FW-190

Kit of radio controlled electro-flyer

Wingspan:	850 mm
Length:	740 mm
Flight weight:	350-450 g

The kit of this aircraft is mainly produced of extruded polypropylene EPP. This material ensures excellent durability and lifetime. Thanks its properties, this model enables pleasant flying and also more demanding acrobatic manoeuvres, perhaps even air fights.
Thanks the material, this model can survive many of collisions without damage and in any case, smaller damage can be repaired directly on the runway.
Model is to a great extent in good degree of completion and its completion will not require much time. Model is not designated for the beginners - that is why the assembly operation is not described in details. Design and final appearance of this model shall be modified considering selected engine and modeller's skills and habits.

List of Kit parts:

Fuselage - EPP	3 pcs
Cabin - transparent	1 pc
Cabin frame	1 pcs
Wing - EPP	2 pcs
Control surfaces - EPP	2 pcs
Elevator joiner	1 pc
Plywood	1 pc
Control horns	3 pcs
plastic bolt + nut	1 + 1 pc
Rudder connecting rods	1 + 1 pc
wooden pin	1 pc
Instructions CD	1pc

Further necessary tools for assembly:

CyA glue, CyA glue accelerator, polyurethane glue, epoxy, contact glue, sharp knife

Recommended drive:

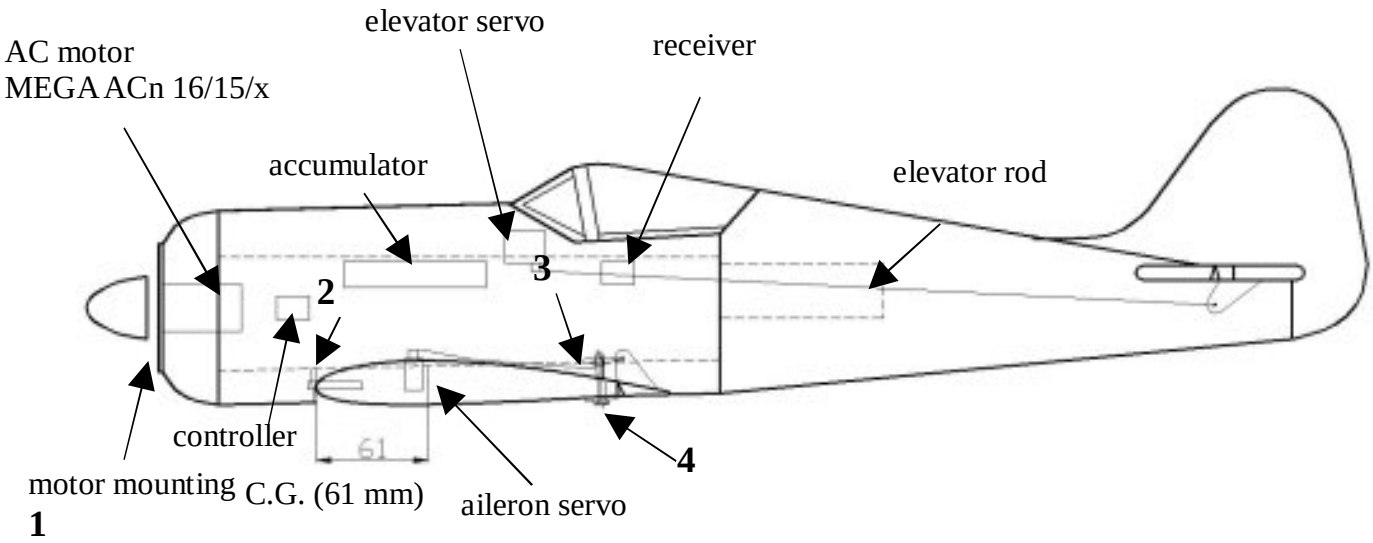
Motor	**Gearbox**	**controller**	**propeller**
Mega Acn 16/15/6-8	**-**	**TMM 1210-3 (12A)**	**APC 9x6**
MPJ AC 25/25-26 Mk.2	MPJ 5:1	TMM 1210-3	APC 9x6
Mega RC 400/15/6	-	TMM 1210-3	APC 9x6
AXI 2208/26	-	TMM 1210-3	APC 9x6
Speed 300	MPJ 5:1	TMM 0810	APC 9x6

