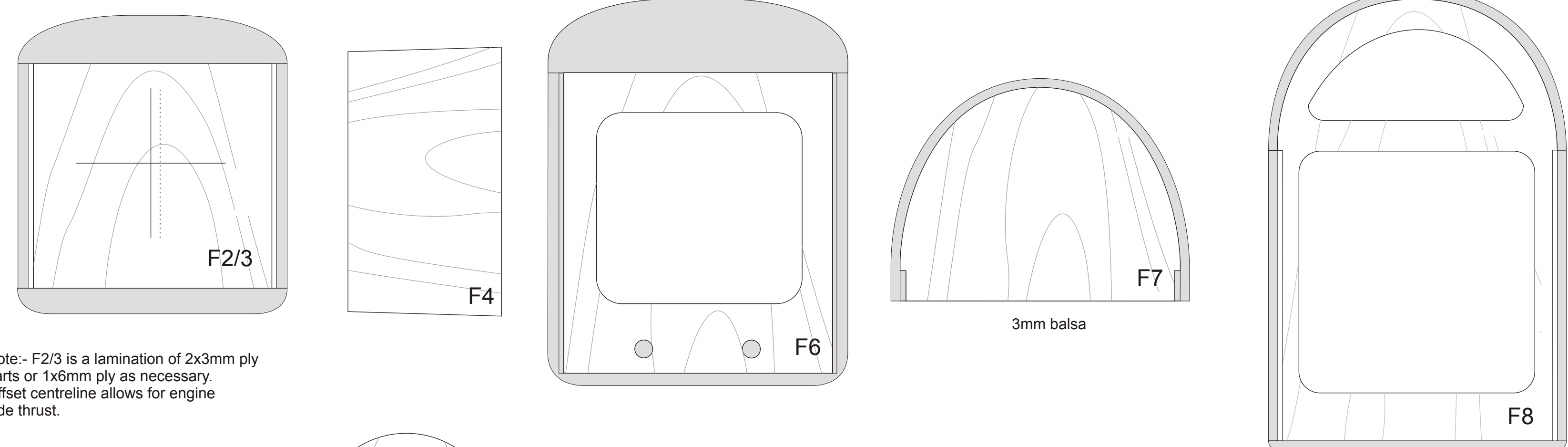
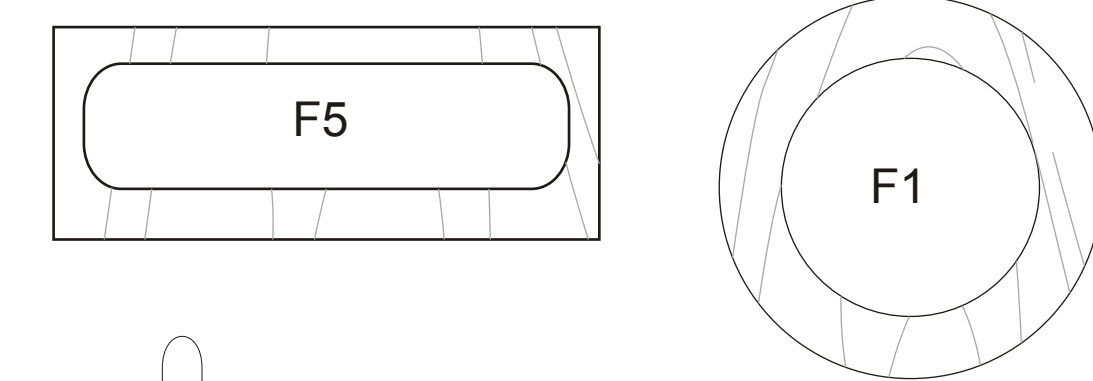


