SVENSON
AIRPLANES

PRIMA

WELCOME TO THE BUILDING KIT PRIMA

LATEST NEWS ABOUT THIS KIT

Let us introduce ourselves:

Our company is the manufacturer of the SVENSON's Kits and we are working hard to improve and to increase the quality of all our kits.

Our kits have a good reputation for their design and flying capabilities. Some, however, have in the past, included intricate elements which were slow to build.

This Prima Kit is designed in the classic way and recently has been improved to give even higher quality.

Some new accessories such as the engine-mount, which allows you to install different types of engines, also, the inclusion of very light wheels have improved this kit.

More prefabricated parts with their finished shape, are included, (for instance ailerons, the trailing edge and elevator).

Strict production quality control ensures that you receive a complete kit with no sub-standard parts. Resultantly, building this kit has become easier, and the final result is a more efficient and higher quality model.

ASSEMBLY INSTRUCTIONS OF THE BUILDING KIT "PRIMA"

PRIMA is a versatile model of simple design. Being of strong and light construction, it is within reach of any modelling beginner.
If you fit an engine of 2,5 to 3,5 c.c. (.15 to .19) the PRIMA becomes an excellent, stable and slow-flying primary trainer which is very easy to fly.
Alternatively, if you fit an engine of 4 to 5 cc. displacement (.25 to .30), the PRIMA will turn into a fast and versatile model, capable of performing all acrobatic patterns.
Construction of the PRIMA can be accomplished directly on the plans, by following the step by step instructions.
We suggest that you protect the plan so that neither cement nor glue can stick to it. An easy way to do this is to use the backing-sheet of any iron-on material.
May we also suggest that you use a PVC wood glue for most of the construction, and epoxy glue for all those parts which need extra strength (e.g. landing gear bocks, etc.).
Glue with epoxy fuselage doublers F2 and F1 (ply).
Drill the holes for wing hold-down bolts F23 and install them now. The centres of these holes must coincide with those of the plastic piece.The centres printed are only guides.
Glue triangular reinforcements F3 and the side reinforcements F4 onto the printed zones of the sides F1.
Glue the stabilizer support F5 (balsa 8x3 mm).
Glue with epoxy the former F7 and the wing hold-down reinforcement F8.
Now it is the best time to drill with care, all the holes of this former. You will find the holes for the F19 (Ø 3,5 mm) steerable landing gear support printed on the former. The holes for the engine-mount (Ø 4 to 4,5 mm) must be made acording to the engine size you are goint to install. See detail B on the plan.
Fit and glue between the sides F1/F2 the fire wall F6 formers F7/F8, the main landing gear support F10 and the rear former F9. Keep the whole assembly together with rubber bands.
Make sure that everything is completely aligned and let dry completely.
Sand and chamfer the inner rear ends of the sides F1 for gluing them in place afterwards, following the plan.
Join and glue the rear ends of the sides, taking care to align them with the fuselage.
Cut and glue the fuselage reinforcements F4 (balsa 8x3 mm).
Glue the landing gear retainer blocks F11 and let dry.
Drill holes for the landing gear vertical link passage into both landing gear bocks F10 and F11.
Glue the front former F12 between the sides. Make sure that they are aligned. Keep together with rubber bands.
Cut and glue the two pieces (balsa 1,5 mm) that form the fuselage bottom F13.
Similarly, cut and glue the top planking F14.
At this moment it is advisable to drill the holes for the front landing gear link passage. To do this with precision, you should pass a long needle through support F19 until it reaches or pierces the bottom of the fuselage. Then you can enlarge this hole in a precise way.
Fit and glue the windscreen F15.
Fix the tank hatch F16 with one of the rubber bands which are in the box holding the balsa strips together or any other one of your choice. This rubber band is fixed to the screw F17..
Glue the trailing edge support F24 to former F9.
For cosmetic reasons, we recommend reducing by 2 or 3 mm, the top part of former F7,.
Adjust the wing saddle to ensure that the wing nestles in completely. You can now level the wing.
Sand the whole fuselage.
Install nose landing gear F18 with clamps F19 (already installed). Important, a collet must be fitted inside the tiller arm, and it can be found in the screw bag, together with a M3 allen screw. With its help, you will be able to adjust the height of the landing gear and the position of the tiller arm. Before installing, cut the tiller arm back to the first outer hole to allow it to move freely inside the fuselage.
Install the main landing gear F20 with clamps F21.

NOTE: The wheels are held on with starlock washers, supplied with the kit, or, with collets, not included in the kit. To avoid deforming the contours of the wheels, do not leave them, permanently under load, when model is not in use.

