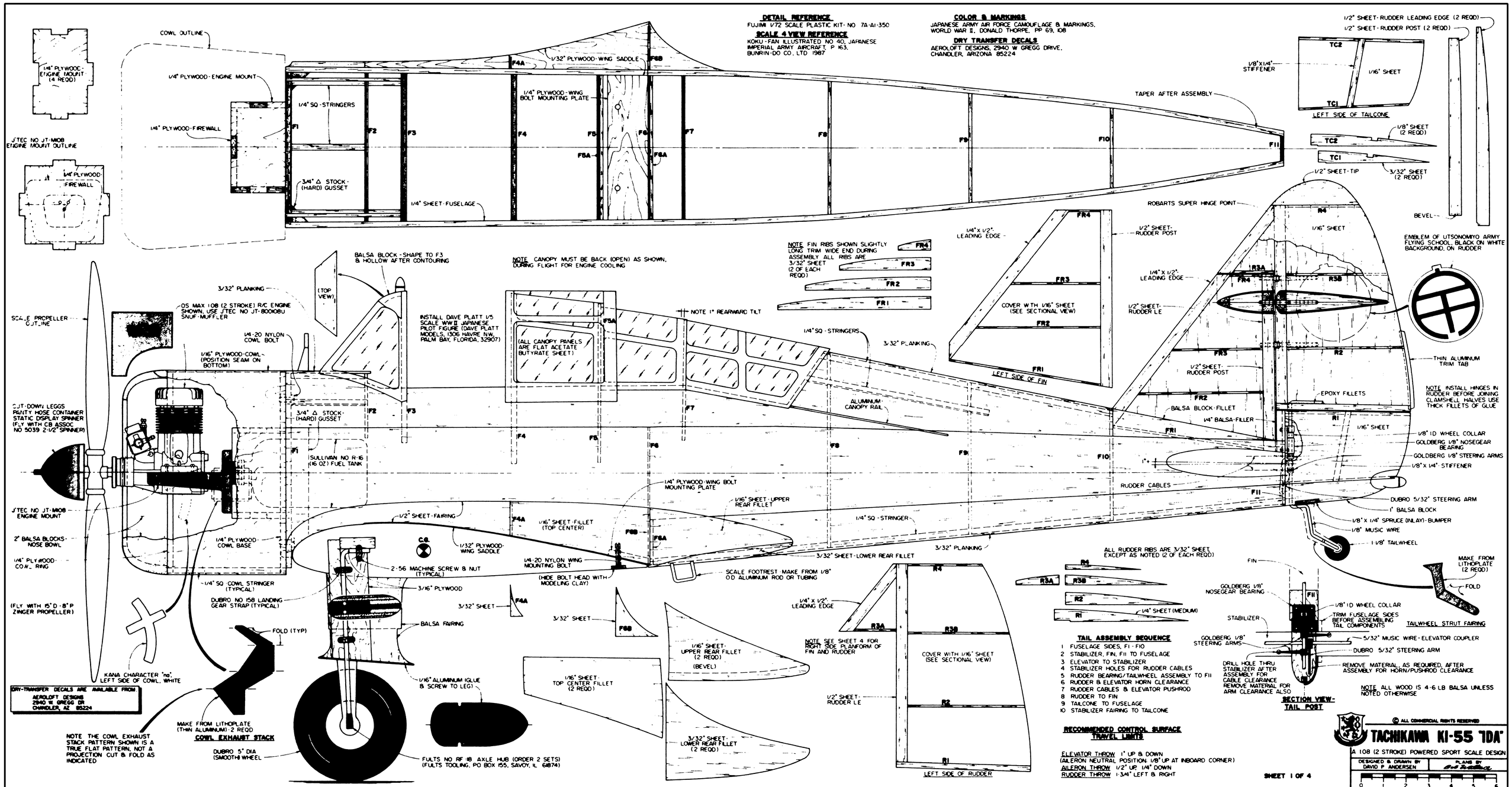
DETAIL REFERENCE
FUJIMI 1/72 SCALE PLASTIC KIT- NO 7A-A1-350
SCALE 4 VIEW REFERENCE
KOKU-FAN ILLUSTRATED NO 40, JAPANESE IMPERIAL ARMY AIRCRAFT, P 163, BUNRIN-DO CO, LTD 1987
COLOR & MARKINGS
JAPANESE ARMY AIR FORCE CAMOUFLAGE & MARKINGS, WORLD WAR II, DONALD THORPE, PP 69, 108
DRY TRANSFER DECALS
AEROLOFT DESIGNS, 2940 W GREGG DRIVE, CHANDLER, ARIZONA 85224
COWL OUTLINE
1/4" PLYWOOD-ENGINE MOUNT (4 REQD)
1/4" PLYWOOD-ENGINE MOUNT
1/4" PLYWOOD-FIREWALL
JTEC NO JT-M108 ENGINE MOUNT OUTLINE
1/4" PLYWOOD-FIREWALL
1/4" SQ-STRINGERS
3/4" Δ STOCK-(HARD) GUSSET
1/4" SHEET-FUSELAGE
1/32" PLYWOOD-WING SADDLE
1/4" PLYWOOD-WING BOLT MOUNTING PLATE
F1 F2 F3 F4 F4A F5 F5A F6 F6A F7 F8 F9 F10 F11
TAPER AFTER ASSEMBLY
1/8"X1/4" STIFFENER
TC2
TC1
1/16" SHEET
LEFT SIDE OF TAILCONE
1/2" SHEET-RUDDER LEADING EDGE (2 REQD)
1/2" SHEET-RUDDER POST (2 REQD)
1/8" SHEET (2 REQD)
3/32" SHEET (2 REQD)
1/2" SHEET-TIP
ROBARTS SUPER HINGE POINT
BEVEL
EMBLEM OF UTSONOMIYO ARMY FLYING SCHOOL, BLACK ON WHITE BACKGROUND, ON RUDDER
1/4"X 1/2" LEADING EDGE
1/2" SHEET-RUDDER POST
COVER WITH 1/16" SHEET (SEE SECTIONAL VIEW)
LEFT SIDE OF FIN
NOTE FIN RIBS SHOWN SLIGHTLY LONG TRIM WIDE END DURING ASSEMBLY ALL RIBS ARE 3/32" SHEET (2 OF EACH REQD)
FR4 FR3 FR2 FR1
1/4"X 1/2" LEADING EDGE
1/2" SHEET-RUDDER LE
R4 R3A R3B R2 R1
1/16" SHEET
THIN ALUMINUM TRIM TAB
