

Wing Span	800mm	31.5"
Length	635mm	25"
Wing Area	10dcm2	155 sq"
Tail Area	1.316dcm2	20.4 sq"
Fin Area	1.03dcm2	16 sq"
Flying weight	from 91g	3.25oz
Wing loading	9.1g dcm2	3.02oz sq ft
Aspect Ratio	Approx 6:1	
Wing Section	AG04 mod	
Dihederal	11 degrees	



Further items are required to complete this model as pictured:

Recommended Equipment

2 off 2.5 - 3.3g Micro Servos
1 off 1s 500mah Battery or 2s 300-350mah Battery
1 off Micro Bec if using 2s and Servos do not cope with 2s direct voltage
1 off 4-6 channel Micro Rx eg: Spektrum AR6100e
Feather Cover or Similar Lightweight covering (20 - 25 gsm)
Adhesives
Basic Tools

Please note that Model Aircraft are not toys and despite the size and lightweight of the Pug2 DLG it still needs to be operated safely. The builder and pilot of this model aircraft kit accept all liability for its use



Glue the nose block you produced earlier onto the front of the fuselage. You can do this now or after the lower sheeting and the small pieces of top sheeting are fitted. NB if you have a V2.1 Kit with the thicker fuselage sides you'll note the nose block appears undersized. Glue the block central and sand the fuselage to match the nose profile, yielding an aesthetically pleasing shape.

Glue the lower fuselage sheet and 2 small pieces of top sheet into place. The lower sheet should be use to ensure your fuselage is straight,

Once happy you have a straight fuselage after attaching the lower sheet you can now securely glue the formers into place by wicking thin CA or Superphatic into the joints. DO NOT GLUE THE REAR WING HOLD DOWN

Rough shape the nose block into shape using 180 grit sandpaper. Final sanding is to be done once canopy hatch is made.

The inner canopy sheet fits on the inside of the canopy sides

The canopy hatch sides are glue at right angles to the main canopy sheet. You can damp the outside of the canopy sheet to ease the bend if prefered.

The rear edge has the hole and fits flush against the back, the front is intended to protrude

Chamfer the rear of the canopy inner and outer sheets to follow the lines of the side

The 6mm canopy hatch magnet is glued flush with the inner skin, as shown here





Add the 1.5mm Balsa Centre Sheet This has to be trimmed to fit



The wing tip is fitted to the centre line of the rib

Add the 3mm Doublers to the top and bottom of the wing tip

Trim away R1 between Parts F and R to allow space for the 1.5mm Plywood Dihederal brace Take your time and sand away the excess balsa sheeting on and the excess carbon spar material to match the exact angle of R1

Split the 3mm Balsa centre Rib exactly as shown here

> N.B. There is only one centre rib required and this process only needs to be completed for one wing half

Glue the 1.5mm plywood dihederal brace into place and but the rear part of the centre rib against it accurately as shown

Remove just the tiny piece of material indicated

Glue the remaining piece of the 3mm centre rib into place

Remove the small pieces of material in the centre rib to clear the 3mm nylon wing bolts One half of the wing construction is now complete. Repeat all the above process to build the opposite wing half with the exception of the centre rib



The wing halves should be joined using a slow setting adhesive













The final order of assembly after covering is not really important, so the following images are for guidance only. What is important is that you didn't forgot to slide the 3 pushrod guides onto the boom before sliding the boom into place. The plan indicates the approximate positions of the guides and also the correct dimensions for the boom and tailplane positioning. All RC equipment should be positioned as far forwards as possible to minimise noseweight. Do not be concerned if you require noseweight to obtain the correct CG.

When glueing the fin into place it is important it is central to the boom.We packed ours with balsa scraps but card or layers of paper could also be used.

As previously mentioned the rear wing hold down / boom mount should have only been tacked into place. Bolt the wing into place using the front bolt and then adjust this rear mount if required before final glueing.

> We have used a 2s 160mah Lipo for the receiver battery, ES9251 servos and a matek 5v BEC that has been mounted on top of one of the servos

Slide the boom into place. DO NOT GLUE YET!



Setup and flying:

Balance point 50 - 60mm from the leading edge. You should start at 50mm.

Control Throws: To suit your flying style

Rudder Low Rate 12mm either way, 15% expo High Rate 20mm either way 30% expo

Elevator Low Rate 4mm either way 20% expo High Rate 6mm up 4mm Down 30% expo