



APPROXIMATE WEIGHTS:

- WING: 2.00 gr
- PROP: 3.50 gr
- BODY: 2.00 gr
- STAB: 0.80 gr
- FIN: 0.20 gr
- GEAR: 0.90 gr ← FOR DIVISION C ONLY
- BOOM: 0.60 gr

TOTAL: 10.00 gr

COVER THE MODEL ONLY ON THE TOP SURFACES OF THE WING AND STAB, AND ONLY ON THE RIGHT SIDE OF THE FIN. ESAKI TISSUE IS EXCELLENT FOR COVERING AS WELL AS LIGHTWEIGHT COLORED TISSUE PAPERS FOUND IN CRAFT STORES.

MAXIMUM RUBBER WEIGHT IS 2 GRAMS. IF YOU USE A 'STOCK' PROP THEN TRY A LOOP OF 3/32" RUBBER ABOUT 15 INCHES LONG AS A STARTING POINT. 3/32" RUBBER WILL TAKE ABOUT 105 TO 120 TURNS PER INCH SO A 15" LOOP CAN TAKE 1575 TO 1800 TURNS. BE SURE TO USE A LUBRICANT ON THE RUBBER SO IT DOES NOT BREAK. SILICONE LUBRICANTS ARE EXCELLENT AND MANY PEOPLE USE 'SON OF A GUN' AS A LUBRICANT BECAUSE IT CONTAINS A LARGE PORTION OF SILICONE.

FOR HIGHER FLIGHT TIMES IT WILL BE NECESSARY TO SCRAPE DOWN A 9" PLASTIC PROP AND TRIM IT TO THE 20cm DIAMETER. THE PROP PITCH WILL ALSO NEED TO BE ALTERED TO APPROXIMATELY 16 INCHES OF PITCH TO SLOW THE RPM DOWN. THIS IS DONE BY TWISTING THE BLADES TO A HIGHER ANGLE, 33° AT THE TIP. THE MOTOR WIDTH WILL MOST LIKELY NEED TO BE INCREASED TO SOMEWHERE BETWEEN .095" AND .100" TO ACCOMMODATE THE HIGHER PITCH.

MEDIUM Balsa = Balsa which weighs between 7-9 lbs per cubic foot
 LIGHT Balsa = Balsa which weighs between 5-7 lbs per cubic foot

DENSITY = $3.81 * \text{WEIGHT OF SHEET (gr)} / (\text{LENGTH" X WIDTH" X THICKNESS"})$
 e.g. 3" X 36" X 1/8" Balsa sheet which weighs 20 grams
 DENSITY = $3.81 * 20 / (3 * 36 * 1/8) = 5.64 \text{ LBS/CUBIC FOOT}$