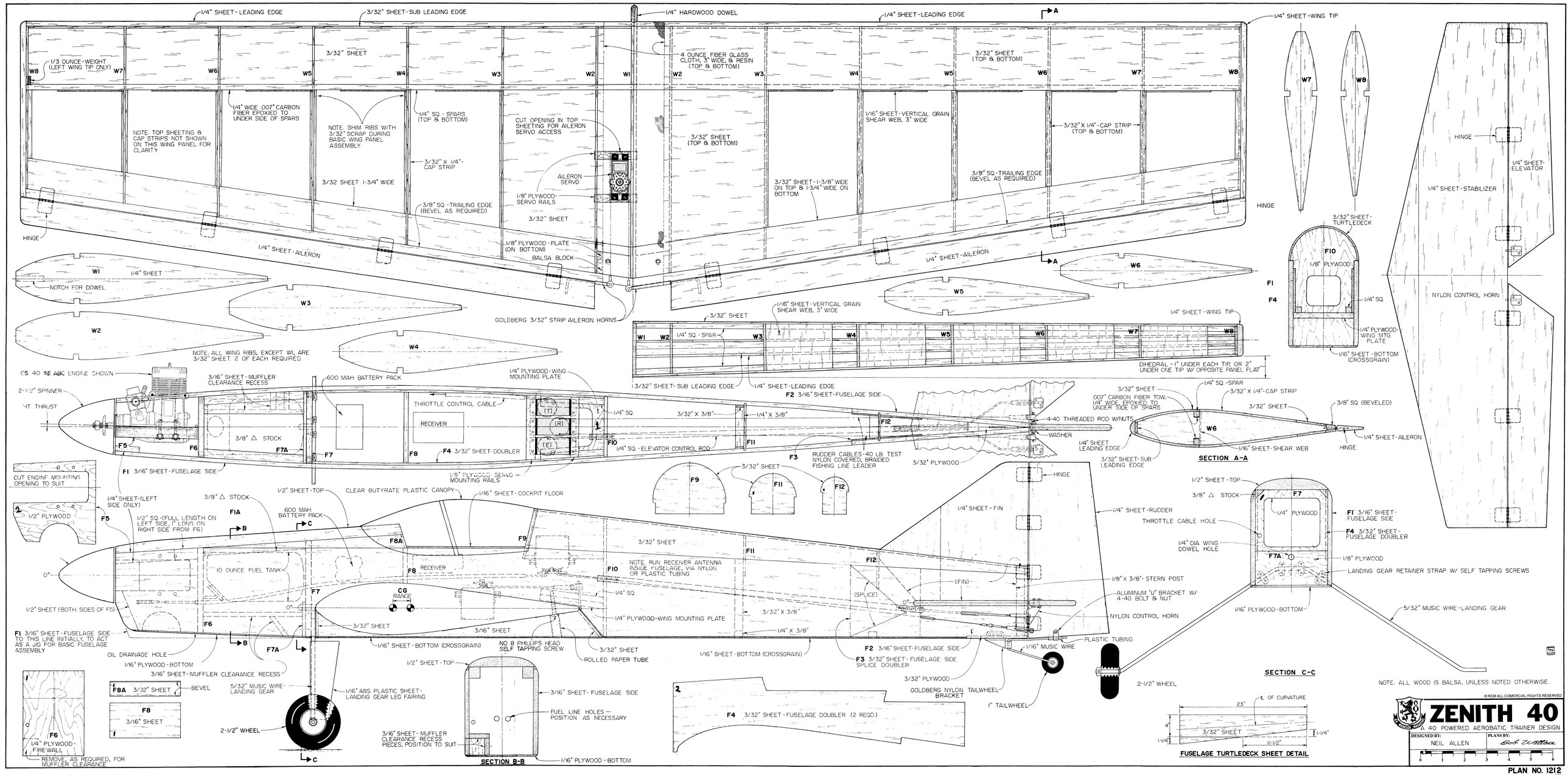
1/4" SHEET-LEADING EDGE
3/32" SHEET-SUB LEADING EDGE
1/4" HARDWOOD DOWEL
1/4" SHEET-LEADING EDGE
A
1/4" SHEET-WING TIP
1/3 OUNCE-WEIGHT (LEFT WING TIP ONLY)
W8
W7
W6
W5
W4
W3
W2
W1
3/32" SHEET
4 OUNCE FIBER GLASS CLOTH, 3" WIDE, & RESIN (TOP & BOTTOM)
3/32" SHEET (TOP & BOTTOM)
1/4" WIDE .007" CARBON FIBER EPOXIED TO UNDER SIDE OF SPARS
NOTE, TOP SHEETING & CAP STRIPS NOT SHOWN ON THIS WING PANEL FOR CLARITY
NOTE, SHIM RIBS WITH 3/32" SCRAP DURING BASIC WING PANEL ASSEMBLY
1/4" SQ - SPARS (TOP & BOTTOM)
CUT OPENING IN TOP SHEETING FOR AILERON SERVO ACCESS
1/16" SHEET-VERTICAL GRAIN SHEAR WEB, 3" WIDE
3/32" SHEET (TOP & BOTTOM)
3/32" X 1/4"-CAP STRIP (TOP & BOTTOM)
3/32" X 1/4"-CAP STRIP
3/32 SHEET 1-3/4" WIDE
AILERON SERVO
1/8" PLYWOOD-SERVO RAILS
3/8" SQ.-TRAILING EDGE (BEVEL AS REQUIRED)
3/32" SHEET
3/32" SHEET-1-3/8" WIDE ON TOP & 1-3/4" WIDE ON BOTTOM
3/8" SQ.-TRAILING EDGE (BEVEL AS REQUIRED)
HINGE
1/8" PLYWOOD-PLATE (ON BOTTOM)
BALSA BLOCK
1/4" SHEET-AILERON
1/4" SHEET-AILERON
GOLDBERG 3/32" STRIP AILERON HORNS
W1
1/4" SHEET
NOTCH FOR DOWEL
W3
W2
W4
W6
W5
NOTE, ALL WING RIBS, EXCEPT W1, ARE 3/32" SHEET. 2 OF EACH REQUIRED.
3/32" SHEET
1/16" SHEET-VERTICAL GRAIN SHEAR WEB, 3" WIDE
1/4" SQ - SPAR
1/4" SHEET-WING TIP
DIHEDRAL - 1" UNDER EACH TIP, OR 2" UNDER ONE TIP W/ OPPOSITE PANEL FLAT
3/32" SHEET-SUB LEADING EDGE
1/4" SHEET-LEADING EDGE
HINGE
3/32" SHEET-TURTLEDECK
F10
1/8" PLYWOOD
