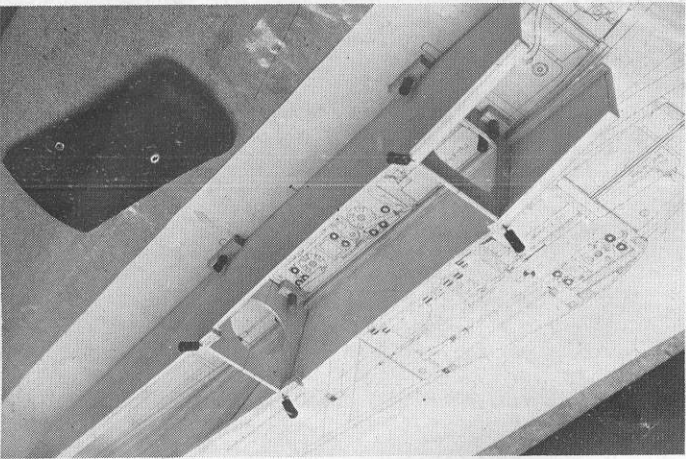
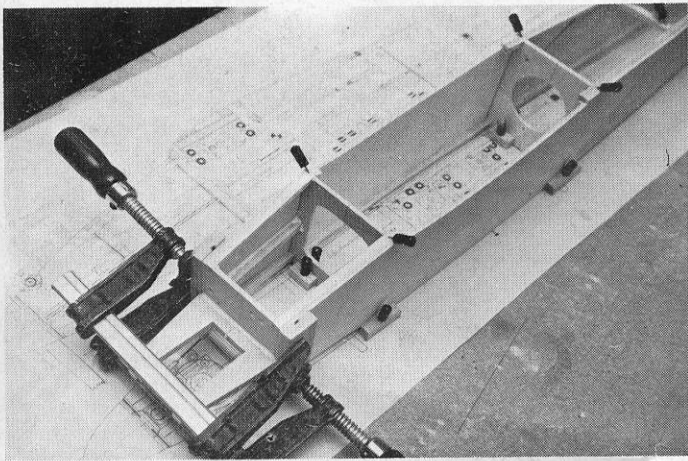


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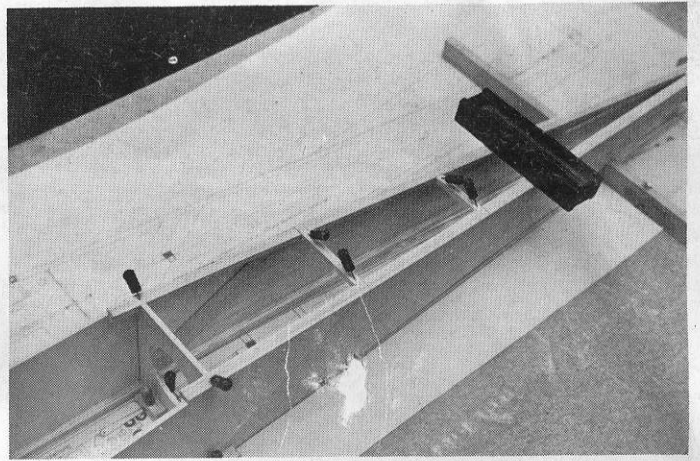


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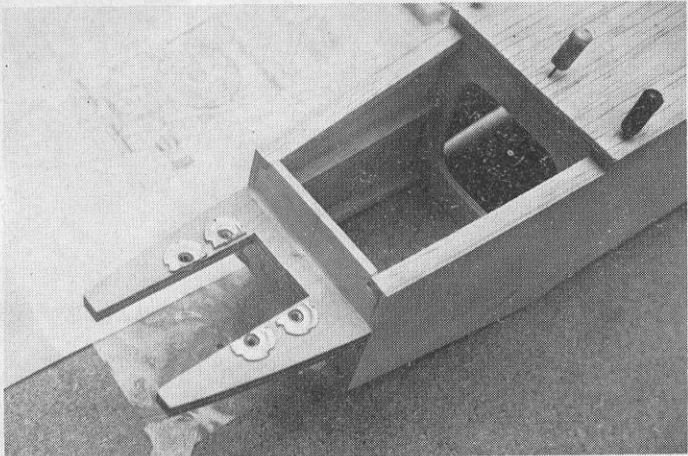
Baustufenfotos zum robbe-Montageskasten „Rasant“



