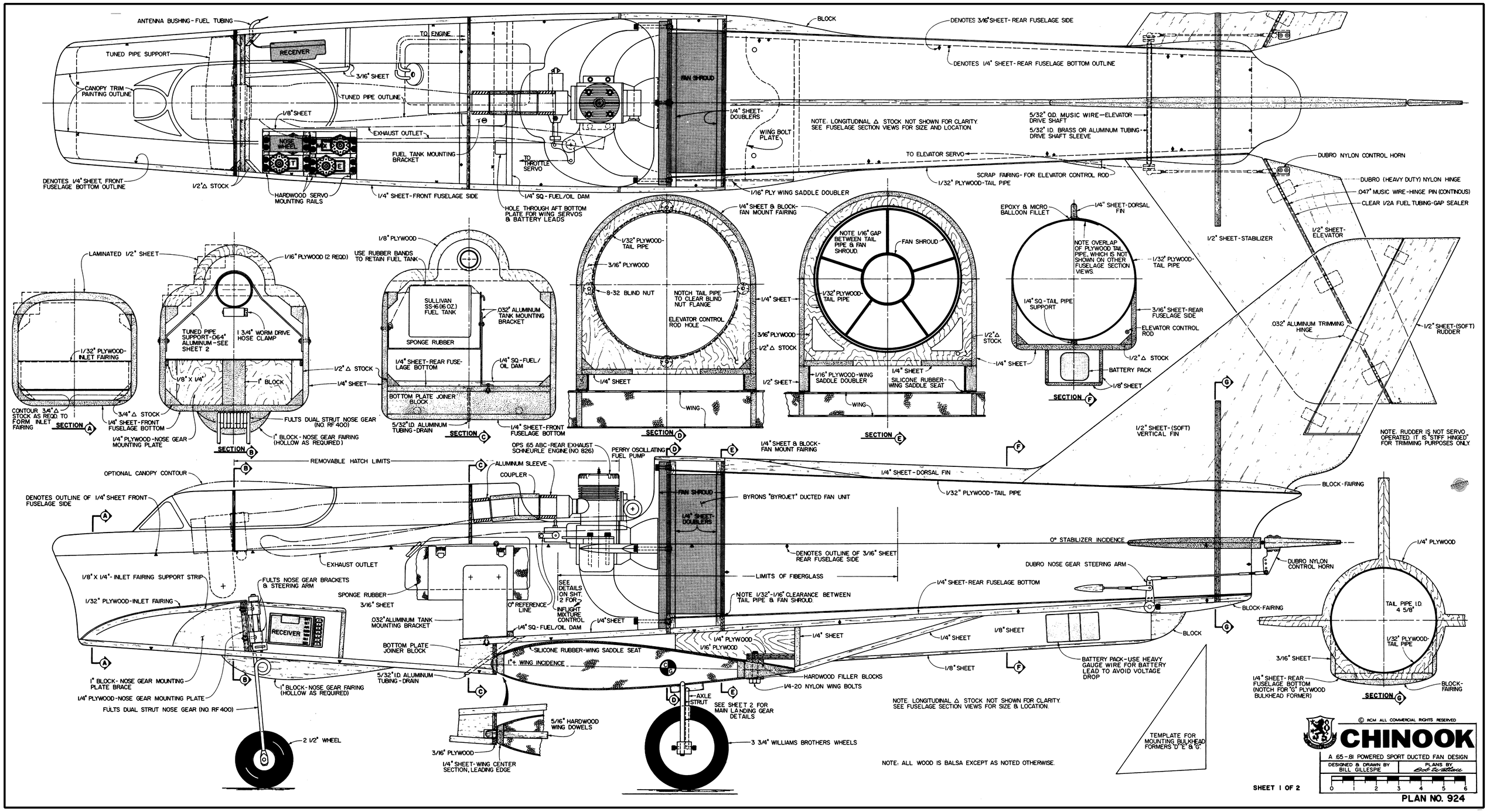
ANTENNA BUSHING-FUEL TUBING
TUNED PIPE SUPPORT
CANOPY TRIM PAINTING OUTLINE
RECEIVER
TO ENGINE
3/16" SHEET
TUNED PIPE OUTLINE
1/8" SHEET
NOSE WHEEL
EXHAUST OUTLET
FUEL TANK MOUNTING BRACKET
TO THROTTLE SERVO
FAN SHROUD
1/4" SHEET-DOUBLERS
WING BOLT PLATE
BLOCK
DENOTES 3/16" SHEET-REAR FUSELAGE SIDE
DENOTES 1/4" SHEET-REAR FUSELAGE BOTTOM OUTLINE
NOTE: LONGITUDINAL Δ STOCK NOT SHOWN FOR CLARITY. SEE FUSELAGE SECTION VIEWS FOR SIZE AND LOCATION.
