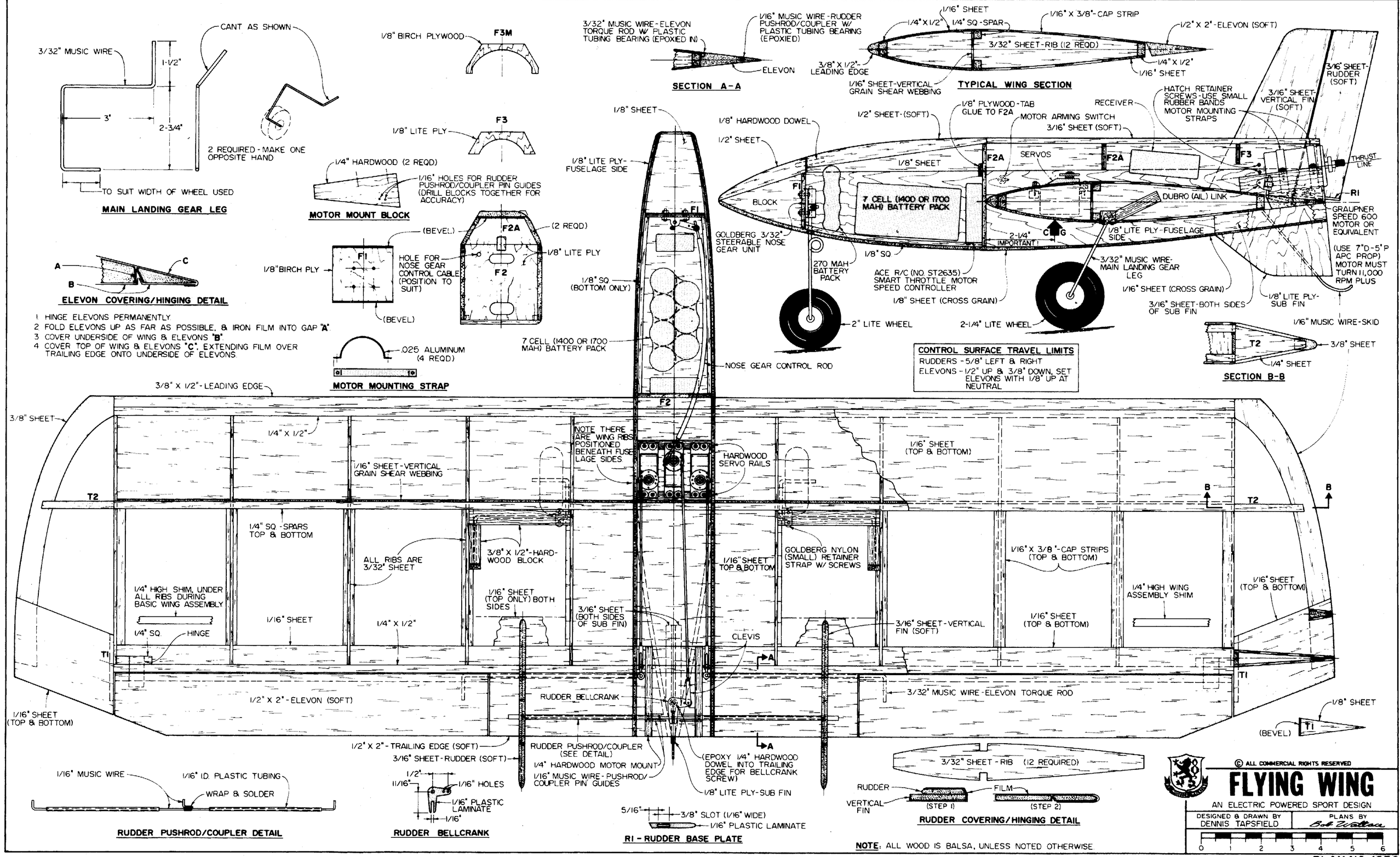
3/32" MUSIC WIRE
CANT AS SHOWN
1-1/2"
3"
2-3/4"
2 REQUIRED - MAKE ONE OPPOSITE HAND
TO SUIT WIDTH OF WHEEL USED
MAIN LANDING GEAR LEG
1/8" BIRCH PLYWOOD
F3M
1/8" LITE PLY
F3
1/4" HARDWOOD (2 REQD)
1/16" HOLES FOR RUDDER PUSHROD/COUPLER PIN GUIDES (DRILL BLOCKS TOGETHER FOR ACCURACY)
MOTOR MOUNT BLOCK
(BEVEL)
F2A
(2 REQD)
F1
HOLE FOR NOSE GEAR CONTROL CABLE (POSITION TO SUIT)
1/8" LITE PLY
1/8" BIRCH PLY
F2
(BEVEL)
