

# MINI LEPRECHAUN

## BUILDING INSTRUCTION

Leprechaun pro was designed by Valueplanes in 2021.

It is well received by the market. So we designed the mini version.

For the Mini Leprechaun, without changing the beautiful appearance, we have simplified the build steps, making it easier and faster for customers to build. This is easy for beginners to build. The kit includes pre cut wing ribs, hardwood spars for the wing and tail tips, ply formers, balsa strip, sheet and block parts, hardwoods and dowel, a hardware pack and full size plans. Everything you need to build the basic airframe of the model. You just need to add the powertrain and servos, receiver and cover..

This model is intended for flying on calm days



### SPECIFICATION

Wingspan = 1200mm

Length = 920mm

Flying weight = 350g

Suggested Equipment:

Servo: 2x 3.7g

Prop.:6 inches

Motor: 1408 1800kv

ESC: 5A

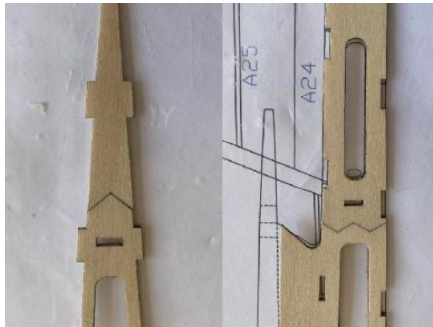
Batteries: 2S

## Parts List

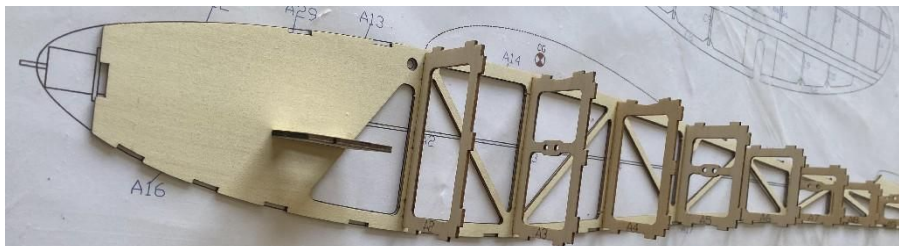
Item	Specifications	QTY
quick coupler for pull-pull rod	1.8MM	2
Rubber bands	5X80MM	4
Micro surface horn		2
Micro plastic clevis	M1.5	2
Dowl	6X100MM	2
Paper hinge		5
Mini plastic hinge		1
Carbon pull-pull rod	1.5X750MM	2
PVC tube	750MM	2
Full size plan		1
Building instructions		1
Laser-cut plywood sheet 3MM, 4MM	A1.A11.B15	3
Plywood sheet	2MM	4
Balsa sheet	2MM	2
Balsa sheet	3MM	2
Balsa sheet	6MM	1
Balsa strip	6X12X620MM	2
Balsa strip	6X6X750MM	3