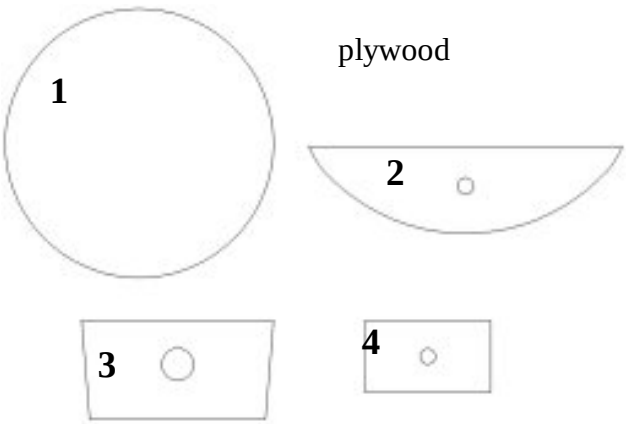
Accumulators: 2x Li-pol 1000 mAh, 7-8 x NiCd 500 mAh, 8 x NiMh 800 mAh

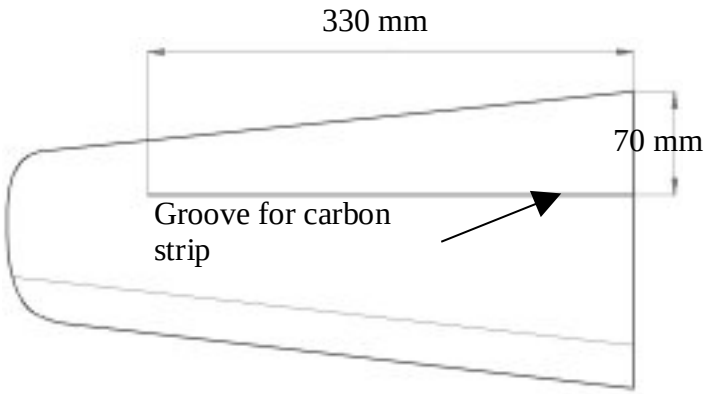
Kit assembly:

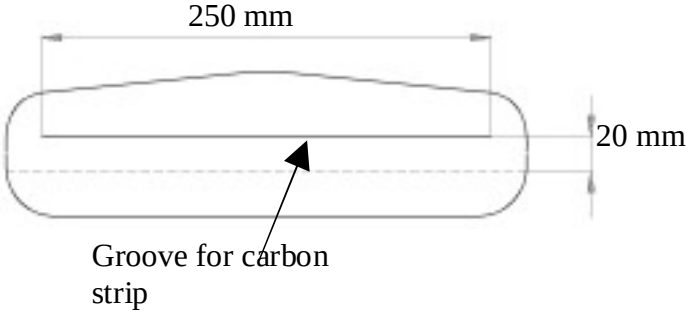
Start the assembly by cutting the grooves for carbon strip in to the wing. Cutting is done perpendicularily to the wing surface, using a sharp knife. Insert the carbon strip in to the groove and fix by thin liquid CyA glue. Stick together both halves of the wing. Apply polyurethane glue to inner surface and CyA glue to the wing circumference. Cut off the middle part of ailerons and bevel (cant) the center part. Cut off the opening for aileron servo. Make grooves in to ailerons and glue-in the levers. Use polyurethane glue. Make the ailerons rods by forming the steel wire.
Make the opening for bowden in the rear part of the body. Paste the elevator bowden in to the opening. Paste together lower part of the body with the opening. Paste well together front and rear part of the body. For pasting use CyA glue in combination with polyurethane glue.
Make the openings for elevator servo in the body cavity. Openings shall be tight. Cut the notch for ailerons' rods in the body sidewalls.

