

WingBat

Designed by Stan Yeo
1125mm span Fun Aerobatic Slope Soarer

All wood balsa unless otherwise stated

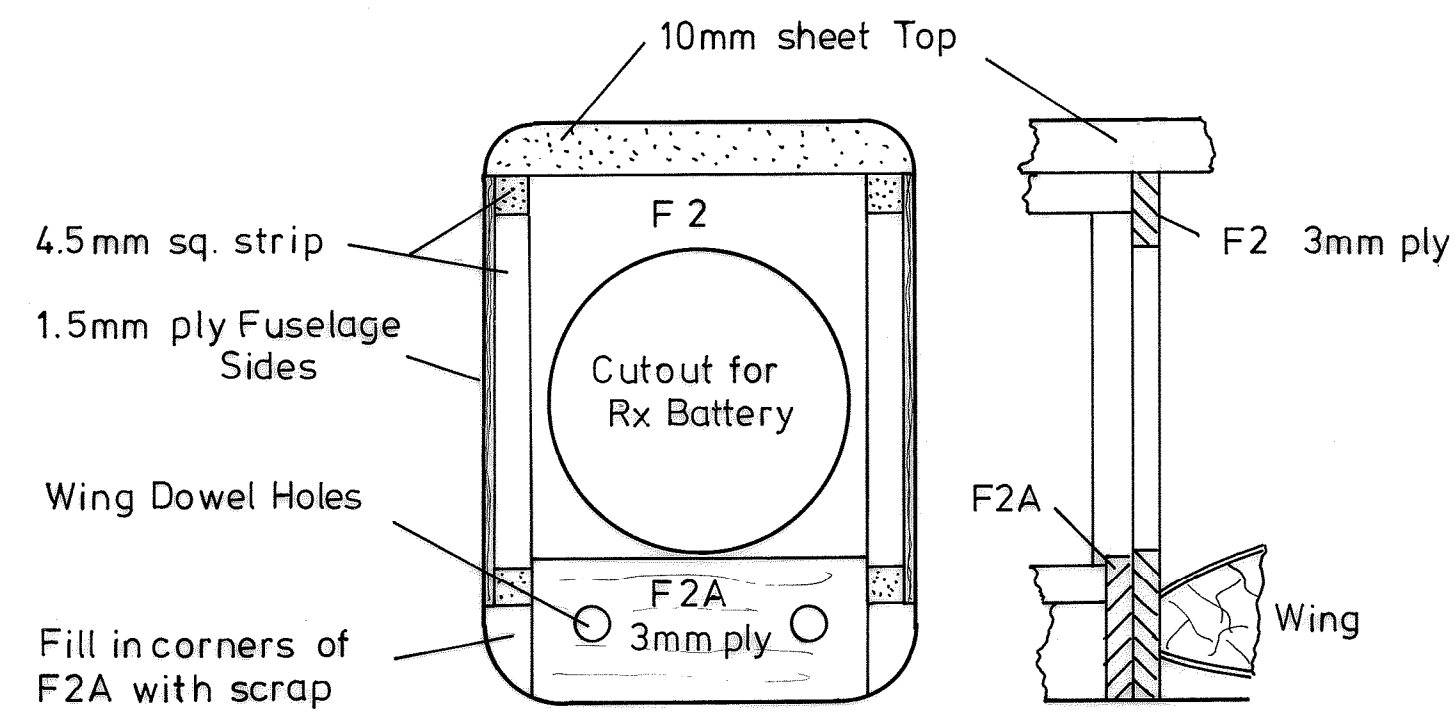
IMPERIAL EQUIVALENTS

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

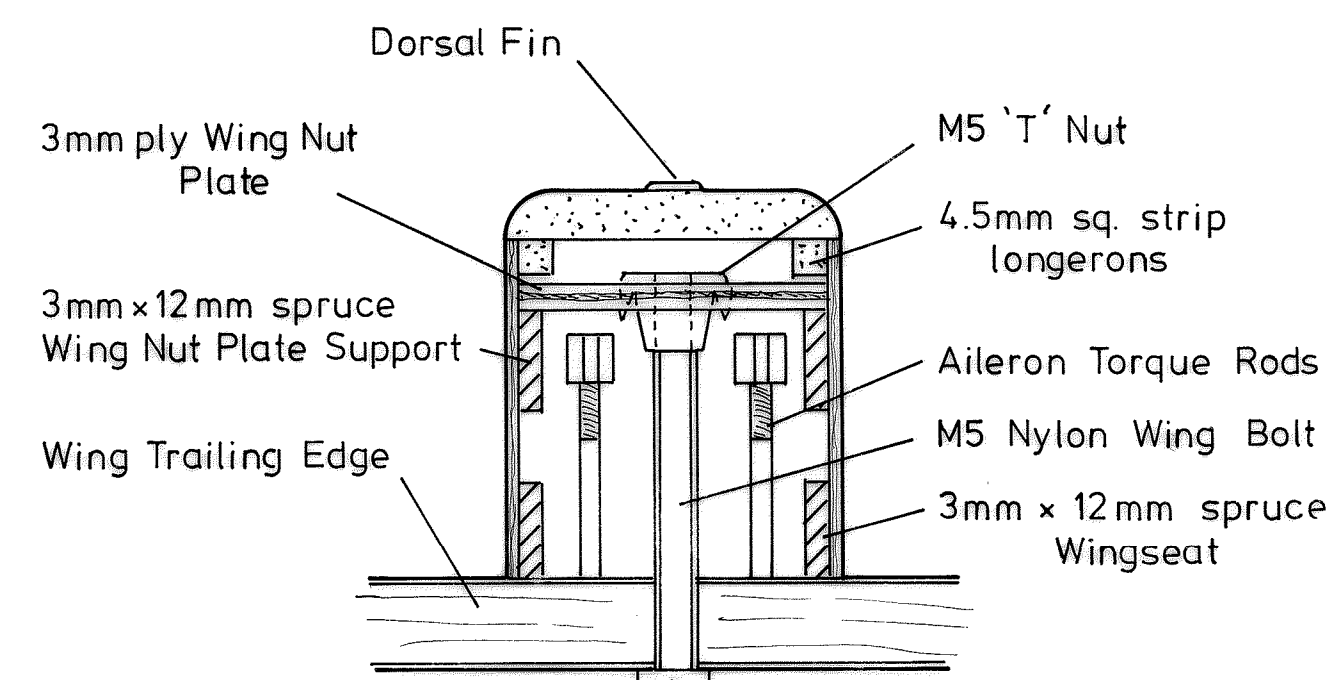
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ADHESIVES

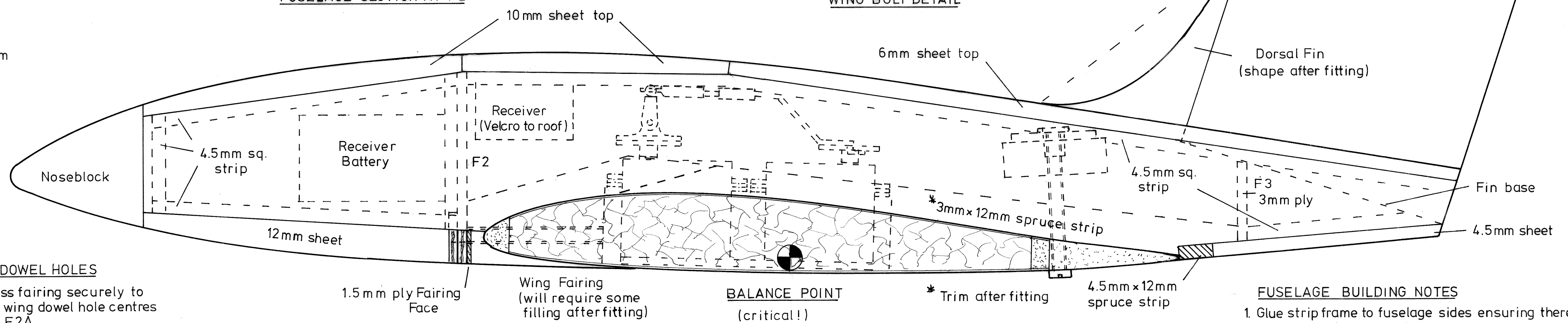
- Wood to Wood - Resin W (PVA)
- Wood to Foam - Epoxy
- Wood to Plastic - Epoxy
- Covering - Iron-On Plastic film



FUSELAGE SECTION AT F2



WING BOLT DETAIL



DRILLING WING DOWEL HOLES

1. Fit finished wing, less fairing securely to fuselage and mark wing dowel hole centres on the front face of F2A.
2. Using the piano wire drill, drill dowel holes through both F2 and wing LE. Use wing dowel to hold wing in position for 2nd hole.
3. Fit 6swg (4.5mm i.d.) brass tubes to wing (back to Aileron servo box). Epoxy in position.