5/32" O.D. MUSIC WIRE-ELEVATOR DRIVE SHAFT
5/32" I.D. BRASS OR ALUMINUM TUBING-DRIVE SHAFT SLEEVE
TO ELEVATOR SERVO
SCRAP FAIRING-FOR ELEVATOR CONTROL ROD
1/32" PLYWOOD-TAIL PIPE
DUBRO NYLON CONTROL HORN
DUBRO (HEAVY DUTY) NYLON HINGE
.047" MUSIC WIRE-HINGE PIN (CONTINOUS)
CLEAR 1/2A FUEL TUBING-GAP SEALER
DENOTES 1/4" SHEET, FRONT FUSELAGE BOTTOM OUTLINE
1/2" Δ STOCK
HARDWOOD SERVO MOUNTING RAILS
1/4" SHEET-FRONT FUSELAGE SIDE
1/4" SQ.-FUEL/OIL DAM
HOLE THROUGH AFT BOTTOM PLATE FOR WING SERVOS & BATTERY LEADS
1/16" PLY WING SADDLE DOUBLER
1/2" SHEET-STABILIZER
1/2" SHEET-ELEVATOR
LAMINATED 1/2" SHEET
1/32" PLYWOOD-INLET FAIRING
CONTOUR 3/4" Δ STOCK AS REQD. TO FORM INLET FAIRING
3/4" Δ STOCK
1/4" SHEET-FRONT FUSELAGE BOTTOM
SECTION A
1/16" PLYWOOD (2 REQD)
TUNED PIPE SUPPORT-.064" ALUMINUM-SEE SHEET 2
1 3/4" WORM DRIVE HOSE CLAMP
1/8" X 1/4"
1" BLOCK
1/2" Δ STOCK
1/4" SHEET
1/4" PLYWOOD-NOSE GEAR MOUNTING PLATE
FULTS DUAL STRUT NOSE GEAR (NO. RF 400)
1" BLOCK-NOSE GEAR FAIRING (HOLLOW AS REQUIRED)
SECTION B
1/8" PLYWOOD
USE RUBBER BANDS TO RETAIN FUEL TANK
SULLIVAN SS-16 (16 OZ.) FUEL TANK
SPONGE RUBBER
.032" ALUMINUM TANK MOUNTING BRACKET
1/4" SHEET-REAR FUSELAGE BOTTOM
1/4" SQ.-FUEL/OIL DAM
BOTTOM PLATE JOINER BLOCK
5/32" I.D. ALUMINUM TUBING-DRAIN
1/4" SHEET-FRONT FUSELAGE BOTTOM
SECTION C
1/32" PLYWOOD-TAIL PIPE
3/16" PLYWOOD
8-32 BLIND NUT
NOTCH TAIL PIPE TO CLEAR BLIND NUT FLANGE
ELEVATOR CONTROL ROD HOLE
1/4" SHEET
3/16" PLYWOOD
1/2" Δ STOCK
1/4" SHEET
WING
SECTION D
1/4" SHEET & BLOCK-FAN MOUNT FAIRING
NOTE 1/16" GAP BETWEEN TAIL PIPE & FAN SHROUD.
FAN SHROUD
1/32" PLYWOOD-TAIL PIPE
1/2" Δ STOCK
1/4" SHEET
1/16" PLYWOOD-WING SADDLE DOUBLER
1/4" SHEET
SILICONE RUBBER-WING SADDLE SEAT
WING
SECTION E
EPOXY & MICRO BALLOON FILLET
1/4" SHEET-DORSAL FIN
NOTE OVERLAP OF PLYWOOD TAIL PIPE, WHICH IS NOT SHOWN ON OTHER FUSELAGE SECTION VIEWS.
1/32" PLYWOOD-TAIL PIPE
1/4" SQ.-TAIL PIPE SUPPORT
3/16" SHEET-REAR FUSELAGE SIDE
ELEVATOR CONTROL ROD
1/2" Δ STOCK
BATTERY PACK
1/8" SHEET
SECTION F
.032" ALUMINUM TRIMMING HINGE
1/2" SHEET-(SOFT) RUDDER
1/2" SHEET-(SOFT) VERTICAL FIN
NOTE: RUDDER IS NOT SERVO OPERATED. IT IS "STIFF HINGED" FOR TRIMMING PURPOSES ONLY.