NOTE INSTALL HINGES IN RUDDER BEFORE JOINING CLAMSHELL HALVES USE THICK FILLETS OF GLUE
EPOXY FILLETS
BALSA BLOCK-FILLET
1/4" BALSA-FILLER
1/8" ID WHEEL COLLAR
GOLDBERG 1/8" NOSEGEAR BEARING
GOLDBERG 1/8" STEERING ARMS
1/8"X 1/4" STIFFENER
RUDDER CABLES
DUBRO 5/32" STEERING ARM
1" BALSA BLOCK
1/8"X 1/4" SPRUCE (INLAY)-BUMPER
1/8" MUSIC WIRE
1 1/8" TAILWHEEL
BALSA BLOCK-SHAPE TO F3 & HOLLOW AFTER CONTOURING
(TOP VIEW)
3/32" PLANKING
NOTE CANOPY MUST BE BACK (OPEN) AS SHOWN, DURING FLIGHT FOR ENGINE COOLING
INSTALL DAVE PLATT 1/5 SCALE WW II JAPANESE PILOT FIGURE (DAVE PLATT MODELS, 1306 HAVRE N.W., PALM BAY, FLORIDA, 32907)
(ALL CANOPY PANELS ARE FLAT ACETATE BUTYRATE SHEET)
NOTE 1" REARWARD TILT
1/4" SQ-STRINGERS
3/32" PLANKING
ALUMINUM CANOPY RAIL
SCALE PROPELLER OUTLINE
OS MAX 108 (2 STROKE) R/C ENGINE SHOWN, USE JTEC NO JT-8001080 SNUF-MUFFLER
1/4-20 NYLON COWL BOLT
1/16" PLYWOOD-COWL (POSITION SEAM ON BOTTOM)
CUT-DOWN LEGGS PANTY HOSE CONTAINER STATIC DISPLAY SPINNER (FLY WITH CB ASSOC NO 5039 2-1/2" SPINNER)
3/4" Δ STOCK-(HARD) GUSSET
SULLIVAN NO R-16 (16 OZ) FUEL TANK
JTEC NO JT-M108 ENGINE MOUNT
2" BALSA BLOCKS-NOSE BOWL
1/4" PLYWOOD-COWL RING
(FLY WITH 15"D-8"P ZINGER PROPELLER)
1/4" PLYWOOD-COWL BASE
1/4" SQ COWL STRINGER (TYPICAL)
DUBRO NO 158 LANDING GEAR STRAP (TYPICAL)
1/2" SHEET-FAIRING
1/16" SHEET-FILLET (TOP CENTER)
1/32" PLYWOOD-WING SADDLE
C.G.
