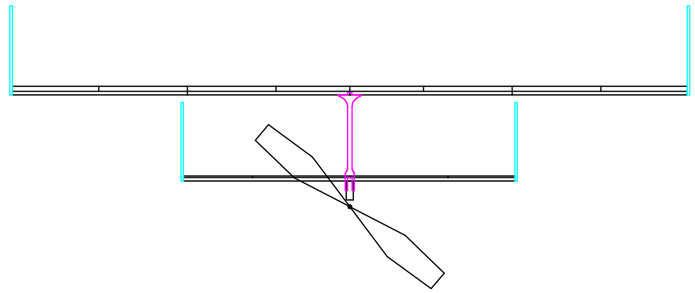
Overall Length (inc. prop.) < 18”
Add ballast to get > 7.5 g (minimum)

REAR VIEW



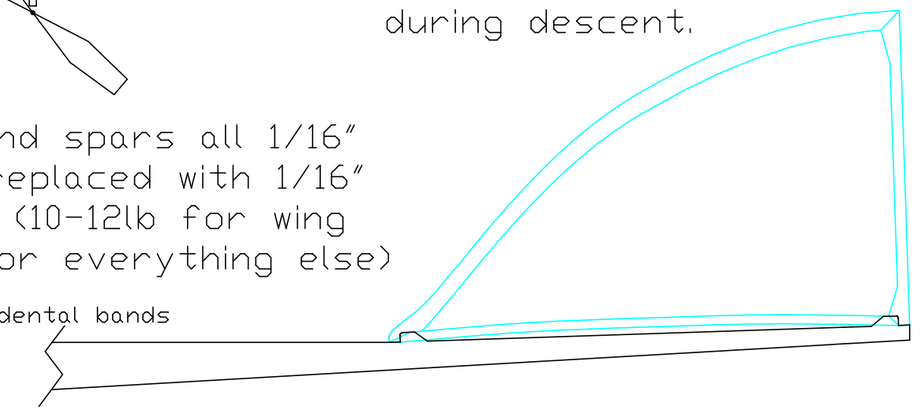
Balance model at 55% chord; any ballast should be added to nose and wing moved as needed.

Model flies best on a 22-26" loop of 1/16"

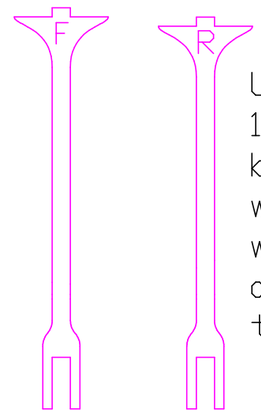


Bend in slight left rudder on right fin, then add left thrust as needed to tighten turn; rudder trim is needed to maintain turn during descent.

Tip fins, ribs, and spars all 1/16" sheet; can be replaced with 1/16" sq for similicity (10-12lb for wing spars, 7-8 lb for everything else)