REMOVABLE HATCH LIMITS
OPTIONAL CANOPY CONTOUR
DENOTES OUTLINE OF 1/4" SHEET FRONT FUSELAGE SIDE
ALUMINUM SLEEVE
COUPLER
OPS .65 ABC-REAR EXHAUST SCHNEURLE ENGINE (NO 826)
PERRY OSCILLATING FUEL PUMP
1/4" SHEET & BLOCK-FAN MOUNT FAIRING
1/4" SHEET-DORSAL FIN
1/32" PLYWOOD-TAIL PIPE
BLOCK-FAIRING
FAN SHROUD
BYRONS "BYROJET" DUCTED FAN UNIT
1/4" SHEET-DOUBLERS
0° STABILIZER INCIDENCE
DENOTES OUTLINE OF 3/16" SHEET REAR FUSELAGE SIDE
1/4" PLYWOOD
DUBRO NYLON CONTROL HORN
EXHAUST OUTLET
1/8" X 1/4"-INLET FAIRING SUPPORT STRIP
FULTS NOSE GEAR BRACKETS & STEERING ARM
LIMITS OF FIBERGLASS
DUBRO NOSE GEAR STEERING ARM
1/4" SHEET-REAR FUSELAGE BOTTOM
1/32" PLYWOOD-INLET FAIRING
SPONGE RUBBER
3/16" SHEET
0° REFERENCE LINE
SEE DETAILS ON SHT. 2 FOR INFLIGHT MIXTURE CONTROL
NOTE 1/32"-1/16" CLEARANCE BETWEEN TAIL PIPE & FAN SHROUD.
BLOCK-FAIRING
TAIL PIPE I.D. 4 5/8"
.032" ALUMINUM TANK MOUNTING BRACKET
1/4" SQ.-FUEL/OIL DAM
1/4" SHEET
1/4" SHEET
1/8" SHEET
BLOCK
BOTTOM PLATE JOINER BLOCK
SILICONE RUBBER-WING SADDLE SEAT
1/4" PLYWOOD
1/16" PLYWOOD
1/32" PLYWOOD-TAIL PIPE
1" + WING INCIDENCE
1/8" SHEET
BATTERY PACK-USE HEAVY GAUGE WIRE FOR BATTERY LEAD TO AVOID VOLTAGE DROP
3/16" SHEET
1" BLOCK-NOSE GEAR MOUNTING PLATE BRACE
5/32" I.D. ALUMINUM TUBING-DRAIN
HARDWOOD FILLER BLOCKS
1/4" SHEET-REAR FUSELAGE BOTTOM (NOTCH FOR "G" PLYWOOD BULKHEAD FORMER)
BLOCK-FAIRING
SECTION G
1/4" PLYWOOD-NOSE GEAR MOUNTING PLATE
1" BLOCK-NOSE GEAR FAIRING (HOLLOW AS REQUIRED)
1/4-20 NYLON WING BOLTS
AXLE STRUT
SEE SHEET 2 FOR MAIN LANDING GEAR DETAILS
NOTE: LONGITUDINAL Δ STOCK NOT SHOWN FOR CLARITY. SEE FUSELAGE SECTION VIEWS FOR SIZE & LOCATION.
FULTS DUAL STRUT NOSE GEAR (NO. RF 400)
5/16" HARDWOOD WING DOWELS
2 1/2" WHEEL
3 3/4" WILLIAMS BROTHERS WHEELS
3/16" PLYWOOD
1/4" SHEET-WING CENTER SECTION, LEADING EDGE
TEMPLATE FOR MOUNTING BULKHEAD FORMERS "D" "E" & "G"
NOTE: ALL WOOD IS BALSA EXCEPT AS NOTED OTHERWISE.
