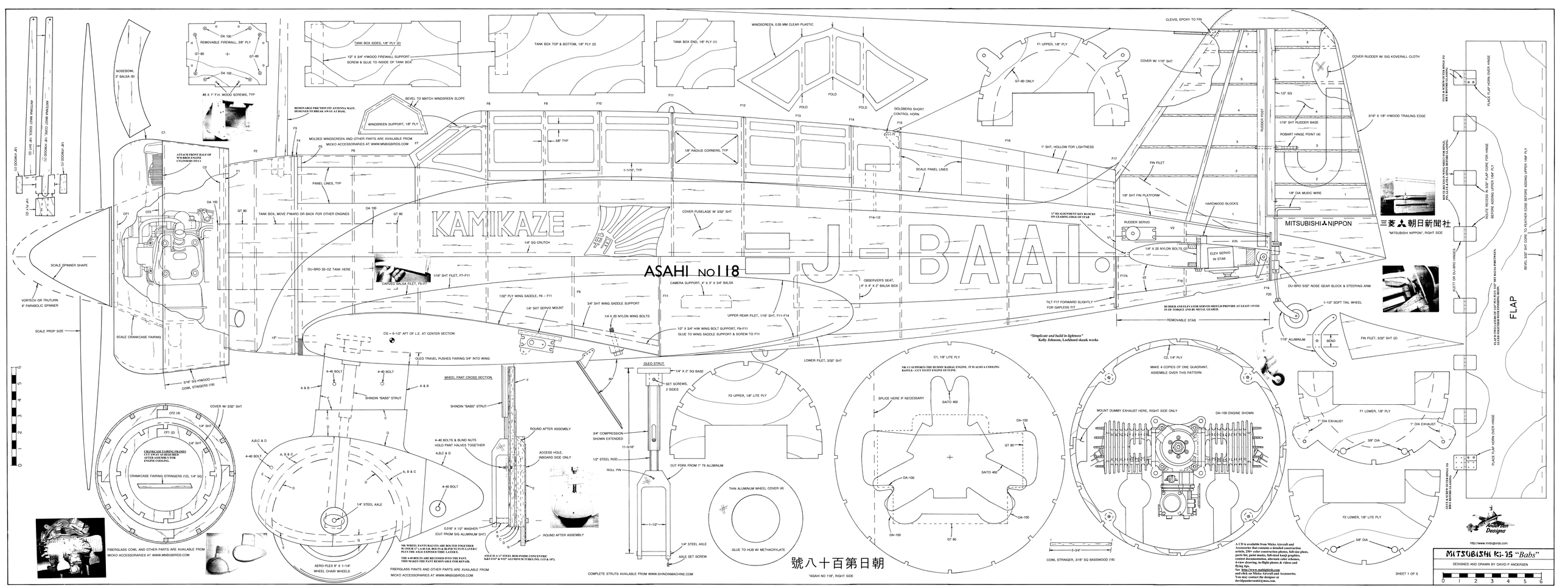
KAMIKAZE
J-BAI
ASAHI NO118
MITSUBISHI NIPPON
三菱 朝日新聞社
"MITSUBISHI NIPPON", RIGHT SIDE
"ASAHI NO 118", RIGHT SIDE
號八十百第日朝
"Simplicate and build in lightness"
Kelly Johnson, Lockheed skunk works
REMOVABLE FIREWALL, 3/8" PLY
TANK BOX SIDES, 1/8" PLY (2)
TANK BOX TOP & BOTTOM, 1/8" PLY (2)
TANK BOX END, 1/8" PLY (1)
WINDSCREEN, 0.05 MM CLEAR PLASTIC
F1 UPPER, 1/8" PLY
GT-80 ONLY
COVER W/ 1/16" SHT
CLEVIS, EPOXY TO FIN
COVER RUDDER W/ SIG KOVERALL CLOTH
3/16" X 1/8" HWOOD TRAILING EDGE
1/16" SHT RUDDER BASE
ROBART HINGE POINT (4)
1/8" DIA MUSIC WIRE
RUDDER POST
1/2" SQ
NOSEBOWL 3" BALSA (8)
#8 X 1" F.H. WOOD SCREWS, TYP
ANTENNA MAST CORE, 1/8" HWOOD (1)
ANTENNA MAST SIDES, 1/8" SHT (2)
1/8" HWOOD (1)
1/4" PLY (2)
REMOVABLE FRICTION FIT ANTENNA MAST. DESIGNED TO BREAK AWAY AT BASE.
BEVEL TO MATCH WINDSREEN SLOPE
WINDSREEN SUPPORT, 1/8" PLY
MOLDED WINDSCREEN AND OTHER PARTS ARE AVAILABLE FROM MICKO ACCESSORIES AT WWW.MNBIGBIRDS.COM
ATTACH FRONT HALF OF CRANKCASE AT CYLINDER EXACT
PANEL LINES, TYP
3/8" TYP
1/8" RADIUS CORNERS, TYP
1-1/16", TYP
SCALE PANEL LINES
1" SHT, HOLLOW FOR LIGHTNESS
GOLDBERG SHORT CONTROL HORN
FOLD
FIN FILET
1/8" SHT FIN PLATORM
HARDWOOD BLOCKS
1/2" NO ALIGNMENT KEY BLOCKS ON LEADING EDGE OF STAB
RUDDER SERVO
1/4" X 20 NYLON BOLTS (2)
ELEV SERVO IN STAB
P/R
V3
V1
V2
TC2
F17A
F18
F19
F20
DU-BRO 5/32" NOSE GEAR BLOCK & STEERING ARM
1-1/2" SOFT TAIL WHEEL
1/16" ALUMINUM
BEND
FIN FILET, 3/32" SHT (2)
RUDDER AND ELEVATOR SERVOS SHOULD PROVIDE AT LEAST 115 OZ-IN OF TORQUE AND BE METAL GEARED.
REMOVABLE STAB
TILT F17 FORWARD SLIGHTLY FOR GAPLESS FIT
COVER FUSELAGE W/ 3/32" SHT
1/4" SQ CRUTCH
TANK BOX, MOVE FWARD OR BACK FOR OTHER ENGINES
DU-BRO 32-OZ TANK HERE
CARVED BALSA FILET, F5-F7
1/16" SHT FILET, F7-F11
1/32" PLY WING SADDLE, F6 – F11
1/4" SHT SERVO MOUNT
3/4" SHT WING SADDLE SUPPORT
1/4 X 20 NYLON WING BOLTS
1/2" X 3/4" HW WING BOLT SUPPORT, F9-F11
GLUE TO WING SADDLE SUPPORT & SCREW TO F11
CAMERA SUPPORT, 4" X 3" X 3/4" BALSA
OBSERVER'S SEAT, 4" X 4" X 2" BALSA BOX
UPPER REAR FILET, 1/16" SHT, F11-F14
LOWER FILET, 3/32" SHT
CG = 5-1/2" AFT OF L.E. AT CENTER SECTION
OLEO TRAVEL PUSHES FAIRING 3/4" INTO WING
SCALE SPINNER SHAPE
VORTEX OR TRUTURN 6" PARABOLIC SPINNER
SCALE PROP SIZE
SCALE CRANKCASE FAIRING
3/16" SQ HWOOD COWL STINGERS (16)
COVER W/ 3/32" SHT
CF2 (4)
CF1 (2)
1/4" SHT
CRANKCASE FAIRING FRAMES CUT AWAY AS NEEDED AFTER ASSEMBLY FOR ENGINE COOLING.
