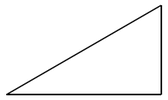
100 mm

Iylushin IL-2m Sturmovik

No-Cal designed by Andy Blackburn

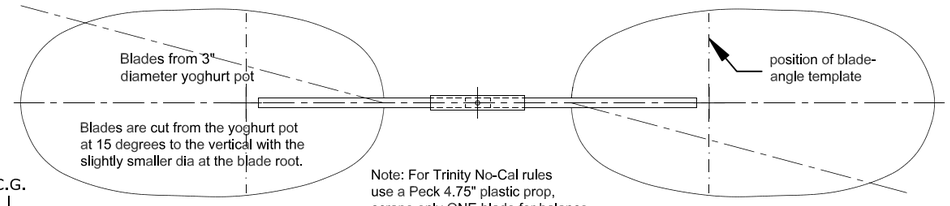
Colour scheme is for an IL-2m of 74 ShAP, around late 1943. See Massimo Tessitori's site https://massimotessitori.altervista.org/sovietwarplanes/pages/il-2/il2-camo/il-2m/il2m-early1943.htm

Lower surfaces light blue (LB), upper surfaces olive green (OG) and medium grey (MG). Numbers, fuselage & fin bands are white, stars are red with white and red outlines. Spinner is black.



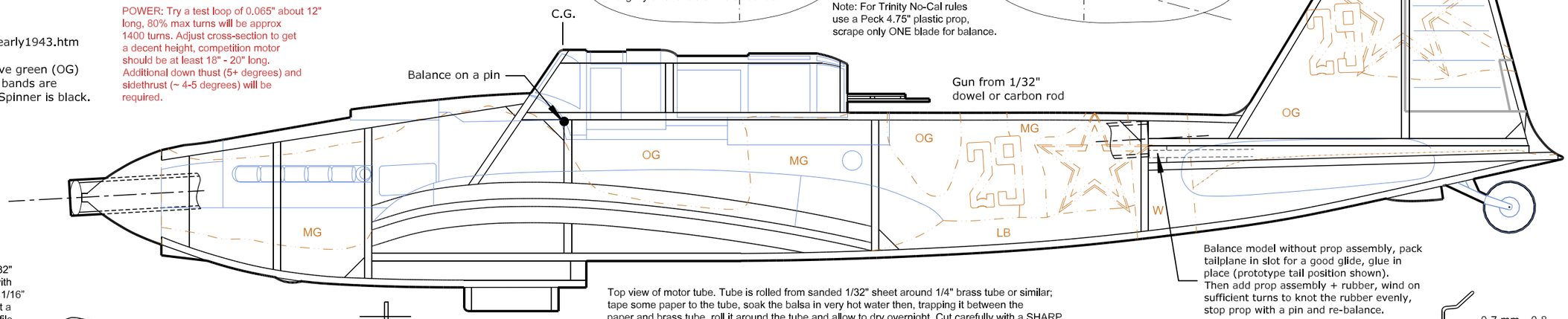
Blade angle template from scrap sheet

Prob hub from 3/32" - 2mm aluminium tube, 1/16"-3/32" dowels are glued to the back of each blade with canopy glue, left for 24 hours and then glued at the correct angle with medium CA.

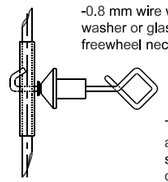


Note: For Trinity No-Cal rules use a Peck 4.75" plastic prop, scrape only ONE blade for balance.

POWER: Try a test loop of 0.065" about 12" long, 80% max turns will be approx 1400 turns. Adjust cross-section to get a decent height, competition motor should be at least 18" - 20" long. Additional down thust (5+ degrees) and sidethrust (~ 4-5 degrees) will be required.

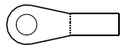


Fred Hall-type hook with rounded edges. Small Peck thrust-bush assembly, 0.7 -0.8 mm wire with brass washer or glass bead; no freewheel necessary.



Thrust button holder from 1/32" aluminium; clamp in a vice with supporting timber. Start with 1/16" drill, going up one drill size at a time, finishing with a needle file until the thrust button fits snugly. Cut the rest of it out with tin snips. Bind to blocked-out motor tube nose with cotton thread, apply thin CA (not too much!) and hit with kicker.

100 mm



Block out front & rear of motor tube with 1/4" balsa dowel or laminations of 1/16"

Top view of motor tube. Tube is rolled from sanded 1/32" sheet around 1/4" brass tube or similar; tape some paper to the tube, soak the balsa in very hot water then, trapping it between the paper and brass tube, roll it around the tube and allow to dry overnight. Cut carefully with a SHARP blade, join the edges with dots of thin CA. Attach to RHS of fuselage after assembly.

Balance model without prop assembly, pack tailplane in slot for a good glide, glue in place (prototype tail position shown). Then add prop assembly + rubber, wind on sufficient turns to knot the rubber evenly, stop prop with a pin and re-balance.

0.7 mm - 0.8 mm rear rubber hook