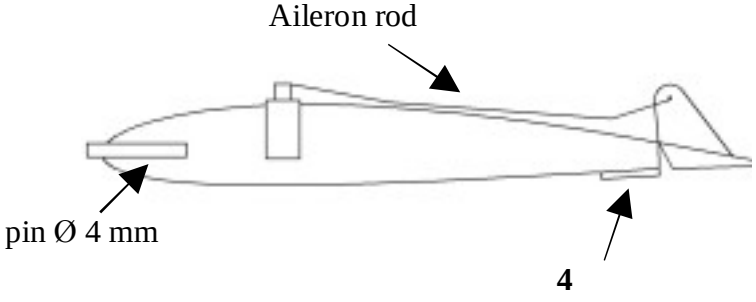
Form the engine bedding considering on the engine type. Paste the engine bedding in to the front part of the body, using epoxy glue. Do not forget the cooling openings. Paste complete assembly on the front part of the body.
Cut the opening for carbon strip in the middle part of the elevator. Paste the tape in to the groove using CyA glue. Form the connecting rod for the elevator (elevator junction) from steel wire and paste it inside. Paste the elevator and rudder in to the body. Pay attention to the perpendicularity of both elements. Paste the control lever in to the cuttings, using polyurethane glue.
Paste the plastic foil frame to the cabin semi-product. Paste the cabin to the body by contact glue.

