

WingBat P+

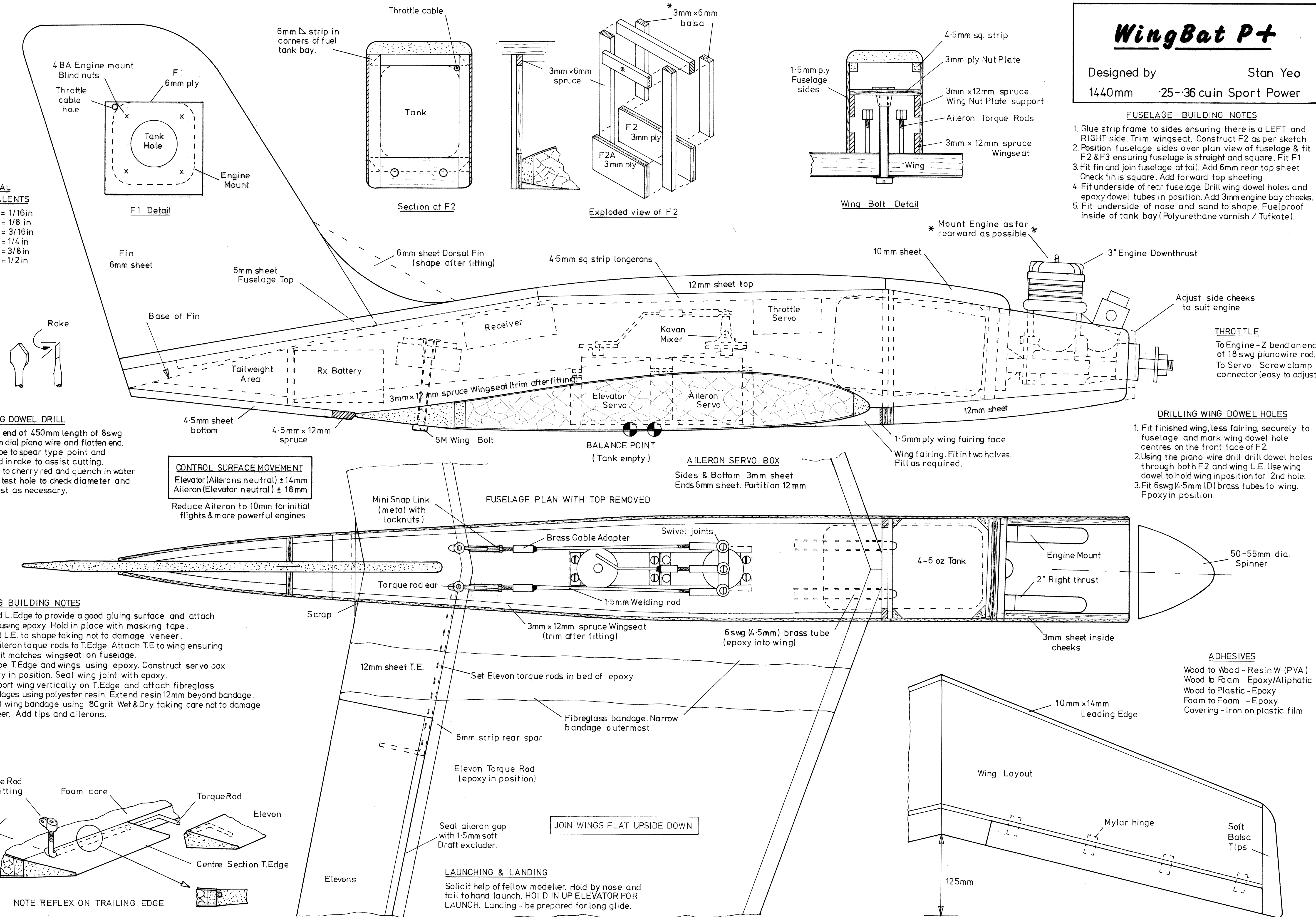
Designed by Stan Yeo
1440mm 25-36 cuin Sport Power

FUSELAGE BUILDING NOTES

1. Glue strip frame to sides ensuring there is a LEFT and RIGHT side. Trim wingseat. Construct F2 as per sketch.
2. Position fuselage sides over plan view of fuselage & fit F2 & F3 ensuring fuselage is straight and square. Fit F1.
3. Fit fin and join fuselage at tail. Add 6mm rear top sheet. Check fin is square. Add forward top sheeting.
4. Fit underside of rear fuselage. Drill wing dowel holes and epoxy dowel tubes in position. Add 3mm engine bay cheeks.
5. Fit underside of nose and sand to shape. Fuelproof inside of tank bay (Polyurethane varnish / Tufkote).

IMPERIAL EQUIVALENTS

- 1.5mm = 1/16in
- 3.0mm = 1/8 in
- 4.5mm = 3/16in
- 6.0mm = 1/4 in
- 10mm = 3/8in
- 12mm = 1/2in



WING BOLT DETAIL
* Mount Engine as far rearward as possible *

10mm sheet
3° Engine Downthrust
Adjust side cheeks to suit engine

THRITTLE
To Engine - Z bend on end of 18 swg pianowire rod.
To Servo - Screw clamp connector (easy to adjust)

DRILLING WING DOWEL HOLES

1. Fit finished wing, less fairing, securely to fuselage and mark wing dowel hole centres on the front face of F2.
2. Using the piano wire drill drill dowel holes through both F2 and wing L.E. Use wing dowel to hold wing in position for 2nd hole.
3. Fit 6swg (4.5mm I.D.) brass tubes to wing. Epoxy in position.

CONTROL SURFACE MOVEMENT
Elevator (Ailerons neutral) ± 14mm
Aileron (Elevator neutral) ± 18mm
Reduce Aileron to 10mm for initial flights & more powerful engines

WING DOWEL DRILL

1. Heat end of 450mm length of 8swg (4mm dia) piano wire and flatten end.
2. Shape to spear type point and grind in rake to assist cutting.
3. Heat to cherry red and quench in water
4. Drill test hole to check diameter and adjust as necessary.

WING BUILDING NOTES

1. Sand L.Edge to provide a good gluing surface and attach L.E. using epoxy. Hold in place with masking tape.
2. Sand L.E. to shape taking not to damage veneer.
3. Fit aileron torque rods to T.Edge. Attach T.E to wing ensuring that it matches wingseat on fuselage.
4. Shape T.Edge and wings using epoxy. Construct servo box epoxy in position. Seal wing joint with epoxy.
5. Support wing vertically on T.Edge and attach fibreglass bandages using polyester resin. Extend resin 12mm beyond bandage.
6. Sand wing bandage using 80 grit Wet & Dry, taking care not to damage veneer. Add tips and ailerons.

ADHESIVES
Wood to Wood - Resin W (PVA)
Wood to Foam - Epoxy/Aliphatic
Wood to Plastic - Epoxy
Foam to Foam - Epoxy
Covering - Iron on plastic film

LAUNCHING & LANDING
Solicit help of fellow modeller. Hold by nose and tail to hand launch. HOLD IN UP ELEVATOR FOR LAUNCH. Landing - be prepared for long glide.

JOIN WINGS FLAT UPSIDE DOWN