## BUILDING INSTRUCTION

1 Glue the fuselage side plates and fuselage baseboard.

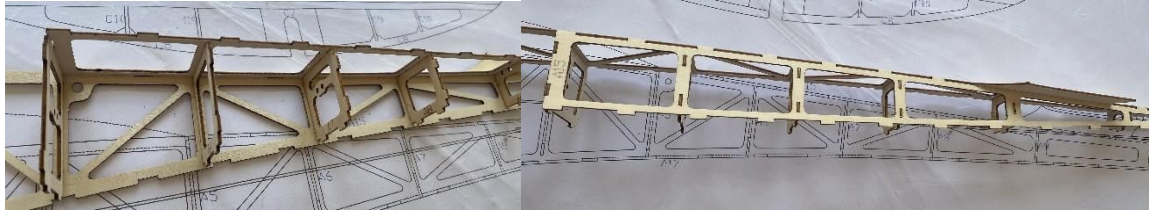


2 Assemble the bulkheads. **Attention please: the bulkhead numbers must be faced the nose.**

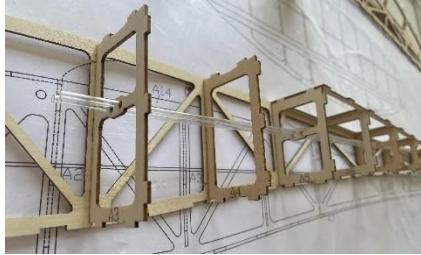


**Notice: Follow the following steps of gluing in strict order**

3 Glue the fuselage UPPER cover.



**4 Install the PVC tube.**



**5 Glue the LEFT side plate of the fuselage.**



**6 Glue the fuselage BOTTOM plate.**



**7 Glue A16.**



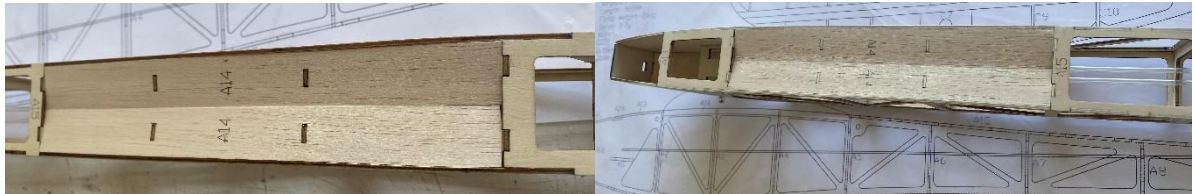
**8 Attach positioning plates to both A2.A5 bulkheads. (used for positioning V-wing, step 11-12)**



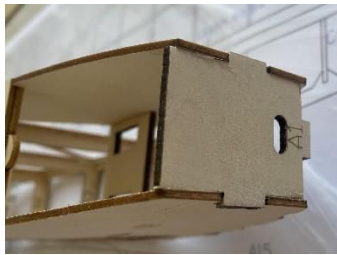
**9 Glue the front cover (A13) and the hatch cover locator (A29).**



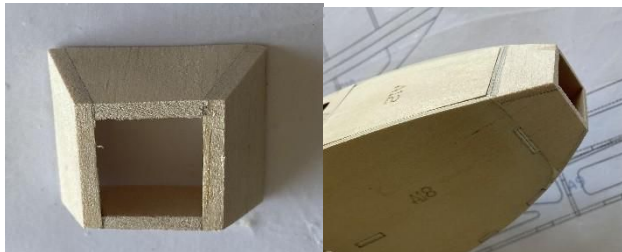
**10 Glue balsa sheets (A14) between bulkheads A2 and A5 to complete the wing table.**



**11 Glue the motor mount.**



**12 Make the nose with 3mm balsa sheets and attach to the fuselage after installing the motor.**  
(Please note that the head size is small, you need to find a suitable micro motor, or remove the head and install a larger size motor)