CRANKCASE FAIRING STRINGERS (12), 1/4" SQ
FIBERGLASS COWL AND OTHER PARTS ARE AVAILABLE FROM MICKO ACCESSORIES AT WWW.MNBIGBIRDS.COM
AERO-FLEX 8" X 1-1/4" WHEEL CHAIR WHEELS
WHEEL PANT CROSS SECTION
4-40 BOLT
A & B
SHINDN "BABS" STRUT
A,B,C & D
A, B & C
1/4" STEEL AXLE
4-40 BOLTS & BLIND NUTS HOLD PANT HALVES TOGETHER
ROUND AFTER ASSEMBLY
ACCESS HOLE, INBOARD SIDE ONLY
0.016" X 1/2" WASHER (CUT FROM SIG ALUMINUM SHT)
NB: WHEEL PANTS MAYAS ARE BOLTED TOGETHER W/ FOUR 3/4" x 4-40 S.H. BOLTS & BLIND NUTS IN LAYER C PLUS THE AXLE EXPOSED THRU LAYER E.
THE 4-40 BOLTS ARE RECESSED INTO THE PANT. THIS MAKES THE PANT REMOVABLE FOR REPAIR.
AXLE IS A 1/4" STEEL ROD INSIDE CONCENTRIC 5/8 X 5/16" & 5/32" ALUMINUM TUBE(S) (1/2 & 1/8").
FIBERGLASS PANTS AND OTHER PARTS ARE AVAILABLE FROM MICKO ACCESSORARIES AT WWW.MNBIGBIRDS.COM
OLEO STRUT
1/4" X 2" SQ BASE
SET SCREWS, 2 SIDES
3/4" COMPRESSION SHOWN EXTENDED
11-5/16"
1/2" STEEL ROD
ROLL PIN
CUT FORK FROM 1" T6 ALUMINUM
1-1/2"
1/4" STEEL AXLE
AXLE SET SCREW
COMPLETE STRUTS AVAILABLE FROM WWW.SHINDINMACHINE.COM
F2 UPPER, 1/8" LITE PLY
THIN ALUMINUM WHEEL COVER (4)
GLUE TO HUB W/ METHACRYLATE
C1, 1/8" LITE PLY
NB: C1 SUPPORTS THE DUMMY RADIAL ENGINE. IT IS ALSO A COOLING BAFFLE – CUT TO FIT ENGINE OUTLINE.
SPLICE HERE IF NECESSARY
SAITO 450
DA-100
GT 80
C2, 1/4" PLY
MAKE 4 COPIES OF ONE QUADRANT. ASSEMBLE OVER THIS PATTERN
MOUNT DUMMY EXHAUST HERE, RIGHT SIDE ONLY
DA-100 ENGINE SHOWN
COWL STINGER, 3/16" SQ BASSWOOD (16)
F1 LOWER, 1/8" PLY
1" DIA EXHAUST
3/8" DIA
F2 LOWER, 1/8" LITE PLY
A CD is available from Micko Aircraft and Accessories that contains a detailed construction article, 250+ color construction photos, full-size plans, parts list, paint masks, full-sized kanji graphics, output documentation, alternate color schemes, cockpit drawing, in-flight photos & videos and flying video.
See http://www.mnbigbirds.com and click on Micko Aircraft and Accessories.
You may contact the designer at davidpandersen4@msn.com.
PLACE FLAP HORN OVER HINGE
CLEE & SCREW OUTER HINGE TO BIB BEFORE GLUEING
ROUTE RECESS IN 1/32" FLAP CORE FOR HINGE BEFORE ADDING UPPER 1/64" PLY
SLEET ON DU-BRO HINGES
ELEFA TWO LEAVES OF 1/64" PLY FILET 1/32" OFF BALSA FIRST THEN GLUE TO FIRST LAYER OF FLAP.
BEVEL SHP SHT CORE TO FEATHER EDGE BEFORE ADDING UPPER 1/64" PLY
FLAP
Anderson Designs
http://www.mnbigbirds.com
MITSUBISHI Ki-15 "Babs"
DESIGNED AND DRAWN BY DAVID P ANDERSEN
SHEET 1 OF 5

