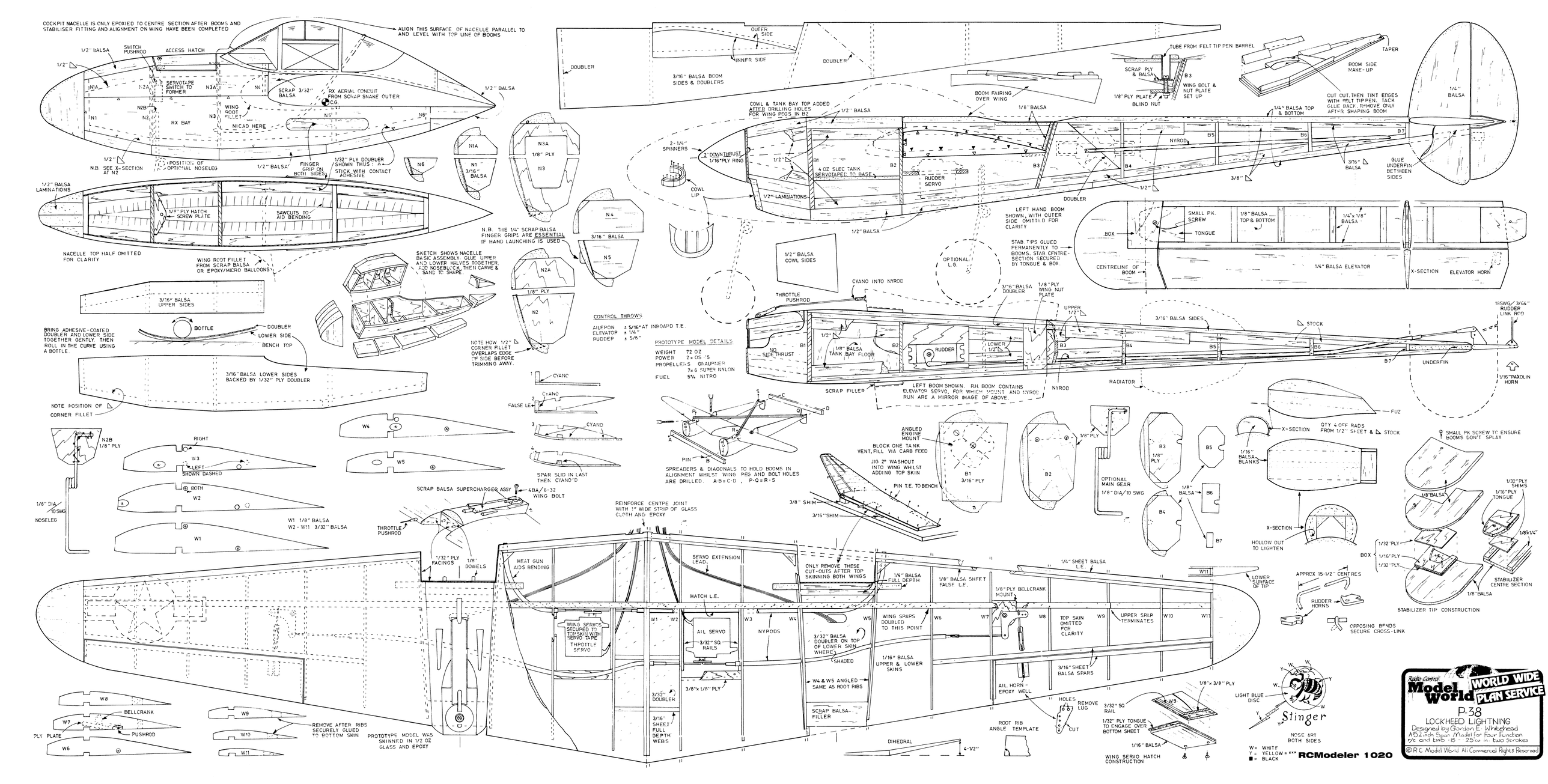
COCKPIT NACELLE IS ONLY EPOXIED TO CENTRE SECTION AFTER BOOMS AND STABILISER FITTING AND ALIGNMENT ON WING HAVE BEEN COMPLETED
ALIGN THIS SURFACE OF NACELLE PARALLEL TO AND LEVEL WITH TOP LINE OF BOOMS
1/2" BALSA
SWITCH PUSHROD
ACCESS HATCH
SERVOTAPE SWITCH TO FORMER
SCRAP 3/32" BALSA
RX AERIAL CONDUIT FROM SCRAP SNAKE OUTER
C.G.