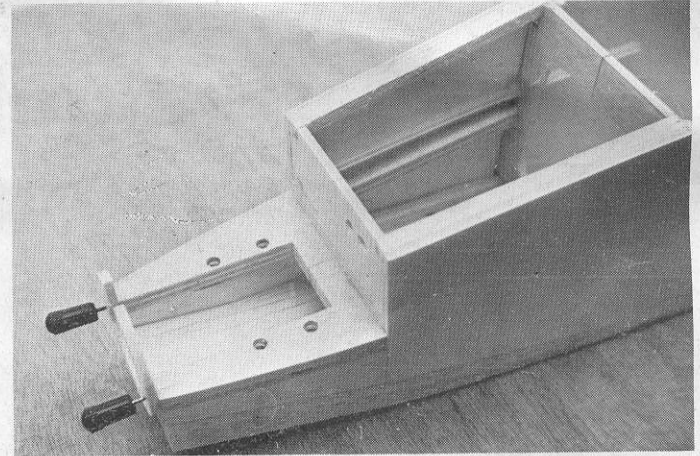
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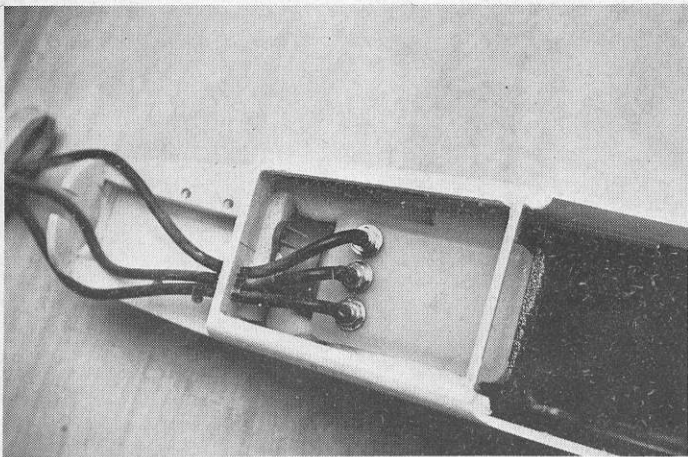
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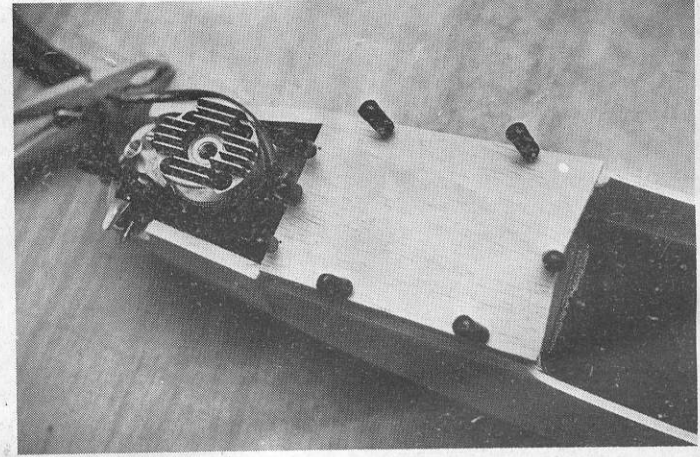
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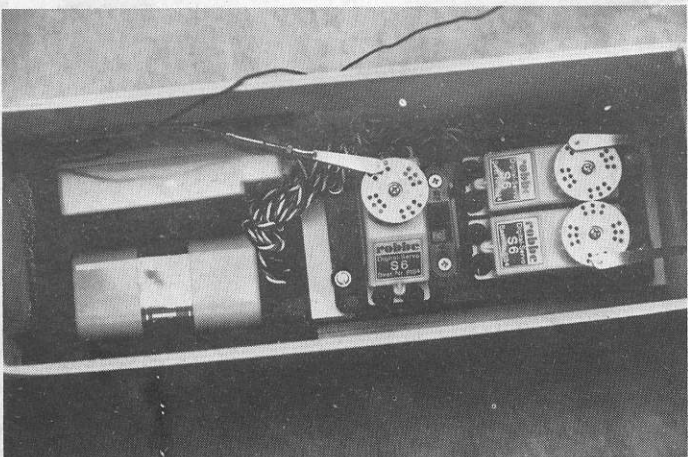
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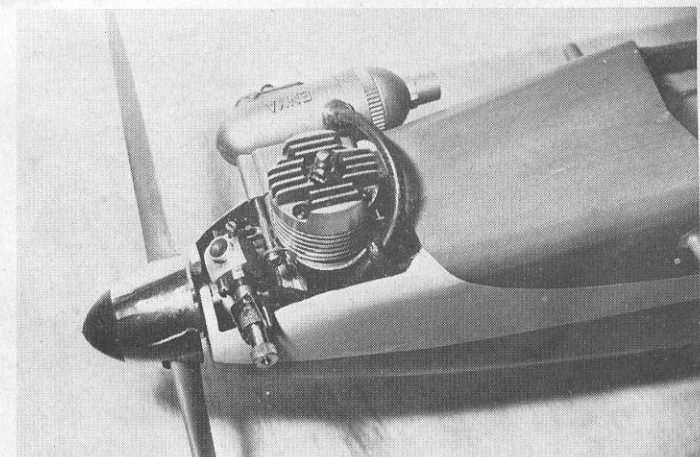
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8