ADD 1/2" X 1-1/2" LE AFTER SHEETING BOTH SURFACES
RIBS A & B, 1/8" LITE PLY (4)
1/2" SQ HW BEARERS
3/4" TRIANGULAR STOCK REINFORCEMENT, TYP
RIB C, 1/8" LITE PLY (2)
RIB D, 1/8" LITE PLY (2)
RIB E, 1/8" PLY (2)
1/2" SQ HWOOD LG BEARERS SCREW & GLUE TO RIB
RIB F, 1/8" PLY (2)
3/32" X 1/2" X 5" OVER TOP SPAR FROM F TO D
1/8" PLY LE
3/8" WING DOWELS.
INSTALL AFTER MATING WING TO FUSELAGE.
BUT BEFORE SHEETING THE BOTTOM OF THE WING.
1/8" SHEER WEB, VERTICAL GRAIN
3/32" X 1/2" X 5" OVER TOP SPAR FROM F TO D
TOP VIEW OF LG MOUNT IS SHOWN HERE
1/2" X 3/8" HW SPAR
BOTTOM VIEW OF LG MOUNT IS SHOWN HERE
ATTACH PLATE W/ WOOD SCREWS
3/8" PLY
1/4" X 1" HARDWOOD SPAR
1/8" SHEER WEB VERTICAL GRAIN
SECURE TUBE W/ 8-32 X 1" BOLTS UNDER WING
3/32" X 1" X 5" OVER TOP SPAR FROM F TO D
PHENOLIC SOCKET
1-1/2" DIA ALUMINUM TUBE
TILT RIB 1 OUTBOARD AT USE THIS TEMPLATE
1/4" SHT SERVO MOUNT
100 OZ-IN FLAP SERVO
CONNECT FLAP SERVOS WITH A REVERSING SERVO TO THE FLAP SELECTOR CHANNEL
1/8" SHEER WEB, VERTICAL GRAIN
1/4" SQ SPAR
FLAP
3/32" X 1/4" X 5" OVER TOP SPAR FROM F TO D
1/8" LITE PLY WING BOLT PLATE, UNDERSIDE OF UPPER SURFACE
DU-BRO OR KLETT FLAP HINGE, TYP
3/32" X 1/4" X 5" OVER TOP SPAR FROM F TO D
"WASHOUT STICKS"
UPPER ASSEMBLY JIG, 1/8" SHT
PLACE UNDER REAR SPAR DURING ASSEMBLY
LOWER ASSEMBLY JIG, 1/8" SHT
1/4" DOWEL ALIGNMENT PIN
1/4" SQ
LANDING LIGHT, LEFT WING ONLY. BOTTOM VIEW SHOWN.
1/2" X 1-1/2" LE
1/8" SHEAR WEBS VERTICAL GRAIN
COVER WING W/ 3/32" SHT
1" SHT TIP (2)
PHENOLIC SOCKET 1-1/8"OD
EPOXY TUBE TO SOCKET AFTER ASSEMBLY
1/4" X 3/4" SPARS
1/8" PLY SERVO MOUNT
ASSEMBLE RIGHT WING PANEL OVER THIS VIEW
1/4" DOWEL ALIGMENT PIN
2 PINS FOR SAFETY
