P-51D Mustang

Kit of radio controlled electro-flyer

Wingspan:	850 mm
Length:	700 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	1 pc
Cabin - EPP	1 pc
Cabin frame - paper	2 pcs
Wing - EPP	2 pcs
Control surfaces - EPP	2 pcs
Elevator joiner	1 pc
Motor mounting - plywood	1 pc
Control horns	3 pcs
Rudder connecting rods	1 + 1 pc
Instructions CD	1pc

Further necessary tools for assembly:

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

Recommended drive:

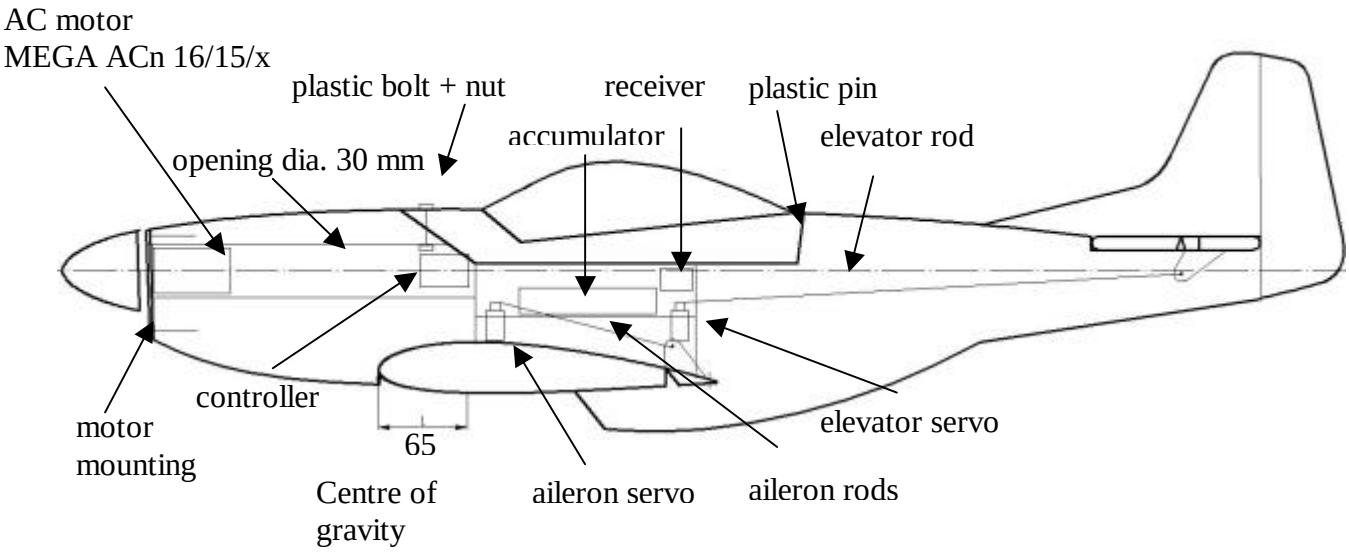
Motor	**Gearbox**	**controller**	**propeller**
Mega Acn 16/15/6-8	**-**	**TMM 1210-3 (12A)**	**APC 9x6**
MPJ AC 25/25-26 Mk.2	MPJ 5:1	TMM 1210-3	APC 9x6
Mega RC 400/15/6	-	TMM 1210-3	APC 9x6
AXI 2208/26	-	TMM 1210-3	APC 9x6
Speed 300	MPJ 5:1	TMM 0810	APC 9x6