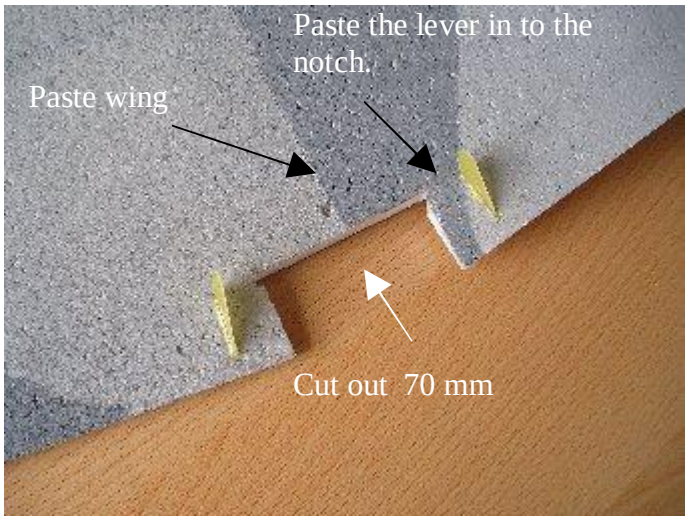


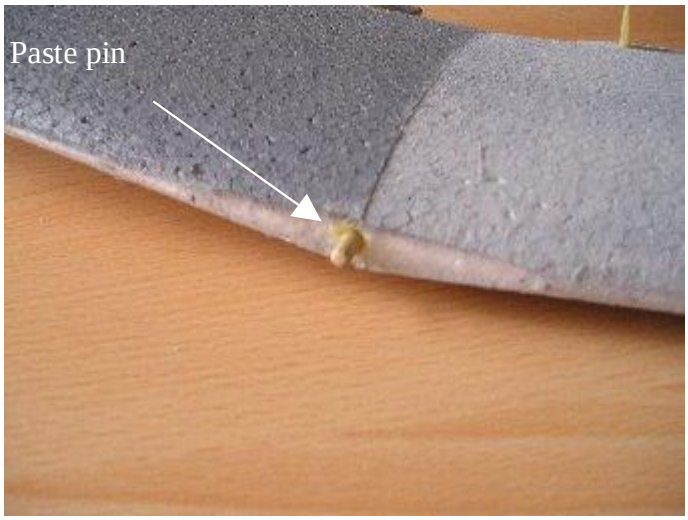


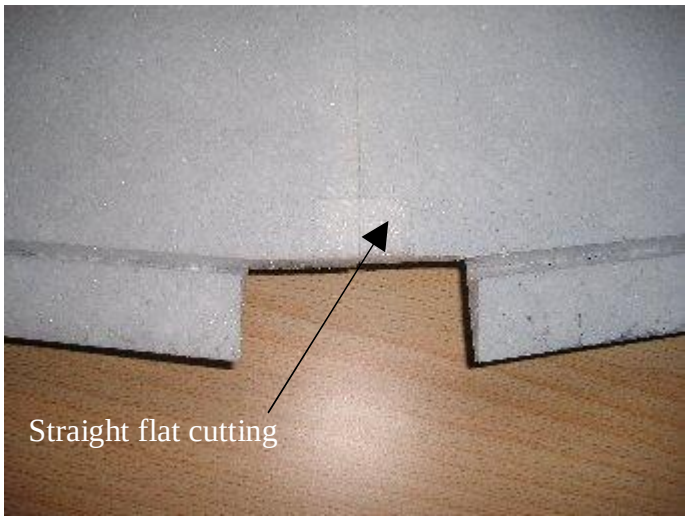


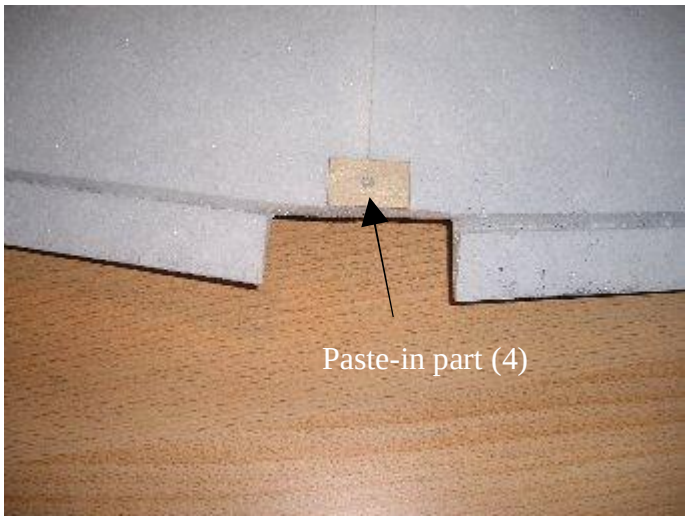


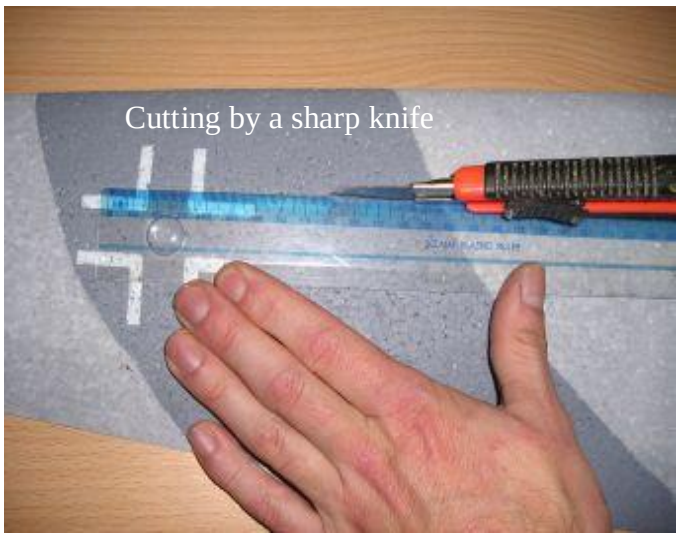


