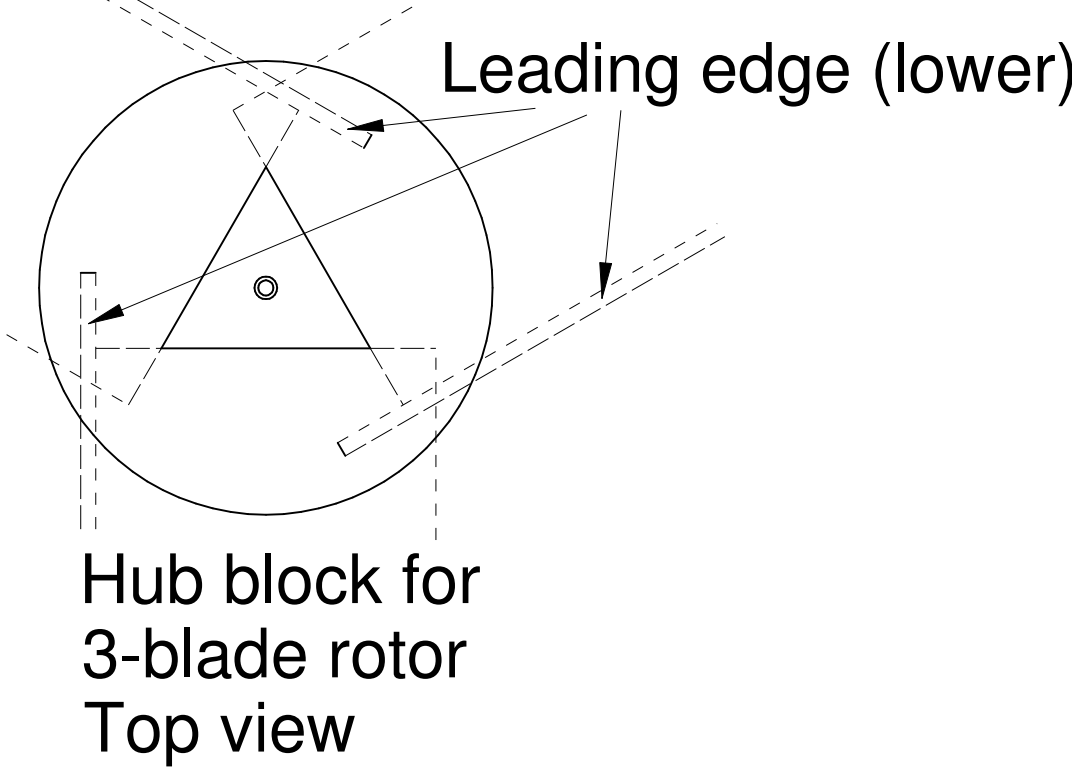


Suggested rotor blade lengths:
2-blade rotor: 480 mm
3-blade rotor: 310 mm
All rotor blades 3 mm depron®
All rotor blades are 45 mm wide
START WITH 3-BLADE ROTOR



Motor: 25 grams outrunner, 1300-1500 kv
Prop: 8"-9" GWS Slow Fly
ESC: 10A-12A
Battery: 2S360 - 2S500
Servo: rotor tilt: 9 grams, rudder & elevator 6 grams

1300KV Blue Wonder motor
on 2S 460 and 9/4.7 prop was
used on prototypes

Firewall to suit motor mount

Rotor blade LE is 2 mm carbon
rod glued and taped to depron

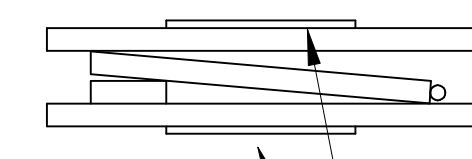
Depron® 3mm, 10 mm square blade shim
Put UNDER rotor blade!