2-56 MACHINE SCREW & NUT (TYPICAL)
3/16" PLYWOOD
3/32" SHEET
BALSA FAIRING
FOLD (TYP)
KANA CHARACTER "na", LEFT SIDE OF COWL, WHITE
1/4-20 NYLON WING MOUNTING BOLT
(HIDE BOLT HEAD WITH MODELING CLAY)
1/4" PLYWOOD-WING BOLT MOUNTING PLATE
1/16" SHEET-UPPER REAR FILLET
1/4" SQ-STRINGER
3/32" SHEET-LOWER REAR FILLET
3/32" PLANKING
SCALE FOOTREST MAKE FROM 1/8" OD ALUMINUM ROD OR TUBING
1/16" SHEET-UPPER REAR FILLET (2 REQD) (BEVEL)
1/16" SHEET-TOP CENTER FILLET (2 REQD)
3/32" SHEET-LOWER REAR FILLET (2 REQD)
1/16" ALUMINUM (GLUE & SCREW TO LEG)
FULTS NO RF 18 AXLE HUB (ORDER 2 SETS) (FULTS TOOLING, PO BOX 155, SAVOY, IL 61874)
DUBRO 5" DIA (SMOOTH WHEEL)
MAKE FROM LITHOPLATE (THIN ALUMINUM) 2 REQD
COWL EXHAUST STACK
NOTE THE COWL EXHAUST STACK PATTERN SHOWN IS A TRUE FLAT PATTERN, NOT A PROJECTION CUT & FOLD AS INDICATED
DRY-TRANSFER DECALS ARE AVAILABLE FROM:
AEROLOFT DESIGNS
2940 W GREGG DR
CHANDLER, AZ 85224
1/4"X 1/2" LEADING EDGE
NOTE SEE SHEET 4 FOR RIGHT SIDE PLANFORM OF FIN AND RUDDER
COVER WITH 1/16" SHEET (SEE SECTIONAL VIEW)
1/2" SHEET-RUDDER LE
LEFT SIDE OF RUDDER
ALL RUDDER RIBS ARE 3/32" SHEET EXCEPT AS NOTED (2 OF EACH REQD)
1/4" SHEET (MEDIUM)
TAIL ASSEMBLY SEQUENCE
1 FUSELAGE SIDES, F1-F10
2 STABILIZER, FIN, F11 TO FUSELAGE
3 ELEVATOR TO STABILIZER
4 STABILIZER HOLES FOR RUDDER CABLES
5 RUDDER BEARING/TAILWHEEL ASSEMBLY TO F11
6 RUDDER & ELEVATOR HORN CLEARANCE
7 RUDDER CABLES & ELEVATOR PUSHROD
8 RUDDER TO FIN
9 TAILCONE TO FUSELAGE
10 STABILIZER FAIRING TO TAILCONE
RECOMMENDED CONTROL SURFACE TRAVEL LIMITS
ELEVATOR THROW 1" UP & DOWN (AILERON NEUTRAL POSITION 1/8" UP AT INBOARD CORNER)