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

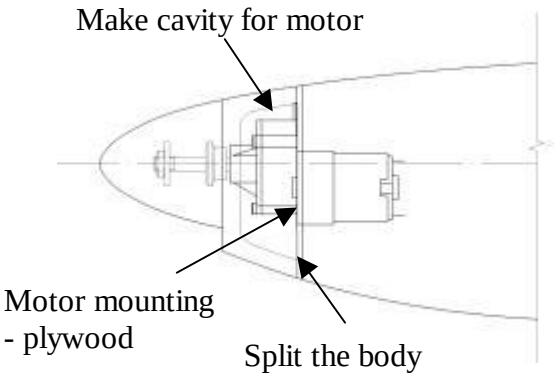
Kit assembly:
Begin assembly with pasting the wing connection and pasting of wing halves together. Use polyurethane glue. Adjust motor bedding according to selected actuator. For bedding pasting use Epoxy glue. Do not forget openings for cooling.
Use sharp knife to cut the openings for servos and accumulator in aircraft body. The thickness of the side wall shall be min. 10 mm. Cut-out EPP balk has to be divided in to two parts and paste Lower part back to the body using the polyurethane glue. Openings for servos have to be made for tight joint.
Alternatively you can create this space in the body by means of adjusted tip of soldering gun. Use polyurethane glue to paste assembled wing in to body opening. Paste in the elevator junction.
Paste elevator and rudder to the body. Pay attention to the mutual perpendicularity.

Using the knife, make a notch in the tail part of the body for elevator rod. Insert plastic Bowden with internal steel string. Control levers for elevator and ailerons shall be pasted in the notches, using polyurethane glue. Ailerons rods have to be guided through body side wall.

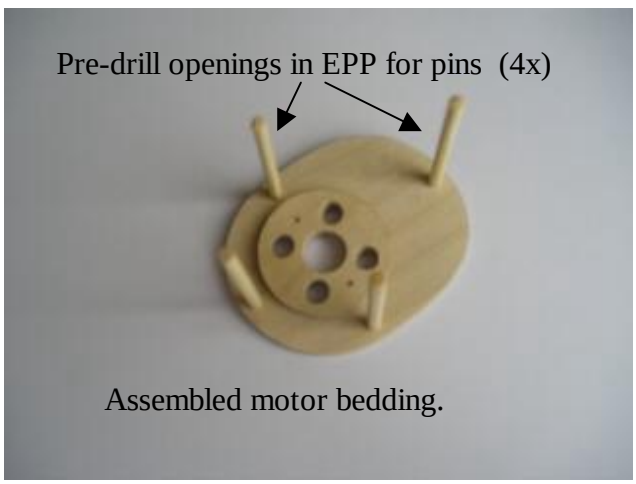
Fix the cabin by plastic pin in the rear part and by plastic bolt and nut. Cut out the cabin frame and paste to cabin semi product.



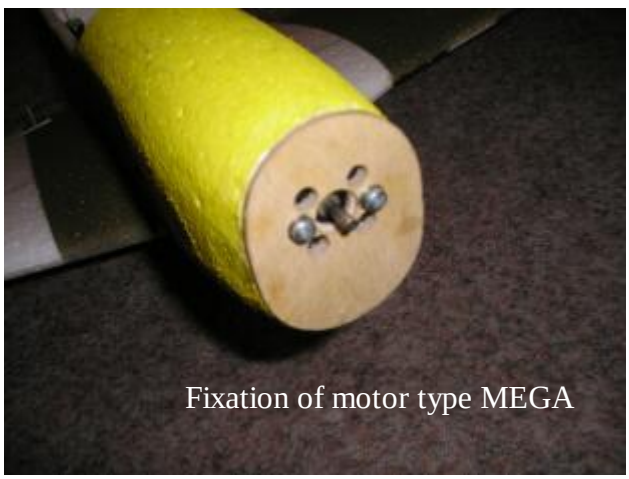
Alternative for motor Speed 300 with gearbox or Mega RC 400, AXI 2208…

