

### List of parts RAPID:

Fibreglass fuselage	1 pcs.
Wing	2 pcs.
Stab with elevator	1 pcs.
Rudder w. post + hinges	1+2 pcs.
Wing joiner $\phi$ 8 mm	1 pcs.
Wing joiner $\phi$ 3 mm	1 pcs.
Bulkheads 1, 2, 3, 4, 5, 6	1 pcs. each
Part 7	1 pcs.
Pushrod	3 pcs.
Pushrod ending $\phi$ 2 mm	1 pcs.
Clevis	4 pcs.
Stabilizer horn	2 pcs.
Aileron horn	2 pcs.
Nut	2 pcs.
Aluminium washers for $\phi$ 3 mm screw	2 pcs.
Plastic screw $\phi$ 3 mm	2 pcs.
Rudder horn w. screws $\phi$ 2 x 16 mm	1+2 pcs.
Servo cover	2 pcs.
Part 10	1 pcs.
Canopy fastening wire	1 pcs.
Screws $\phi$ 2.2 x 6.5 mm for the canopy	2 pcs.
Rudder pushrod wire $\phi$ 0.8 mm	2 pcs.
Variable ending	1 pcs.
Brass tube $\phi$ 3/2 x 10 mm	1 pcs.
Decals	
Instructions	

Warning! The producer is not responsible for any problems caused by departing from the Instructions.



## RAPID

Wingspan:	2280 mm
Length:	1150 mm
Empty weight:	860 g
Profil:	SD 3021 mod
Area:	43,9 dm <sup>2</sup>

REICHARD MODELSPORT

Palackého 134 a

612 00, BRNO.CZ

# RAPID

Dear customer,

Rapid is a thermic glider of classic construction with elliptical wing. The wing is triple bent which makes it very stabile and ideal for beginners as well as for advanced pilots. The reinforcement in centre of the wing and diagonal ribs throughout the whole wing allow high speed fly and easy aerobatics. The wings are ready for brake installation (sold separately).

Rapid is a topmodel this category.

• also produced as a glider

**RC function:** Rudder, Stabilizer, Ailerons, Motor, (Brakes)

## Special Features:

- Fibreglass fuselage, reinforced with skid in upper part
- Balsa constructional wing made by CNC technology
- Wing centre reinforced
- Extended GFK fibreglass canopy makes easy access to RC parts
- 8 and 3 mm steel rod wing joiners
- Pre-hinged, finished ailerons
- Transparent Oracover on wings and balsa tail parts
- Tight covering, with all seams hand-sealed
- Includes all necessary hardware

## Recommended equipment

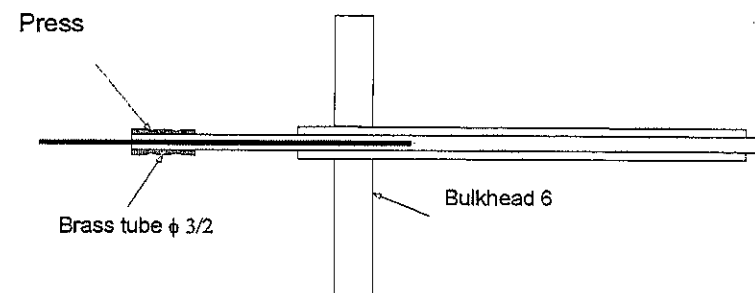
MIG 600 turbo BB 8,4 V	JES 350	7 x Sanyo 2000 SCR	5 x HS 81	230/120 9/5"
VM 24/10	JES 350	7 x Sanyo 2000 SCR	5 x HS 81	230/120 9/5"
SPEED 600 7.2V+1/3	JES 350	8 x 2000 SCR/ 8 x 1600 CP	5 x HS 81	280/200 11/8"
AC 22/20/3E	JES 40 3P	7 x Sanyo 2400 SCR	5 x HS 81	250/150 10/6"

## Glider variant

5 x HS 81

Glue the fuselage bulkheads. Insert the pushrods into the holes in bulkhead 6 and glue them.

Use rudder horn and clevis to join the rudder with its servo. The stabiliser is controlled by two pushrods. One glued horn with a pushrod belongs to each stabiliser flap. Insert the  $\phi$  0.8 mm wire in each inner pushrod. Use a piece of brass tube to connect the wire with the pushrod. Press the tube in two points. This connection is very safe.



Insert pushrods into variable ending. Both pushrods are controlled by a single servo. The stabiliser horns must be glued precisely not to result in a different deviation.

