

WING PLAN

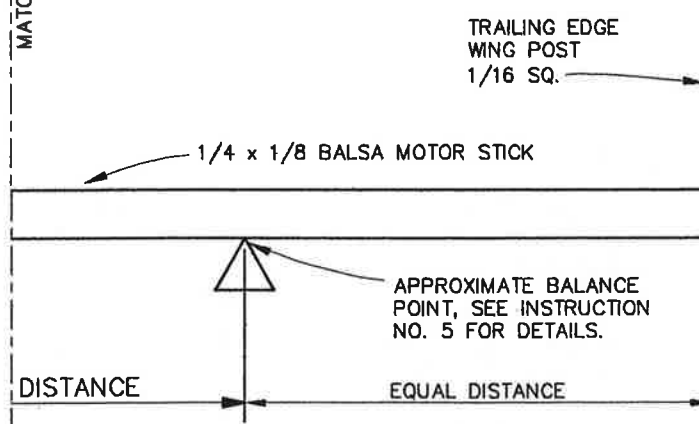
NOTE: PERFORMANCE MAY BE ENHANCED BY TAPERING THE MOTOR STICK (AS SHOWN BY DASHED LINES) AT THE FRONT AND REAR TO MAKE IT LIGHTER. ATTACH THE TAIL BOOM AT A LOWER POSITION TO MATCH THE MOTOR STICK. ALSO A LIGHTER COVERING MATERIAL IS AVAILABLE (.00025 MYLAR IS INCLUDED), BUT .000059 MYLAR IS AVAILABLE FROM OTHER SOURCES SUCH AS INDOOR MODEL SUPPLY, BOX 5311, SALEM, OREGON 97304.

MATCH LINE FOR PLANS

PROPELLER SPAR 3/32 SQ., (SLIGHTLY ROUND THE END THAT EXTENDS INTO HUB FOR TIGHT FIT) GLUE SQUARE PORTION INTO BLADE AND SAND OFF EDGES.

NOTE: DO NOT GLUE PROPELLER SPAR INTO HUB. FRICTION FIT IS SUFFICIENT AND ALLOWS THE BLADES TO BE ADJUSTED FOR PROPER PITCH.

NOTE: BLADE MAY BE FORMED OVER A 4" DIAMETER CAN FOR HIGHER EFFICIENCY AS SHOWN IN "FORMED BLADE DETAIL".