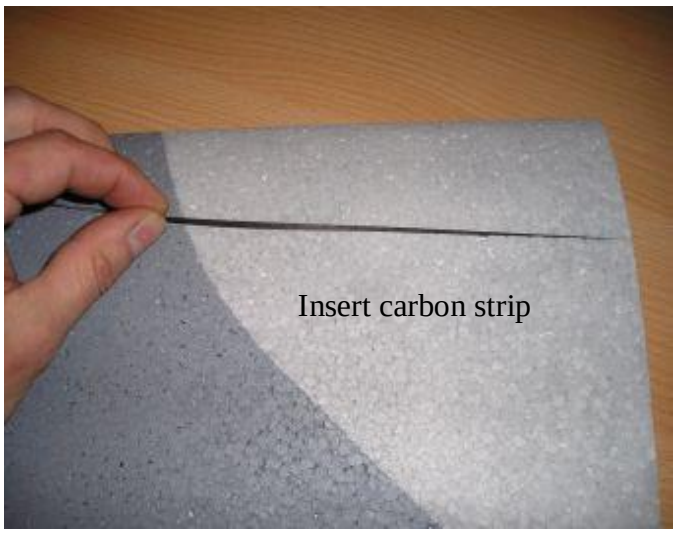

Paste the lever in to the notch.
Paste wing
Cut out 70 mm


Paste pin

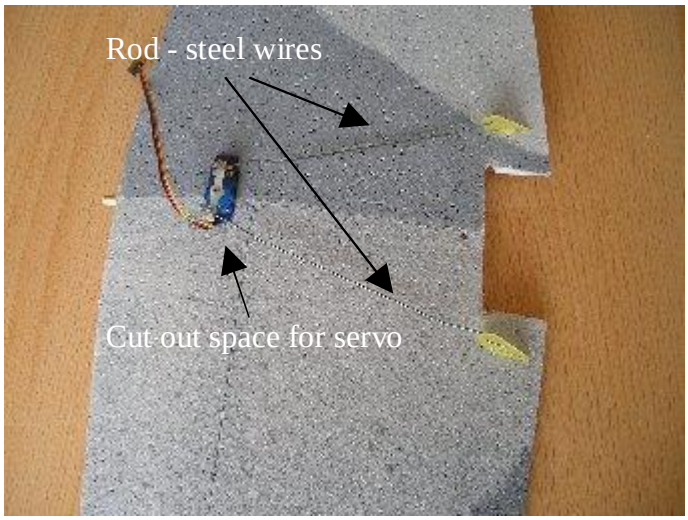

Straight flat cutting

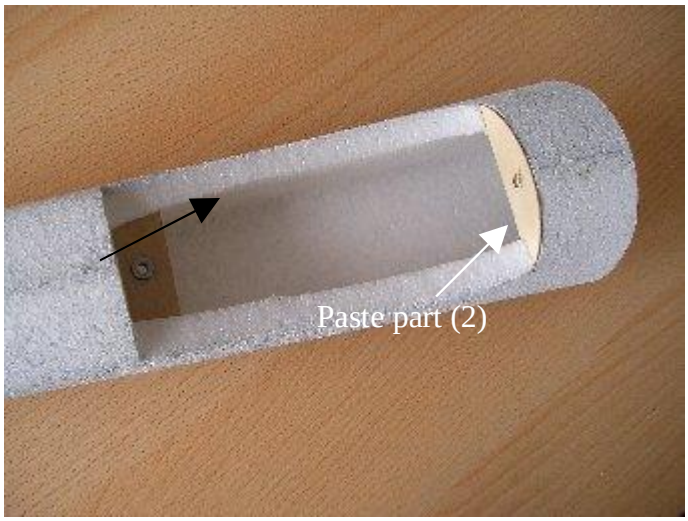

Paste-in part (4)