AILERON THROW 1/2" UP 1/4" DOWN
RUDDER THROW 1-3/4" LEFT & RIGHT
FIN
GOLDBERG 1/8" NOSEGEAR BEARING
1/8" ID WHEEL COLLAR
STABILIZER
TRIM FUSELAGE SIDES BEFORE ASSEMBLING TAIL COMPONENTS
GOLDBERG 1/8" STEERING ARMS
5/32" MUSIC WIRE-ELEVATOR COUPLER
DUBRO 5/32" STEERING ARM
DRILL HOLE THRU STABILIZER AFTER ASSEMBLY FOR CABLE CLEARANCE REMOVE MATERIAL FOR ARM CLEARANCE ALSO
REMOVE MATERIAL, AS REQUIRED, AFTER ASSEMBLY FOR HORN/PUSHROD CLEARANCE
SECTION VIEW-TAIL POST
NOTE ALL WOOD IS 4-6 LB BALSA UNLESS NOTED OTHERWISE
MAKE FROM LITHOPLATE (2 REQD)
FOLD
TAILWHEEL STRUT FAIRING
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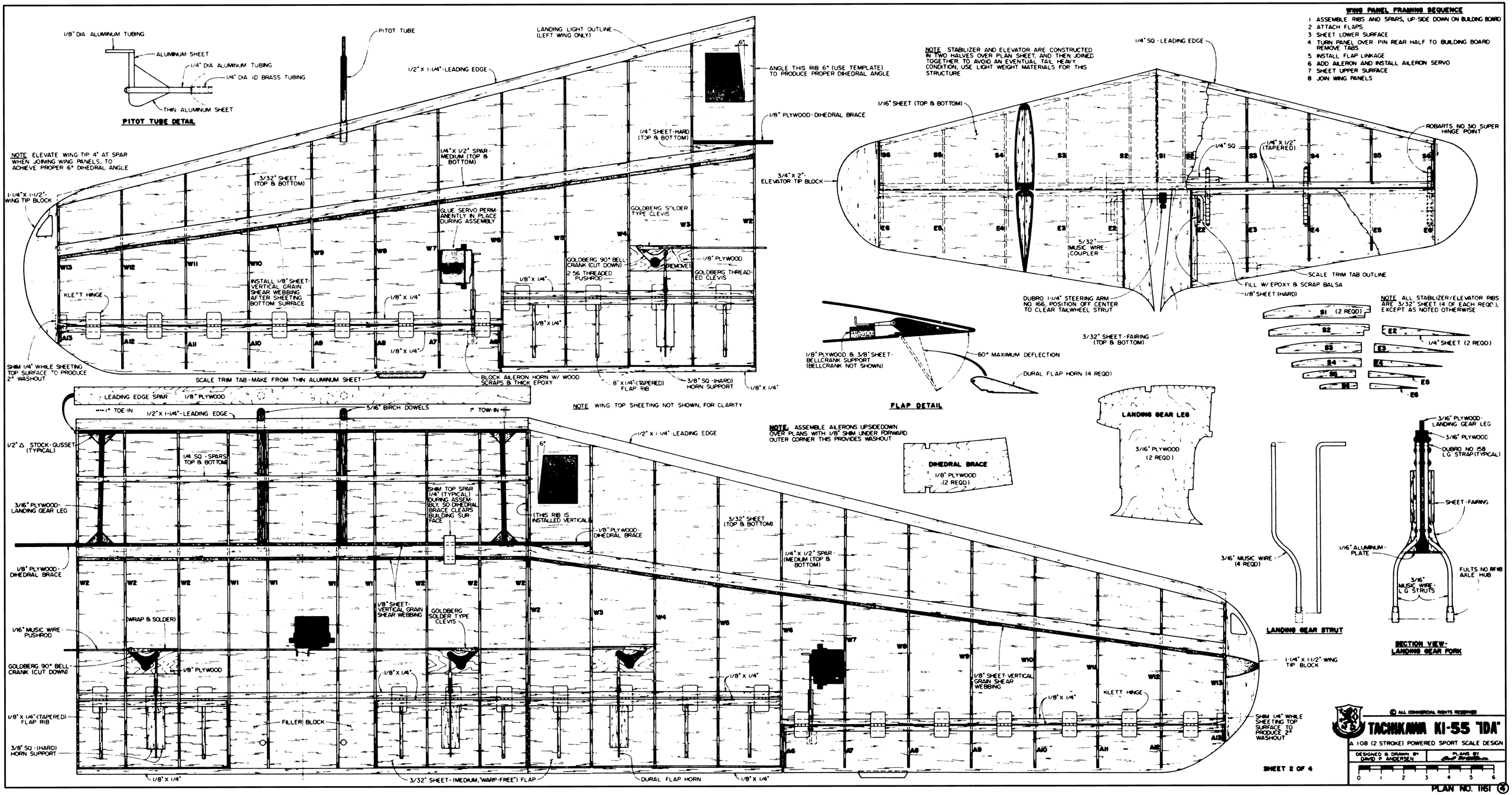
TACHIKAWA KI-55 "DA"
A 108 (2 STROKE) POWERED SPORT SCALE DESIGN
DESIGNED & DRAWN BY DAVID P ANDERSEN
PLANS BY
SHEET 1 OF 4
0 1 2 3 4 5 6
PLAN NO. 1161 (4)


WING PANEL FRAMING SEQUENCE
1 ASSEMBLE RIBS AND SPARS, UP-SIDE DOWN ON BUILDING BOARD
2 ATTACH FLAPS
3 SHEET LOWER SURFACE
4 TURN PANEL OVER PIN REAR HALF TO BUILDING BOARD REMOVE TABS
5 INSTALL FLAP LINKAGE
6 ADD AILERON AND INSTALL AILERON SERVO
7 SHEET UPPER SURFACE
8 JOIN WING PANELS
1/8" DIA ALUMINUM TUBING
ALUMINUM SHEET
1/4" DIA ALUMINUM TUBING
1/4" DIA ID BRASS TUBING
THIN ALUMINUM SHEET
PITOT TUBE DETAIL
PITOT TUBE
LANDING LIGHT OUTLINE (LEFT WING ONLY)
1/2" x 1-1/4" LEADING EDGE
ANGLE THIS RIB 6° (USE TEMPLATE) TO PRODUCE PROPER DIHEDRAL ANGLE
1/8" PLYWOOD DIHEDRAL BRACE
1/4" SHEET-HARD (TOP & BOTTOM)
1/4" x 1/2" SPAR-MEDIUM (TOP & BOTTOM)
NOTE ELEVATE WING TIP 4" AT SPAR WHEN JOINING WING PANELS. TO ACHIEVE PROPER 6° DIHEDRAL ANGLE
3/32" SHEET (TOP & BOTTOM)
1-1/4" x 1-1/2" WING TIP BLOCK