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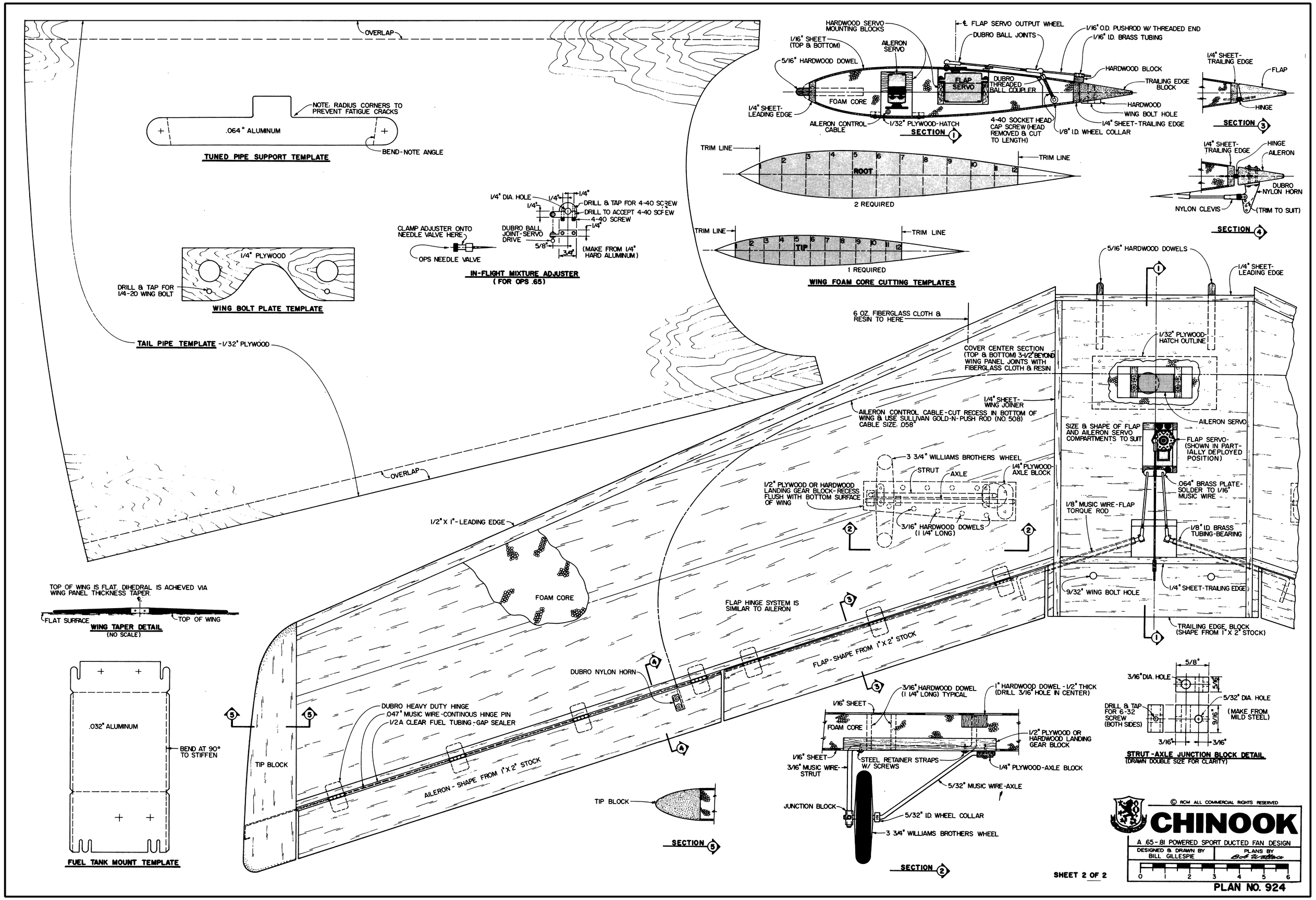
CHINOOK
A .65-.81 POWERED SPORT DUCTED FAN DESIGN
DESIGNED & DRAWN BY BILL GILLESPIE
PLANS BY Bob Wallace
0 1 2 3 4 5 6
SHEET 1 OF 2
PLAN NO. 924


OVERLAP
NOTE: RADIUS CORNERS TO PREVENT FATIGUE CRACKS
.064" ALUMINUM
BEND-NOTE ANGLE
TUNED PIPE SUPPORT TEMPLATE
1/4" PLYWOOD
DRILL & TAP FOR 1/4-20 WING BOLT
WING BOLT PLATE TEMPLATE
TAIL PIPE TEMPLATE -1/32" PLYWOOD
1/4" DIA. HOLE
DRILL & TAP FOR 4-40 SCREW
DRILL TO ACCEPT 4-40 SCREW
4-40 SCREW
CLAMP ADJUSTER ONTO NEEDLE VALVE HERE
DUBRO BALL JOINT-SERVO DRIVE
OPS NEEDLE VALVE
(MAKE FROM 1/4" HARD ALUMINUM)
IN-FLIGHT MIXTURE ADJUSTER
(FOR OPS .65)
HARDWOOD SERVO MOUNTING BLOCKS
℄ FLAP SERVO OUTPUT WHEEL
1/16" O.D. PUSHROD W/ THREADED END
1/16" I.D. BRASS TUBING
1/16" SHEET (TOP & BOTTOM)
AILERON SERVO
DUBRO BALL JOINTS
5/16" HARDWOOD DOWEL
FLAP SERVO
DUBRO THREADED BALL COUPLER
HARDWOOD BLOCK
TRAILING EDGE BLOCK
FOAM CORE
HARDWOOD
WING BOLT HOLE
1/4" SHEET-LEADING EDGE
AILERON CONTROL CABLE
1/32" PLYWOOD-HATCH
4-40 SOCKET HEAD CAP SCREW (HEAD REMOVED & CUT TO LENGTH)
1/4" SHEET-TRAILING EDGE
1/8" I.D. WHEEL COLLAR
SECTION 1
1/4" SHEET-TRAILING EDGE
FLAP
HINGE
SECTION 3
TRIM LINE
ROOT
2 REQUIRED
TIP
1 REQUIRED
WING FOAM CORE CUTTING TEMPLATES
1/4" SHEET-TRAILING EDGE
HINGE
AILERON
DUBRO NYLON HORN
NYLON CLEVIS
(TRIM TO SUIT)
SECTION 4
5/16" HARDWOOD DOWELS
1/4" SHEET-LEADING EDGE
6 OZ. FIBERGLASS CLOTH & RESIN TO HERE
1/32" PLYWOOD-HATCH OUTLINE
COVER CENTER SECTION (TOP & BOTTOM) 3-1/2" BEYOND WING PANEL JOINTS WITH FIBERGLASS CLOTH & RESIN
1/4" SHEET-WING JOINER
AILERON CONTROL CABLE-CUT RECESS IN BOTTOM OF WING & USE SULLIVAN GOLD-N-PUSH ROD (NO. 508) CABLE SIZE: .058"