9



10

TECHNICAL DATA

	<u>RASANT & RASANT TF</u>	<u>RASANT SPEED</u>
Fuselage Length	935 mm.	935 mm
Wing Span	900 mm.	900 mm
Wing Area	18,9 dm ²	15,075 dm ²
Tail Plane Area	5,14 dm ²	5,14 dm ²
Total Area	24,04 dm ²	20,21 dm ²
Flying Weight	1040 g	1020 g
Wing Loading	43g/dm ²	50,4g/dm ²
Profile	NACA 2412	NACA 2412
Motor	.19 cu in	.19 cu in
R. C.	2.3 or 4 function	2.3 or 4 function

Accessories NOT included but necessary. Order No. Piece No.

1 CLUNK TANK 100 ccm.	7598	22
1 PACKET FUEL TUBE	7557	23
1 .19 cu in Motor	7109	24
1 PACKET MOTOR FIXING SCREWS	7210	25
1 PACKET ALLERON RODS	5116	49
1 PACKET QUICK LINKS	6133	57,62,66,70,83
1 PACKET COMBINED QUICK LINK & ROD	6120	80
1 PACKET THREADED CONNECTOR	6129	58,60,68,81
1 PIECE STEEL ROD Ø 1.5 mm	7851/15	59
1 PIECE STEEL ROD Ø 1.0 mm	7851/1	67,86
1 PACKET CELLULOR FOAM	5105	55, 76
1 PACKET RUDDER HORNS	5131	63
1 PROPELLOR 9 x 4	7693	84
1 SPINNER Ø 40 mm	7225	85

Covering Material

Tissue 12/21 g/m ²	4 pieces	5049-5050 in White or Red
or		
robbe-silk	2 pieces	5033-5057
or		
robbe Super Solarfilm	2 pieces	5210-5224 in many colours.

If you are using Tissue or Silk you will need:

Sancting Sealer 'S'	1 x 250 ccm	Order No.
Dope "Spritfest Super"	5 x 100 ccm	5506
Dope "Spritfest Super"	4 x 100 ccm (Approx)	5520
Brush 'large'		5524/2 - 5524/5 in 4 colours.
Brush 'large'		6006
Brush 'Camel Hair'		6007

FUEL

For a new motor:
 robbe-roktan G with AKA (5 Litre) 5155
 When run in
 robbe-roktan "G" Special with AKA (5 Litre) 5157

GENERAL

As advanced RC pilot you will be absolutely thrilled with the performance of the Mini-Racer "Rasant".

The model's performance can be geared from a docile flyer up to hot-rod standards. From basic aerobatics to the most outstanding manoeuvres the Robbe-Rasant responds to rudder control crisply. There is no situation from which the model can not be recovered safely. The relatively large chord of the wing enables the model to fly slowly and steadily when throttled and will respond instantly to full throttle by climbing vertically into the sky, if commanded. Using elevator, rudder and aileron, the model is fully aerobatic. For those who are bent on speed, the rudder may be dispensed with. Even the throttle servo may be discarded; provided you remember that all fuel must be used before the model can be landed safely.

This model is strongly built. The front section of fuselage is constructed from 3 mm ply, the landing skid from 12 mm Balsa. Only a very severe impact will result in serious damage.

Despite the model's excellent stability (and of course your own ability), safety regulations should be observed when high-speed flight especially is being carried out. Never use the casual spectator, other RC pilots or anything else "in the air" as a target.

This Robbe kit contains all wooden and other parts for completing the model. All parts are pre-cut and ready for use. Building plan is to scale 1 : 1, with detailed RC installation shown. Building instructions with photographs Piece and Material List are all included.

Whilst the model appears simple to build we strongly recommend careful study of the Plan and Instructions before commencing with the building. As all parts are pre-cut assembly proceeds very quickly.