Carbon rod needs to stick out
20 mm to get more glueing area

For 2-blade rotor, hub center block
is 45 mm x 20 mm
Thickness is approx. 7 mm

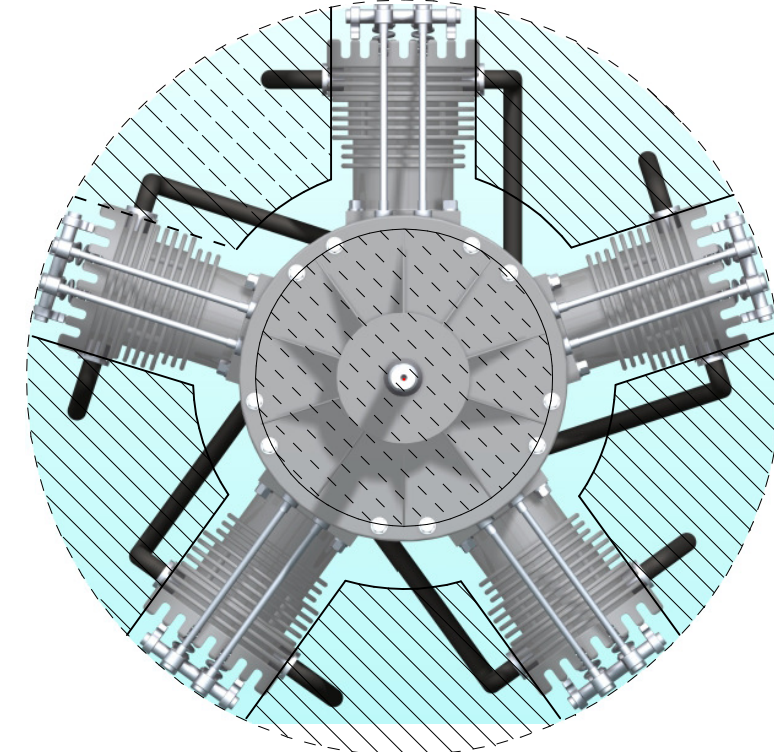
Hub disks are 3 mm depron.
Make two

View A-A'



Glue 1 mm plywood disks
(2.5 cm dia.) on bottom and
top of rotor hub for reinforcement

=Cut and remove

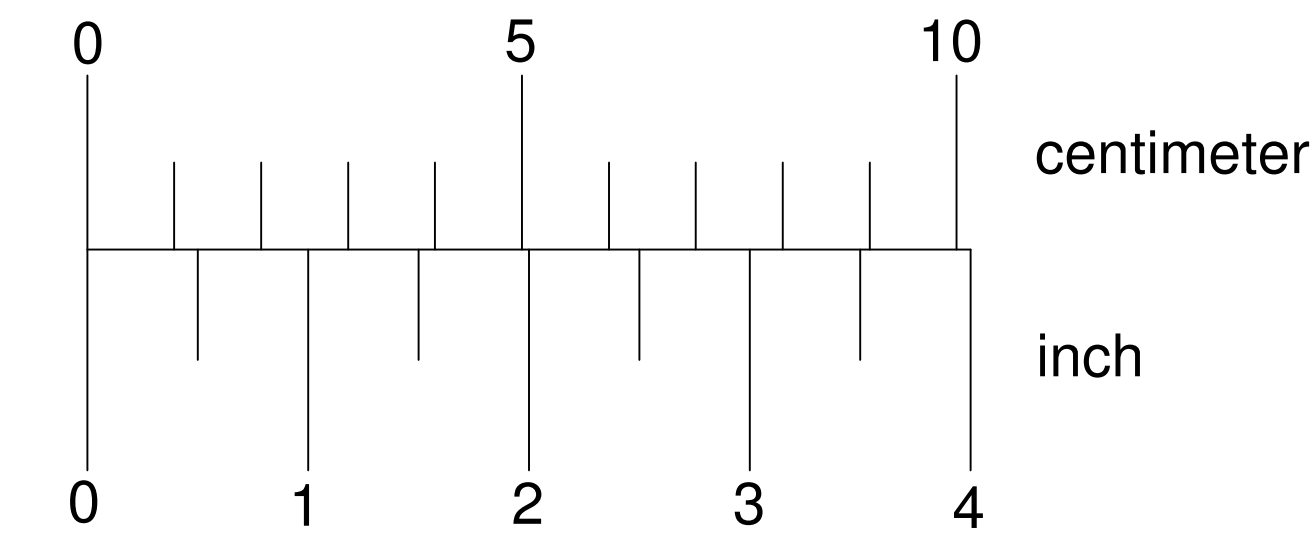


Dummy rotary engine
3 mm depron
Cut out paper template
and glue on 3 mm depron
Cut out as shown