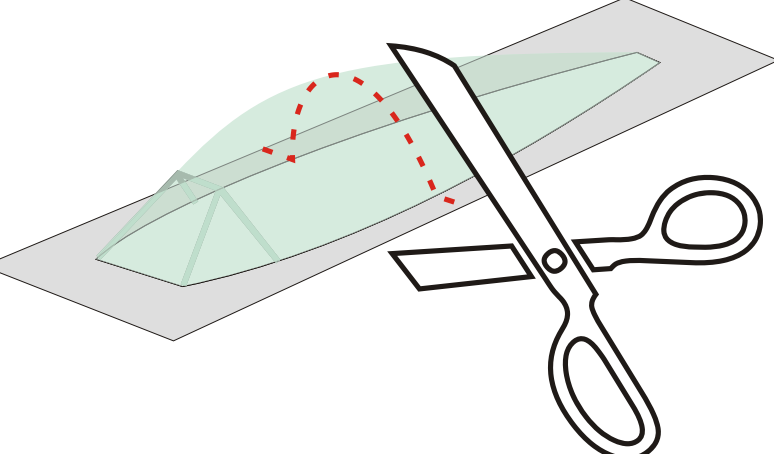
All formers are cut from 3mm light ply unless otherwise noted



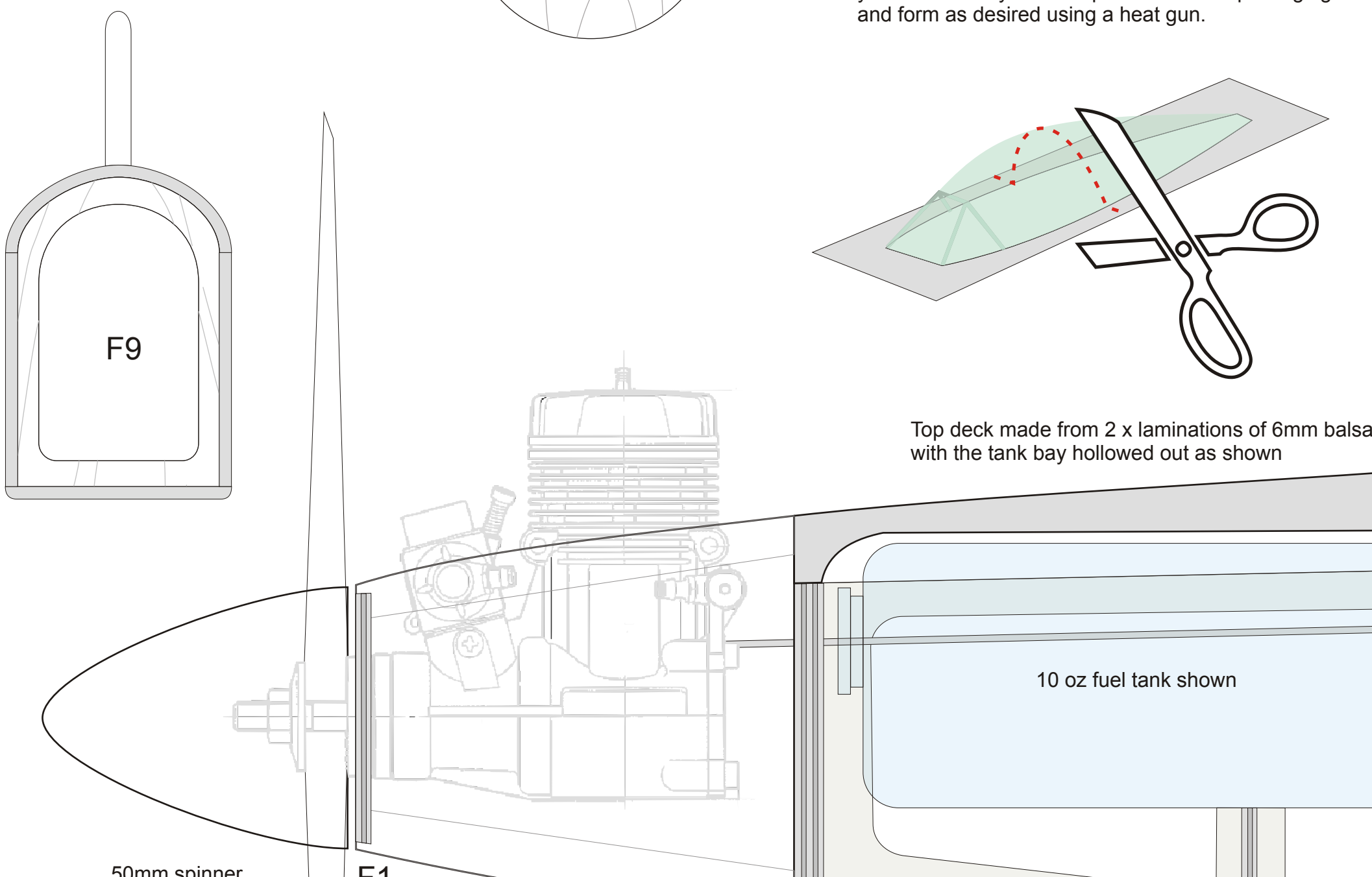
Note:- F2/3 is a lamination of 2x3mm ply parts or 1x6mm ply as necessary. Offset centreline allows for engine side thrust.