LAUNCHING

Hold by the nose and throw in a straight & level attitude

FUSELAGE BUILDING NOTES

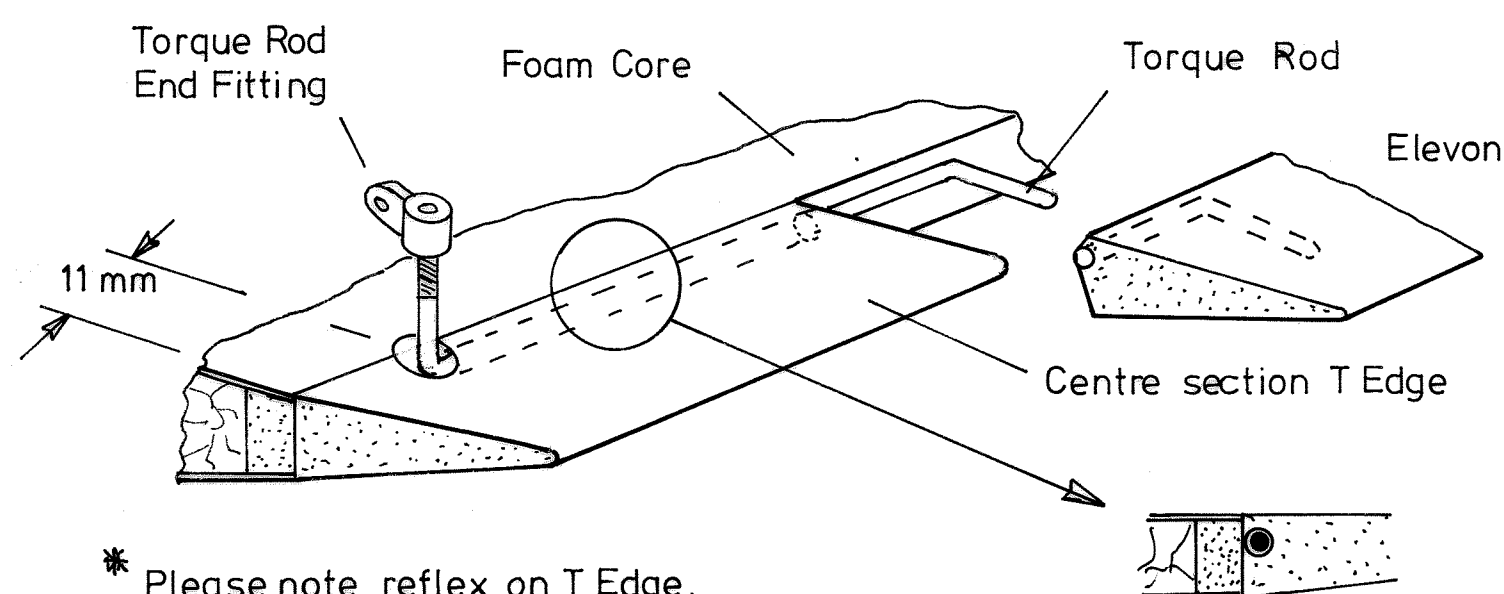
1. Glue strip frame to fuselage sides ensuring there is a LEFT and RIGHT side. Trim wingseat.
2. Position fuselage sides over plan view of fuselage and fit F1 & F2 ensuring fuselage is straight & square. Fit F1
3. Fit fin and join fuselage at tail. Add 6mm rear top sheet. Check fin is square. Add 10mm top sheeting & dorsal fin.
4. Glue F2A to F2 and fit rear fuselage underside.
5. Drill wing dowel holes and fit dowel tubes.
6. Fit underside of nose and noseblock. Shape fuselage and smooth using 180 grit Wet & Dry.

WING BUILDING NOTES

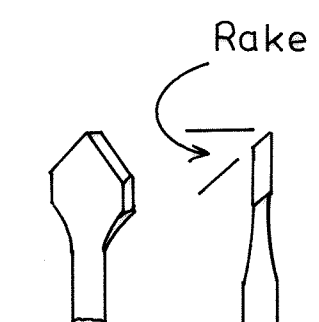
1. Sand wing LE edges to provide a good gluing area and attach LE using epoxy and masking tape to hold in position.
2. Sand LE to shape using 180 grit Wet & Dry sanding block.
3. Fit aileron torque rods to TE centre section and epoxy in position. Grease torque rod to prevent sticking.
4. Sand TE to shape and join wings using epoxy.
5. Construct servo boxes in wing and epoxy in position. Check wing joint is sealed with epoxy to prevent polyester resin damage.
6. Support wing vertically on trailing edge and attach fibreglass bandages using polyester resin. Extend resin 12mm beyond bandage.
7. Sand wing bandage using 80 grit Wet & Dry taking care not to sand veneer. Add Tips.

CONTROL SURFACE MOVEMENTS

- Elevator ± 8mm
- Ailerons Neutral
- Ailerons ± 10mm
- Elevator Neutral



* Please note reflex on T Edge. Elevons require additional 1.5mm Reflex.



WING DOWEL DRILL

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