It is important to understand how the RC equipment functions in connection with the movement of flying surfaces. Familiarize yourself with the installation procedure, and, if using equipment other than Robbe-digital, you may follow in general the advice given, but must be prepared to make minor adjustments to suit your particular RC system.

GENERAL BUILDING INFORMATION

The numbering of the building parts coincides approximately ; with the building sequence of the Plan.

The plans for Fuselage, Rudder, Tailplane and Wing must be used for building upon. To protect plans, it is suggested you cover them with a thin Polythene Sheet. Sectional drawings are also shown on the plan. The building plan included in the kit is drawn to scale 1:1. This is to be used for building upon.

In the centre pages of the original German language instructions are pull-out photographs of various stages of construction.

The Piece and Material List specifies the quantity of materials, size and type, and indicated under the heading "Piece List" is the location of each item as shown by its respective number on the plan.

Example

There is one Balsa board 3 x 80 x 320 provided. From this the parts 15 and 26 are made. If you use the Material List as a key, you avoid wastages of wood.

BUILDING BOARD

If not already available, you will need the following: -

- 1 Board (plywood) 15 x 250 x 1000 mm for Wing
- 1 Board (plywood) 15 x 250 x 1000 mm for Fuselage

The Tailplane may be glued on the wing building board prior to construction of the wing itself. The BUILDING BOARD MUST BE ABSOLUTELY TRUE.

TOOLS

Fretsaw, fretsaw-blades, fretsaw-table. Balsa knife (Order No. 5555 & 5558) Balsa plane with blade (Order No. 6099 - 6099/1), finishing abrasive paper (Order No. 5551) coarse, medium and fine sandpaper. Small hand drill 0 - 6 or 0 - 8 mm, chuck, drill \emptyset 1,5 - 2-3-6 mm, pliers, side-cutter, soldering iron, solder, soldering resin, flux, large dope brush, (Order No. 6006). Camel hair-brush (Order No. 6007) razor blades, pins, small nails, small hammer (50g). Beechwood toothpicks.

GLUES

Contact glue - Rudol-fix, Rudol plastic glue, Pattex or Uhu-Kontakt
White glue - Rudol-coll, Uhu-coll, Ponal, Binden, Propeller glue.

Polyester	-	Bullit small pack (available at your stockist)
Quick-dryer glue	-	Stabilit-express (polyester base)
Cellulose glue	-	Rudol-hart, Uhu-hart.
Plastic glue	-	Rudol-lastic, Uhu Plastic

PREPARATION

It is important that all parts are identified and sorted in order of Fuselage, Tail and Wing. Check all pre-cut parts against plan. Adjust any small flaws with sandpaper. Position for holes and slots are drawn on the plan and are easily transferred to the corresponding parts. Check that the wing ribs are a push-fit onto the Spar. Adjust if necessary as this operation is most important to ensure a warp-free wing.

LEADING EDGE PLANKING

This work is made easier by using two people. Contact adhesive is recommended. Cover one side only of planking with contact glue. The helper holds the planking about 20 cm above the Main Spar and final rib; while you hold the other side of planking with one hand so that it cannot touch ribs. With the other hand press planking to Main Spar, little by little, until the last rib is reached. As you move nearer to your helper, he lowers the planking. Attention has to be paid that the planking remains true to the Spar. Then push the planking away from Main Spar towards Leading Edge.

BUILDING SEQUENCE

It is recommended to keep to following sequence of construction.

FUSELAGE

If not otherwise stated, use white glue. Cut out Fuselage Section and Plan View, transfer to building board and cover with Polythene.

Start with right fuselage side and use the cut out section of plan to build upon.

Glue together Fuselage Side 1 (Front) and Side 2 (rear) with Cellulose glue.

Align Fuselage Side and secure to outline with pins. Over the join glue Re-inforcement 3 with white glue, ensure that position is correct and secure against movement with pins.

Glue the Fuselage Longerons 4,5,6, & 7 flush against Fuselage lower edge and fuselage upper edge respectively, and secure with pins. When dry, remove all pins and take off board.