ELEVATOR AND RUDDER CONSTRUCTION (build first onto the plan)

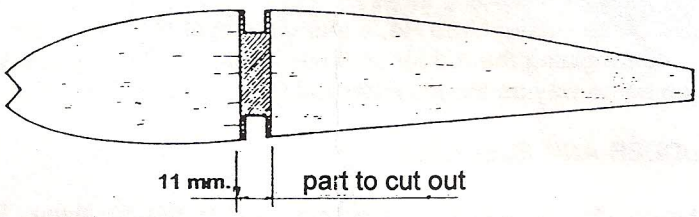
STABILIZER - (build it first on the plan)

Pin down on the plan main spar S1 (balsa 6x12 mm)
Pin and glue stabilizer center S2.
Shape, pin and glue center reinforcement S3 (balsa 6x12 mm).
Pin and glue leading edge S4 (balsa 6x12 mm).
Pin and glue stabilizer tips S5 (balsa 6x12 mm).
Cut and glue stabilizer webs S6 (balsa 6x3 mm).
Cut from scrap balsa 6 mm tip reinforcement.
Install elevator S7 with hinges S8 in the places shown on the plan by cutting a slot into the main spar S1 and into the elevator S7 with a modelling knife.

WING CONSTRUCTION

If you have a dihedral construction board, both parts or the wing can be constructed simultaneously. To install the dihedral angle, the construction board must be at 3,5° or what is necessary to elevate 40 mm under one wingtip of 20 mm under both wing tips.
If no dihedral construction board is available, each wing-half is constructed separately, flat on the plan. Inside the box you will find copy of the central part of the wing.

Pin the bottom edge planking W1 on the plan (balsa 1,5 mm).
Now pin and glue the bottom main spar W2 (balsa 6x6 mm) in its place.
Pin and glue the bottom center planking W3 (balsa 1,5 mm).
Pin and glue the edges of the bottom capstrips W5 (balsa 1,5 mm).
Pin and glue the bottom trailing edge planking W4 (balsa 1,5 mm).
Glue the dihedral braces W6 (ply) to main spar W2.
Glue in place the ribs W7.



NOTE: The three central ribs of each wing-half must be cut to allow the fitting of the dihedral braces W6 and then be glued to them.

Glue the trailing edge spar W8 (balsa 8x3 mm).
Glue the hinges reinforcements and aileron anchoring supports (strip of 6x6 or 8x8 mm).
Glue top main spar W9 (balsa 6x6 mm) to each slot of the rib.
Glue leading edge W10 (balsa 6x6 mm) to the slot at the end of the ribs.
Adjust and glue the wing hold-down dowel W11.
Glue the top leading edge planking W12 (balsa 1,5 mm).
Now install the small plywood plate which will hold the servo.
Glue wing top center planking W13 (balsa 1,5 mm).
Glue wing top plankings W18 (balsa 1,5 mm diecut)
Glue top trailing edge planking W14 (balsa 1,5 mm).
Glue top capstrips W15 (balsa 1,5 mm).
Let dry.
Detach the wing from the construction board.
Glue the bottom planking W1.
Build wingtips with the triangular pieces W16-W17 and wing bottom planking W19 adjusting the whole wingtip.

Install the aileron linkages W20 and the central section of trailing edge W21, where a slot must be made to allow the links to pass. Afterwards they must be glued with the linkage already in place. The link rods must be cut, bent and their edges rounded in order to get a good fitting inside the aileron (see plan).
A similar slot must be made in the ailerons when installing them.
Glue the trailing edge reinforcement W22 (ply).
Sand the whole wing.
Install ailerons W23 and the hinges W24.

FUSELAGE CONSTRUCTION

Before starting construction, take out all the diecut pieces and sand the edges. This will make your work much easier and will make the building more precise.
Preparation of the fuselage sides.
ATTENTION: Prepare left and right hand fuselage sides.
Cut-out printed fuselage sides F1 (balsa 2 mm). and drill holes for the controls.

NOTE: The hinges must be glued with epoxy after covering the tailplane and elevator.
Sand the stabilizer and bevel the edges.
Install the elevator horn S9.

RUDDER CONSTRUCTION (build it first onto the plan)

Pin down leading edge R1 and traiing edge R2 8balsa 6x12 mm).
Pin and glue the fin tip R3 (balsa 6x12 mm).
Pin and glue base R4 (balsa 6x2 mm). Reinforce the joint between R1 and R4 with a piece of scrap balsa 6 mm.
Glue rudder webs R5 (balsa 6x6 mm).
Adjust and glue R6.
Sand the rudder and shape the leading edge R1.
Glue onto both sides of the rudder base R4, a triangular spar R7 (balsa 8x8 mm). (This gives a greater surface area for gluing the rudder onto the fuselage). Sand and shape rudder R8.
Install the rudder the same way as the stabilizer rudder and install horn R10.

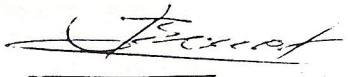
ASSEMBLING RUDDER AND ELEVATOR

Slip and glue elevator into its place on the rear end of the fuselage. Ensuring straight alignment with the axle. Glue rudder into place on top of the fuselage, ensuring straight alignment with the stabilizer.

We sincerely hope, that this kit will give you a lot of satisfaction, not only for its realism in flight, but also in the building of it.

Apart from our own efforts, we would be very pleased to receive your suggestions and comments to keep on improving this kit.