AILERON SERVO
SIZE & SHAPE OF FLAP AND AILERON SERVO COMPARTMENTS TO SUIT
FLAP SERVO-(SHOWN IN PARTIALLY DEPLOYED POSITION)
3 3/4" WILLIAMS BROTHERS WHEEL
STRUT
AXLE
1/4" PLYWOOD-AXLE BLOCK
1/2" PLYWOOD OR HARDWOOD LANDING GEAR BLOCK-RECESS FLUSH WITH BOTTOM SURFACE OF WING
3/16" HARDWOOD DOWELS (1 1/4" LONG)
.064" BRASS PLATE-SOLDER TO 1/16" MUSIC WIRE
1/8" MUSIC WIRE-FLAP TORQUE ROD
1/8" I.D. BRASS TUBING-BEARING
1/2" X 1"-LEADING EDGE
9/32" WING BOLT HOLE
1/4" SHEET-TRAILING EDGE
TRAILING EDGE BLOCK (SHAPE FROM 1" X 2" STOCK)
TOP OF WING IS FLAT. DIHEDRAL IS ACHIEVED VIA WING PANEL THICKNESS TAPER.
FLAT SURFACE
TOP OF WING
WING TAPER DETAIL
(NO SCALE)
FOAM CORE
FLAP HINGE SYSTEM IS SIMILAR TO AILERON
FLAP-SHAPE FROM 1" X 2" STOCK
DUBRO NYLON HORN
.032" ALUMINUM
BEND AT 90° TO STIFFEN
FUEL TANK MOUNT TEMPLATE
DUBRO HEAVY DUTY HINGE
.047" MUSIC WIRE-CONTINOUS HINGE PIN
1/2A CLEAR FUEL TUBING-GAP SEALER
TIP BLOCK
AILERON - SHAPE FROM 1" X 2" STOCK
TIP BLOCK
SECTION 5
3/16" HARDWOOD DOWEL (1 1/4" LONG) TYPICAL
1" HARDWOOD DOWEL - 1/2" THICK (DRILL 3/16" HOLE IN CENTER)
1/16" SHEET
FOAM CORE
1/2" PLYWOOD OR HARDWOOD LANDING GEAR BLOCK
1/16" SHEET
3/16" MUSIC WIRE-STRUT
STEEL RETAINER STRAPS W/ SCREWS
1/4" PLYWOOD-AXLE BLOCK
5/32" MUSIC WIRE-AXLE
JUNCTION BLOCK
5/32" I.D. WHEEL COLLAR
3 3/4" WILLIAMS BROTHERS WHEEL
SECTION 2
5/8"
3/16" DIA. HOLE
5/16"
5/32" DIA. HOLE
DRILL & TAP FOR 6-32 SCREW (BOTH SIDES)
(MAKE FROM MILD STEEL)
9/16"
3/16"
3/16"
STRUT-AXLE JUNCTION BLOCK DETAIL
(DRAWN DOUBLE SIZE FOR CLARITY)
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CHINOOK
A .65-.81 POWERED SPORT DUCTED FAN DESIGN
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0 1 2 3 4 5 6
SHEET 2 OF 2
PLAN NO. 924