Then construct left Fuselage Side likewise, but ensure that you end up with one left-hand side and one right-hand side of fuselage. Glue parts 3-7 into position. When both halves are completed and dry, sand smooth the external surface of the join (Photo 1)

With 8x8 or 10x10 pieces (off-cuts) position formers 8 & 9 to Plan View of fuselage. The centre line of formers must correspond to that of the Plan. The Fuselage Sides are glued against Formers according to Plan View and secured with pins and small blocks against movement. Ensure that fuselage sides are at right angles to building board. (Photo 2)

When dry, draw together both sides of fuselage, glue and secure with clamps. Align fuselage tail end to centre line on plan. Check that sides remain at right angle. Then position Former 10 and Motor Mount 11 left and 12 right, glue and secure with G-clamps. Align to centre line and check 90° angle. When referring to 'left' and 'right' in respect of an aircraft one looks

from the tail towards the motor over the wing. (Photo 3)

At this stage fit the motor of your choice (Enya 19 V RC shown) A motor of capacity .19 cu.in. is recommended. Make ϕ 4 mm holes as indicated, cut to size, and insert from underneath, Locknuts 13 (Photo 5)

Cut to length and glue Cross Spacers 14 to plan, (Photo 4), when dry remove fuselage from building board. Glue into position lower Cross Spacers 14, Fuselage Floor Centre piece 15, Fuselage Floor rear 15 and secure with pins. (Photo 5)

Cut out to plan Motor Mounting Strengthenner 17, align and glue flush to Motor Mounting outer edges. Make sure that no adhesive gets onto thread of Locknuts. Sand strengthenner to Section, fit in Skid 18 and glue. Leave to dry and sand to plan following line of side-thrust. Mark position of Motor Mount on Former 19, glue into position and fix with small nails. (Photo 6)

Make two long slits into fuselage rear as indicated on plan. Ensure that this is a slit, not an elongated hole. Insert Guide Tubes 20 & 21 and glue with Epoxy.

Mount Clunk Tank 22 and insert Fuel Tube 23 from the front into the fuselage via Former 10 into Former 8. The centre tube is the feed to carburettor. Where tubes pass through Former 10 secure with suitable adhesive. Place 5mm of foam in front of tank and around tank to serve as padding. (Photo 7)

Provisionally insert Motor 24, fit into position Fuselage Top Piece forward 26, Motor Cowling 27 as well as Fuselage Top Piece rear 28, glue and secure with pins. (Photo 8) Leave to dry and sand to section.

When using Speed-Wing omit Part 26 and substitute with part 26a.

TAILPLANE AND FIN

Cut out Tailplane Diagram and secure to building board, cover with Polythene sheet. The Tailplane is constructed from parts 29-31. Mark centre line on parts 29 & 30. Then glue parts 29, 30, 31 together onto building board and secure with pins. When dry, cut to correct angle the parts 30 and 31.

Glue together Fin parts 33 - 35 over side view of fuselage plan and secure with pins. When dry, lift both parts from plan and sand to section profile. The Rudder and Elevator 30 and 36 are only connected when covering has been completed.

Pass the Tailplane through the fuselage slit (no tight spots), align, wedge and glue. Glue the Fin to the fuselage at right angles and running on the centre line. Check that no movement occurs during drying time.

WING

Cut out details for Wing from building plan and secure to building board. Fasten Auxiliary Strip (2x5 mm) to board. Fasten Main Spar 37 lower with 1,5-2mm thick plywood strips to board (see sketch) Glue Centre Ribs 38 and ribs 39 to Main Spar at right angles to board. Glue into position Trailing Edge 40, Leading Edge 41 and upper Main Spar 37 and secure with pins.

Carefully sand Leading and Trailing Edges to profile. Mount Trailing Edge Planking 42, Leading Edge Planking 43 and Centre Piece Planking 44 with contact glue. Refer to "Planking" paragraph.

Position Main Spar webbing 44a and glue to Main Spar. Cut to length Rib Capping Strip 45 and glue on. Lift Wing off board, turn over, and sand Leading and Trailing Edges to profile and re-secure to building board.

The quality of your Wing depends, from this stage on, on the quality of your workmanship.

Secure against movement of wing with weights or pins.

Using method previously described, fix and glue lower Trailing, Leading Edges, and Centre Section Planking. ONCE THIS OPERATION IS COMPLETE, THE WING IS SET AND NO FAULTS CAN BE RECTIFIED. Cut Rib Capping Strips and glue.

Cut Trailing Edge Stubs 46 as plan and glue to Edge of wing. (Not wing tips.)

When dry, trim away any excess material with Balsa knife and smooth.

Take special care when sanding to profile the Leading Edge. Glue on Tip Blocks 47 smooth and round off edges. Expose the space between Ribs 38, Leading Edge and Main Spar on underside of wing to accommodate Aileron. Cut Aileron 48 to Plan and Section A-A and smooth edges. The Ailerons are connected to the wing via hinges only after covering has been completed. Angle Aileron lever 49, and glue to Trailing Edge with 5 minute Epoxy. Please note the unsymmetrical positioning of the Aileron Pieces 49. This completes the basic construction of the model.