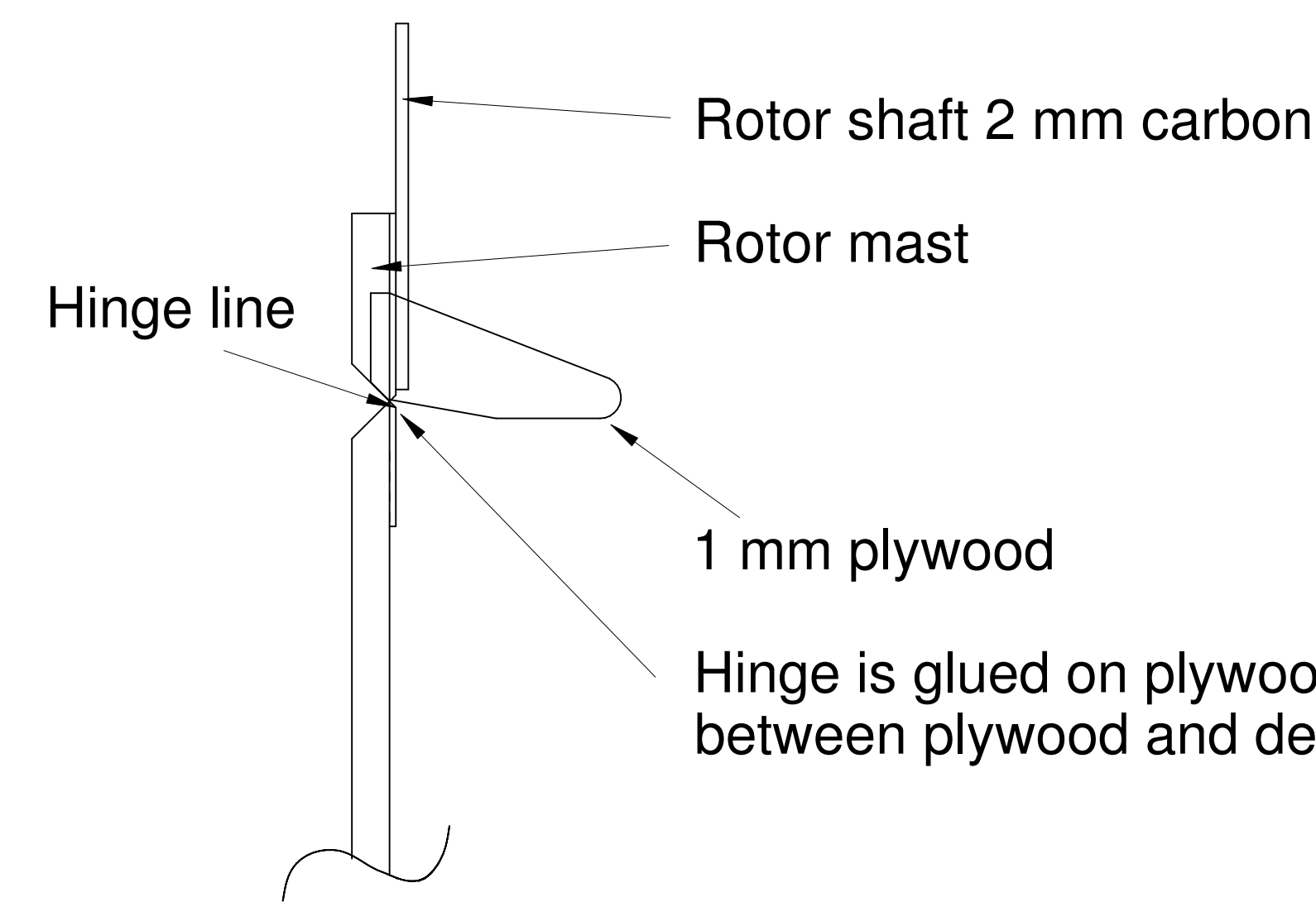
ROTOR MUST ROTATE CLOCKWISE WHEN VIEWED
FROM ABOVE!
Bearing is plastic tube, 2 mm inside dia
Tube is approx. 20 mm long and protrudes 2-3 mm below hub
Important: put a small washer below rotor and above rotor
Retain rotor with snug fitting piece of silicone tubing