GLUE SERVO PERMANENTLY IN PLACE DURING ASSEMBLY
GOLDBERG SOLDER TYPE CLEVIS
GOLDBERG 90° BELL CRANK (CUT DOWN)
2-56 THREADED PUSHROD
1/8" PLYWOOD (REMOVE)
GOLDBERG THREADED CLEVIS
INSTALL 1/8" SHEET VERTICAL GRAIN SHEAR WEBBING AFTER SHEETING BOTTOM SURFACE
KLE"T HINGE
1/8" x 1/4"
SHIM 1/4" WHILE SHEETING TOP SURFACE TO PRODUCE 2° WASHOUT
SCALE TRIM TAB-MAKE FROM THIN ALUMINUM SHEET
BLOCK AILERON HORN W/ WOOD SCRAPS & THICK EPOXY
1/8" x 1/4"-(TAPERED) FLAP RIB
3/8" SQ-(HARD) HORN SUPPORT
NOTE WING TOP SHEETING NOT SHOWN, FOR CLARITY
NOTE STABILIZER AND ELEVATOR ARE CONSTRUCTED IN TWO HALVES OVER PLAN SHEET, AND THEN JOINED TOGETHER. TO AVOID AN EVENTUAL TAIL HEAVY CONDITION, USE LIGHT WEIGHT MATERIALS FOR THIS STRUCTURE
1/4" SQ-LEADING EDGE
1/16" SHEET (TOP & BOTTOM)
3/4" x 2" ELEVATOR TIP BLOCK
1/4" SQ
1/4" x 1/2" (TAPERED)
ROBARTS NO 310 SUPER HINGE POINT
5/32" MUSIC WIRE COUPLER
SCALE TRIM TAB OUTLINE
FILL W/ EPOXY & SCRAP BALSA
1/8" SHEET (HARD)
DUBRO 1-1/4" STEERING ARM NO 166, POSITION OFF CENTER TO CLEAR TAILWHEEL STRUT
3/32" SHEET-FAIRING (TOP & BOTTOM)
NOTE ALL STABILIZER/ELEVATOR RIBS ARE 3/32" SHEET (4 OF EACH REQ'D), EXCEPT AS NOTED OTHERWISE
S1 (2 REQD)
S2
S3
S4
S5
S6
E2
E3
E4
E5
E6
1/4" SHEET (2 REQD)
1/8" PLYWOOD & 3/8" SHEET-BELLCRANK SUPPORT (BELLCRANK NOT SHOWN)
60° MAXIMUM DEFLECTION
DURAL FLAP HORN (4 REQD)
FLAP DETAIL
LEADING EDGE SPAR
1/8" PLYWOOD
1° TOE-IN
1° TOW-IN
5/16" BIRCH DOWELS
1/2" x 1-1/4" LEADING EDGE
1/2" Δ STOCK-GUSSET (TYPICAL)
1/4 SQ-SPARS TOP & BOTTOM
3/16" PLYWOOD-LANDING GEAR LEG
SHIM TOP SPAR 1/4" (TYPICAL) DURING ASSEMBLY SO DIHEDRAL BRACE CLEARS BUILDING SURFACE
(THIS RIB IS INSTALLED VERTICALLY)