WING Rasant-TF and Rasant-Speed

Cut out Aileron space per plan. Remove Polystyrene core carefully until upper planking is reached. Under no circumstances damage planking. Trim edges of Polystyrene, apply coat of white glue to seal. Glue with white glue, Trailing Edge 40 and Leading Edge 41, secure with pins and rubber bands and leave to dry. Sand Trailing and Leading Edge to profile, glue into position Trailing Edge Stub 46 and Tip Blocks 47, leave to dry and sand to profile.

All further work is carried out as per instructions for conventional wing.

COVERING

"Rasant" may be covered with Modelspan 21 g / Sgm (order No. 5049/5050), or with robbe-silk (order No. 5052-5060) or with Solarfilm (order No. 5210-5224). Irrespective of materials used, the material must always be applied in sections as follows: -

Start with Rudder (left and right,) then Elevator (top and bottom,) then Fuselage belly, fuselage sides (left and right). Fin (left and right) and finally the fuselage top. When covering the Wing start with underside, followed by top.

If you decide to use silk or paper, here is a typical method for covering the Rudder for instance:- Firstly apply 2-3 coats of sanding-sealer (order No. 5505-5508) to wooden parts. Leave to dry between coats. Sand after each coat, using fine Garnet paper...when this work has been completed the surface should be smooth and water repellent. You may now start covering. Cut out a suitably large piece of covering material (approx 1cm oversize.) place onto the rudder and sprinkle with water. Silk will conform to edges, whereas paper will have to be cut.

Smooth out creases and air bubbles. Coat the still damp material with thinned dope and leave to dry. Cut off excess material and apply a second coat of dope.

Sand overlaps with fine glass paper and apply 2-3 coats of thinned dope.

SPECIAL COVERING HINT FOR THIN SHEET SURFACES

When applying dope to a Fin for instance, it is important that both sides of the Fin are coated at the same time. This avoids warping the fin.

IMPORTANT

If using Solarfilm you must not apply Sanding Sealer to the wooden parts. Follow manufacturers instructions on the use of Solarfilm.

FINAL ASSEMBLY

Connect Elevator to Tailplane with Hinges 50; likewise the Rudder to the Fin. With Epoxy fasten Ailerons 48 to Aileron Pieces 49 and fix with Hinges 50 to Wing. Smear all Hinges with Cellulose glue, insert into slots and secure with Dowels 51 (toothpicks). Cut to length Wing Fixing Dowels 51a, round edges and fix into fuselage.

R.C.-INSTALLATION

The original German language instructions on RC installation did refer to robbe-Digital equipment. This equipment is not available in Great Britain. We therefore suggest that you follow the details as per plan, in general but you must make adjustments to mounting measurements etc.

Remember to keep all linkages - cables etc, free from tension at all times especially at the maximum travel. Provide adequate protection for the RC equipment in case of any mishaps.

BALANCING

Support the model at centre of gravity and let it swing to a standstill. The ideal position is reached when the model balances slightly nose down. Use ballast to counterbalance model as necessary.

In the Speed version the balance point lies 100 mm behind the Wing Leading Edge. Measure from centre of wing.

TRIALS

Select a windlass day and secure the help of an assistant, who has experience of hand launching models.

Check that the RC equipment is functioning correctly and also check that the motor remains running when the model is positioned in attitudes. Point the model into wind and launch with a firm push from the hand. Immediately upon release prepare to take over control. Observe the model closely during flight and make corrections as necessary by adjusting the appropriate control surface, once the model has landed.

A "Rasant" correctly built should fly 'off the board' and give no trouble.

POSSIBLE PROBLEMS

1) The "Stall" and 2) The "Dive".

1) This is where the model climbs immediately upon take-off, it loses speed, the wing no longer provides lift and the model descends nose first. Correction Apply down elevator, close throttle and land. Place a 12mm thick packing strip under the trailing edge. This reduces the angle of incidence.

2) This is where the model descends immediately in take off, it gains speed and this can result in severe damage on impact. Correction Apply up-elevator, close throttle and land. Place 1-2mm thick packing strip under leading edge of wing. This increases the angle of incidence to give more lift.

In both instances it is a case of trial and error until the model behaves correctly.