Canopy formed by cutting a commercial canopy and using either the front or rear as desired. Alternatively, you can use any suitable plastic bottle or packaging and form as desired using a heat gun.

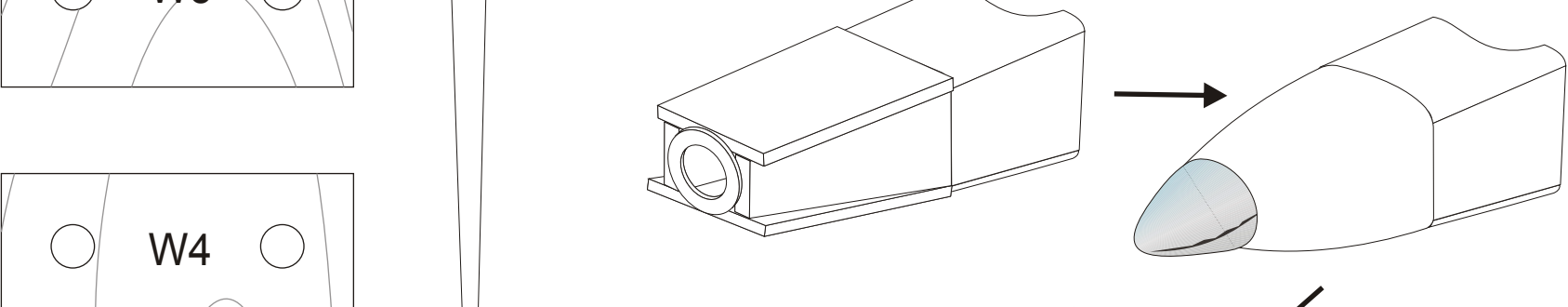


Top deck made from 2 x laminations of 6mm balsa with the tank bay hollowed out as shown



Nose from 12mm balsa blocks shaped and hollowed as required. Seal engine and tank bays with epoxy or dope as desired.

Lower nose section from 6mm balsa and may be made removable if desired.



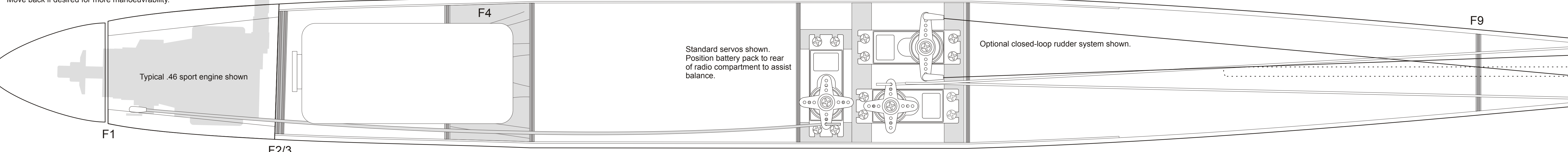
Wing dowel supports from 3mm ply

Leading and trailing edge sheeting and cap strips from 3.0mm balsa. Top surfaces omitted for clarity. Mainparts from 6mm square hard balsa or spruce. 1.6mm shear webbing throughout. Leading edge from 6mm square balsa.

