



Further items are required to complete this model as pictured:

Recommended Equipment

2 off 7.5g to 9.4g Metal Geared Slim servos 1 off 4 Cell AAA RX battery (overlander config 9) 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



Ribs, half ribs and spar are all assembled without glue, take care as the ribs will be fragile until this assembly is completed



Only glue the full ribs to the spar. The half ribs can then be micro adjusted once the carbon rod leading edge has been fitted.

Slide the metal wing joiner tube through R1 and R2 by twisting as you go if it feels tight



Add the Main elevon Sheeting. Please see the additional picture to the right. The engraved line follows the line created where the rear spar



DO NOT GLUE the partial ribs until the carbon rod leading edge has been fitted!



The tip rib is 1.5mm plywood. This is so you have a hard surface to shape the wing tips against when sanding them later



Add the carbon rod leading edge. Use this to adjust the position of the part ribs to ensure you have a nice straight leading edge



and the elevons leading edge sheets meet!





With the wing pinned to the board upside down Once the spar is removed carefully sand the the lower sheet can be added, use PVA for this spars and Elevon leading edge to match the as CA does not give enough working time wing ribs (Use a sanding block!) Make sure the tip, root and Elevon trailing edge Give the glue chance to fully cure before sheet are bonded to all components. removing from the building board The wing retaining magnets are glued flush with There are 2 1.5mm tick magnets fitted to R1 the outside of the centre rib R1 One at the fron, one at the rear The centre rib and fin are made up of The Lower centre Sheet can now be added the 2 balsa fin parts and the plywood centre rib and left to dry along with the elevon and trailing 2 x 6mmx3mm magnets are bonded into the ply edge sheet



Remove each elevon using a sharp knife to cut along the engraved line in the sheet, and the main ribs. Take you time and do this in multiple passes with the knife.

The servos are fitted from the underside of the wing and bonded to the top skin.



N.B. The elevon horns are made from pretty much unbreakable nylon sheet. Nylon isnt easy to glue so you must roughen the surface of the control horn for the adhesive to get a strong bond. We recommend either a foaming adhesive such as gorilla glue or epoxy and a thickening agent. if you don't have a suitable agent such as micro balloons you can mix the epoxy with baking soda to a soft butter like consistency. Scrape the epoxy into the hole for the horn and press the horn fully home. During curing rotate the wing every minute so the adhesive doesn't puddle one side The wing section is based on PW1211, The design notes for this section suggest a bottom hinged elevon, Sand a angle on the elevon.



The elevons are hinged using the covering material or alternatively with UV proof tape after covering

You will need to cut through the top skins for both the servo horn and elevon horn



For final radio installation we strongly suggest you head over to Nick Chitty Aviation on you tube. Nick provides some superb build videos and covers a number of topics that are sometimes difficult to do so in a few words and pictures only.



Battery Modification.

The soas is designed around a 4 cell AAA Receiver battery. We purchased ours from Overlander Batteries, Config 9. It needs small modifications to fit without grinding or sanding the ribs. Remove the outer heatshrink film and then release the lead so it exits in the centre of the battery pack as shown below.









Only an end pin RX can be used!





Centre Of Gravity the CofG must be set to 152mm from the wings leading edge for test flights. You can go further back from this point once you have flown the model. At this balance point we suggest that both elevons are raised 3mm from neutral

Control Throws

Elevator, Low rates 3mm up 3mm Down 20% Expo Elevator High rates 5mm up 4mm Down 33% Expo

Aileron , Low rates 6mm up 4mm Down 20% Expo Aileron , Hig rates 10mm up 8mm down 40% Expo

These are suggested starting points and should be adjusted to suit your own preference

We hope you enjoy building, flying and owning the Soas