By SVENSON



MADE IN SPAIN

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STUKLIJST

F1	Onderste romplijst	2	Balsa 6 X 6 mm
F2	Zijbeplanking	2	Balsa 2 mm uitgekapt
F3	Zijbeplanking	2	Balsa 2 mm uitgekapt
F4	Zijbeplanking	2	Balsa 2 mm uitgekapt
F5	Zijbeplanking	2	Balsa 2 mm uitgekapt
F6	Zijbeplanking	2	Balsa 2 mm uitgekapt
F7	Zijbeplanking	2	Balsa 2 mm uitgekapt
F8	Vertikale romplijst	22	Balsa 6 X 6 mm
F9	Romplijst	2	Balsa 6 X 6 mm
F10	Romplijst	2	Balsa 6 X 6 mm
F11	Romplijst	2	Balsa 6 X 6 mm
F12	Romplijst	2	Balsa 6 X 6 mm
F13	Versterking / vleugel drevel	2	Triplex uitgekapt
F14	Buikbeplanking	1	Balsa 2 mm uitgekapt
F15	Buikbeplanking	1	Balsa 2 mm uitgekapt
F16	Buikbeplanking	1	Tiplex 1,5 mm uitgekapt
F16bis	Versterking / sleephaak	1	Triplex 1,5 mm uitgekapt
F17	Buikbeplanking	1	Balsa 2 mm uitgekapt
F18	Dwarslijst	19	Balsa 6 X 6 mm
F19	Rompspant	1	2 X Triplex 1,5 mm uitgekapt
F20	Dekselhouder	2	Triplex 1,5 mm uitgekapt
F21	Neusblok	2	Balsa 22 X 56 X 46
F22	Dekselhouder	2	Triplex 1,5 mm uitgekapt
F23	Deksel	1	Balsa 1,5 X 50 X 125 mm
F24	Vleugeldrevel	2	Hard hout Ø 6 X 70 mm
S1	Hoofdlijst	2	Balsa 6 X 6 mm
S2	Centerstuk	1	Balsa 6 X 50 X 53 mm
S3	Rib	12	Balsa 6 X 6 mm
S4	Aanvalsboordlijst	2	Balsa 6 X 6 mm
S5	Vluchtboordlijst	2	Balsa 6 X 6 mm
S6	Tip	4	Balsa 6 X 6 mm
R1	Hoofdlijst	1	Balsa 6 X 6 mm
R2	Versterking	2	Balsa 6 X 6 mm
R3	Rib	4	Balsa 6 X 6 mm
R4	Aanvalsboordlijst	1	Balsa 6 X 6 mm
R5	Vluchtboordlijst	1	Balsa 6 X 6 mm
R6	Top	2	Balsa 6 X 6 mm
R7	Versterking	2	Balsa 6 X 6 mm
R8	Driehoekige versterking	2	Balsa 8 X 8 X 75 mm
W1	Onderste hoofdlijst	2	5 X 3 X 755 mm
W2	Onderste middenbeplanking	2	Balsa 1,5 X 45 X 90
W3	Onderste middenbeplanking	2	Balsa 1,5 X 70 X 90
W4	Onderste vluchtboordbeplanking	2	Balsa 1,5 X 30 X 755
W5	Rib	20	Balsa 1,5 mm uitgekapt
W6	Rib	2	Balsa 1,5 mm uitgekapt
W7	Aanvalsboordlijst	2	Balsa 6 X 6 X 755 mm
W8	Bovenste hoofdlijst	2	5 X 3 X 755 mm
W9	Hoeksteller	2	Triples 1,5 mm uitgekapt
W10	Centerrib	4	Balsa 1,5 mm uitgekapt
W11	Bovenste aanvalsboordbeplanking	2	Balsa 1,5 X 53 X 755 mm
W12	Bovenste middenbeplanking	2	Balsa 1,5 X 70 X 90 mm
W13	Bovenste vluchtboordbeplanking	2	Balsa 1,5 X 30 X 755 mm
W14	Vleugeltip	2	Balsa 1,5 mm uitgekapt
W15	Vleugelbescherming	1	Triplex 1,5 mm uitgekapt
W16	Vleugelbescherming	1	Triplex 1,5 mm uitgekapt
P1	Tweedelige basis	1	Triplex 1,5 mm uitgekapt
P2	Staander	1	Triplex 3 mm uitgekapt
P3	Staander	1	Triplex 3 mm uitgekapt
P4	Staander	1	Triplex 3 mm uitgekapt
P5	Staander	1	Triplex 3 mm uitgekapt
P6	Motorplaat	1	Triplex 3 mm uitgekapt
P7	Blok	2	Balsa 35 X 15 X 60 mm

ALLERLEI

2 schroeven M3 + 4 moerplaatjes + 2 moertjes M3 (motordrager)
2 roerhoorntjes + 2 moertjes M3
1 sleephaak + 2 houtschroeven + 2 moerplaatjes
6 nylon scharnieren