CHECKING FOR TIP-STALL

Gain height, close throttle, by gentle application of up-elevator attempt to keep altitude. If the model goes into a flat spin or starts manoeuvring violently, the fault probably lies in the fact that: a) the wing is warped, or b) the wing is misaligned with the fuselage, or c) too great an elevator movement.

DOWN-THRUST

When the model flies horizontally on full power and dives when throttled, adjust the downthrust angle as necessary.

Now we wish you happy flying, with "Rasant",

yours robbe-Werk.

PIECE LIST for CONSTRUCTION KIT "RASANT"

Piece List No.	Description	Material	Measurement in mm.	Qty.	Remarks
1	FUSELAGE Side Piece, front	Plywood	3 ready made	2	
2	FUSELAGE Side Piece, rear	Balsa	3 ready made	2	
3	Side Piece Re-inforcement	Plywood	1 ready made	2	
4	Fuselage Longeron lower rear	Balsa	5x5x 710	2	
5	Fuselage Longeron lower front	Balsa	5x5x 85	2	
6	Fuselage Longeron upper front	Balsa	5x5x 90	2	
7	Fuselage Longeron upper rear	Balsa	5x5x 515	2	
8-9	Formers	Plywood	3 ready made	1 ea.	
10	Formers	Plywood	3 ready made	1	
11	Motor Mount left	Plywood	6 ready made	1	
12	Motor Mount right	Plywood	6 ready made	1	
13	Locknuts	Steel	M 3	4	
14	Fuselage Spacers	Balsa	5x5 as plan	7	
15	Fuselage Floor, Centre	Balsa	3x80x 215	1	
16	Fuselage Floor Rear	Balsa	1,5x80x 500	1	
17	Motor Mount Strengthenner	Balsa	8 as plan	2	
18	Skid	Balsa	12x80x 150	1	
19	Spacer	Plywood	3 ready made	1	
20	Guide Tube-Throttle	Plastic	Ø 3,2x Ø 2,2	1	as plan.
21	Guide Tube, Elevator & Rudder	Plastic	Ø 3,2x Ø 2,2x	2	as plan
22	Clunk Tank 100 ccm	Plastic	Order No. 7598	1	Not Included.
23	Fuel Tube	Silicon	Order No. 7557	1	pack Not Included.
24	Motor, 19 cu.inch		Order No. 7109	1	Not Included.
25	Motor Fixing Screws Steel. M 3		Order No. 7210	1	pack Not Included.

PIECE LIST CONTINUATION "RASANT"

Piece List No.	Description	Material	Measurement in mm	Qty.	Remarks.
26	Fuselage Top Piece Front	Balsa	3x80 as plan	1	
26a	Fuselage Top Piece Front	Balsa	3x80 as plan	1	Only with "Speed"
27	Motor Cowling	Balsa	5 as plan	2	
28	Fuselage Top Piece rear	Balsa	1,5 x 80 x 515	1	
<u>TAILPLANE</u>					
29	TP-Front Piece	Balsa	4 ready made	1	
30	TP-Centre Piece	Balsa	4 x 80 x 360	1	
31	TP-Tip Blocks	Balsa	4 x 20 x 80	2	
32	Elevator	Balsa	4 ready made	1	
<u>FIN</u>					
33	Fin-Part front	Balsa	4 ready made	1	
34	Fin-Part centre	Balsa	4 ready made	1	
35	Fin-Part rear	Balsa	4 ready made	1	
36	Rudder	Balsa	4 ready made	1	
<u>WING</u>					
37	Main Spar	Balsa	5 x 5 x 890	2	Omitted in TF
38	Middle Ribs	Balsa	5 ready made	2	Omitted in TF
39	Ribs	Balsa	1,5 ready made	12	Omitted in TF
40	Trailing Edge	Balsa	5 x 8 x 890	1	
41	Leading Edge	Balsa	8 x 11,5 x 890	1	
42	Trailing Edge Planking	Balsa	1,5x20 x 890	2	Omitted in TF
43	Leading Edge Planking	Balsa	1,5x80 x 890	2	Omitted in TF
44	Centre Section Planking	Balsa	1,5x100x 215	2	Omitted in TF
44a	Main Spar	Balsa	1,5x 66 x 22	13	Omitted in TF
45	Webbing (Vertical grain) Capping Strips ribs	Balsa	1,5 x 5 x 92	20	Omitted in TF
46	Trailing Edge struts	Balsa	6:0,5 x 20 x 45	2	as plan
47	Tip Blocks	Balsa	5 x 27 x 210	2	as plan
48	Aileron	Balsa	6:0,5 x 20 x344	2	
49	Aileron Lever	Plastic	Order No. 5116	1	pack. Not included.

