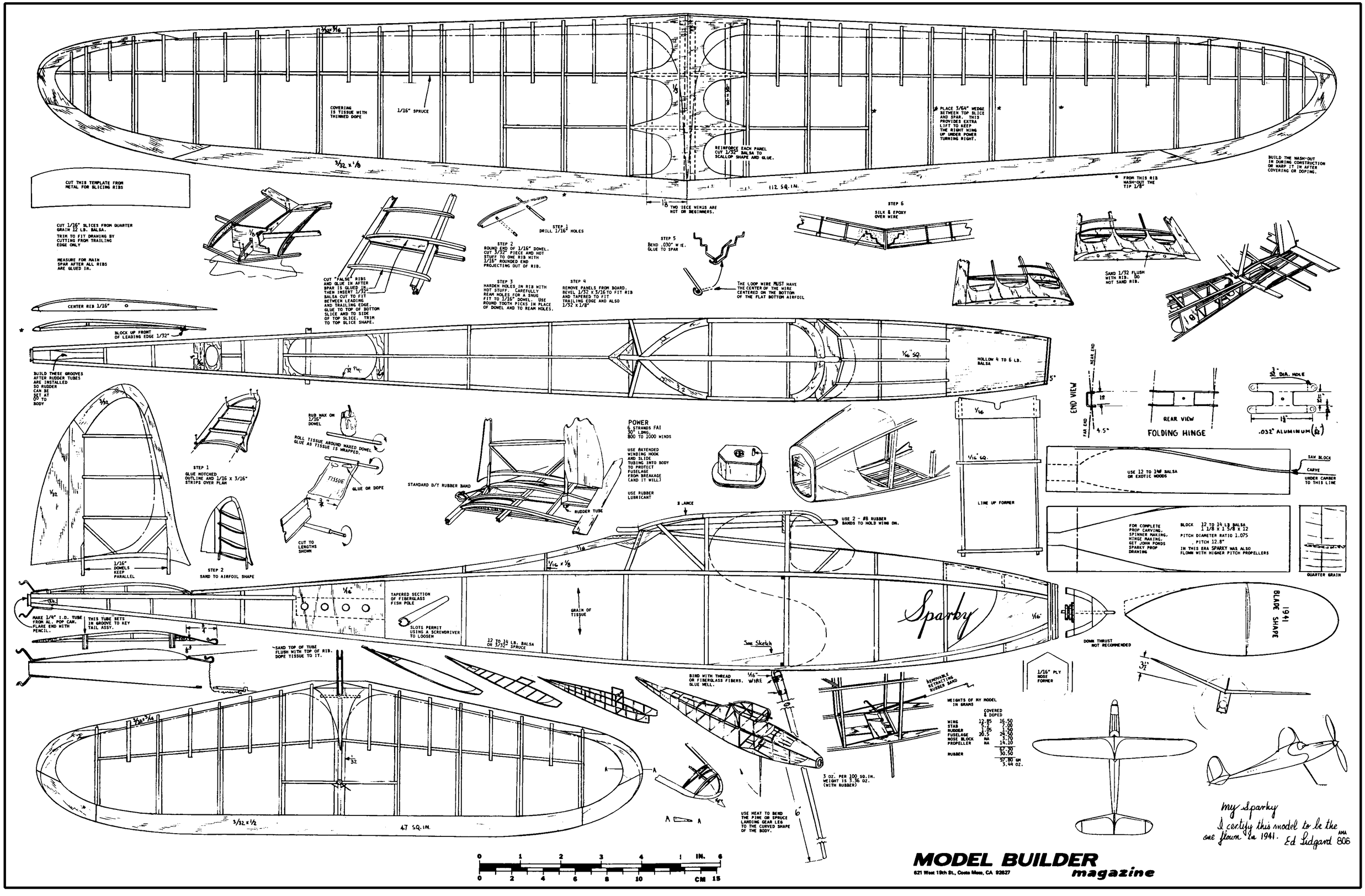
COVERING IS TISSUE WITH THINNED DOPE
1/16" SPRUCE
3/32 x 1/8
REINFORCE EACH PANEL CUT 1/32" BALSA TO SCALLOP SHAPE AND GLUE.
PLACE 3/64" WEDGE BETWEEN TOP SLICE AND SPAR. THIS PROVIDES EXTRA LIFT TO KEEP THE RIGHT WING UP UNDER POWER TURNING RIGHT.
BUILD THE WASH-OUT IN DURING CONSTRUCTION OR WARP IT IN AFTER COVERING OR DOPING.
FROM THIS RIB WASH-OUT THE TIP 1/8"
112 SQ.IN.
TWO PIECE WINGS ARE NOT FOR BEGINNERS.
CUT THIS TEMPLATE FROM METAL FOR SLICING RIBS
CUT 1/16" SLICES FROM QUARTER GRAIN 12 LB. BALSA.
TRIM TO FIT DRAWING BY CUTTING FROM TRAILING EDGE ONLY
MEASURE FOR MAIN SPAR AFTER ALL RIBS ARE GLUED IN.