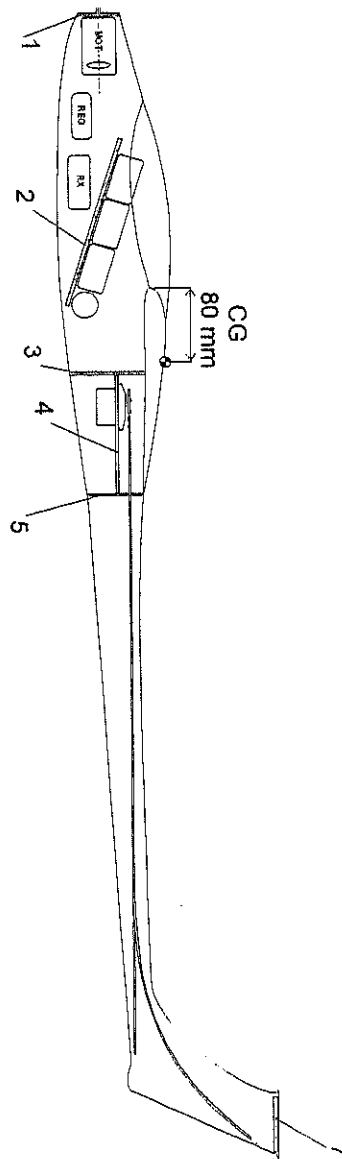
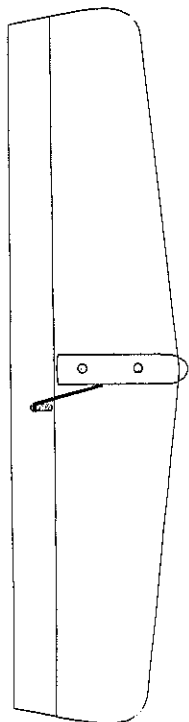
Insert battery pack on the bulkhead 2. Trim the model by shifting of the battery pack to find the right CG. We recommend to secure battery pack on the mount using a piece of Velcro tape.

## Model setting

Stabilizer:  $\pm$  6 mm  
 Rudder:  $\pm$  10 mm  
 Ailerons: + 10 mm / - 4mm  
 Brakes: 50 % / 100 %

Have a lot of fun with your RAPID

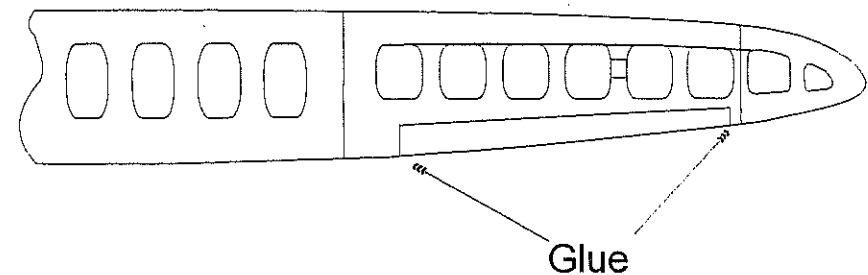
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## WING:

**Version 1:** Block the ailerons by gluing them on their sides.

fig 1



## Version 2:

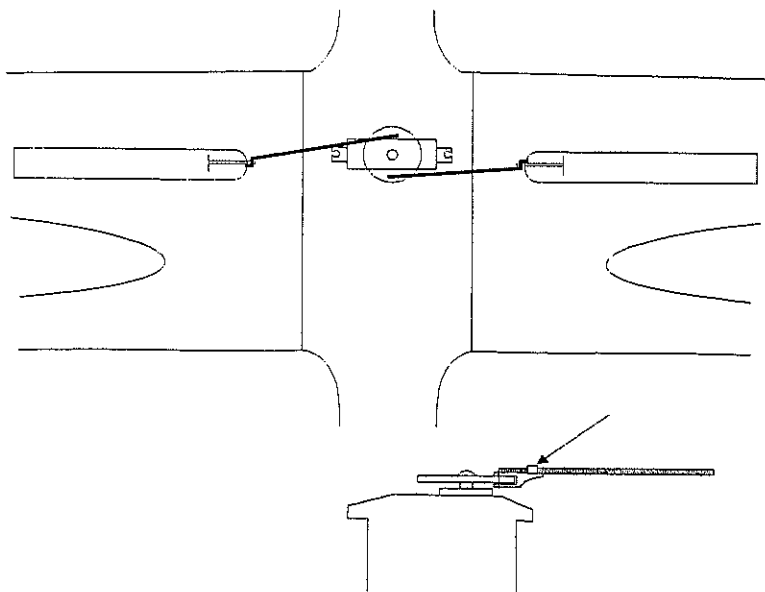
Open the bays in the wings to install the aileron servos (use mini or micro servos) and cover them by aileron covers.

Iron the covering around edges. Run the servo cables through the holes using the soft wire preinstalled.

## Version 3:

Open the bays in the wings to install the brakes. (Note that the brakes are not a part of kit.) Cut off the covering film and balsa wood cover. Glue the cut cover on the upper part of the brake. The brakes are controlled by two short "Z" wires. Both wires are controlled by a single servo which is placed in the middle of fuselage.

fig 2



### FUSELAGE:

Drill the holes into leads in the rudder and finish them to  $\phi 3$  mm using a rat tail file. Insert and glue the pushrods. Always glue the pushrods completed, i.e. including the inner part.

Mark the holes on the part 7 and drill them out for fastening of stabilizer. Push nuts M3 in the part 7 and glue the set into the stabilizer. Then glue the fin post.

Glue the motor mount in the front of fuselage. We recommend to rub off the motor mount using sandpaper. Install the motor mount using a  $\phi 10$  mm screw to assure correct thrust direction. The side thrust line should be about  $2^\circ$  right and  $2^\circ$  down (from the top view). The values can vary a bit according to the used motor and propeller.