FUSELAGE SIDE VIEW

LEADING EDGE OF BLADE

PROPELLER BLADE

HORIZONTAL TAIL

3/16 x 3/32 Balsa TAIL BOOM TAPER TO 3/32 SQ. AT TIP

CONSTRUCT FIN FROM 1/20 SQ. STOCK, GLUE DIRECTLY TO TAIL BOOM

COVER FIN ON SIDE NEXT TO PLAN ONLY

FIN

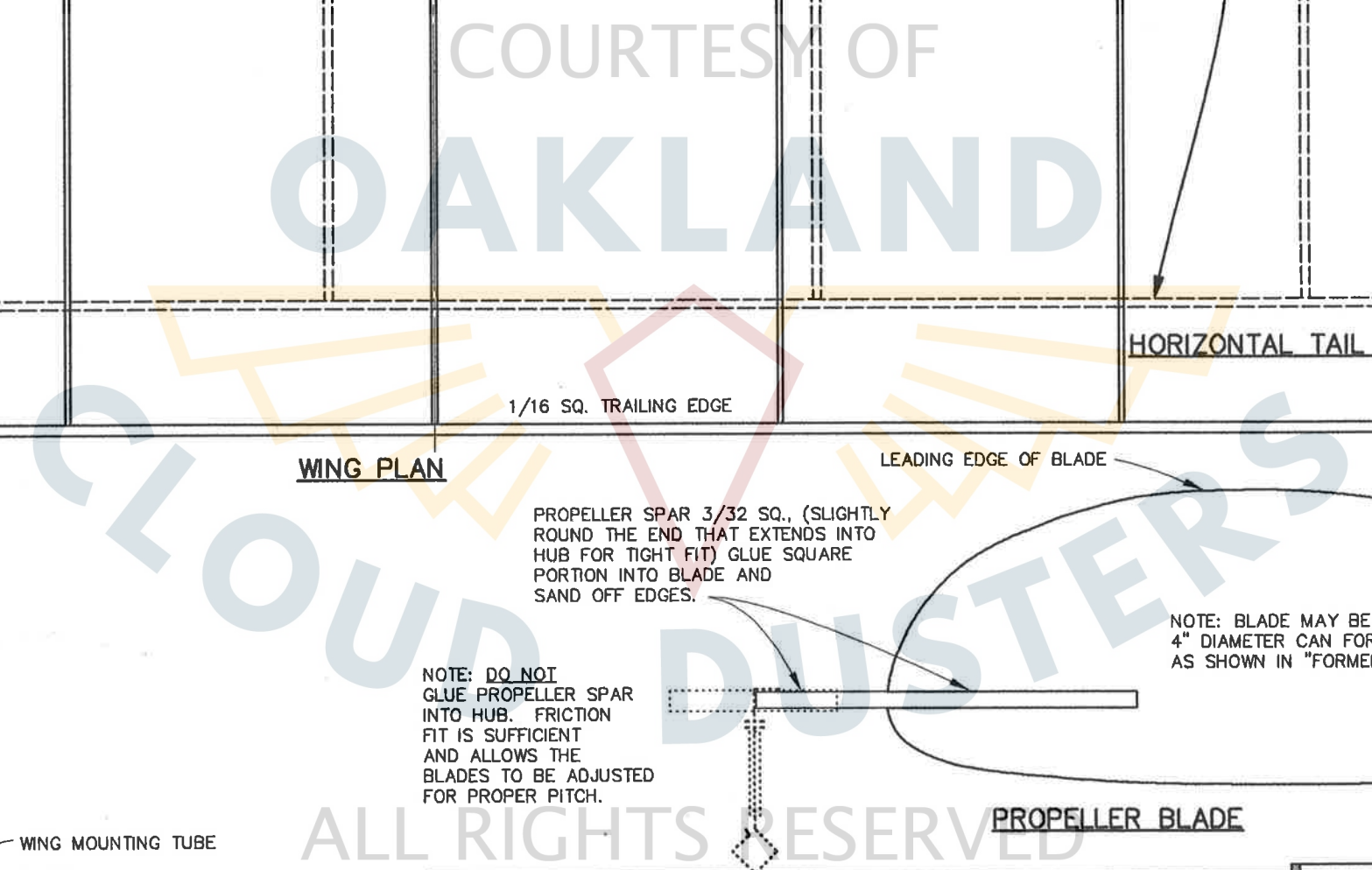
COVERING MATERIAL IS MYLAR PLASTIC SHEET WHICH CAN BE ATTACHED TO THE FRAME WITH 3M-77 OR THINNED OUT RUBBER CEMENT. COVER ONE SIDE ONLY. PLEASE READ INSTRUCTIONS ON SHEET 2 AND FOLLOW THE STEPS OUTLINED THERE. THEY WILL HELP YOU HAVE MANY HOURS OF FABULOUS FLIGHTS. HAPPY FLYING.