3/32" SHEER WEB VERTICAL GRAIN
1/4" X 1/8" SPARS
FILL SPACE BETWEEN RIBS WITH FOAM BEFORE ADDING AILERON SKINS.
ROBART HINGE, TYP (5 PER AILERON)
FY: 1-1/2" WASHOUT FROM R1 TO R14 (MORE THAN SCALE FOR SAFETY)
CONVENTIONAL AILERON SERVO INSTALLATION
1/16" ALUMINUM HORN
AILERON SERVO, 100 OZ-IN MINIMUM
BALL LINK PUSROD RECOMMENDED
WINGTIP CROSS-SECTION
TAPER SPARS TO BE FLUSH WITH R15
1" SHT TIP
ELEVATE 6-3/8" AT R14 WHEN JOINING PANELS
LOWER FILET, 3/32" SHT (2) INSTALL W/ WING IN PLACE
UPPER MIDDLE FILET, 1/16" SHT (2)
TAPER INSIDE EDGE BEFORE ASSEMBLY
UPPER FILET, 1/16" SHT (2)
COVER THE TOP SURFACE WITH 3/32" SHEET, OVERLAPPING FROM F TO A.
THEN CUT AWAY THE INBOARD PORTION OF THE UPPER LAYER, USING THE FUSELAGE'S FILET AS A GUIDE. THIS RECESSES THE WING FILET INTO THE WING.
LG MOUNTING PLATE
3/16" PLY (2)
TIP: ATTACH BEARERS TO MOUNTING PLATE BEFORE ATTACHING BEARERS TO RIBS F AND E.
LOWER WING FILET
OBSERVER'S CAMERA WINDOW
RETRACTABLE STEP
LOWER SIGNAL LIGHT
1/8" PLY LEADING EDGE
COWL SKIN, 1/32" PLY SHOWN SLIGHTLY OVERSIZE TRIM AFTER ASSEMBLY
SPANGENBERG AILERON CONTROL ROD 3/16" & 7/32" BRASS TUBING, BALL LINK, BOLT
RIB 8
RECOMMENDED CONTROL SURFACE MOVEMENTS
RUDDER: ± 2 INCHES. (MEASURED AT LOWER CORNER)
ELEVATOR: 1.5 UP, INCHES (MEASURED AT INBOARD CORNER)
FLAP-ELEVATOR MIXING: ½ INCH DOWN-ELEVATOR AT FULL FLAP.
PARTIAL FLAP: 2 INCHES.
FULL FLAP: 5 INCHES.
AILERON SKINS, 1/16" SHT (4)
1/32" SHT
1/32" X 1/16" RIBS
1/32" X 1/16" TE
http://www.mrbugbonds.com
MITSUBISHI Ki-15 "Babs"
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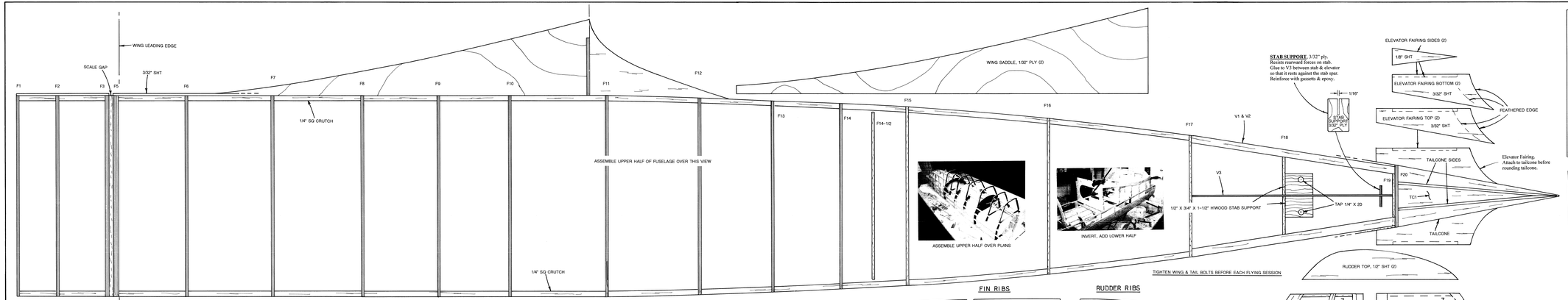
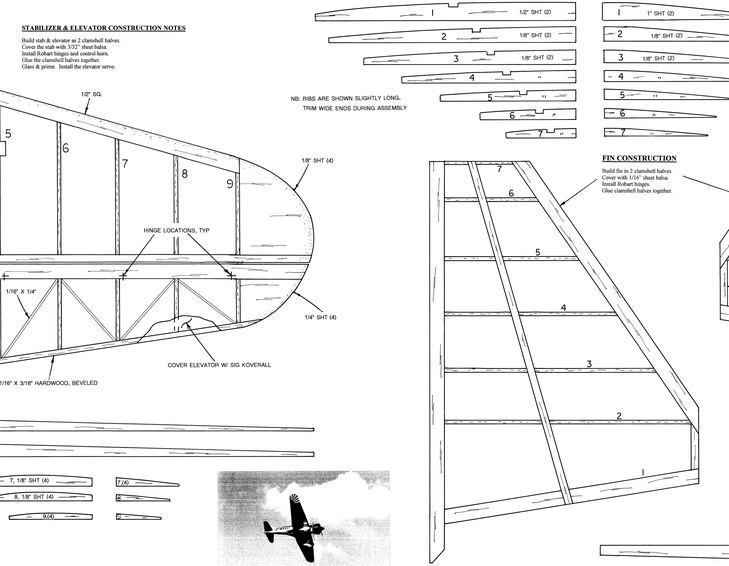
SHEET 2 OF 5