1/8" PLYWOOD-DIHEDRAL BRACE
3/32" SHEET (TOP & BOTTOM)
1/4" x 1/2" SPAR-(MEDIUM (TOP & BOTTOM)
NOTE: ASSEMBLE AILERONS UPSIDEDOWN OVER PLANS WITH 1/8" SHIM UNDER FORWARD OUTER CORNER THIS PROVIDES WASHOUT
DIHEDRAL BRACE
1/8" PLYWOOD (2 REQD)
LANDING GEAR LEG
3/16" PLYWOOD (2 REQD)
3/16" PLYWOOD-LANDING GEAR LEG
3/16" PLYWOOD
DUBRO NO 158 LG STRAP (TYPICAL)
SHEET-FAIRING
1/16" ALUMINUM-PLATE
FULTS NO RF18 AXLE HUB
3/16" MUSIC WIRE-LG STRUTS
3/16" MUSIC WIRE (4 REQD)
LANDING GEAR STRUT
SECTION VIEW-LANDING GEAR FORK
1/8" PLYWOOD-DIHEDRAL BRACE
1/8" SHEET-VERTICAL GRAIN SHEAR WEBBING
GOLDBERG SOLDER TYPE CLEVIS
(WRAP & SOLDER)
1/16" MUSIC WIRE-PUSHROD
GOLDBERG 90° BELL-CRANK (CUT DOWN)
1/8" PLYWOOD
1/8" x 1/4"
1/8" x 1/4"-(TAPERED) FLAP RIB
FILLER BLOCK
3/8" SQ-(HARD) HORN SUPPORT
1-1/4" x 1-1/2" WING TIP BLOCK
KLETT HINGE
SHIM 1/4" WHILE SHEETING TOP SURFACE TO PRODUCE 2° WASHOUT
3/32" SHEET-(MEDIUM, "WARP-FREE") FLAP
DURAL FLAP HORN
SHEET 2 OF 4
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TACHIKAWA KI-55 "IDA"
A 108 (2 STROKE) POWERED SPORT SCALE DESIGN
DESIGNED & DRAWN BY DAVID P. ANDERSEN
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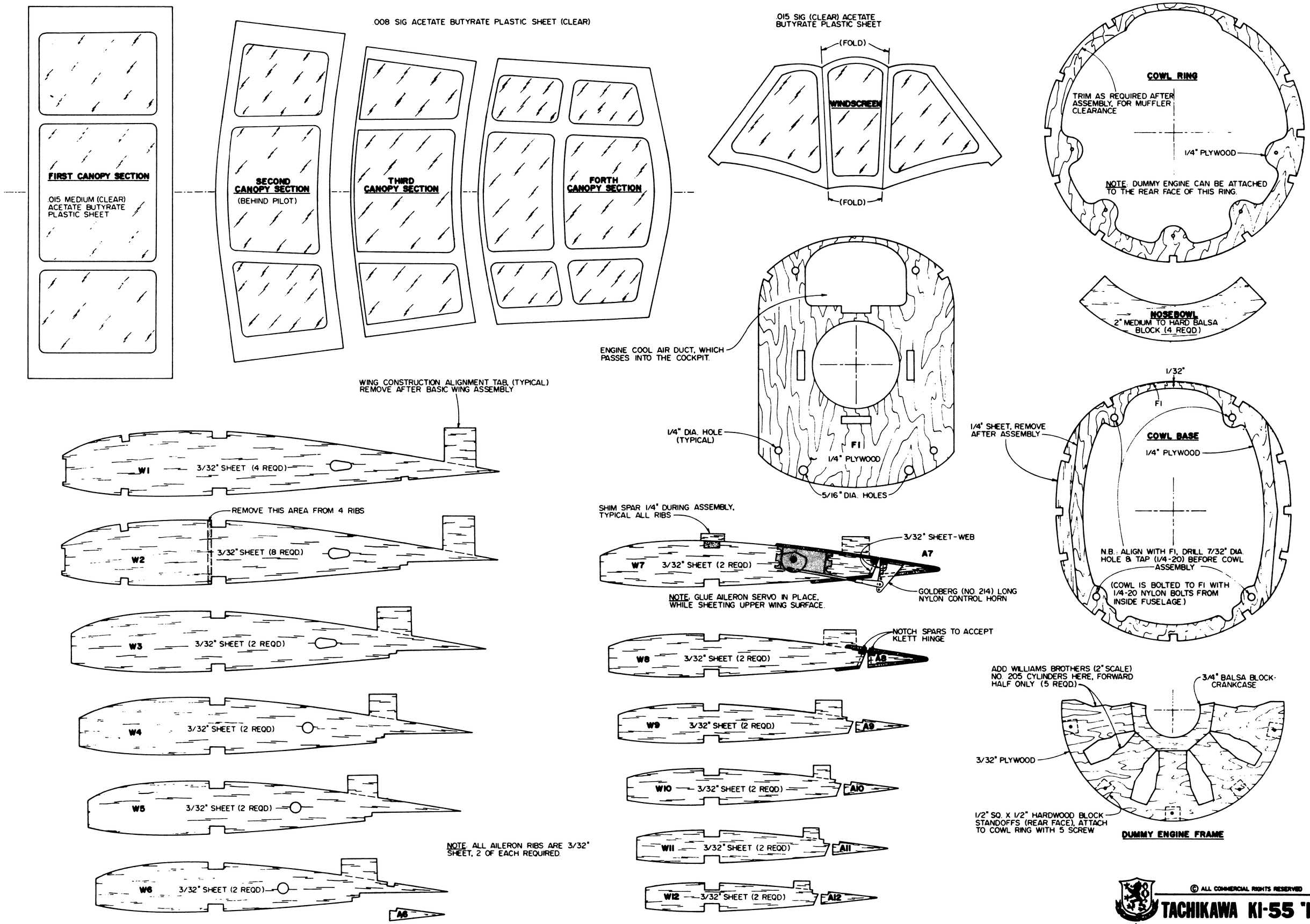
.008 SIG ACETATE BUTYRATE PLASTIC SHEET (CLEAR)
FIRST CANOPY SECTION
.015 MEDIUM (CLEAR) ACETATE BUTYRATE PLASTIC SHEET
SECOND CANOPY SECTION
(BEHIND PILOT)
THIRD CANOPY SECTION
FORTH CANOPY SECTION
.015 SIG (CLEAR) ACETATE BUTYRATE PLASTIC SHEET
(FOLD)
WINDSCREEN
(FOLD)
COWL RING
TRIM AS REQUIRED AFTER ASSEMBLY, FOR MUFFLER CLEARANCE
1/4" PLYWOOD
NOTE: DUMMY ENGINE CAN BE ATTACHED TO THE REAR FACE OF THIS RING.