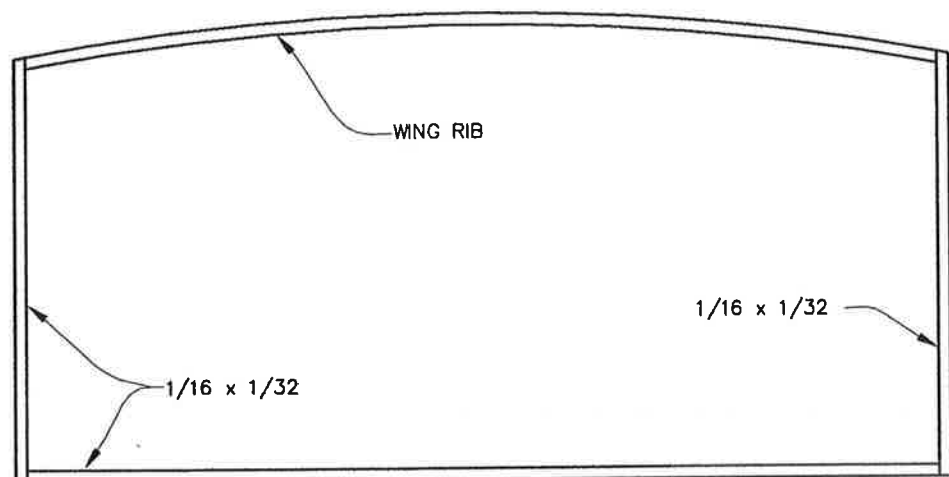
**MOFFETT NO.2
AMA LIMITED PENNYPLANE**

DESIGNED BY GEORGE XENAKIS
REDRAWN AND KITTED BY

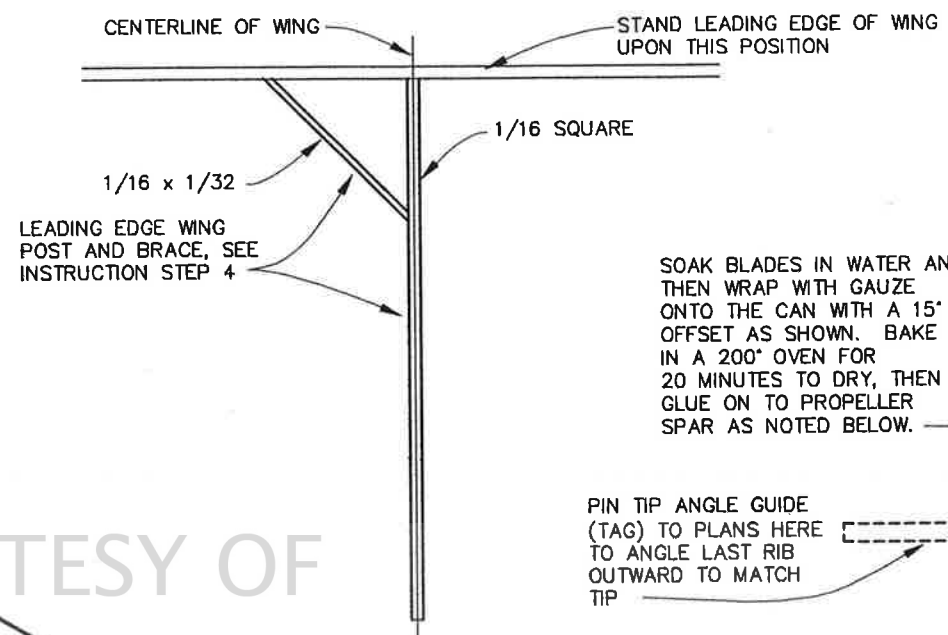
KMODELS K-305

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SHEET 1 OF 2 SHEETS

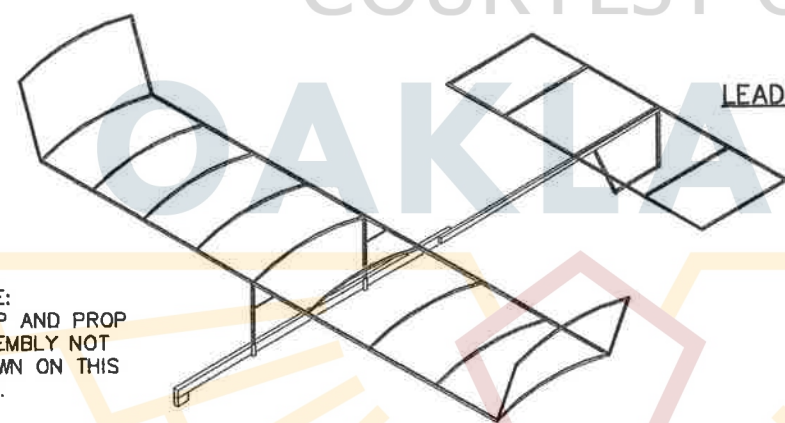




WING TIP PLAN (MAKE TWO)