55mm wheel

Balance on main spar for initial flights. Move back if desired for more manoeuvrability.

Right fuselage side shortened at front by 3mm to allow for right engine thrust.



Typical .46 sport engine shown

Standard servos shown. Position battery pack to rear of radio compartment to assist balance.

Optional closed-loop rudder system shown.

Centre section sheeted with 3mm balsa top and bottom

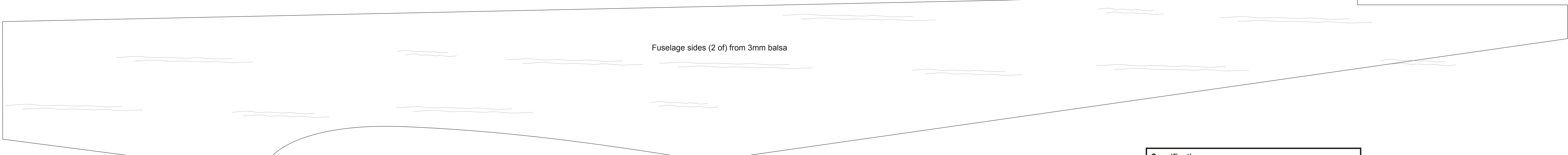
3mm leading edge sheeting (upper surface not shown)

3mm trailing edge sheeting (upper surface not shown)

3mm x 6mm balsa cap strips top and bottom

Scrap 3mm ply

Ailerons and trailing edge from 6mm balsa. Wing bolt plate from 2 or 3mm ply. Fibreglass wing bandage is not required as this wing is webbed throughout and is very strong.

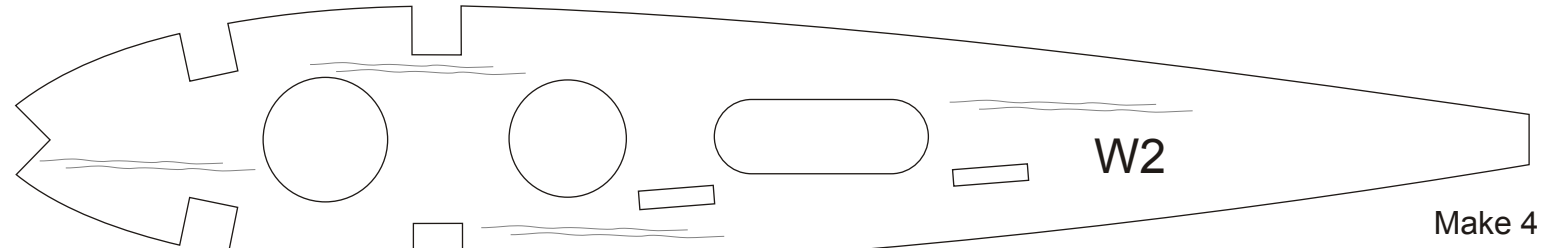


Specifications

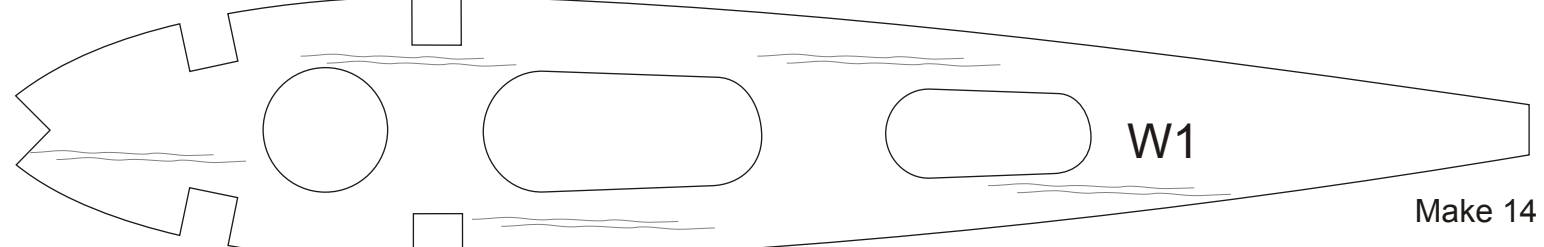
Span:	106.6 cm (42 inches)
Length:	106 cm (41.75 inches)
Weight:	1.9kg (4.2 pounds) to 2.2kg (4.8 pounds)
Wing area:	2728 sq cm (420 sq inches)
Engine:	.32 - .46 two stroke or equivalent electric (four-stroke not recommended)