F1
F4
1/4" SQ.
1/4" PLYWOOD-WING MTG PLATE
1/16" SHEET-BOTTOM (CROSSGRAIN)
HINGE
1/4" SHEET-ELEVATOR
1/4" SHEET-STABILIZER
NYLON CONTROL HORN
CS 40 SE ABC ENGINE SHOWN
2-1/2" SPINNER
"HT THRUST
3/16" SHEET-MUFFLER CLEARANCE RECESS
600 MAH BATTERY PACK
1/4" PLYWOOD-WING MOUNTING PLATE
THROTTLE CONTROL CABLE
RECEIVER
(T)
(R)
(E)
1/4" SQ.
3/32" X 3/8"
1/4" X 3/8"
F2 3/16" SHEET-FUSELAGE SIDE
F12
4-40 THREADED ROD W/NUTS
WASHER
3/32" SHEET
.007" CARBON FIBER TOW, 1/4" WIDE EPOXIED TO UNDER SIDE OF SPARS
1/4" SQ.-SPAR
3/32" X 1/4"-CAP STRIP
3/32" SHEET
3/8" SQ. (BEVELED)
W6
1/4" SHEET LEADING EDGE
3/32" SHEET-SUB LEADING EDGE
1/16" SHEET-SHEAR WEB
HINGE
1/4" SHEET-AILERON
SECTION A-A
3/8" △ STOCK
F5
F6
F7A
F7
F8
F4 3/32" SHEET-DOUBLER
F10
1/4" SQ.-ELEVATOR CONTROL ROD
F11
F3
RUDDER CABLES-40 LB TEST NYLON COVERED, BRAIDED FISHING LINE LEADER
3/32" PLYWOOD
F1 3/16" SHEET-FUSELAGE SIDE
1/8" PLYWOOD-SERVO MOUNTING RAILS
F9
3/32" SHEET
F11
F12
CUT ENGINE MOUNTING OPENING TO SUIT
1/4" SHEET-(LEFT SIDE ONLY)
1/2" PLYWOOD
F5
3/8" △ STOCK
F1A
1/2" SHEET-TOP
CLEAR BUTYRATE PLASTIC CANOPY
1/16" SHEET-COCKPIT FLOOR
1/2" SQ.-(FULL LENGTH ON LEFT SIDE, 1" LONG ON RIGHT SIDE FROM F6)
600 MAH BATTERY PACK
B
C
F8A
F9
3/32" SHEET
F11
F12
HINGE
1/4" SHEET-FIN
1/4" SHEET-RUDDER
THROTTLE CABLE HOLE
1/4" DIA. WING DOWEL HOLE
F8 RECEIVER
10 OUNCE FUEL TANK
F10
NOTE, RUN RECEIVER ANTENNA INSIDE FUSELAGE, VIA NYLON OR PLASTIC TUBING
CG RANGE
F7
1/4" SQ.