WING ROOT FILLET
NICAD HERE
RX BAY
N.B. SEE X-SECTION AT N2
POSITION OF OPTIONAL NOSELEG
FINGER GRIP ON BOTH SIDES
1/32" PLY DOUBLER SHOWN THUS : STICK WITH CONTACT ADHESIVE
1/8" PLY HATCH SCREW PLATE
SAWCUTS TO AID BENDING
NACELLE TOP HALF OMITTED FOR CLARITY
WING ROOT FILLET FROM SCRAP BALSA OR EPOXY/MICRO BALLOONS
3/16" BALSA UPPER SIDES
BRING ADHESIVE-COATED DOUBLER AND LOWER SIDE TOGETHER GENTLY. THEN ROLL IN THE CURVE USING A BOTTLE
BOTTLE
DOUBLER
LOWER SIDE
BENCH TOP
3/16" BALSA LOWER SIDES BACKED BY 1/32" PLY DOUBLER
NOTE POSITION OF CORNER FILLET
SKETCH SHOWS NACELLE BASIC ASSEMBLY. GLUE UPPER AND LOWER HALVES TOGETHER, ADD NOSEBLOCK, THEN CARVE & SAND TO SHAPE
N.B. THE 1/4" SCRAP BALSA FINGER GRIPS ARE ESSENTIAL IF HAND LAUNCHING IS USED
NOTE HOW 1/2" CORNER FILLET OVERLAPS EDGE OF SIDE BEFORE TRIMMING AWAY.
CONTROL THROWS
AILERON : 5/16" AT INBOARD T.E.
ELEVATOR : 1/4"
RUDDER : 5/8"
PROTOTYPE MODEL DETAILS
WEIGHT 72 OZ
POWER 2 x OS .15
PROPELLERS GRAUPNER 7x6 SUPER NYLON
FUEL 5% NITRO
CYANO
FALSE LE
SPAR SLID IN LAST THEN CYANO'D
SPREADERS & DIAGONALS TO HOLD BOOMS IN ALIGNMENT WHILST WING PEG AND BOLT HOLES ARE DRILLED. A-B=C-D , P-Q=R-S
PIN
N2B 1/8" PLY
RIGHT
LEFT SHOWN DASHED
BOTH
1/8" DIA 10 SWG
NOSELEG
W1 1/8" BALSA
W2 - W11 3/32" BALSA
SCRAP BALSA SUPERCHARGER ASSY
4BA/6-32 WING BOLT
THROTTLE PUSHROD
REINFORCE CENTRE JOINT WITH 1" WIDE STRIP OF GLASS CLOTH AND EPOXY
1/32" PLY FACINGS
1/8" DOWELS
HEAT GUN AIDS BENDING
SERVO EXTENSION LEAD
ONLY REMOVE THESE CUT-OUTS AFTER TOP SKINNING BOTH WINGS
HATCH L.E.
WING SERVOS SECURED TO TOP SKIN WITH SERVO TAPE
THROTTLE SERVO
AIL SERVO
3/32" SQ RAILS
NYRODS
3/32" BALSA DOUBLER ON TOP OF LOWER SKIN WHERE SHADED
3/8" x 1/8" PLY
3/32" DOUBLER
3/16" SHEET FULL DEPTH WEBS
W4 & W5 ANGLED SAME AS ROOT RIBS
SCRAP BALSA FILLER
WING SPARS DOUBLED TO THIS POINT
1/16" BALSA UPPER & LOWER SKINS
1/4" BALSA FULL DEPTH
1/8" BALSA SHEET FALSE L.E.
1/8" PLY BELLCRANK MOUNT
TOP SKIN OMITTED FOR CLARITY
UPPER SPAR TERMINATES
3/16" SHEET BALSA SPARS
AIL HORN - EPOXY WELL
ROOT RIB ANGLE TEMPLATE
HOLES
REMOVE LUG
CUT
DIHEDRAL
4-1/2"
1/4" SHEET BALSA L.E.