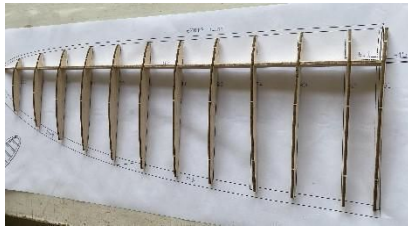
**13 Fill the tail with balsa sheets.**



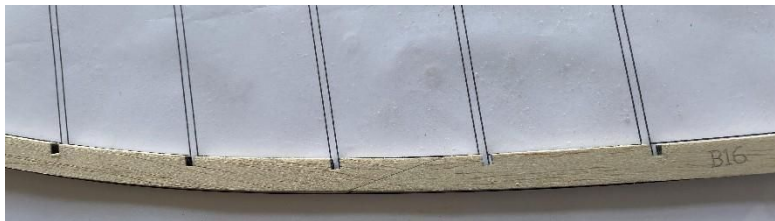
**14 Glue the horizontal tail mount.**



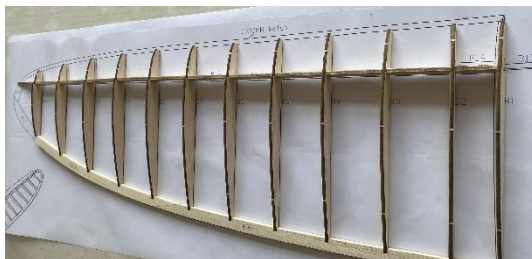
**15 Assemble the wing ribs.**



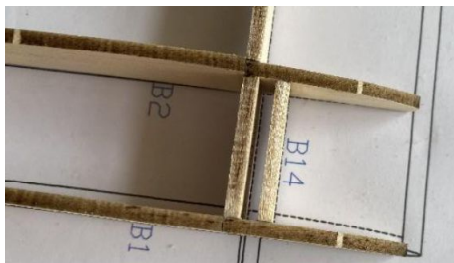
**16 Locate the wing trailing edge.**



**17 Locate wing ribs and trailing edge.**



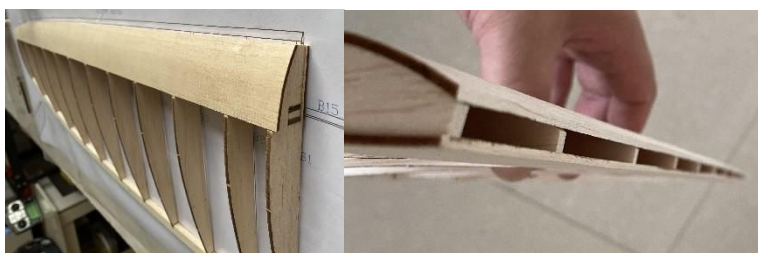
**18 Glue B14.**



**19 Glue the lower cover (2mm balsa) on the leading edge of the wings.  
(The upper cover is wider than lower cover).**



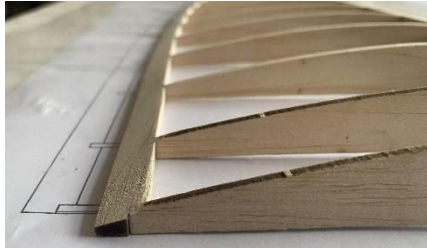
**20 Glue the upper cover and sand the leading edge.**



**21 Glue the balsa strip to the leading edge.**



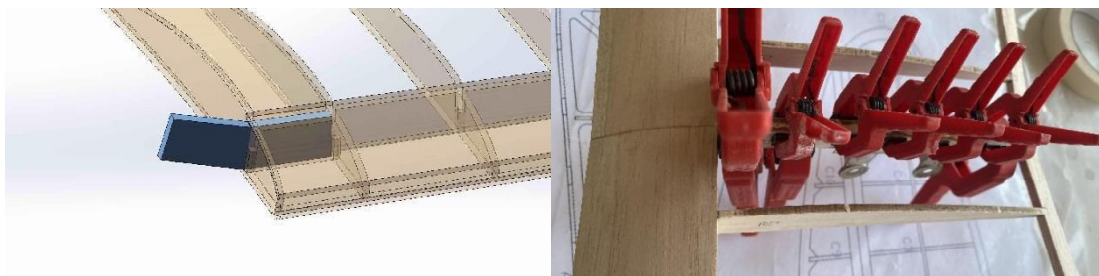
**22 Sand the trailing edge of the wing.**



**23 Remove the excess wing ribs so that dihedral brace can be inserted.**



**24 Insert reinforcing dihedral brace (4mm plywood) and glue the main wings together.**



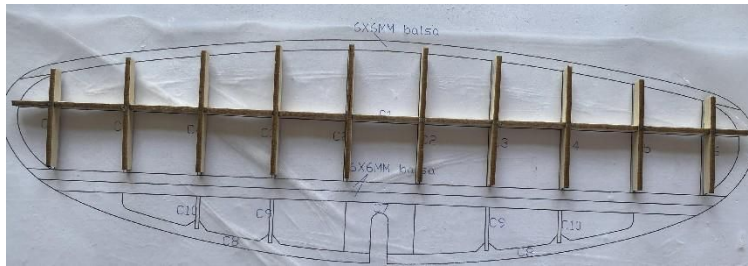
**25 Glue the middle wing cover (2mm balsa).**



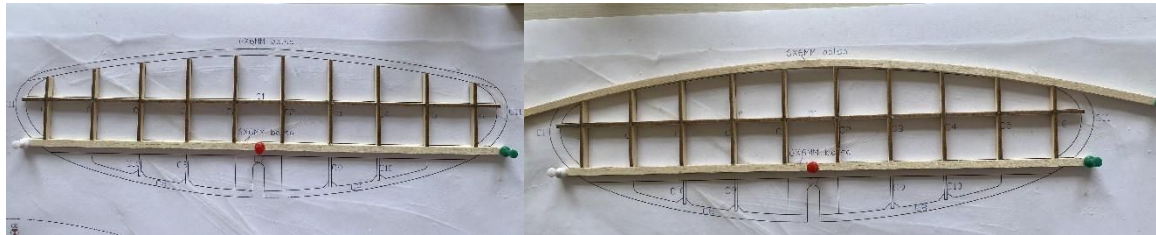
**26 Install the servo before covering the model and fasten the wings with rubber bands.**