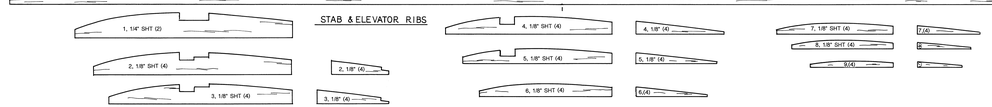


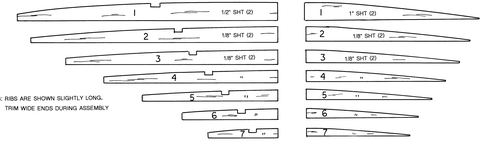
STAB SUPPORT, 3/32" ply.
Resists rearward forces on stab.
Glue to V3 between stab & elevator so that it rests against the stab spar.
Reinforce with gussets & epoxy.



STABILIZER & ELEVATOR CONSTRUCTION NOTES

Build stab & elevator as 2 clamshell halves.
Cover the stab with 3/32" sheet balsa.
Install Robart hinges and control horn.
Glue the clamshell halves together.
Glass & prime. Install the elevator servo.

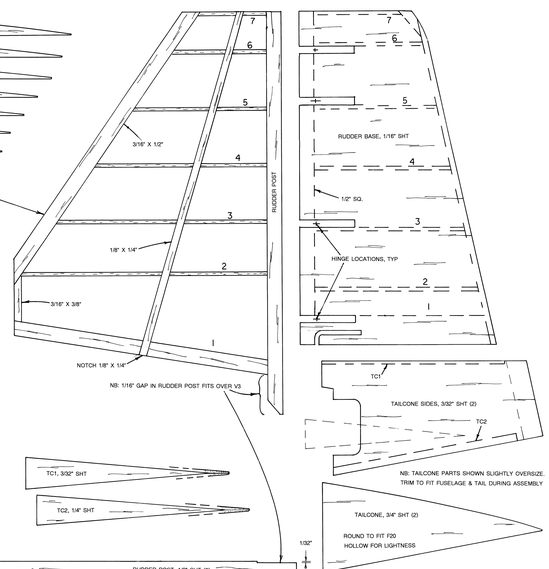


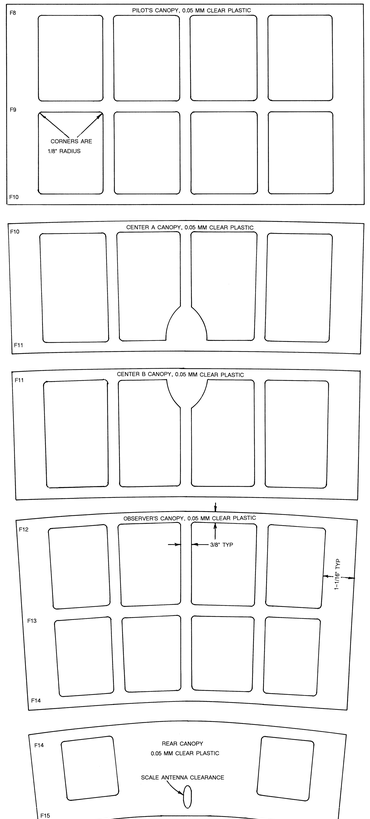


NB: RIBS ARE SHOWN SLIGHTLY LONG.
TRIM WIDE ENDS DURING ASSEMBLY

FIN CONSTRUCTION

Build fin in 2 clamshell halves.
Cover with 1/16" sheet balsa.
Install Robart hinges.
Glue clamshell halves together.