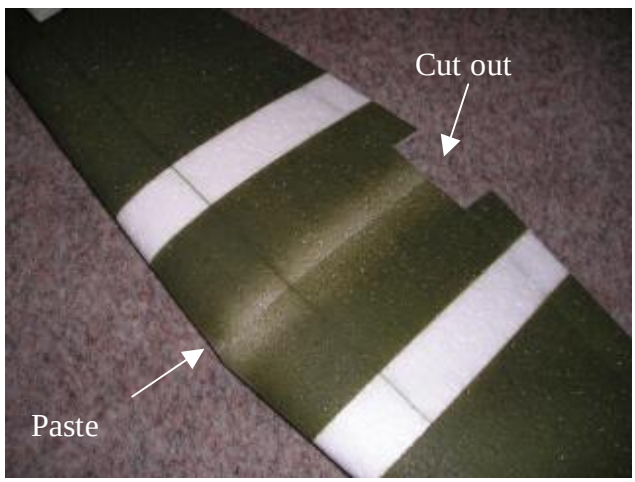


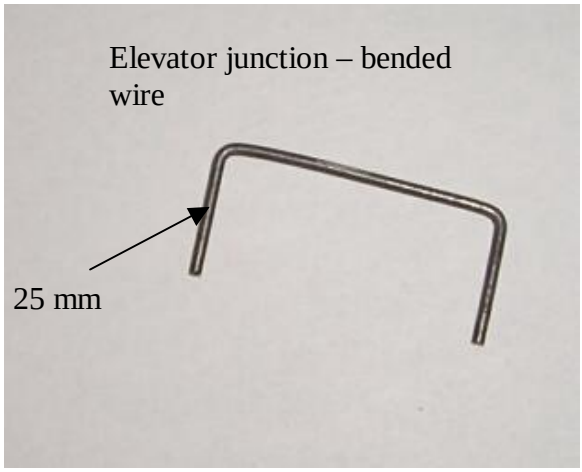

Motor mounting for motor
MEGA ACn 16/15/x

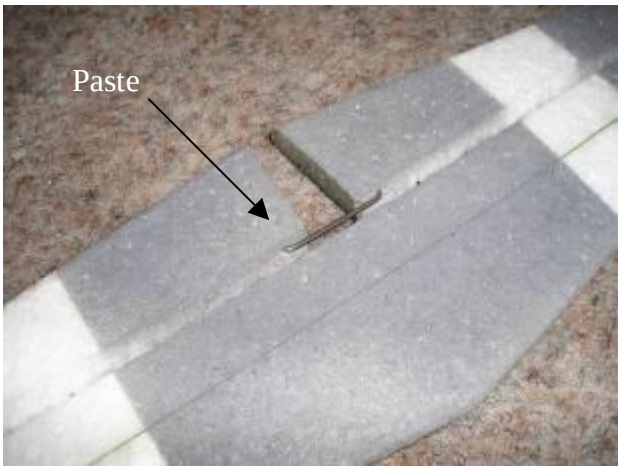


Assembled motor bedding.