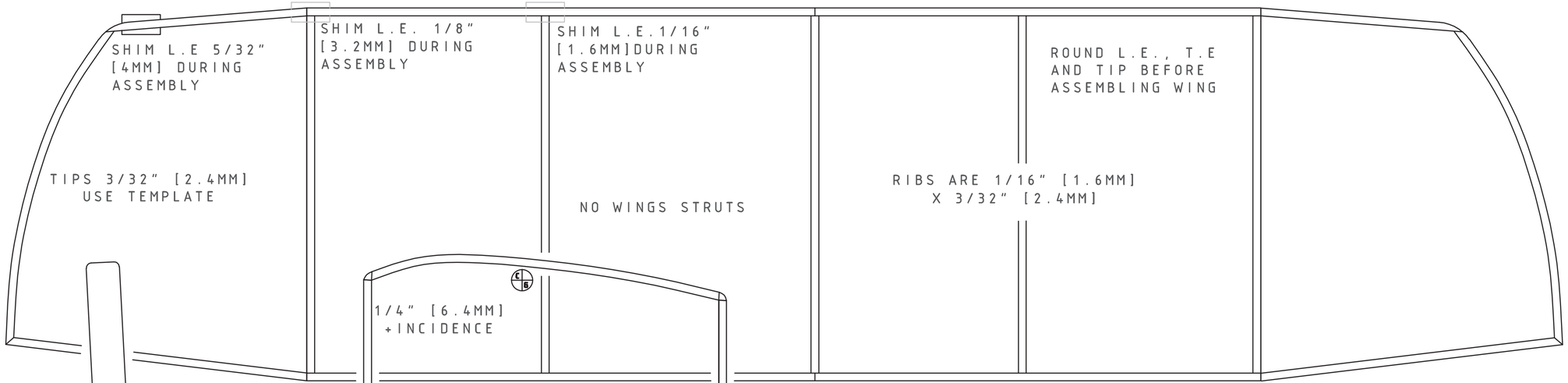




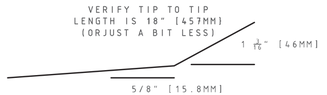


Uprights from 1/32" ply, can be replaced with 3/32" sq wing posts and tissue tubes on wing

FLAT TOP, P-18 by Joshua Finn
December 2022, J&H Aerospace











PROTOTYPE
CONSISTENTLY DID 2:00
ON 27" [685MM] LOOP
OF.085 [2MM} TAN SS

P-18 Rules:

Page IND-10

27. P-18 event 227

27.1 Except for specific rules that apply to this event, the rules for free flight rubber hand lauch stick shall apply.

27.2 The model shall be a rubber powered monoplane covered with either tissue or HDPE plastic shopping bag material.

27.3 The wing shall not exceed 4.5 inch chord and projected span of 18 inches. Horizontal stabilizer shall not exceed maximum span of 9 inches with a maximum chord of 3.5 inches. Maximum Overall length, including the propellor shall not exceed 18 inches.

27.4 The propellor shll be an unmodified commercially available unit with a maximum diameter of 5.5 inches. Weight may be added to the blade for balancing.

