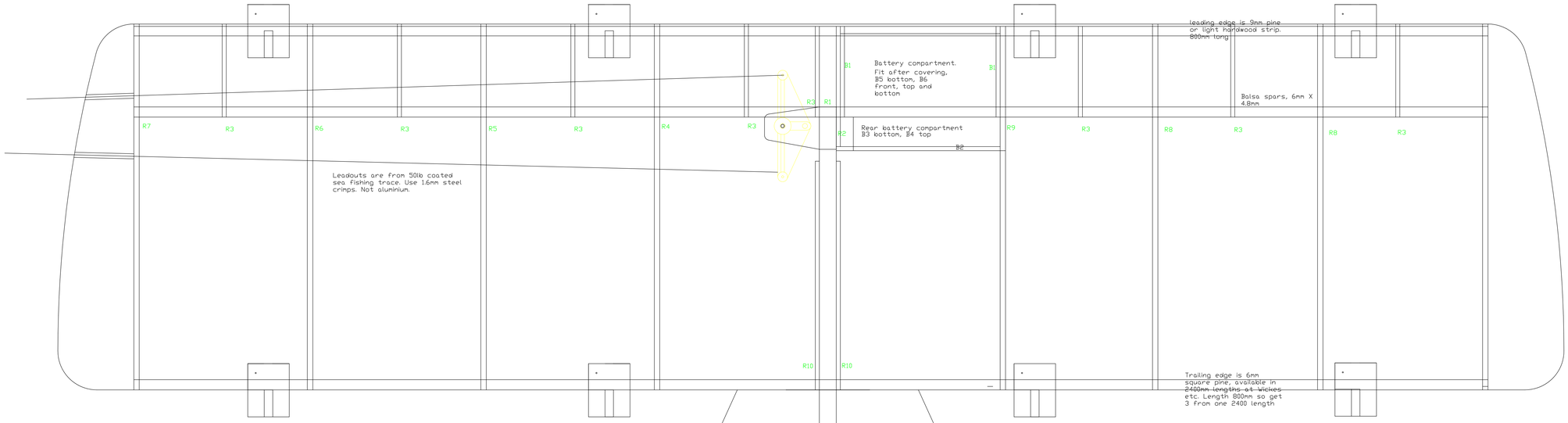
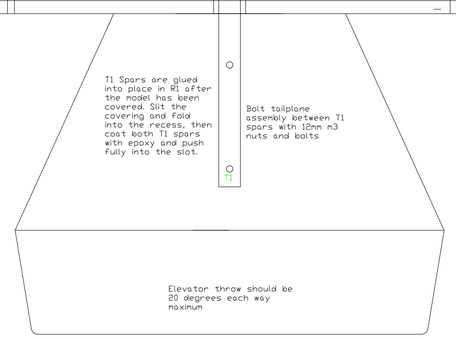
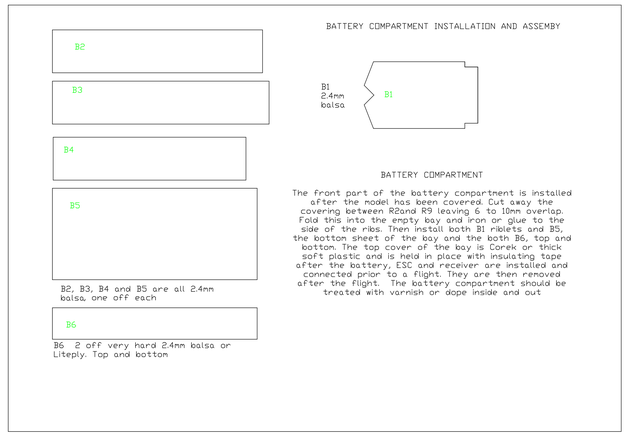




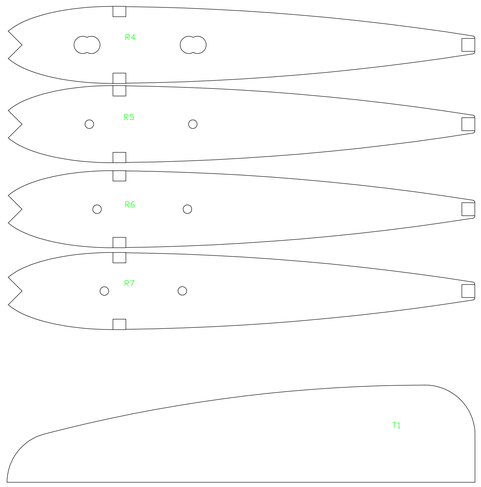
The tailplane and elevator assembly is made fro one piece of 4mm Corex, corrugated plasticmatetial used for signs. To make the hinge, mark the hinge line on the bottom, and with a scalpel, remove the plastic strip between the walls of the bottom layer only. This will be a 1 or 2mm strip of thin plastic. The hinge can be strengthened with a strip of tape if required. The control horn can be screwed directly to the Corex Elevator