TIP: Cut canopies about 1/16" oversized.
Trim to fit during assembly.
Mask windows after installation.

MITSUBISHI Ki-15 "*Babs*"

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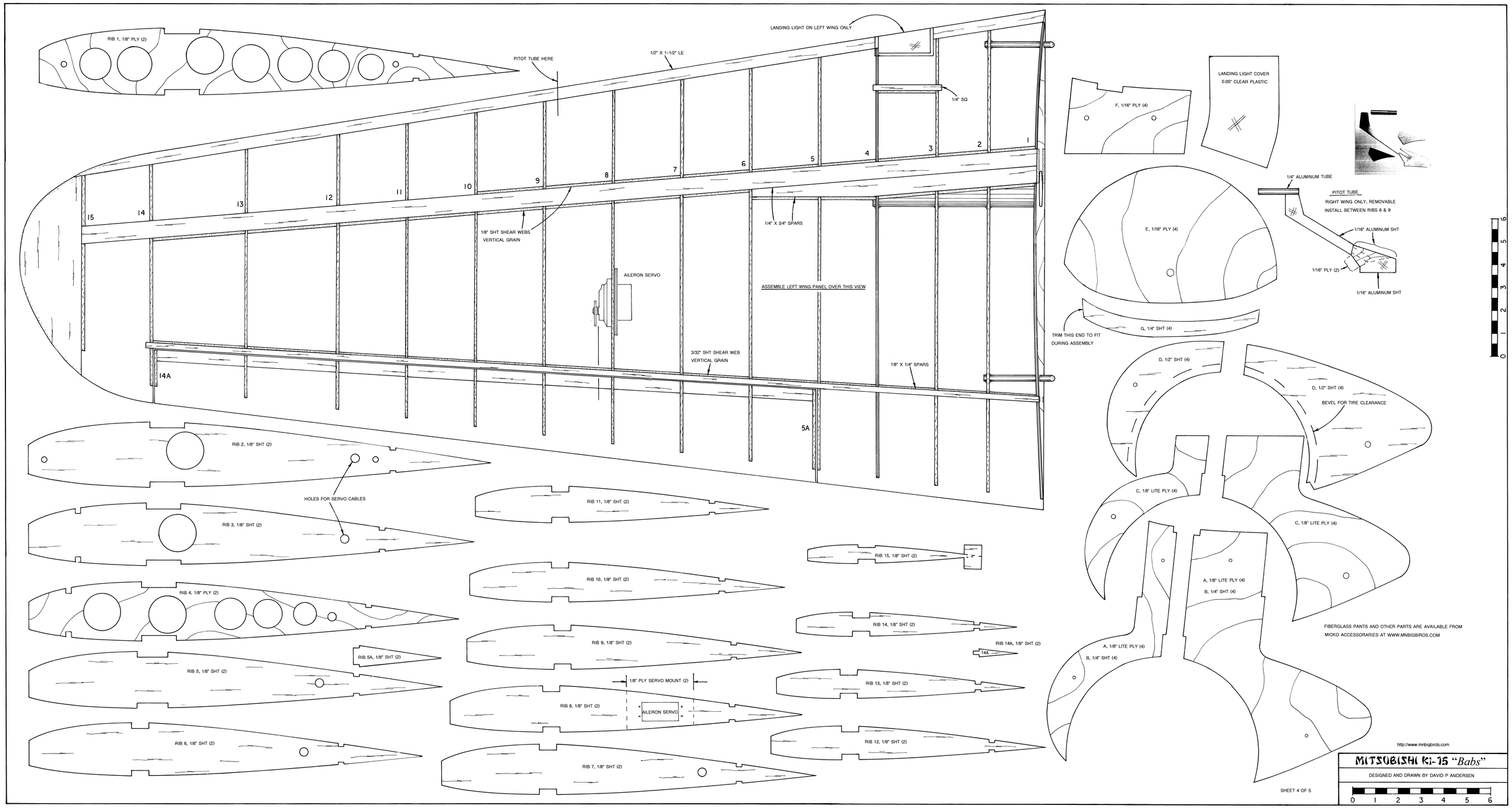
SHEET 3 OF 5