Control Throws

	Low Rate	High Rate	Insane
Aileron	8mm	12mm	15mm
Elevator	12mm	15mm	25mm
Rudder	20mm	25mm	35mm

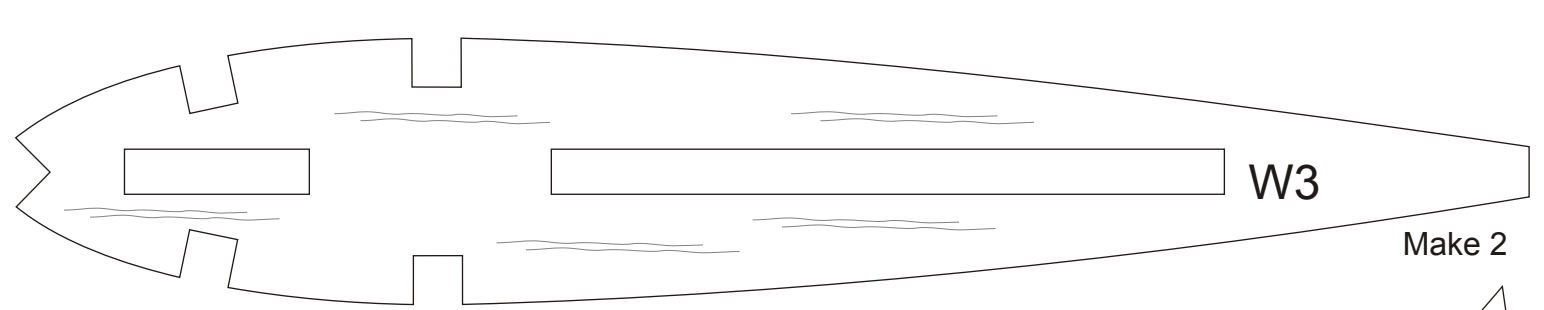


Make 4



Make 14

All ribs from 3mm balsa



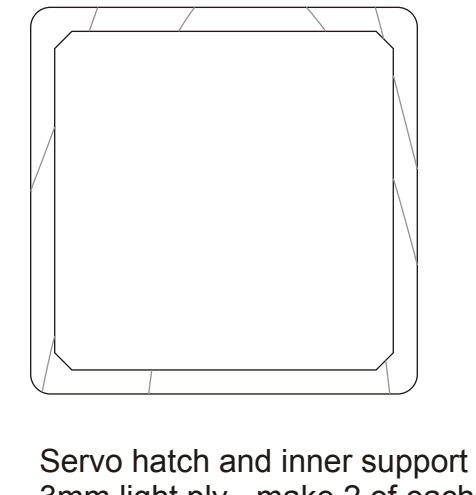
Make 2

Wingtips from 6mm balsa - make 2

W6

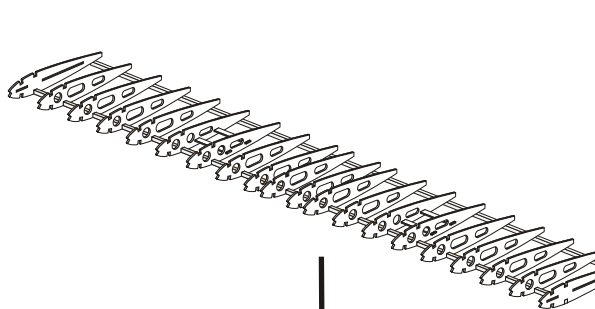
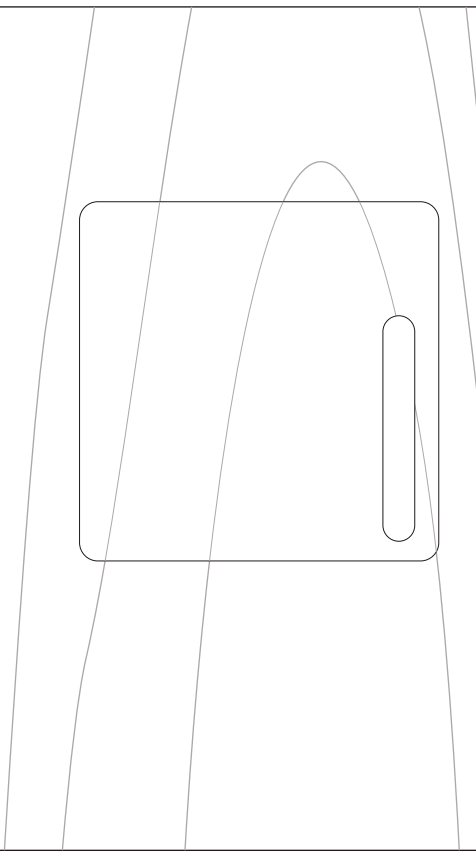
Prototypes used a commercially available, scale-type, steerable unit with springs to rudder horns to eliminate servo damage on rough strips. A simple wire skid could be used if desired.

