8swg STEELWWIRE U/C LEGS - 1 PR. REQ.D. FORM OVER THIS PATTERN NO FORWARD RAKE REQUIRED

16/◎/swg TAILWHEEL WIRE - EPOXY INTO FUSELAGE AFTER FILM COVERING

3/4"ø TAILWHEEL

R1,R2 - 1/8" BALSA
R3 - R10 1/16" BALSA

2½" -60mmø LIGHTWEIGHT MAIN WHEELS

TIP RIB PATTERN

ORIGINAL RIB PATTERNS CUT FROM SCRAP FORMICA - DO NOT CUT SPAR SLOTS INTO PATTERNS (REFER TO CONSTRUCTION NOTES)

2¾" >2½"(SEE NOTES)

ROOT RIB PATTERN

COCKPIT CANOPY PATTERN
CUT CANOPY FROM 1mm CLEAR VYNAL SHEET SCORE FOLD LINE BEFORE BENDING

F4 - 1/8" BALSA

F3 - 1/8" BALSA

REFER TO CONSTRUCTION NOTES FOR FORMERS F2A, F5, F6, & F7

F2 - 3/16" BIRCH PLY

NOTE: FORMERS F5, F6, & F7 ARE NOT SHOWN ON THE PLAN.
MEASURE AND CUT THEM TO SUIT AS YOU GO. THESE ARE SIMILAR IN SHAPE TO F4 WITH PLAIN SIDES; SIDE STRINGERS ARE CUT IN LATER.

F1 - 3/16"BIRCH PLY

3/16"BALSA

SELECTED HINGES SIG EASY HINGES USED ON PROTOTYPE

HARDWOOD DOWEL CONNECTOR

3/16" SOFT BALSA ELEVATOR

3/16"□ BALSA FIN & STABILISER FRAMING

F1 F2A F3 F4 F5 F6. F7.

1/8" BALSA TOP & SIDE SHEETING AT NOSE

4oz. TANK

R.X.

3 SERVOS IN LITEPLY TRAY

1/8" COCKPIT "FLOOR"

NICAD PACK

F2

1/16" VERTICAL GRAIN DOUBLERS IN 4 BAYS EACH SIDE SHOWN △

TRIANGULAR BALSA BRACING

DOWEL EPOXIED INTO PINE BLOCK

PINE BLOCK

HATCH IN THIS AREA

2 3/16"ø BSW GUTTER BOLTS RETAIN WING

1/16"PLYHATCH ANCHOR TABS

8swg TORSION BAR U/C LEGS LOCATED IN PLY CHANNEL

NOTE PROTOTYPE MODEL SET UP :- 0° - 0° -0° NO DOWN OR SIDETHRUST

3/16"□ TURTLE DECK STRINGERS LET INTO FORMERS

STABILISER POSITION

3/16" BALSA SHEET "WEDGE" ON TOP OF STABILISER EACH SIDE OF FIN TO PROVIDE FINISHING SURFACE FOR COVERING

FRAME FIN OVER PLAN
NOTE DOUBLE RAIL AT TURTLEDECK SLOT TO PROVIDE ANCHOR SURFACE FOR FILM COVERING. FIN BOTTOM RAIL LOCATES IN TOP OF STABILISER.

1/2" 1/4"

U/C CHANNEL - 1/2"x1/4" PINE 3 PIECES 6"LONG

2" 3/4"

WING HOLD DOWN BLOCKS - 1 PAIR REQUIRED EPOXY IN PLACE, TAPPED 3/16" BSW AFTER WING LOCATED MAKE FROM 1"PINE

3/16"□ DIAGONAL BRACING TOP & BOTTOM OF FUSELAGE BOX

1/16"VERTICAL GRAIN DOUBLERS IN 4 BAYS EACH SIDE BEFORE SIDES JOINED

1/16" BALSA FUSELAGE SHEETING WITHIN AREA DEFINED WITH A ▲ ON SIDE ELEVATION

3/16"x1/16" STRIPS AT TOP & BOTTOM FUSELAGE RAILS FAIRED TO PROVIDE FINISH

FUSELAGE FRAMING GENERALLY 3/16"□ MEDIUM BALSA STICKS

MODEL WORLD
MW3015
Pterobat Jnr
Designed by Alan Wooster
A 48" span low-wing sports design for .25 size engines and 4 function R/C
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WING DOWEL EPOXIED INTO PINE BLOCK

3/8" SOFT LEADING EDGE SHAPED AFTER BEING GLUED INTO PLACE

1/8" BALSA FALSE LEADING EDGE

1/2"SOFT BALSA WINGTIPS

1/16" SOFT BALSA SHEETING TOP & BOTTOM

AILERON SERVO POSITION

1/8"BIRCH PLY SPAR DOUBLER (SEE NOTES)

3/16"□ PINE SPARS TOP & BOTTOM

1/16" VERTICAL GRAIN BALSA SHEAR WEBS

1/16" SOFT BALSA SHEETING

1/16"x1/4" SOFT BALSA CAP STRIPS

PINE WING ANCHOR BLOCK

SIG. EASY HINGES USED THROUGHOUT

1"x1/4" PRE-SHAPED BALSA AILERON

DU-BRO TORQUE ROD USED ON PROTOTYPE

1/4"□ BALSA TRAILING EDGE

3/4"oz. GLASS CLOTH REINFORCING TOP & BOTTOM OVER CENTRE SECTION

1/16" SOFT BALSA TRAILING EDGE SHEETING

R1 R2 R3 R4 R5 R6 R7 R8 R9 R10

2" TOTAL DIHEDRAL AT TIP

WING SEAT 2off. 3/16" BALSA

2" DIA.

NOSERING 1off.

TURTLE DECK TOP RAIL
1/8" MEDIUM/HARD BALSA

3/16"□ MED./ SOFT BALSA.

RUDDER 3/16" MED./SOFT BALSA

OS25FX

3/8"SOFT BALSA SIDE CHEEKS

F1

NOSE RING

3/8" SOFT BALSA BOTTOM
PLUS 1/2" SOFT BALSA REINFORCEMENTS IN ALL CORNERS

EX. 1/2" SOFT BALA TRIANGLES INTO INTERIOR CORNERS

F1

NOSE RING

3/8" SOFT BALSA SIDE CHEEKS

PLAN NOSE DETAIL