CUT "FALSE" RIBS AND GLUE IN AFTER SPAR IS GLUED IN. THEN INSERT 1/32" BALSA CUT TO FIT BETWEEN LEADING AND TRAILING EDGE. GLUE TO TOP OF BOTTOM SLICE AND TO SIDE OF TOP SLICE. TRIM TO TOP SLICE SHAPE.
STEP 1 DRILL 1/16" HOLES
STEP 2 ROUND END OF 1/16" DOWEL. CUT 3/32" PIECE AND HOT STUFF TO ONE RIB WITH 1/16" ROUNDED END PROJECTING OUT OF RIB.
STEP 3 HARDEN HOLES IN RIB WITH HOT STUFF. CAREFULLY REAM HOLES FOR A SNUG FIT TO 1/16" DOWEL. USE ROUND TOOTH PICKS IN PLACE OF DOWEL AND TO REAM HOLES.
STEP 4 REMOVE PANELS FROM BOARD. BEVEL 1/32 x 3/16 TO FIT RIB AND TAPERED TO FIT TRAILING EDGE AND ALSO 1/32 x 1/8"
STEP 5 BEND .030" WIRE. GLUE TO SPAR
THE LOOP WIRE MUST HAVE THE CENTER OF THE WIRE CENTERED ON THE BOTTOM OF THE FLAT BOTTOM AIRFOIL
STEP 6 SILK & EPOXY OVER WIRE
SAND 1/32 FLUSH WITH RIB. DO NOT SAND RIB.
CENTER RIB 1/16"
BLOCK UP FRONT OF LEADING EDGE 1/32"
BUILD THESE GROOVES AFTER RUDDER TUBES ARE INSTALLED SO RUDDER CAN BE SET AT 90° TO BODY
1/16 SQ.
HOLLOW 4 TO 6 LB. BALSA
STEP 1 GLUE NOTCHED OUTLINE AND 1/16 x 3/16" STRIPS OVER PLAN
1/16" DOWELS KEEP PARALLEL
STEP 2 SAND TO AIRFOIL SHAPE
RUB WAX ON 1/16" DOWEL
ROLL TISSUE AROUND WAXED DOWEL GLUE AS TISSUE IS WRAPPED.
TISSUE
GLUE OR DOPE
CUT TO LENGTHS SHOWN
STANDARD D/T RUBBER BAND
RUBBER TUBE
POWER
6 STRANDS FAI
30" LONG.
800 TO 1000 WINDS
USE EXTENDED WINDING HOOK AND SLIDE TUBING INTO BODY TO PROTECT FUSELAGE FROM BREAKAGE (AND IT WILL)
USE RUBBER LUBRICANT
USE 2 - #8 RUBBER BANDS TO HOLD WING ON.
LINE UP FORMER
END VIEW
NEAR END
FAR END
REAR VIEW
FOLDING HINGE
3/32" DIA. HOLE
.032" ALUMINUM
USE 12 TO 14# BALSA OR EXOTIC WOODS
SAW BLOCK
CARVE UNDER CAMBER TO THIS LINE
FOR COMPLETE PROP CARVING, SPINNER MAKING, HINGE MAKING, GET JOHN POROS SPARKY PROP DRAWING
BLOCK 12 TO 14 LB BALSA 1 1/8 x 1 5/8 x 12
PITCH DIAMETER RATIO 1.075
PITCH 12.8"
IN THIS ERA SPARKY WAS ALSO FLOWN WITH HIGHER PITCH PROPELLERS
QUARTER GRAIN
1/16 x 1/8
MAKE 1/4" I.D. TUBE FROM AL. POP CAN. FLARE END WITH PENCIL.
THIS TUBE SETS IN GROOVE TO KEY TAIL ASSY.
TAPERED SECTION OF FIBERGLASS FISH POLE
SLOTS PERMIT USING A SCREWDRIVER TO LOOSEN
GRAIN OF TISSUE
12 TO 14 LB. BALSA OR 3/32" SPRUCE
Sparky
See Sketch
1941 BLAKE
DOWN THRUST NOT RECOMMENDED
SAND TOP OF TUBE FLUSH WITH TOP OF RIB. DOPE TISSUE TO IT.
BIND WITH THREAD OR FIBERGLASS FIBERS. GLUE WELL.
1/16" WIRE
REMOVABLE RETRACTING RUBBER BAND
1/16" PLY NOSE FORMER
WEIGHTS OF MY MODEL IN GRAMS
COVERED & DOPED
WING 12.85 16.50
STAB 5.2 7.00
RUDDER 1.05 1.50
FUSELAGE 20.5 29.50
NOSE BLOCK NA 3.70
PROPELLER NA 14.10
67.30
RUBBER 30.50
97.80 GM
3.44 OZ.
3 OZ. PER 100 SQ.IN.
WEIGHT IS 3.36 OZ.
(WITH RUBBER)
USE HEAT TO BEND THE PINE OR SPRUCE LANDING GEAR LEG TO THE CURVED SHAPE OF THE BODY.
3/32 x 1/2
47 SQ.IN.
0 1 2 3 4 5 IN. 6
0 2 4 6 8 10 CM 15
my Sparky
I certify this model to be the one flown in 1941. Ed Lidgard AMA 806
MODEL BUILDER magazine
521 West 19th St., Costa Mesa, CA 92627