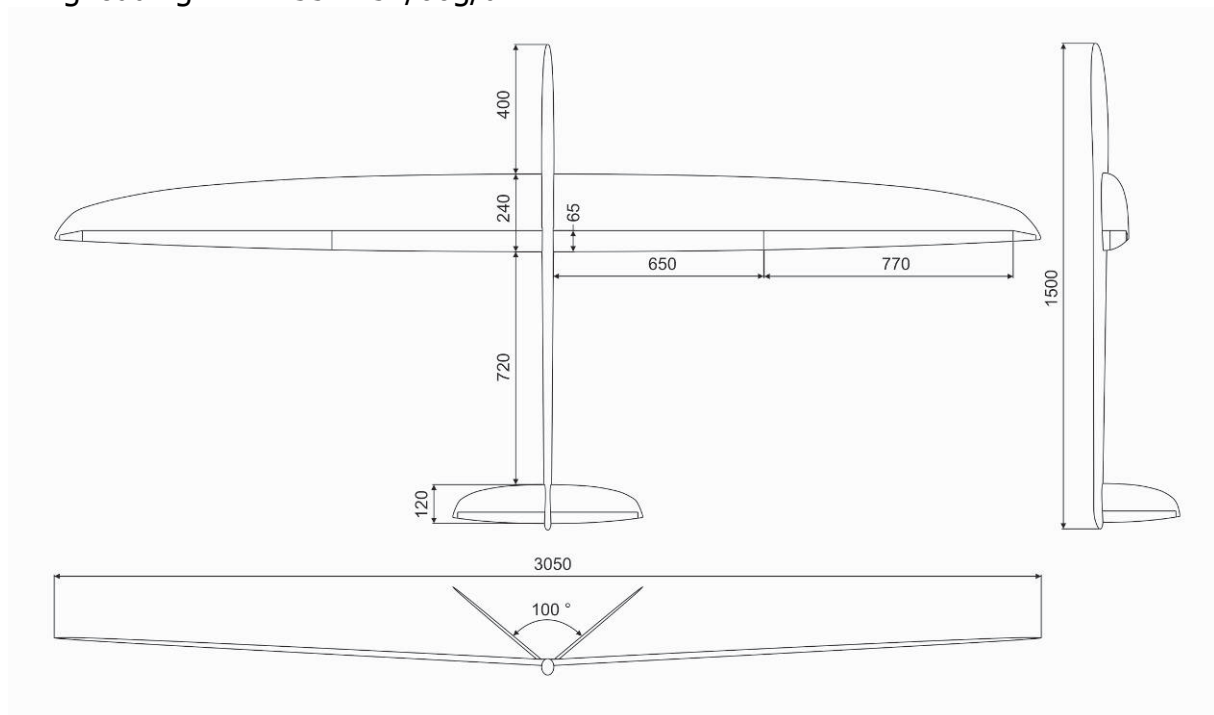


# CERES F3B

Wingspan	3050mm
Area	59,4dm <sup>2</sup>
Aspect ratio	15,66
Airfoil	DP
V-tail span	586mm
V-tail area	5,64dm <sup>2</sup>
V-tail aspect ratio	6,1
V-tail airfoil	DP
Weight	2100 ÷ 3400g/3600g (with lead ballast cubes)
Wing loading	35 ÷ 57/60g/dm <sup>2</sup>



## Set contains:

- Fuselage with canopy and installed towing hook (F3B version)
- Wings with joiner and servo covers (horns already glued)
- V-Tail with joiners (horns already glued)
- Cables for wing servos with connectors (2x 85cm, 2x 30cm)
- Extension cables for wing servos into the fuselage with connectors (4 x 30 cm)
- Two pair of MPX 6-pin connectors
- Servo holders for wing servos with third BB (2x right, 2x left) - Futaba S3150
- Servo holder for V-Tail servos into fuselage – Graupner DS3728/DS3781
- Servo covers
- Two carbon tubes for V-Tail linkage
- M3 metal clevises (8x) with M3 screw rods (4x) for wing linkage
- M2 metal clevises (2x) with 80mm 2mm/M2 wire (2x) for V-tail linkage
- M2 ball pivot (M2) with 130mm 2mm/M2 wire (2x) for V-Tail linkage
- 10pcs brass ballast cubes (16x20x50mm – 130g/1pcs)

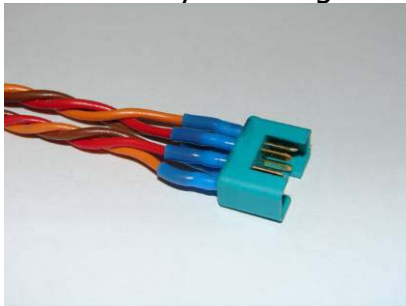
# Assembly manual:

You will need these accessories:

- 4x Futaba S3150 for Ailerons and Flaps
- 2x Graupner DS3728 for V-Tail (or Graupner DS3781)
- 4cells Sanyo RC-2/3SC (1200mAh, Ni-Cd)
- Receiver (min. 6ch)

## Wing:

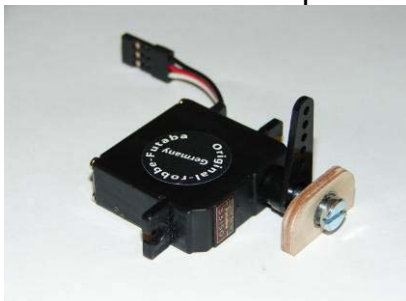
Solder together the cables and MPX connectors for wing servos. We recommend don't use any soldering fluid. Use for each wire isolation.



Glue the servo holders into the wing (5min Epoxy).



Put together the servo with servo arm and third ball bearing. For ailerons use 6mm servo arm and for flaps 8mm servo arm.



Connect the servo with the extension cables and make some safety lock at the connectors (insulating tube).

Install the servo into the servo holder.



Put two small trust plates to the servo holder.



Bolt the trust plates with four small screws.



Put together the linkage for ailerons and flaps. Two M3 metal clevises and M3 screw rod. The metal clevis at ailerons servo must be modified (see the picture).



After completing, set-up and trimming glue the clevises with Loctite or CA glue.

Put the servo covers over the servo holes and glue them with Tesa tape.

## Fuselage and V-tail:

Glue into the fuselage servo holder for V-Tail servos.

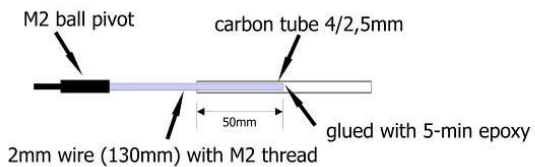


Install the servos. Use 8mm servo arms.

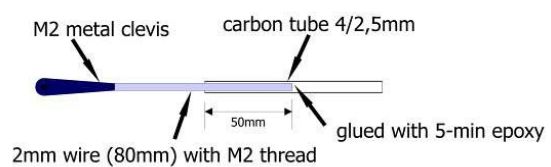


Put together the V-Tail linkage. Abrade (about 50mm) the 2mm wires before you glue them into the carbon tubes (better stability).

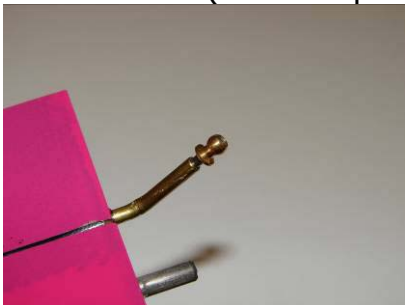
Elevator-side of the linkage:



Servo-side of the linkage:



Glue the balls (from ball pivot) with Loctite onto V-Tail horn wire.

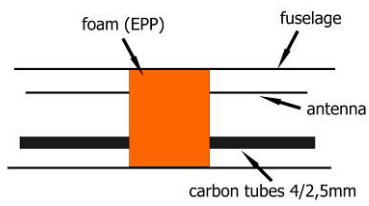


Put together the fuselage and V-Tail.

Connect linkage with servo and V-Tail.

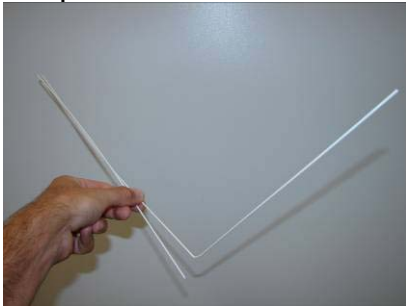
Put into the fuselage the linkage leading. Put trough the fuselage wire for antenna before this operation.

Linkage leading in fuselage:



Take away the V-Tail from fuselage.

Make a antenna extension from 0,3-0,8mm wire (1m) and plastic tube (1m). Bend the plastic tube with the wire to this form (see the picture).



Solder the antenna extension with antenna wire in fuselage.

Complete the V-Tail and fuselage.

Glue into the fuselage the connectors for wing cable extensions.



Use this battery pack form.



Glue into the fuselage (nose) about 40-60g lead to make recommended C.G.

C.G.:	110-112mm
Towing hook:	108-110mm