INSTALLING THE BATTERY, ESC AND RECEIVER PRE FLIGHT

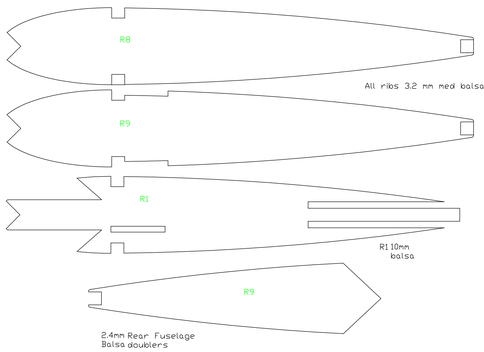
The ESC is installed first, pull the 3 motor wires and connectors through the gap at B4, and push the ESC against the rear wall of the compartment B2,. Then plug the reciever into the ESC and place the receiver on the outboard side of the compartment with the plug facing rearward against the ESC The plug will now be facing backward in the rear outboard corner of the bay. Route the antenna through the gap by the ESC wires. The battery should be placed flat into the bay with the charge port and wires against the centre rib. The wires exiting the battery should be at the front. Tuck the charge port into the gap by the centre rib. Route the wires around the gap between the ESC and the battery and connect the XT60 connectors. The front side of the battery needs to be tight against the back of the leading edge. If there is any movement, use pieces of foam in the gap between the ESC and rear of the battery to push the battery forward. This is important to maintain the correct CG in flight. The cover of the battery compartment can now be fitted and taped into place with strips of insulating tape.

PRE Flight, connect the bullet connectors between the motor and the ESC and CHECK ROTATION. The motor is 3 phase, if it rotates the wrong direction, change two of the connections.



T1 2 off 6mm or 4.8mm soft balsa. Drill for plastic leadout guides after glueing in position

T1 2 required, 3mm bass or spruce



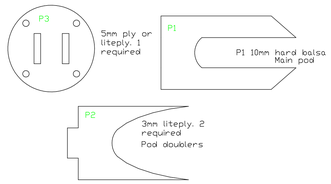
All ribs 3.2 mm med balsa

R2 from 2.4mm balsa. 1 required

R3 drom 2.4mm balsa. Relieve inboard riblets for leadout clearance

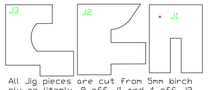
Bellcrank mount cut from 3mm birch ply. Epoxy in place and the secure by a 3mm bamboo dowel

MOTOR MOUNT POD ASSEMBLY AND INSTALLATION



MOTOR POD

The Pod components should be pre assembled using epoxy glue and left to completely cure. The balsa core, P1 has 2 liteply doublers glued to the sides and the motor mount P3 is glued to the face locating on the 2 stubs. The pod is fitted after the model has been covered. Cut away the covering in front of the spar leaving 4 or 5mm overlap, fold into the recess and iron or glue the covering to the sides of the recess. The pod can then be pushed fully home into the recess using epoxy glue. Leave to fully cure and then bolt the motor to the Ply motor mount using 10mm M3 nuts and bolts. The wires and bullet connectors from the motor should be pointing upwards once the motor is installed.



All Jig pieces are cut from 5mm birch ply or liteply, 8 off J1 and 4 off J2 and J3

If more than one model is to be constructed, the Jigs will make construction much quicker whilst ensuring accuracy. The J2 pieces are for the trailing edge and the J3 pieces are for the Leading edge. Each of the J2 and J3 pieces will need to be glued into a J1 base piece. The plan should be taped or pasted to a hard board such as MDF and the Jigs then screwed into position using 10mm screws. The model can be assembled "dry" and then glued with cyano whilst in position. Once the model is rigid, it can be lifted from the jig by rotating the front jig pieces on the screw pivot

Hawk E4

Combat Model for Electric Class One Combat

By Hobbins Hobbies

Jan 2026