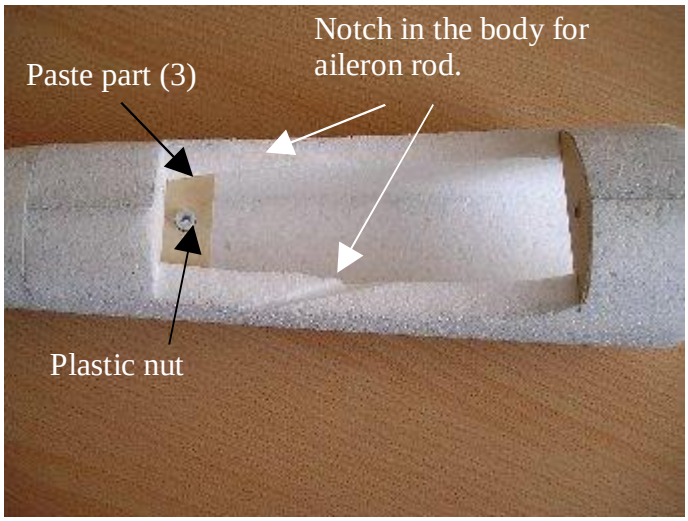

Cutting by a sharp knife

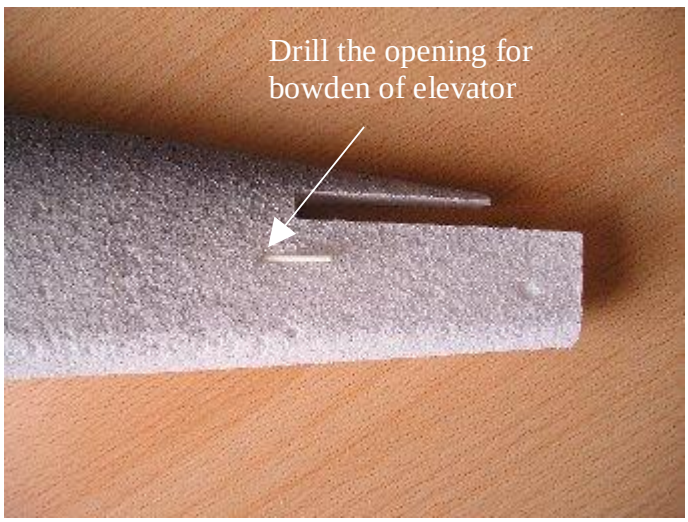

Insert carbon strip

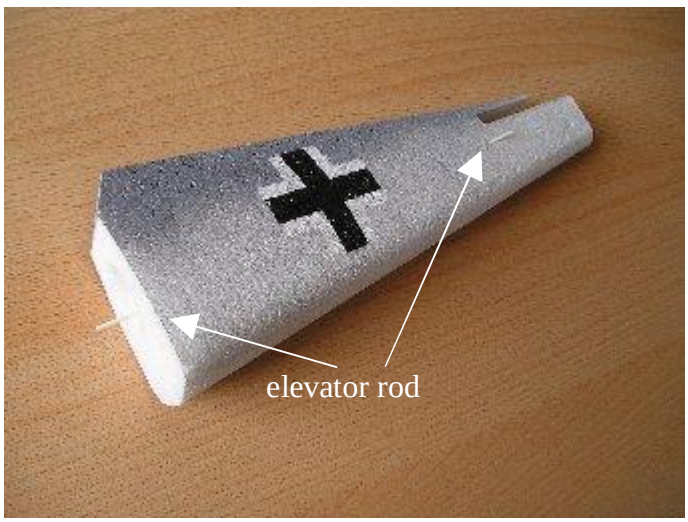

Paste carbon strip by CyA glue

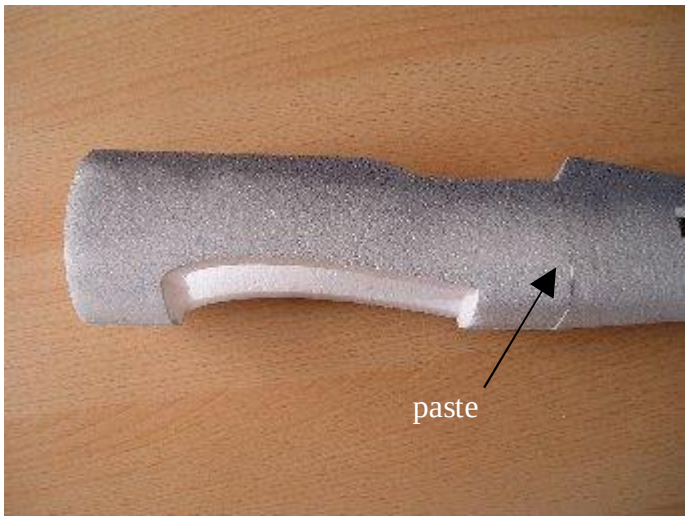

Rod - steel wires
Cut out space for servo

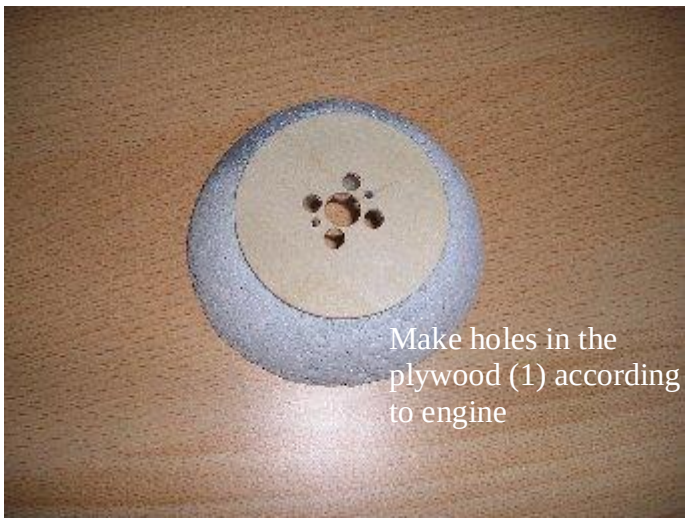

Paste part (2)