A
C
B
ELEVON COVERING/HINGING DETAIL
1 HINGE ELEVONS PERMANENTLY
2 FOLD ELEVONS UP AS FAR AS POSSIBLE, & IRON FILM INTO GAP "A".
3 COVER UNDERSIDE OF WING & ELEVONS "B".
4 COVER TOP OF WING & ELEVONS "C", EXTENDING FILM OVER TRAILING EDGE ONTO UNDERSIDE OF ELEVONS.
.025 ALUMINUM (4 REQD)
MOTOR MOUNTING STRAP
3/32" MUSIC WIRE-ELEVON TORQUE ROD W/ PLASTIC TUBING BEARING (EPOXIED IN)
1/16" MUSIC WIRE-RUDDER PUSHROD/COUPLER W/ PLASTIC TUBING BEARING (EPOXIED)
ELEVON
SECTION A-A
1/16" SHEET
1/4" X 1/2"
1/4" SQ-SPAR
1/16" X 3/8"-CAP STRIP
1/2" X 2'-ELEVON (SOFT)
3/32" SHEET-RIB (12 REQD)
3/8" X 1/2"-LEADING EDGE
1/4" X 1/2"
1/16" SHEET
1/16" SHEET-VERTICAL GRAIN SHEAR WEBBING
TYPICAL WING SECTION
3/16" SHEET-RUDDER (SOFT)
HATCH RETAINER SCREWS-USE SMALL RUBBER BANDS
RECEIVER
3/16" SHEET-VERTICAL FIN (SOFT)
MOTOR MOUNTING STRAPS
1/8" PLYWOOD-TAB GLUE TO F2A
MOTOR ARMING SWITCH
1/2" SHEET-(SOFT)
3/16" SHEET (SOFT)
1/8" SHEET
1/8" HARDWOOD DOWEL
1/2" SHEET
1/8" LITE PLY-FUSELAGE SIDE
F2A
SERVOS
F2A
F3
THRUST LINE
F1
BLOCK
7 CELL (1400 OR 1700 MAH) BATTERY PACK
DUBRO (AIL) LINK
R1
GRAUPNER SPEED 600 MOTOR OR EQUIVALENT
GOLDBERG 3/32" STEERABLE NOSE GEAR UNIT
2-1/4" (IMPORTANT!)
C.G.
1/8" LITE PLY-FUSELAGE SIDE
(USE 7"D-5"P APC PROP) MOTOR MUST TURN 11,000 RPM PLUS
1/8" SQ
270 MAH BATTERY PACK
3/32" MUSIC WIRE-MAIN LANDING GEAR LEG
ACE R/C (NO ST2635) SMART THROTTLE MOTOR SPEED CONTROLLER
1/16" SHEET (CROSS GRAIN)
1/8" SHEET (CROSS GRAIN)
3/16" SHEET-BOTH SIDES OF SUB FIN
1/8" LITE PLY-SUB FIN
2" LITE WHEEL
2-1/4" LITE WHEEL
1/8" SHEET
1/8" SQ (BOTTOM ONLY)
7 CELL (1400 OR 1700 MAH) BATTERY PACK
NOSE GEAR CONTROL ROD
CONTROL SURFACE TRAVEL LIMITS
RUDDERS - 5/8" LEFT & RIGHT
ELEVONS - 1/2" UP & 3/8" DOWN, SET ELEVONS WITH 1/8" UP AT NEUTRAL
1/16" MUSIC WIRE-SKID
T2
3/8" SHEET
1/4" SHEET
SECTION B-B
3/8" X 1/2"-LEADING EDGE
MOTOR MOUNTING STRAP
3/8" SHEET
1/4" X 1/2"
NOTE THERE ARE WING RIBS POSITIONED BENEATH FUSELAGE SIDES
HARDWOOD SERVO RAILS
1/16" SHEET (TOP & BOTTOM)
1/16" SHEET-VERTICAL GRAIN SHEAR WEBBING
T2
B
B
T2
1/4" SQ-SPARS TOP & BOTTOM
ALL RIBS ARE 3/32" SHEET
3/8" X 1/2"-HARDWOOD BLOCK
1/16" SHEET TOP & BOTTOM
GOLDBERG NYLON (SMALL) RETAINER STRAP W/ SCREWS
1/16" X 3/8"-CAP STRIPS (TOP & BOTTOM)
1/4" HIGH SHIM, UNDER ALL RIBS DURING BASIC WING ASSEMBLY
1/16" SHEET (TOP ONLY) BOTH SIDES
3/16" SHEET (BOTH SIDES OF SUB FIN)
1/4" HIGH WING ASSEMBLY SHIM
1/16" SHEET (TOP & BOTTOM)
1/16" SHEET (TOP & BOTTOM)
1/16" SHEET (TOP & BOTTOM)
1/4" SQ.
HINGE
1/16" SHEET
1/4" X 1/2"
CLEVIS
3/16" SHEET-VERTICAL FIN (SOFT)
A
T1
T1
1/2" X 2"-ELEVON (SOFT)
RUDDER BELLCRANK
3/32" MUSIC WIRE-ELEVON TORQUE ROD
1/16" SHEET (TOP & BOTTOM)
1/8" SHEET
(BEVEL)
T1
1/2" X 2"-TRAILING EDGE (SOFT)
3/16" SHEET-RUDDER (SOFT)
RUDDER PUSHROD/COUPLER (SEE DETAIL)
1/4" HARDWOOD MOTOR MOUNT
1/16" MUSIC WIRE-PUSHROD/COUPLER PIN GUIDES
(EPOXY 1/4" HARDWOOD DOWEL INTO TRAILING EDGE FOR BELLCRANK SCREW)
A
1/8" LITE PLY-SUB FIN
1/16" MUSIC WIRE
1/16" I.D. PLASTIC TUBING
WRAP & SOLDER
RUDDER PUSHROD/COUPLER DETAIL
1/2"
11/16"
1/16" HOLES
1/16" PLASTIC LAMINATE
1/16"
RUDDER BELLCRANK
5/16"
3/8" SLOT (1/16" WIDE)
1/16" PLASTIC LAMINATE
R1 - RUDDER BASE PLATE
3/32" SHEET - RIB (12 REQUIRED)
RUDDER
VERTICAL FIN
FILM
(STEP 1)
(STEP 2)
RUDDER COVERING/HINGING DETAIL
NOTE: ALL WOOD IS BALSA, UNLESS NOTED OTHERWISE.
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FLYING WING
AN ELECTRIC POWERED SPORT DESIGN
DESIGNED & DRAWN BY DENNIS TAPSFIELD
PLANS BY Bob Walton
0 1 2 3 4 5 6
PLAN NO. 1258