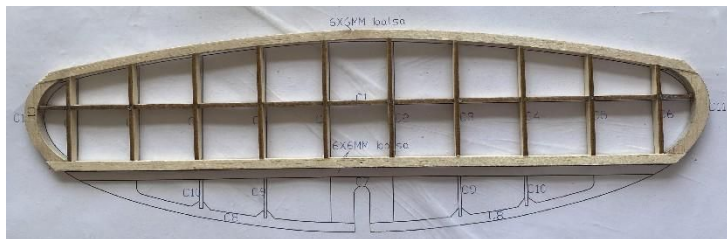
**27 Assemble the horizontal stabilizer.**



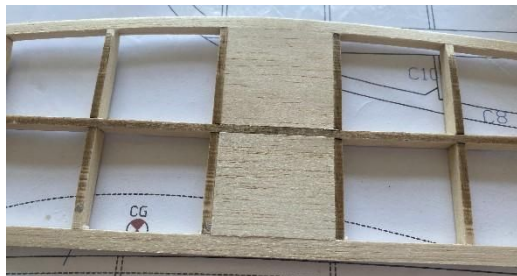
**28 Glue balsa strip on the front and back edges.**



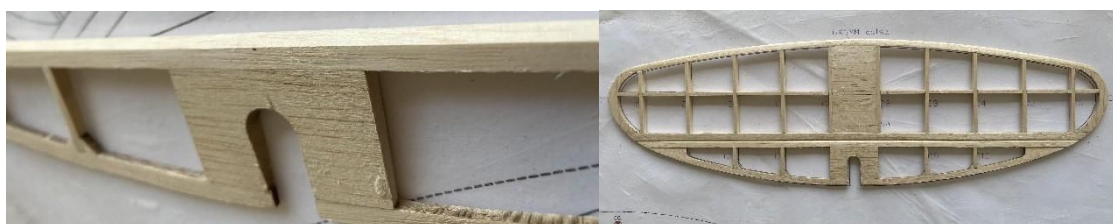
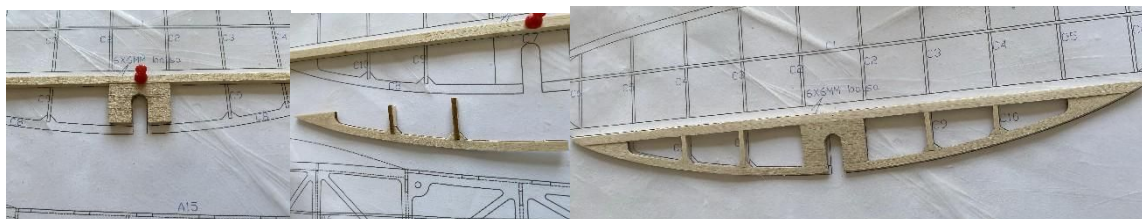
**29 Glue wing tip C11.**



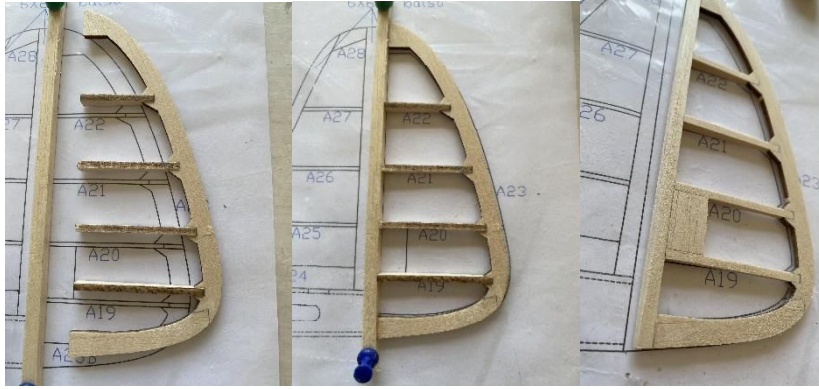
**30 Glue 2mm balsa sheets in the middle.**



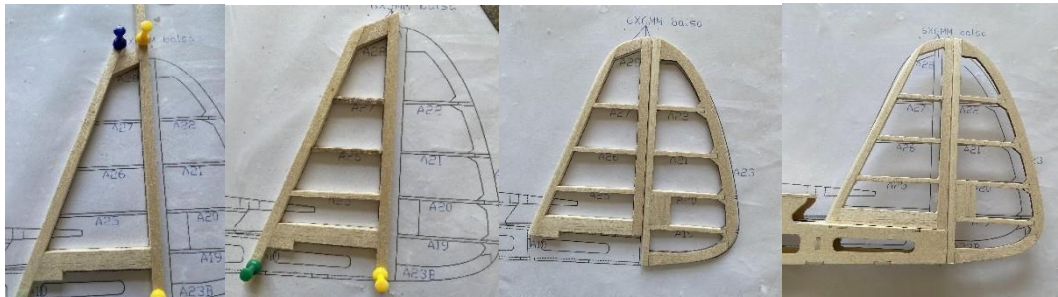
**31 Assemble elevator and sand trailing edge according to the drawing number.**