(FIN)
(SPLICE)
1/8" X 3/8"-STERN POST
ALUMINUM "U" BRACKET W/ 4-40 BOLT & NUT
NYLON CONTROL HORN
1/2" SHEET (BOTH SIDES OF F5)
F6
3/32" SHEET
3/16" SHEET
1/4" PLYWOOD-WING MOUNTING PLATE
3/32" X 3/8"
1/4" X 3/8"
F1 3/16" SHEET-FUSELAGE SIDE TO THIS LINE INITIALLY, TO ACT AS A JIG FOR BASIC FUSELAGE ASSEMBLY
OIL DRAINAGE HOLE
1/16" PLYWOOD-BOTTOM
3/16" SHEET-MUFFLER CLEARANCE RECESS
F7A
1/16" SHEET-BOTTOM (CROSSGRAIN)
NO. 8 PHILLIPS HEAD SELF TAPPING SCREW
3/32" SHEET
ROLLED PAPER TUBE
1/16" SHEET-BOTTOM (CROSSGRAIN)
F2 3/16" SHEET-FUSELAGE SIDE
F3 3/32" SHEET-FUSELAGE SIDE SPLICE DOUBLER
1/16" MUSIC WIRE
PLASTIC TUBING
3/32" PLYWOOD
GOLDBERG NYLON TAILWHEEL BRACKET
1" TAILWHEEL
2-1/2" WHEEL
1/2" SHEET-TOP
3/8" △ STOCK
F7
1/4" PLYWOOD
F1 3/16" SHEET-FUSELAGE SIDE
F4 3/32" SHEET-FUSELAGE DOUBLER
1/8" PLYWOOD
LANDING GEAR RETAINER STRAP W/ SELF TAPPING SCREWS
1/16" PLYWOOD-BOTTOM
5/32" MUSIC WIRE-LANDING GEAR
SECTION C-C
NOTE, ALL WOOD IS BALSA, UNLESS NOTED OTHERWISE.
F6
1/4" PLYWOOD-FIREWALL
REMOVE, AS REQUIRED, FOR MUFFLER CLEARANCE
F8A 3/32" SHEET
BEVEL
F8
3/16" SHEET
5/32" MUSIC WIRE-LANDING GEAR
1/16" ABS PLASTIC SHEET-LANDING GEAR LEG FAIRING
2-1/2" WHEEL
C
1/2" SHEET-TOP
3/16" SHEET-FUSELAGE SIDE
FUEL LINE HOLES—POSITION AS NECESSARY
3/16" SHEET-MUFFLER CLEARANCE RECESS PIECES, POSITION TO SUIT
1/16" PLYWOOD-BOTTOM
SECTION B-B
F4 3/32" SHEET-FUSELAGE DOUBLER (2 REQD.)
23"
℄ OF CURVATURE
4"
3/32" SHEET
1-1/4"
11-1/2"
FUSELAGE TURTLEDECK SHEET DETAIL
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ZENITH 40
A 40 POWERED AEROBATIC TRAINER DESIGN
DESIGNED BY: NEIL ALLEN
PLANS BY: Bob Wallace
0 1 2 3 4 5 6
PLAN NO. 1212