NOSEBOWL
2" MEDIUM TO HARD BALSA BLOCK (4 REQD.)
ENGINE COOL AIR DUCT, WHICH PASSES INTO THE COCKPIT.
1/4" DIA. HOLE (TYPICAL)
F1
1/4" PLYWOOD
5/16" DIA. HOLES
1/32"
F1
1/4" SHEET, REMOVE AFTER ASSEMBLY
COWL BASE
1/4" PLYWOOD
N.B.: ALIGN WITH F1, DRILL 7/32" DIA. HOLE & TAP (1/4-20) BEFORE COWL ASSEMBLY
(COWL IS BOLTED TO F1 WITH 1/4-20 NYLON BOLTS FROM INSIDE FUSELAGE)
WING CONSTRUCTION ALIGNMENT TAB (TYPICAL) REMOVE AFTER BASIC WING ASSEMBLY
W1
3/32" SHEET (4 REQD)
REMOVE THIS AREA FROM 4 RIBS
W2
3/32" SHEET (8 REQD.)
W3
3/32" SHEET (2 REQD)
W4
3/32" SHEET (2 REQD)
W5
3/32" SHEET (2 REQD)
W6
3/32" SHEET (2 REQD)
A6
NOTE: ALL AILERON RIBS ARE 3/32" SHEET, 2 OF EACH REQUIRED.
SHIM SPAR 1/4" DURING ASSEMBLY, TYPICAL ALL RIBS
W7
3/32" SHEET (2 REQD)
3/32" SHEET-WEB
A7
GOLDBERG (NO. 214) LONG NYLON CONTROL HORN
NOTE: GLUE AILERON SERVO IN PLACE, WHILE SHEETING UPPER WING SURFACE.
NOTCH SPARS TO ACCEPT KLETT HINGE
W8
3/32" SHEET (2 REQD)
A8
W9
3/32" SHEET (2 REQD)
A9
W10
3/32" SHEET (2 REQD)
A10
W11
3/32" SHEET (2 REQD)
A11
W12
3/32" SHEET (2 REQD)
A12
W13
3/32" SHEET (2 REQD)
A13
ADD WILLIAMS BROTHERS (2" SCALE) NO. 205 CYLINDERS HERE, FORWARD HALF ONLY (5 REQD.)
3/4" BALSA BLOCK-CRANKCASE
3/32" PLYWOOD
1/2" SQ. X 1/2" HARDWOOD BLOCK STANDOFFS (REAR FACE), ATTACH TO COWL RING WITH 5 SCREW
DUMMY ENGINE FRAME