LEADING EDGE WING POST PLAN

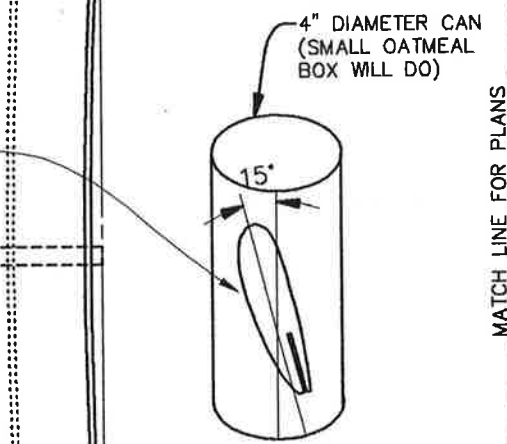


NOTE:
PROP AND PROP
ASSEMBLY NOT
SHOWN ON THIS
VIEW.

SOAK BLADES IN WATER AND THEN WRAP WITH GAUZE ONTO THE CAN WITH A 15° OFFSET AS SHOWN. BAKE IN A 200° OVEN FOR 20 MINUTES TO DRY, THEN GLUE ON TO PROPELLER SPAR AS NOTED BELOW.

PIN TIP ANGLE GUIDE (TAG) TO PLANS HERE TO ANGLE LAST RIB OUTWARD TO MATCH TIP

SET PROPELLER BLADES AT A 45° ANGLE TO START. THEN ADJUST FOR MAXIMUM EFFICIENCY

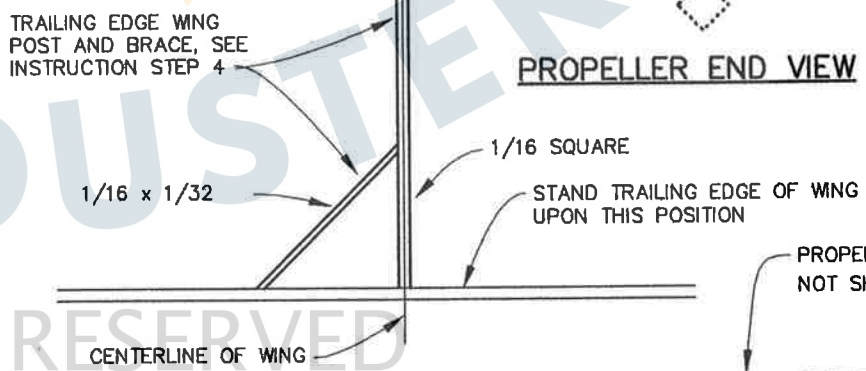


FORMED BLADE DETAIL

MATCH LINE FOR PLANS
CUT SHEET 2 ON THIS LINE AND TAPE TO SHEET 1
MATCHING WING AND MOTOR STICK LINES

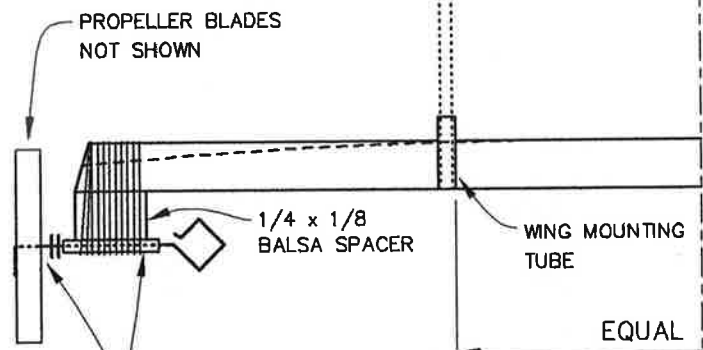
INSTRUCTIONS:

1. SELECT THE 3/16x3/32 TAPERED Balsa TAIL BOOM, PIN TO PLANS AND BUILD THE VERTICAL TAIL DIRECTLY ONTO IT. WHEN DRY, REMOVE FROM PLANS AND COVER ON ONE SIDE ONLY, (THE RIGHT HAND SIDE).
2. CONSTRUCT THE HORIZONTAL TAIL FROM 1/20 SQ. STOCK. WHEN DRY, REMOVE FROM PLANS AND COVER THE TOP SURFACE ONLY, THEN GLUE TAIL TO THE TAIL BOOM (CENTERED ON THE BOOM).
3. CUT 1/8x1/4 Balsa MOTOR STICK AND SPACER BLOCK TO CORRECT LENGTH, TACK GLUE THE PROP ASSEMBLY ALUMINUM TUBE TO THE SPACER BLOCK, (ANGLE THE TUBE FOR A SLIGHT TURN TO THE LEFT) THEN BIND AND GLUE THE PROP ASSEMBLY AND SPACER TO THE MOTOR STICK. GLUE THE REAR HOOK IN PLACE, GLUE THE TAIL BOOM COMPLETE WITH TAIL ONTO THE MOTOR STICK WHERE INDICATED ON THE FUSELAGE SIDE VIEW. BE SURE THE TOP OF THE TAIL BOOM IS PARALLEL WITH THE TOP OF THE MOTOR STICK.
4. CONSTRUCT WING IN ONE PIECE FROM 1/16 SQ. Balsa LEADING AND TRAILING EDGES AND 1/32 SHEET Balsa RIBS, USING THE TIP ANGLE GAUGE (TAG) TO SLANT THE OUTER RIBS. BUILD TWO WING TIPS. COVER THE TOP SURFACE ONLY OF THE WING AND THE OUTER SURFACE OF THE TIPS. WITH WING CENTER SECTION PINNED IN PLACE TO THE PLANS, BLOCK UP THE TIPS WITH THE TIP ANGLE GAUGES, GLUE THE TIPS IN PLACE AND TACK GLUE THE TIP COVERING MATERIAL TO THE OUTER RIB. WHEN GLUE IS DRY, REMOVE FROM PLAN AND STAND ON ITS LEADING EDGE ON THE LEADING EDGE WING POST PLAN. CUT LEADING EDGE WING POST TO LENGTH AS SHOWN AND GLUE TO LEADING EDGE ON THE CENTERLINE OF THE WING. (NOTE THAT THE LEADING AND TRAILING POSTS ARE DIFFERENT LENGTHS), THEN CUT AND FIT THE ANGLED BRACE. THE TRAILING EDGE POST IS DONE IN THE SAME MANNER ON THE TRAILING EDGE WING POST PLAN.
5. ASSEMBLE PROP ONTO HUB, TIE THE ENDS OF THE RUBBER MOTOR IN A SQUARE KNOT, (MAKE LOOP AS LONG AS POSSIBLE) HOOK MOTOR TO PROP SHAFT AND REAR MOTOR HOOK, (KNOT IN BACK) AND LET IT HANG DOWN BETWEEN THEM. BALANCE THE MOTOR STICK, COMPLETE WITH TAIL, PROP AND MOTOR, ON YOUR FINGER AND MARK THE BALANCE POINT ON THE SIDE OF THE FUSELAGE. THIS POINT IS THE CENTER OF THE WING ASSEMBLY. CAREFULLY MEASURE EQUAL DISTANCES ON EACH SIDE OF THIS MARK TO LOCATE THE WING MOUNTING TUBES, THEN GLUE THEM TO THE MOTOR STICK. PRESS THE WING POSTS INTO THE WING POST TUBES. DO NOT GLUE THEM IN PLACE, FRICTION IS ENOUGH TO HOLD WING ON. SET BOTH WING POSTS ALL THE WAY TO THE BOTTOM OF THE TUBES TO START, THEY CAN BE ADJUSTED LATER FOR INCIDENCE ANGLE.



TRAILING EDGE WING POST PLAN

PROPELLER END VIEW



PROP HUB AND SHAFT ASSEMBLY BIND AND GLUE ALUMINUM TUBE TO MOTOR STICK AS SHOWN. ANGLE TUBE TO OFFSET THRUST LINE TO THE LEFT SLIGHTLY.

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DESIGNED BY GEORGE XENAKIS
REDRAWN AND KITTED BY

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SHEET 2 OF 2 SHEETS

COURTESY OF

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DUSTERS

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