27.5 The maximum hook to hook distance shall nt exceed 10 inches.

27.6 The minimum weight of the completed model, less rubber, shall be 7.5 grams.

WING AND RUDDER TIP TEMPLATE

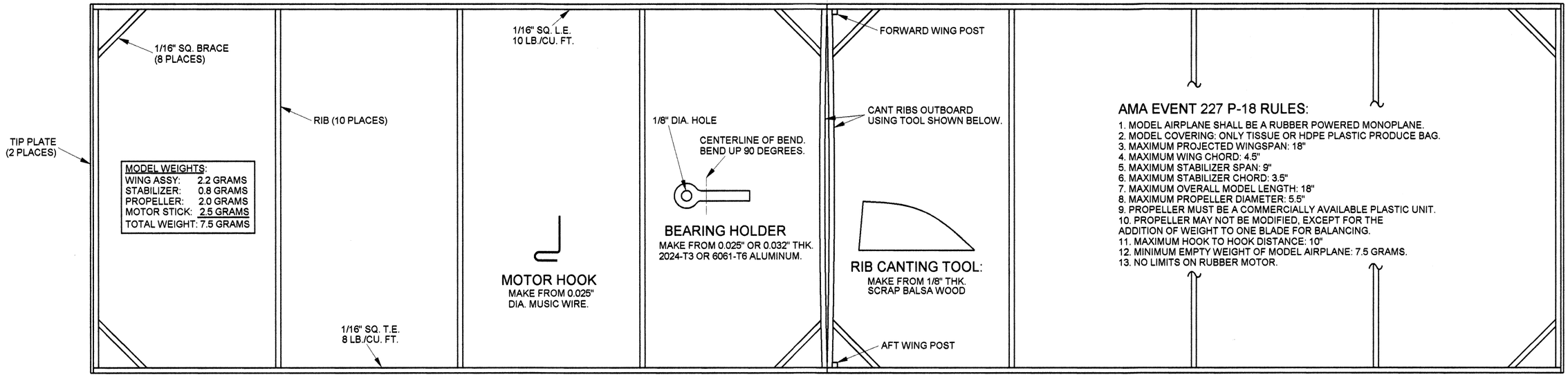
WING RIB TEMPLATE

STAB RIB TEMPLATE

P-18 CRUISER

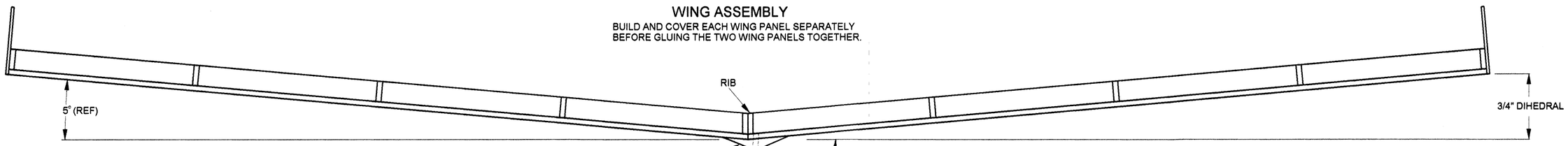
DESIGNED AND DRAWN BY BILL CARNEY

MEETS AMA PROVISIONAL RULES AS OF 03/23/2016



WING ASSEMBLY

BUILD AND COVER EACH WING PANEL SEPARATELY
BEFORE GLUING THE TWO WING PANELS TOGETHER.

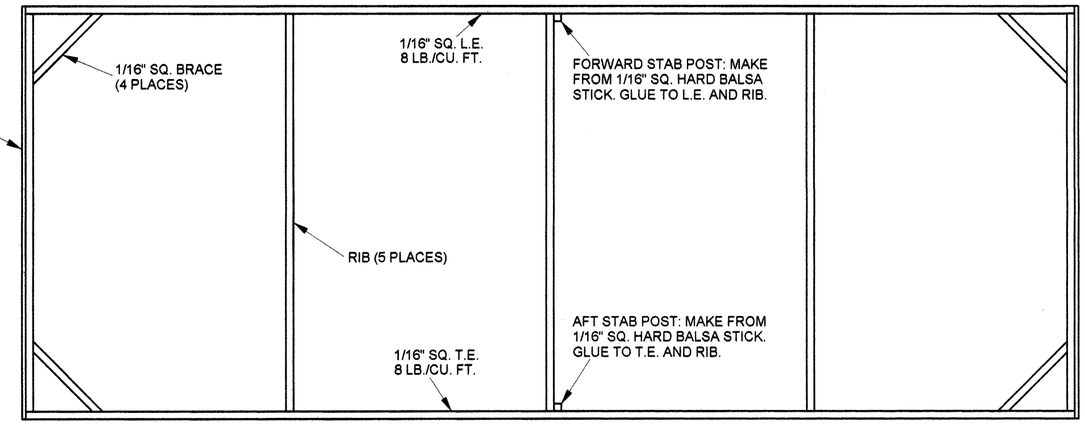


REAR VIEW OF WING ASSEMBLY

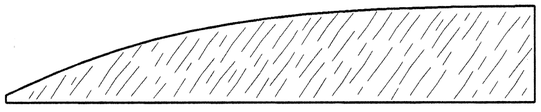
AFT WING POST OFFSET FOR LEFT WING WASH-IN

RIB TEMPLATE:

MAKE FROM 1/16" THICK PLYWOOD OR
1/32" THICK ALUMINUM SHEET METAL.
MAKE RIBS FROM 1/16" THK. LIGHT "C" GRAIN BALSA

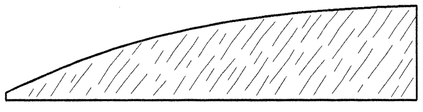


STABILIZER ASSEMBLY



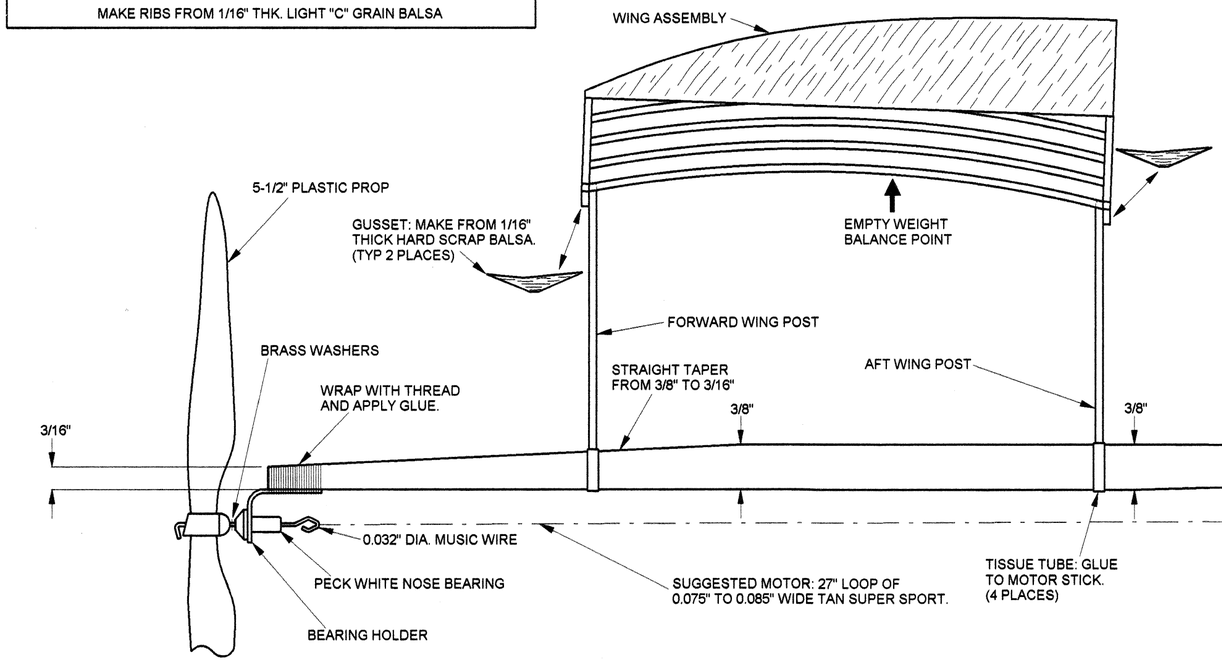
WING TIP PLATE

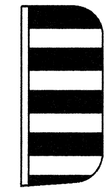
MAKE 2 FROM 1/32" THK. SOFT BALSA



STAB TIP PLATE

MAKE 2 FROM 1/32" THK. SOFT BALSA





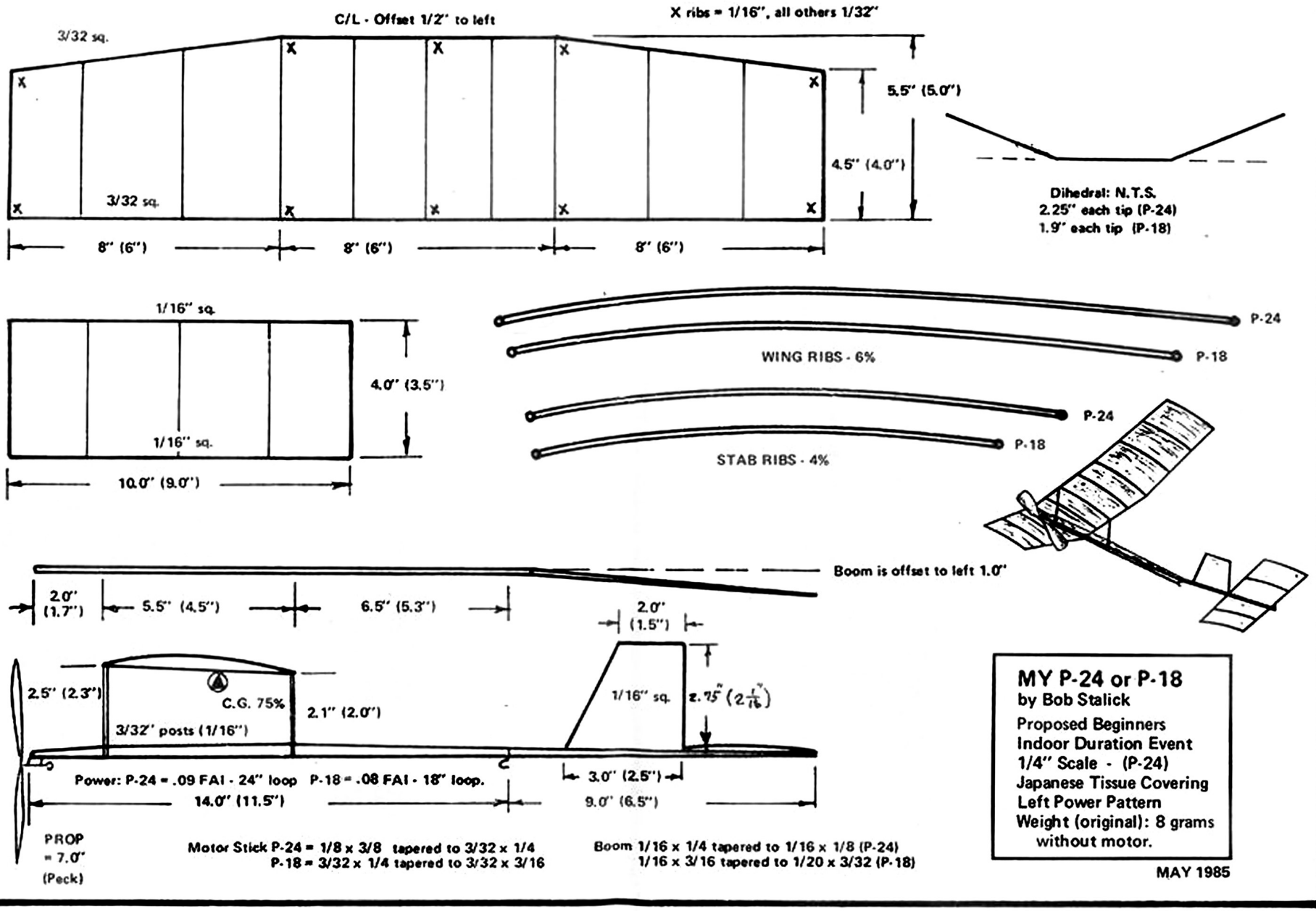
TRIM TAB
CUT FROM PLAN

P-18 PURSUIT

COMPLIES WITH AMA EVENT 227

WINGSPAN: 17.93" WING CHORD: 4.47"
STAB SPAN: 8.93" STAB CHORD: 3.47"
OVERALL LENGTH: 17.81" PROP. DIA.: 5.5"
MINIMUM EMPTY WEIGHT: 7.5 GRAMS

DESIGN/DRAWN: D. R. HIGGINS, 10-29-2018



MY P-24 or P-18

by Bob Stalick

Proposed Beginners
Indoor Duration Event
1/4" Scale - (P-24)
Japanese Tissue Covering
Left Power Pattern
Weight (original): 8 grams
without motor.

MAY 1985