



AVIATIONTOYS.NL GRUNAU BABY KIT.

Thank you for choosing this kit!

Tools needed to complete this kit;

1. hobby knife
2. sanding paper
3. wood glue(white glue), Ca and/or epoxy.
4. pins
5. pliers
6. flat building table

We will start with the wings.

Parts are in the sheets;

Plywood 1,2 and 3.

Balsa 5,6,7,9,10,11,12,13,14 and 15.

WARNING. It sounds obvious, but you'll be amazed how often it occurs people build two left wings, or two right ones...So take notice and make a left and right wing!

We start with the center panel by taking the main spar, slide in the wing ribs as shown on the pictures. Do not glue them yet. As you can see it is up side down at first, when all ribs are slid in we turn it back and place all on the drawing. Pay attention; the main spar should not touch the building surface because later the 1mm planking will be glued over the spar! You can put 1mm balsa under the spar to prevent it from being pushed to far in the slots. Do not forget to put slide in the plywood joiner(part "WJ"). Now place the trailing edge. When all lines up and is square you can glue it with CA. Make sure to glue it at all sides(front, back, left and right). Use a sanding block to sand away the remains of the notches, especially on the leading edge where the 1mm planking will be glued.

Before we glue on the 1mm planking we have to slide in the carbon tubes. when these are in place glue them all around, left and right from the wing ribs that holds them. Make sure to have a little extra length at the root.

Now we can glue on the 1mm planking, you can see details on the pictures. I recommend to use white glue for this step. When all is fixed trim down the excessive balsa with a sanding block. Sand the planking at the leading edge until you touch the wing ribs, take your time and make sure it is square and straight. DO NOT glue on the leading edge yet! For now we leave this "Harmonica" look. Also sand down the excessive balsa at the root and other side, also here make sure it is square and straight. Now glue "W1" at the root, as shown on the pictures. Last detail we have to do is to make and place the mount for the wing strut, parts "WS", "WST" and "WSB". The details you can check on the pictures and drawing.

Time for the wing tip and aileron.

We start the same way as with the center panel, but before we start planking we have to build the aileron. The pictures will guide you through to these steps. Also glue part "HF" against the back of the ribs before we go to the next step.

Pin down the wing tip (spar with the ribs) and trailing edge, part "A TE" on the plan. Now glue in the aileron ribs starting with "A" and then a number. These go in the trailing edge slots. The diagonal ribs start with "B". Now we have to glue part "HB" against the aileron ribs. Some sanding is needed on the aileron ribs to make it fit nice. Together these parts are the hingeline. Parts "D17" and "E17" are meant to hold the aileron horn which is glued in after covering. Time for planking the bottom. After joining the wing tip with the center panel we can add the top planking. Sand the leading adge in the same way as we did with the center panel.

Time to put in some servo wire, which are going from the servo bay through the spar and then through the ribs all the way to the root, as you can see on the pictures. After this last step we can add the leading edges. Ater sanding and trimming down the leading edges we can glue the tips. Be careful NOT to glue these to the aileron side! Of course these tips need some sanding to. Now you can cut the aileron loose from the wing tip, just cut it between parts "HF" and "HB" and sand it so it is a nice straight hingeline.

Last parts we have to do are for the servo bay. These are parts "SB 1 and 2" and "ST 1 and 2". the SB's are glued at the bottom side. After glueing ST1 and ST2 together you have to glue it on the topside. The hatch which comes out of part ST1 can be placed after the servo install.

Please check the pictures for extra details!