0 1 2 3 4 5 6


RIB 1, 1/8" PLY (2)
LANDING LIGHT ON LEFT WING ONLY
PITOT TUBE HERE
1/2" X 1-1/2" LE
1/4" SQ
1/8" SHT SHEAR WEBS
VERTICAL GRAIN
1/4" X 3/4" SPARS
AILERON SERVO
ASSEMBLE LEFT WING PANEL OVER THIS VIEW
3/32" SHT SHEAR WEB
VERTICAL GRAIN
1/8" X 1/4" SPARS
14A
5A
RIB 2, 1/8" SHT (2)
HOLES FOR SERVO CABLES
RIB 3, 1/8" SHT (2)
RIB 4, 1/8" PLY (2)
RIB 5A, 1/8" SHT (2)
RIB 5, 1/8" SHT (2)
RIB 6, 1/8" SHT (2)
RIB 11, 1/8" SHT (2)
RIB 10, 1/8" SHT (2)
RIB 9, 1/8" SHT (2)
1/8" PLY SERVO MOUNT (2)
RIB 8, 1/8" SHT (2)
AILERON SERVO
RIB 7, 1/8" SHT (2)
RIB 15, 1/8" SHT (2)
RIB 14, 1/8" SHT (2)
RIB 14A, 1/8" SHT (2)
14A
RIB 13, 1/8" SHT (2)
RIB 12, 1/8" SHT (2)
F, 1/16" PLY (4)
LANDING LIGHT COVER
0.05" CLEAR PLASTIC
1/4" ALUMINUM TUBE
PITOT TUBE
RIGHT WING ONLY, REMOVABLE
INSTALL BETWEEN RIBS 8 & 9
1/16" ALUMINUM SHT
1/16" PLY (2)
1/16" ALUMINUM SHT
E, 1/16" PLY (4)
G, 1/4" SHT (4)
TRIM THIS END TO FIT
DURING ASSEMBLY
D, 1/2" SHT (4)
D, 1/2" SHT (4)
BEVEL FOR TIRE CLEARANCE
C, 1/8" LITE PLY (4)
C, 1/8" LITE PLY (4)
A, 1/8" LITE PLY (4)
B, 1/4" SHT (4)
A, 1/8" LITE PLY (4)
B, 1/4" SHT (4)
FIBERGLASS PANTS AND OTHER PARTS ARE AVAILABLE FROM
MICKO ACCESSORARIES AT WWW.MNBIGBIRDS.COM
http://www.mnbigbirds.com
MITSUBISHI Ki-15 "Babs"
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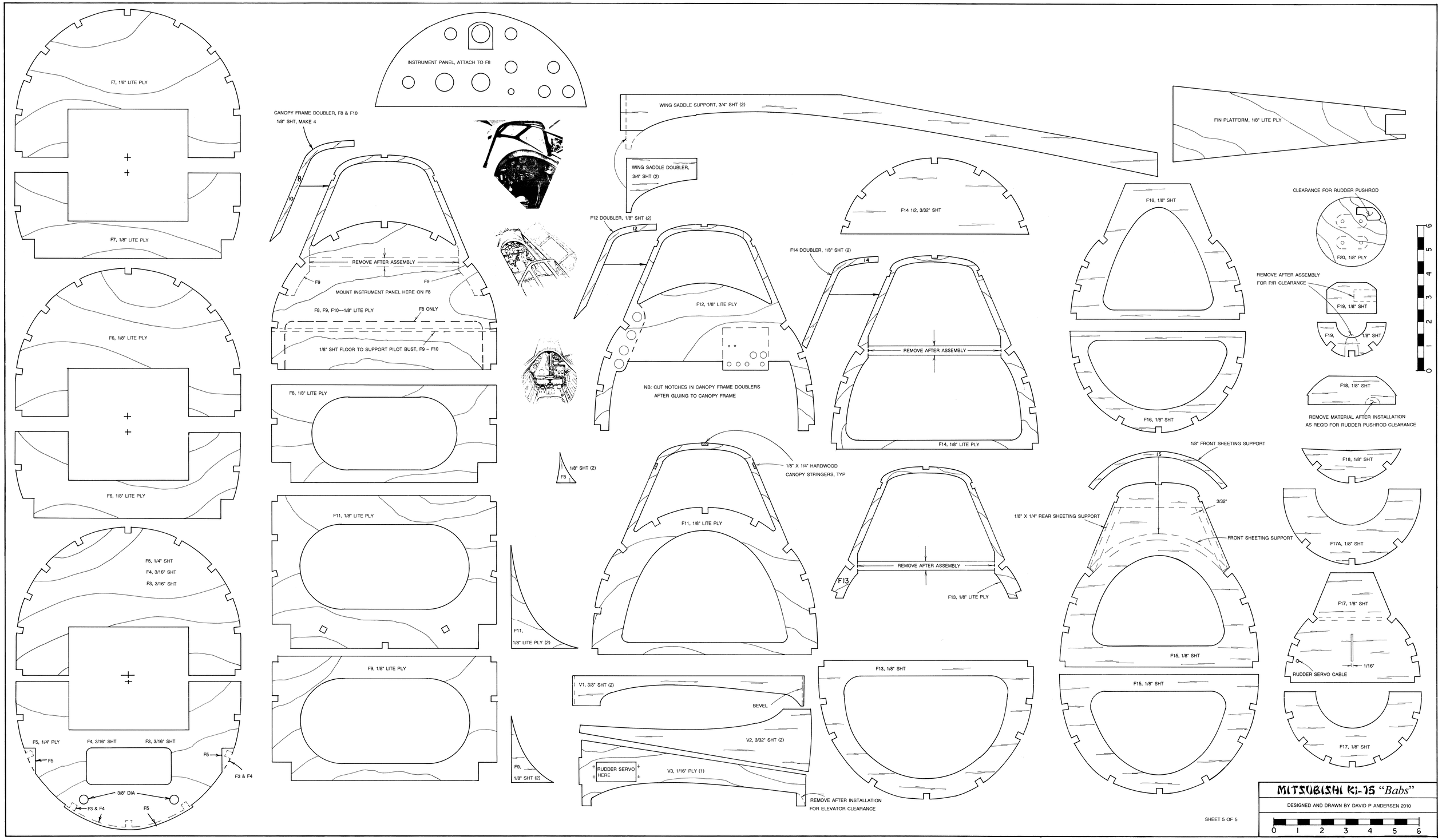
0 1 2 3 4 5 6
SHEET 4 OF 5