Rotor shaft is 2 mm carbon rod, 5 cm long
Glue rotor shaft to left side of fuselage

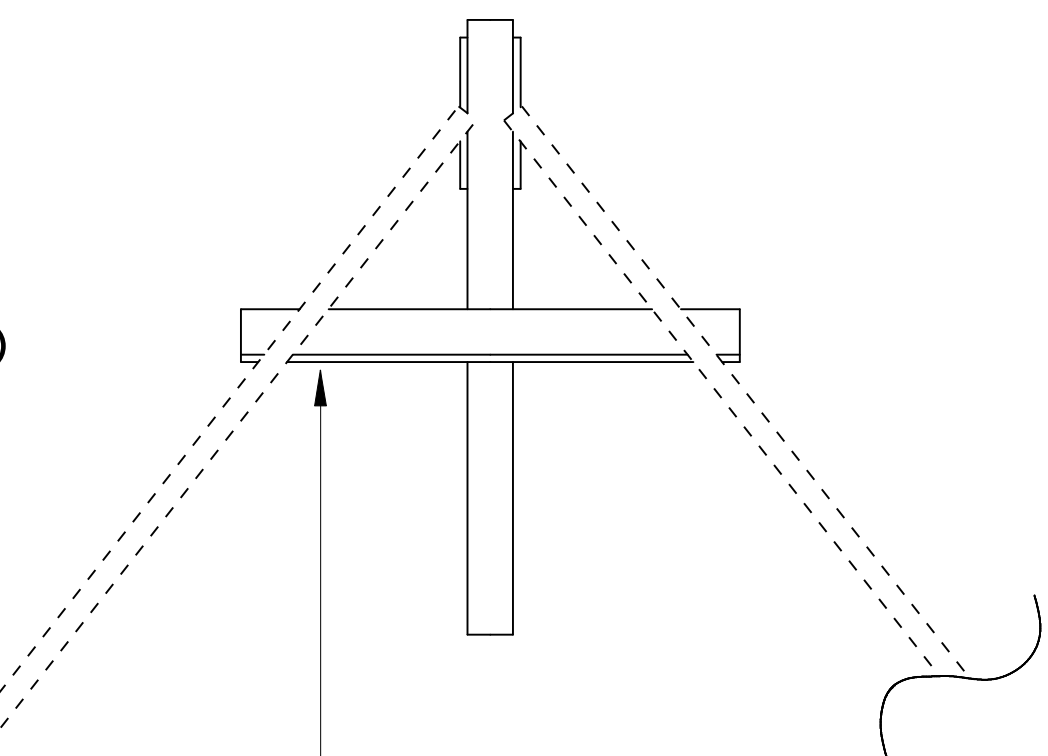
Balance: hang angle approx. -3°
Rotor tilt: 7° each way



Cross section of rotor mast
(viewed from front)



Cross section of fuselage at LG position



1 mm plywood LG
reinforcement

3 mm carbon tubing

Rudder and elevator horn
Make two of 1 mm plywood

1.5 mm piano wire
Epoxy in carbon tubing

Hinge control surfaces
with clear tape

Link elevator halves with
"U"-bent wire or spruce stick

Rudder servo
Elevator servo

Rotor tilt servo

Battery

ESC

Rx

1 mm plywood LG reinforcement
(see also cross section of fuselage)

Rotor mast

Do not forget this cutout for the LG brace!

J-AG4

An easy to build and very easy to fly autogyro with an extremely high fun factor. 4 Ch. required (rudder, elevator, rotor tilt, throttle). Target weight approximately 200 grams (6.5 oz.) ready to fly. Construction: fuselage 6 mm (1/4") Depron® or FFF. Rotor blades: 3 mm (1/8") Depron®.

Based upon the J-AG3 autogyro design by Gary L. Jones

Drawing by Willem Bravenboer

© Gary L. Jones/Willem Bravenboer

REV. 2010-03-20