**32 Assemble the rudder.**



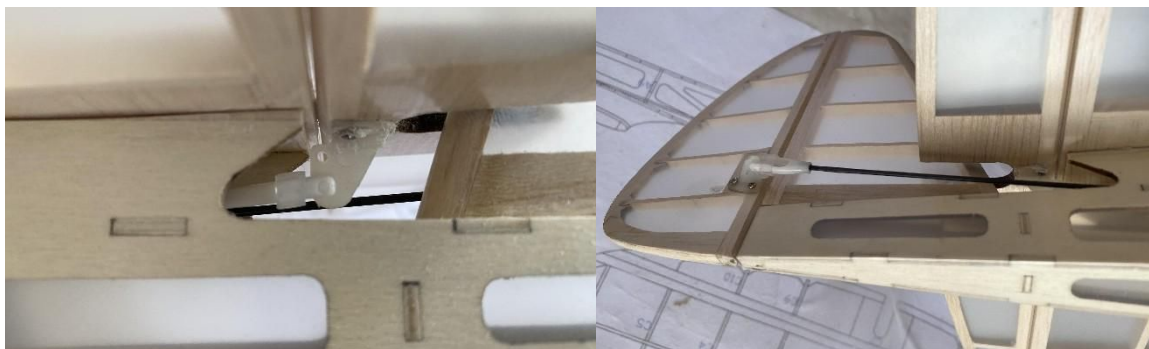
**33 Assemble the fin and rudder.**



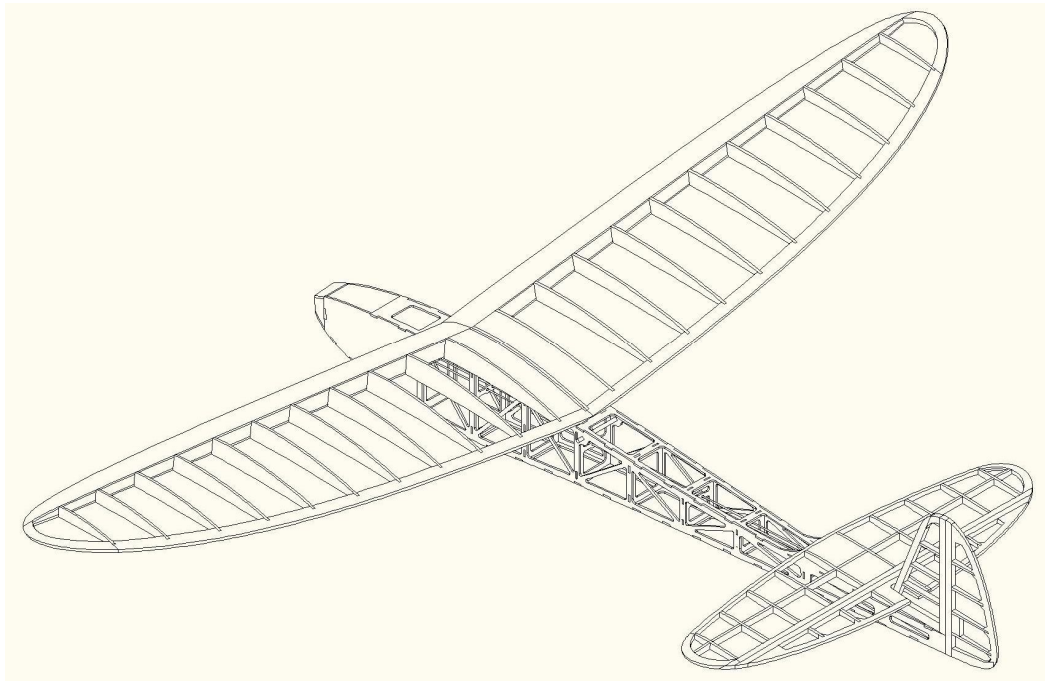
**34 Fix the horizontal tail and fuselage with glue. Keep them square to the fuselage.**



**35 Elevator rod and rudder rod assembly.**



**Full View**



**Finished.**

