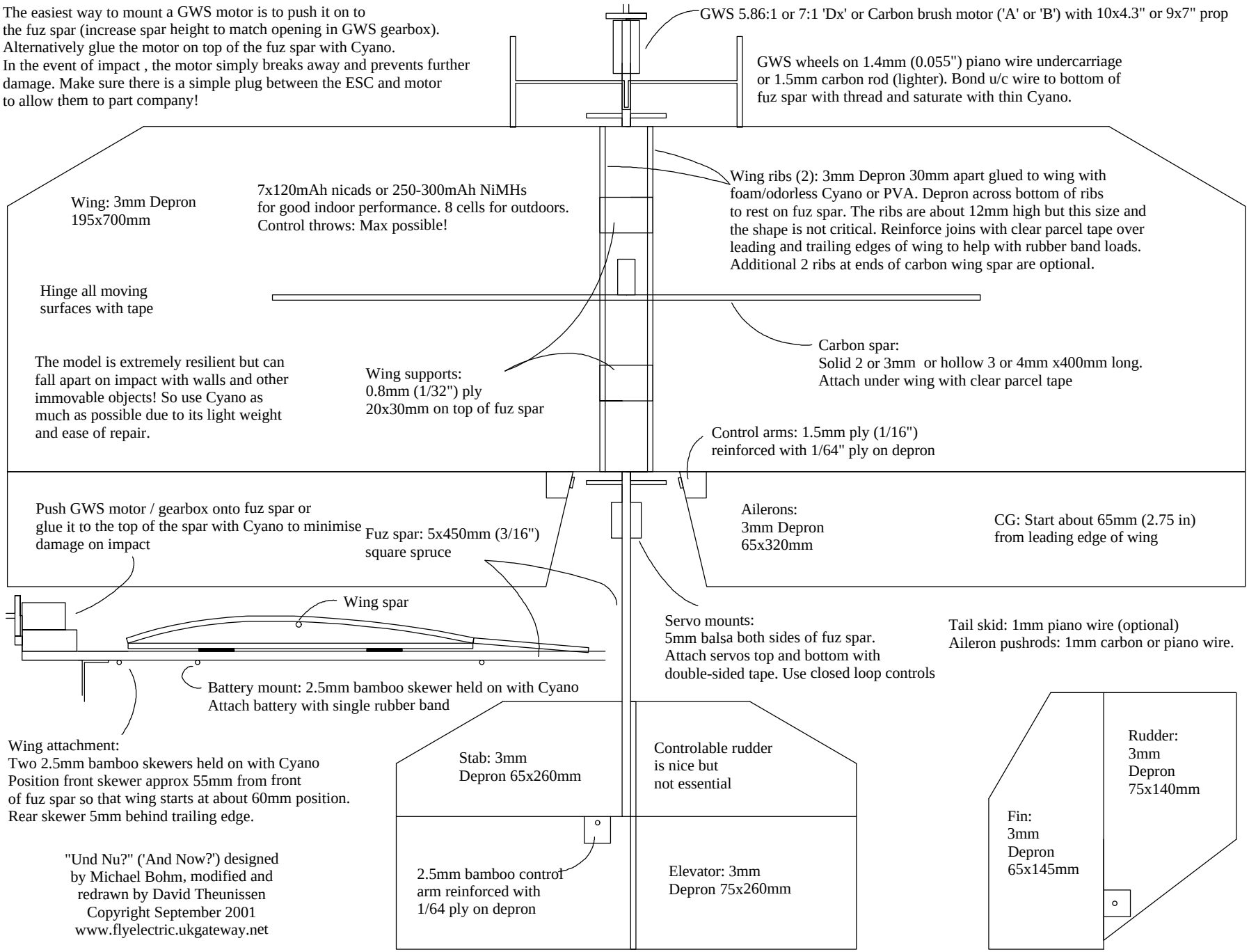
The easiest way to mount a GWS motor is to push it on to the fuz spar (increase spar height to match opening in GWS gearbox). Alternatively glue the motor on top of the fuz spar with Cyano. In the event of impact , the motor simply breaks away and prevents further damage. Make sure there is a simple plug between the ESC and motor to allow them to part company!
GWS 5.86:1 or 7:1 'Dx' or Carbon brush motor ('A' or 'B') with 10x4.3" or 9x7" prop
GWS wheels on 1.4mm (0.055") piano wire undercarriage or 1.5mm carbon rod (lighter). Bond u/c wire to bottom of fuz spar with thread and saturate with thin Cyano.
Wing: 3mm Depron 195x700mm
7x120mAh nicads or 250-300mAh NiMHs for good indoor performance. 8 cells for outdoors. Control throws: Max possible!
Wing ribs (2): 3mm Depron 30mm apart glued to wing with foam/odorless Cyano or PVA. Depron across bottom of ribs to rest on fuz spar. The ribs are about 12mm high but this size and the shape is not critical. Reinforce joins with clear parcel tape over leading and trailing edges of wing to help with rubber band loads. Additional 2 ribs at ends of carbon wing spar are optional.
Hinge all moving surfaces with tape
Carbon spar: Solid 2 or 3mm or hollow 3 or 4mm x400mm long. Attach under wing with clear parcel tape
The model is extremely resilient but can fall apart on impact with walls and other immovable objects! So use Cyano as much as possible due to its light weight and ease of repair.
Wing supports: 0.8mm (1/32") ply 20x30mm on top of fuz spar
Control arms: 1.5mm ply (1/16") reinforced with 1/64" ply on depron
Push GWS motor / gearbox onto fuz spar or glue it to the top of the spar with Cyano to minimise damage on impact
Fuz spar: 5x450mm (3/16") square spruce
Ailerons: 3mm Depron 65x320mm
CG: Start about 65mm (2.75 in) from leading edge of wing
Wing spar
Servo mounts: 5mm balsa both sides of fuz spar. Attach servos top and bottom with double-sided tape. Use closed loop controls
Tail skid: 1mm piano wire (optional)
Aileron pushrods: 1mm carbon or piano wire.
Battery mount: 2.5mm bamboo skewer held on with Cyano
Attach battery with single rubber band
Wing attachment: Two 2.5mm bamboo skewers held on with Cyano Position front skewer approx 55mm from front of fuz spar so that wing starts at about 60mm position. Rear skewer 5mm behind trailing edge.
Stab: 3mm Depron 65x260mm
Controlable rudder is nice but not essential
Rudder: 3mm Depron 75x140mm
Fin: 3mm Depron 65x145mm
2.5mm bamboo control arm reinforced with 1/64 ply on depron
Elevator: 3mm Depron 75x260mm
"Und Nu?" ('And Now?') designed by Michael Bohm, modified and redrawn by David Theunissen
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