LOWER SURFACE OF TIP
W8
W7
W6
BELLCRANK
PUSHROD
PLY PLATE
W9
W10
W11
REMOVE AFTER RIBS SECURELY GLUED TO BOTTOM SKIN
PROTOTYPE MODEL WAS SKINNED IN 1/2 OZ GLASS AND EPOXY
OUTER SIDE
INNER SIDE
DOUBLER
3/16" BALSA BOOM SIDES & DOUBLERS
COWL & TANK BAY TOP ADDED AFTER DRILLING HOLES FOR WING PEGS IN B2
2-1/4" SPINNERS
2 DOWNTHRUST 1/16" PLY RING
COWL LIP
4 OZ SLEC TANK SERVOTAPED TO BASE
1/2" LAMINATIONS
RUDDER SERVO
BOOM FAIRING OVER WING
1/8" BALSA
NYROD
LEFT HAND BOOM SHOWN, WITH OUTER SIDE OMITTED FOR CLARITY
1/2" BALSA COWL SIDES
OPTIONAL L.G.
CYANO INTO NYROD
THROTTLE PUSHROD
NO SIDE THRUST
1/8" BALSA TANK BAY FLOOR
RUDDER
SCRAP FILLER
3/16" BALSA DOUBLER
1/8" PLY WING NUT PLATE
UPPER 1/2"
LOWER 1/2"
LEFT BOOM SHOWN. RH BOOM CONTAINS ELEVATOR SERVO, FOR WHICH MOUNT AND NYROD RUN ARE A MIRROR IMAGE OF ABOVE.
3/16" BALSA SIDES
STOCK
RADIATOR
18SWG/3/64" RUDDER LINK ROD
UNDERFIN
1/16" PAXOLIN HORN
ANGLED ENGINE MOUNT
BLOCK ONE TANK VENT, FILL VIA CARB FEED
JIG 2° WASHOUT INTO WING WHILST ADDING TOP SKIN
PIN T.E. TO BENCH
3/8" SHIM
3/16" SHIM
3/16" PLY
OPTIONAL MAIN GEAR
1/8" DIA/10 SWG
1/8" BALSA
TUBE FROM FELT TIP PEN BARREL
SCRAP PLY & BALSA
1/8" PLY PLATE
BLIND NUT
WING BOLT & NUT PLATE SET UP
TAPER
BOOM SIDE MAKE-UP
CUT OUT, THEN TINT EDGES WITH FELT TIP PEN. TACK GLUE BACK. REMOVE ONLY AFTER SHAPING BOOM
1/4" BALSA
1/4" BALSA TOP & BOTTOM
3/16" BALSA
GLUE UNDERFIN BETWEEN SIDES
3/8"
SMALL PK. SCREW
TONGUE
BOX
1/8" BALSA TOP & BOTTOM
1/4" x 1/8" BALSA
CENTRELINE OF BOOM
1/4" BALSA ELEVATOR
X-SECTION
ELEVATOR HORN
FUZ
QTY 4 OFF RADS FROM 1/2" SHEET & STOCK
1/16" BALSA BLANKS
HOLLOW OUT TO LIGHTEN
SMALL PK SCREW TO ENSURE BOOMS DON'T SPLAY
1/32" PLY SHIMS
1/16" PLY TONGUE
1/8" BALSA
1/32" PLY
1/16" PLY
STABILIZER CENTRE SECTION
STABILIZER TIP CONSTRUCTION
APPROX 15-1/2" CENTRES
RUDDER HORNS
OPPOSING BENDS SECURE CROSS-LINK
1/8" x 3/8" PLY
3/32" SQ RAIL
1/32" PLY TONGUE TO ENGAGE OVER BOTTOM SHEET
1/16" BALSA
WING SERVO HATCH CONSTRUCTION
LIGHT BLUE DISC
Stinger
NOSE ART BOTH SIDES
W = WHITE
Y = YELLOW = ***
■ = BLACK
RCModeler 1020
Radio Control Model World
WORLD WIDE PLAN SERVICE
P.38
LOCKHEED LIGHTNING
Designed by Gordon E. Whitehead
A 52 inch Span Model for Four Function r/c and two - 15 - 25 cu. in. two strokes
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