F7, 1/8" LITE PLY
F7, 1/8" LITE PLY
F6, 1/8" LITE PLY
F6, 1/8" LITE PLY
F5, 1/4" SHT
F4, 3/16" SHT
F3, 3/16" SHT
F5, 1/4" PLY
F4, 3/16" SHT
F3, 3/16" SHT
F5
F5
F3 & F4
3/8" DIA
F3 & F4
F5
INSTRUMENT PANEL, ATTACH TO F8
CANOPY FRAME DOUBLER, F8 & F10
1/8" SHT, MAKE 4
8
9
REMOVE AFTER ASSEMBLY
F9
F9
MOUNT INSTRUMENT PANEL HERE ON F8
F8, F9, F10—1/8" LITE PLY
F8 ONLY
1/8" SHT FLOOR TO SUPPORT PILOT BUST, F9 – F10
F8, 1/8" LITE PLY
F11, 1/8" LITE PLY
F9, 1/8" LITE PLY
1/8" SHT (2)
F8
F11,
1/8" LITE PLY (2)
F9,
1/8" SHT (2)
WING SADDLE SUPPORT, 3/4" SHT (2)
WING SADDLE DOUBLER,
3/4" SHT (2)
F12 DOUBLER, 1/8" SHT (2)
12
F12, 1/8" LITE PLY
NB: CUT NOTCHES IN CANOPY FRAME DOUBLERS
AFTER GLUING TO CANOPY FRAME
1/8" X 1/4" HARDWOOD
CANOPY STRINGERS, TYP
F11, 1/8" LITE PLY
V1, 3/8" SHT (2)
BEVEL
V2, 3/32" SHT (2)
RUDDER SERVO
HERE
V3, 1/16" PLY (1)
REMOVE AFTER INSTALLATION
FOR ELEVATOR CLEARANCE
F14 1/2, 3/32" SHT
F14 DOUBLER, 1/8" SHT (2)
14
REMOVE AFTER ASSEMBLY
F14, 1/8" LITE PLY
REMOVE AFTER ASSEMBLY
F13
F13, 1/8" LITE PLY
F13, 1/8" SHT
FIN PLATFORM, 1/8" LITE PLY
F16, 1/8" SHT
F16, 1/8" SHT
1/8" FRONT SHEETING SUPPORT
15
3/32"
1/8" X 1/4" REAR SHEETING SUPPORT
FRONT SHEETING SUPPORT
F15, 1/8" SHT
F15, 1/8" SHT
CLEARANCE FOR RUDDER PUSHROD
F20, 1/8" PLY
REMOVE AFTER ASSEMBLY
FOR P/R CLEARANCE
F19, 1/8" SHT
F19,
1/8" SHT
F18, 1/8" SHT
REMOVE MATERIAL AFTER INSTALLATION
AS REQ'D FOR RUDDER PUSHROD CLEARANCE
F18, 1/8" SHT
F17A, 1/8" SHT
F17, 1/8" SHT
1/16"
RUDDER SERVO CABLE
F17, 1/8" SHT
0 1 2 3 4 5 6
MITSUBISHI Ki-75 "Babs"
DESIGNED AND DRAWN BY DAVID P ANDERSEN 2010
0 1 2 3 4 5 6
SHEET 5 OF 5