PRICE LIST CONTINUATION "RASANT"	Measurement in mm	Qty.	Remarks.
50 Hinge	Plastic 0,3 x 12,20	15	
51 Dowel (toothpick)	Beech Ø 2	30	Not included.
51a Dowel for Wing	Beech Ø 6 x 97	2	

PIECE LIST for robbe-CONSTRUCTION KIT "Rasant TF and Rasant Speed"

Piece nos. 37, 38, 39, 42, 43, 44, 44a, 45 are omitted.
Other Material measurements as per piece nos. 40, 41 and 47.

RASANT TF

40	Trailing Edge	Balsa	8 x 8 x 890	1	
41	Leading Edge	Balsa	8 x 15 x 890	1	
47	Tip Blocks	Balsa	5 x 27 x 210	2	

RASANT SPEED

40	Trailing Edge	Balsa	8 x 8 x 890	1	
41	Leading Edge	Balsa	8 x 15 x 480	2	
47	Tip Block	Balsa	5 x 20 x 130	2	

RC Fixing Pieces are not included in the building kit, nor are any Servos, Receivers or Battery Packs.

PIECE LIST for robbe CONSTRUCTION KIT "RASANT"

Materials and Size in mm Quality Qty. Piece No. Remarks.

Balsa Strips

1,5 x 5 x 500		4	45	
5 x 5 x 900		2	4, 5, 6,	
5 x 5 x 900	Hard	2	37	
5 x 5 x 750		2	7,14	
5 x 8 x 900		1	40	
8 x 11,5 x 900		1	41	
6: 0,5 x 20 x 800		1	46,48	

Balsa Boards

1,5 x 20 x 900		2	42	
1,5 x 80 x 900		3	28, 43, 44a	
1,5 x 80 x 500		2	16, 44	
3 x 80 x 320		1	15, 26	

PIECE LIST for robbe CONSTRUCTION KIT "RASANT"

continued.....

Balsa Boards

Materials and Size in mm	Quality	Qty.	Piece No.	Remarks.
4 x 20 x 170		1	31	
4 x 80 x 360		1	30	
5 x 27 x 430		1	47	
5 x 80 x 70		1	27	
8 x 50 x 70		1	17	
12x 80 x 150		1	18	

Beech

Ø 6 x 200		1	51a	
Locknuts M3	Steel	4	13	
Guide Tube Ø 3,2 x Ø2,2x1000	Plastic	1	20,21	
Hinges 0,3 x 12 x 20	Plastic	15	50	

Building Plan 1
Building Instructions with Photos 1
Decals 1 x Rasant, 1 x robbe
2 x robbe-Rasant with arrow 1 set

PIECES TO BE CUT OUT

Fuselage Side Piece rear,
Tailplane Front Piece Elevator
Tailplane Piece front
Tailplane Piece rear
Tailplane Piece middle
Rudder, & Ribs.
Middle Ribs.

MATERIAL LIST for robbe CONSTRUCTION KIT "TF" and "SPEED"

Balsa Strips

5 x 5 x 900		2	4,5,6	
5 x 5 x 750		2	7, 14	
6: 0,5 x 20 x 800		1	46, 48	
8 x 8 x 900		1	40	
8 x 15 x 900		1	41	Only for TF
8 x 15 x 480		2	41	Only for Speed

Balsa Boards

1,5 x 80 x 520		1	28	
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MATERIAL LIST for "TF and "SPEED"

... continued...

Balsa Boards contd.	Quality	Qty.	Piece No.	Remarks
1,5 x 80 x 500		1	16	
3 x 80 x 320		1	15, 26	
4 x 20 x 170		1	31	
4 x 80 x 360		1	30	
5 x 27 x 430		1	47	Only for TF
5 x 20 x 270		1	47	Only for SPEED
5 x 80 x 70		1	27	
8 x 50 x 70		1	17	
12x 80 x 150		1	18	
Beech				
∅ 6 x 200		1	51a	
Locknuts M3	Steel	4	13	
Guide Tube ∅3,2 x ∅2,2 x 1000	Plastic	1	20, 21	
Hinges 0,3 x 12 x 20	Plastic	15	50	
Polystyrene Wing TF		1		no number. Only TF
Polystyrene Wing Speed		1		no number. Only Speed
Building Plan		1		
Instructions		1		
Photos		1 set		
Decals robe Rasant		1 set		