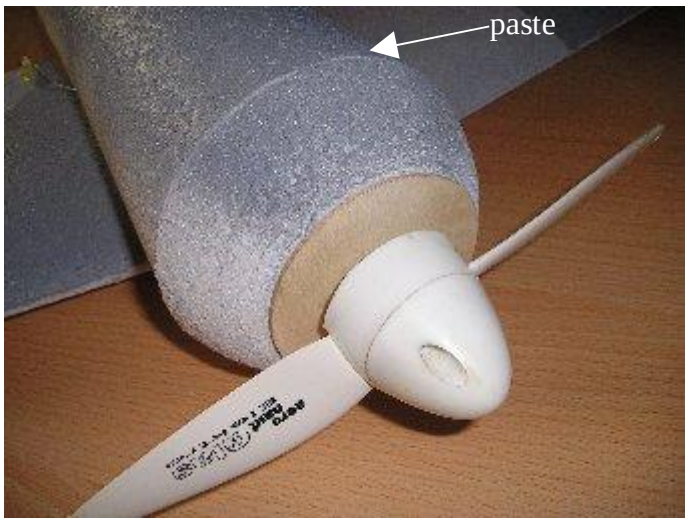

Notch in the body for aileron rod.
Paste part (3)
Plastic nut


Drill the opening for bowden of elevator


elevator rod

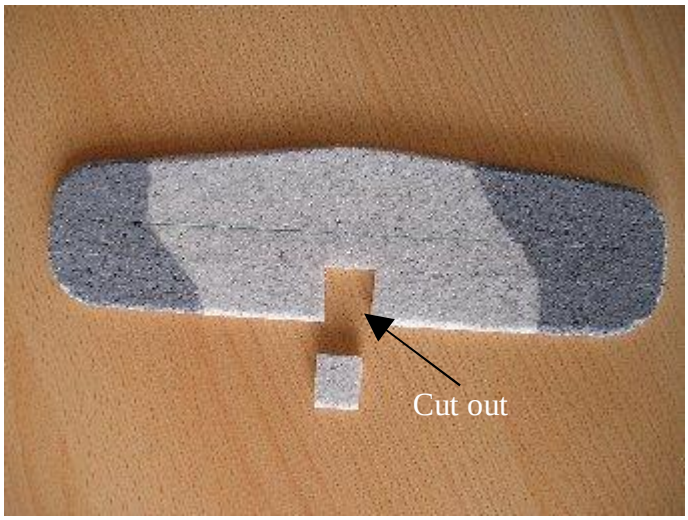

paste

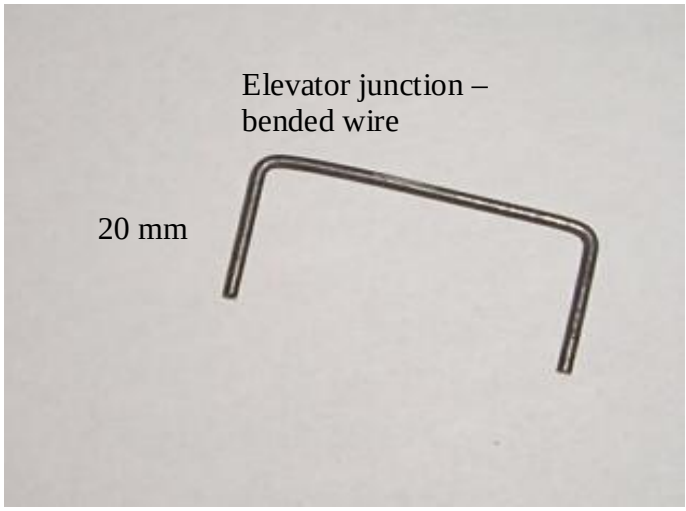

Make holes in the plywood (1) according to engine

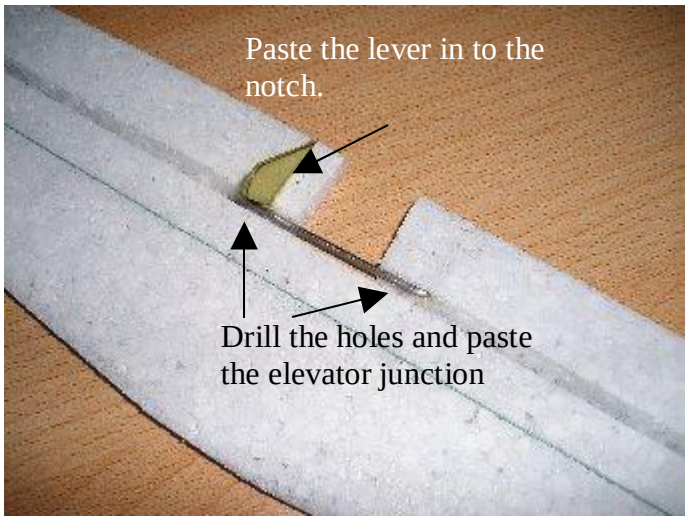

paste

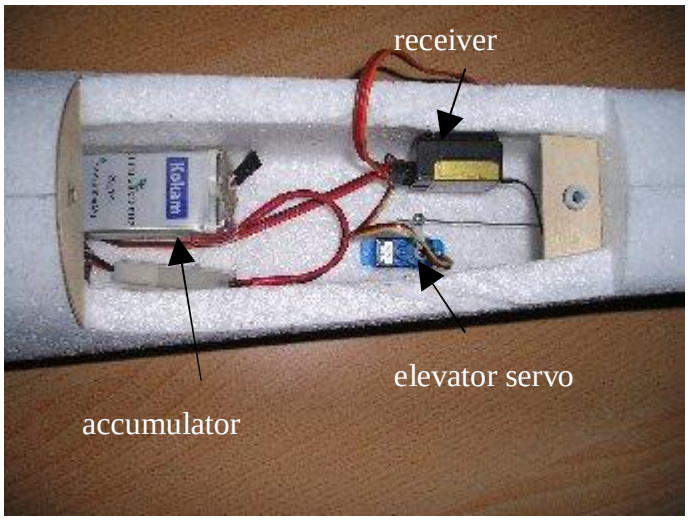

Cutting by a sharp knife

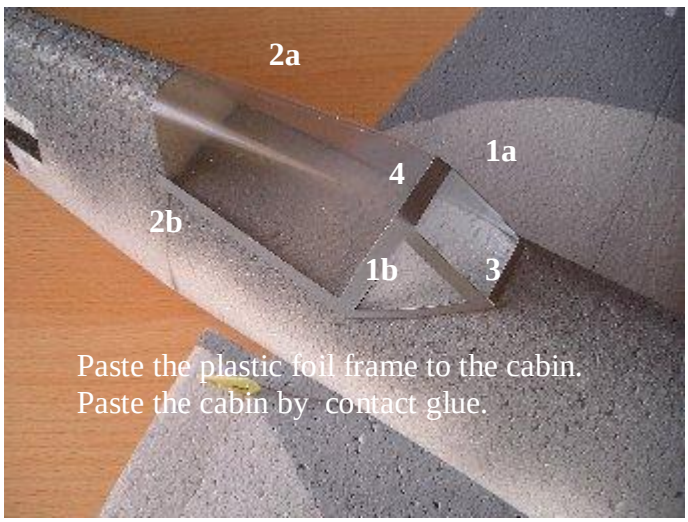

Paste carbon strip by CyA glue

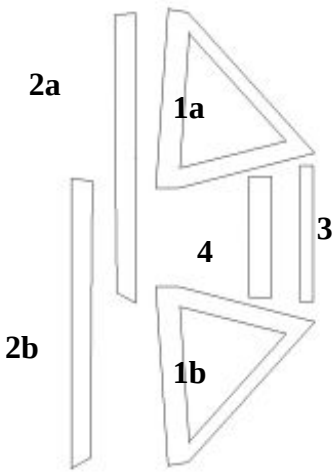

Cut out


Elevator junction –
bended wire
20 mm


Paste the lever in to the
notch.
Drill the holes and paste
the elevator junction


receiver
elevator servo
accumulator


2a
1a
4
2b
1b
3
Paste the plastic foil frame to the cabin.
Paste the cabin by contact glue.


2a
1a
3
4
2b
1b

In the end, check the position of the centre of gravity. In case heavier motor is mounted, make weight balancing in the rear part. Set rudder deflection to 30° at the beginning. It is recommended to make first test flights during windless weather.
Always fly in such a way to avoid injury to yourself as well as to your surroundings.

I wish you many happy hours during flying.

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