Stabilizer and elevators from 6mm balsa. Dual elevator horns shown, but can be single with a 6mm square hardwood joiner if desired.

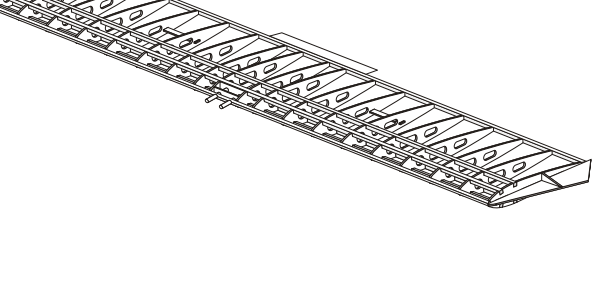
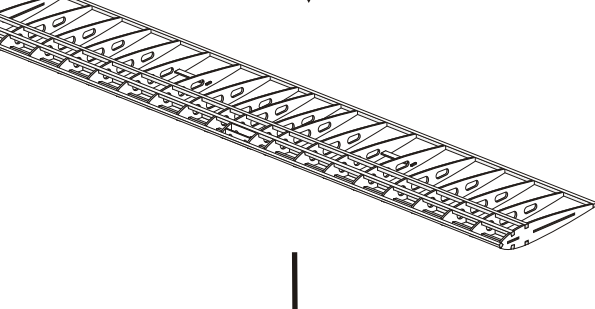
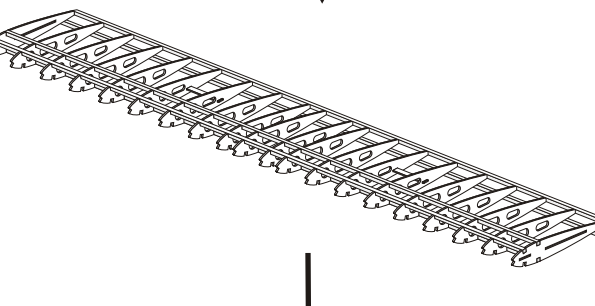


Servo hatch and rudder support from 3mm light ply - make 2 of each.

1mm ply or 1.6mm balsa make 2



Wingtip support gusset from 6mm balsa, top and bottom.



Groover 46