Hints for the construction

Before starting to construct the sailplane please study the building instructions carefully. Take a look at the full-size plan and arrange the separate parts according to the stages of construction. This will help you to make the completion of your model considerably faster and easier.

We kept the text in the instructions very brief as we assume that the OPTIMA is not a model for beginners. This will save you time you otherwise would have to spend on reading. However, many pictures and a detailed full-size plan will guarantee that even an average modeller will not have any problems.

Accessories required

For building the OPTIMA the equipment of a usual model builder's workshop will be sufficient. Furthermore you will need covering material (for high starts a click-off high start hook) and, of course, the radio set, if possible with mixers for aileron and rudder. For this purpose we recommend our SAM-FM with mixer module.

Gluing

Fibreglass resin-to-wood joints: 2 component adhesive (included in the kit)
Fibreglass resin-to-metal joints: 2 component adhesive (included in the kit)
wood-to-wood joints: P.V.A.
all rudder fillets: P.V.A.
Cockpit canopy and front fixing pins: plastic adhesive (not included)

1. Construction Stage

Fixing of the wings to the fuselage

Mark the holes on the fuselage according to the sketch and the plan and drill (see page 23).

The holes for the flaps are drilled later on. Please refer to the picture showing the fuselage.

The slot in the front and the key hole in the inside rib of both left and right wings are also cut as shown in the sketch on page 23 and picture.

Now you fit the wings to the fuselage with steel wire and brass tubings. Carefully align the wings (picture) and fix the tubing with a small amount of glue from the inside.

After hardening of the adhesive remove wings and wires from the fuselage and glue tubes firmly.

2. Construction Stage

Lining of Wings and Aileron

As shown in the plan remove the aileron and flaps from the die-cut sheet.

Now cut a hole in the planking at the bottom of the wing for the aileron pushrod (see picture page 6). The plan should serve as a guideline during this work.

Now the ailerons are lined with fillets. Glue the wing tips to the wing and carefully sand.