SHEET 3 OF 4
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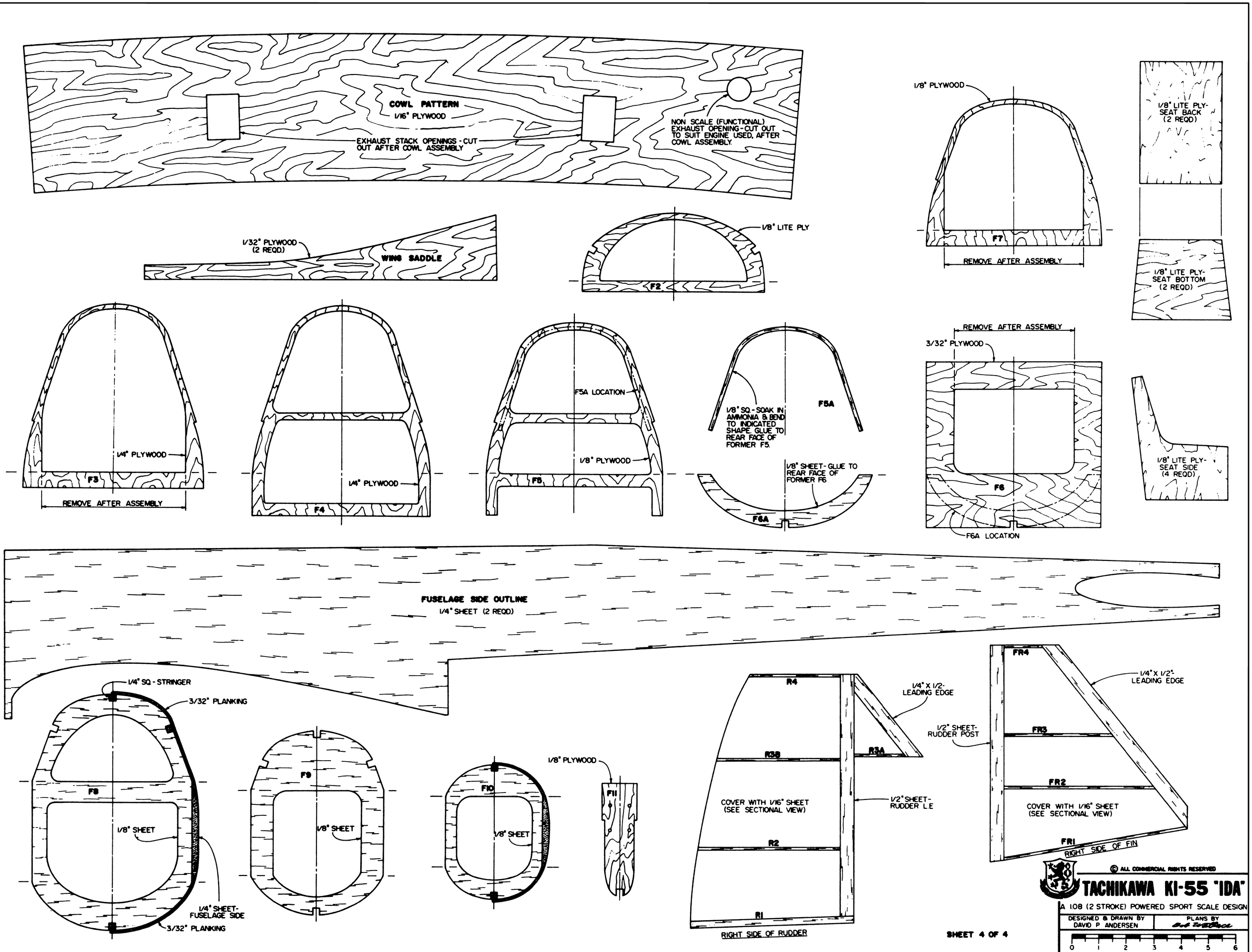
COWL PATTERN
1/16" PLYWOOD
EXHAUST STACK OPENINGS - CUT OUT AFTER COWL ASSEMBLY
NON SCALE (FUNCTIONAL) EXHAUST OPENING - CUT OUT TO SUIT ENGINE USED, AFTER COWL ASSEMBLY.
1/32" PLYWOOD (2 REQD)
WING SADDLE
1/8" LITE PLY
F2
1/8" PLYWOOD
F7
REMOVE AFTER ASSEMBLY
1/8" LITE PLY-SEAT BACK (2 REQD)
1/8" LITE PLY-SEAT BOTTOM (2 REQD)
1/4" PLYWOOD
F3
REMOVE AFTER ASSEMBLY
1/4" PLYWOOD
F4
F5A LOCATION
1/8" PLYWOOD
F5
1/8" SQ. - SOAK IN AMMONIA & BEND TO INDICATED SHAPE. GLUE TO REAR FACE OF FORMER F5.
F5A
1/8" SHEET - GLUE TO REAR FACE OF FORMER F6
F6A
REMOVE AFTER ASSEMBLY
3/32" PLYWOOD
F6
F6A LOCATION
1/8" LITE PLY-SEAT SIDE (4 REQD)
FUSELAGE SIDE OUTLINE
1/4" SHEET (2 REQD)
1/4" SQ. - STRINGER
3/32" PLANKING
F8
1/8" SHEET
1/4" SHEET-FUSELAGE SIDE
3/32" PLANKING
F9
1/8" SHEET
F10
1/8" SHEET
1/8" PLYWOOD
F11
R4
1/4" X 1/2-LEADING EDGE
1/2" SHEET-RUDDER POST
R3B
R3A
COVER WITH 1/16" SHEET (SEE SECTIONAL VIEW)
1/2" SHEET-RUDDER L.E
R2
R1
RIGHT SIDE OF RUDDER
FR4
1/4" X 1/2"-LEADING EDGE
FR3
FR2
COVER WITH 1/16" SHEET (SEE SECTIONAL VIEW)
FR1
RIGHT SIDE OF FIN
SHEET 4 OF 4
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A 108 (2 STROKE) POWERED SPORT SCALE DESIGN
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