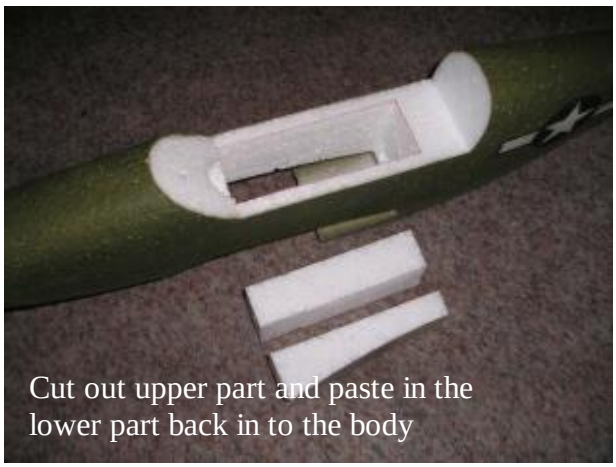

Fixation of motor type MEGA

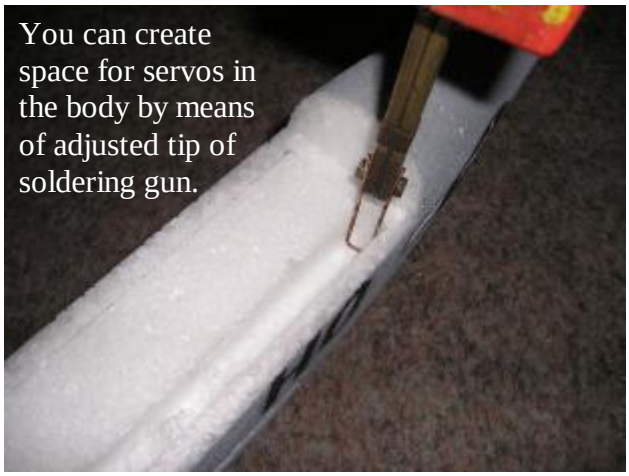


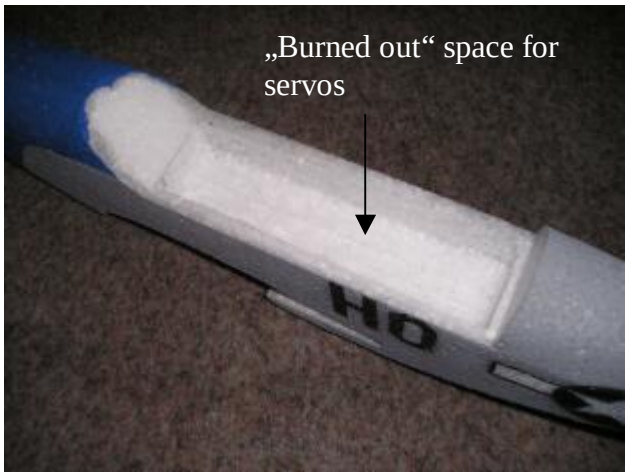

Elevator junction – bended wire
25 mm

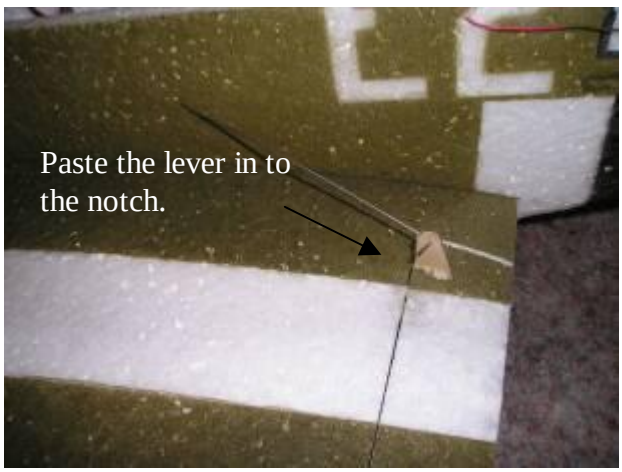

Paste

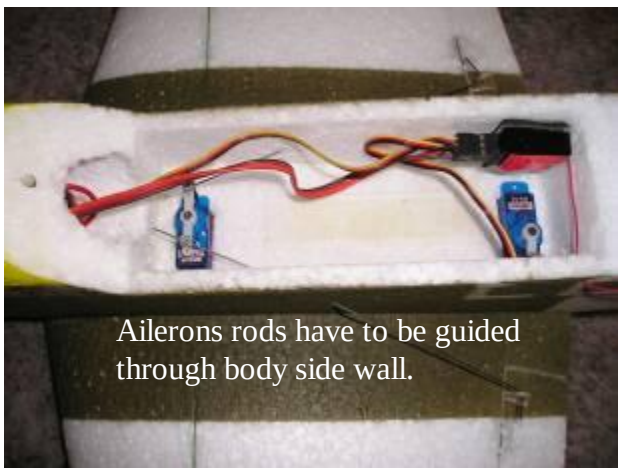

Cut out space for servos and accu.

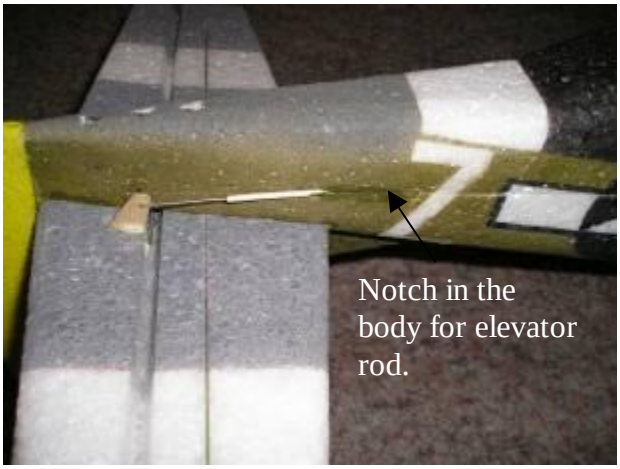

Cut out upper part and paste in the lower part back in to the body

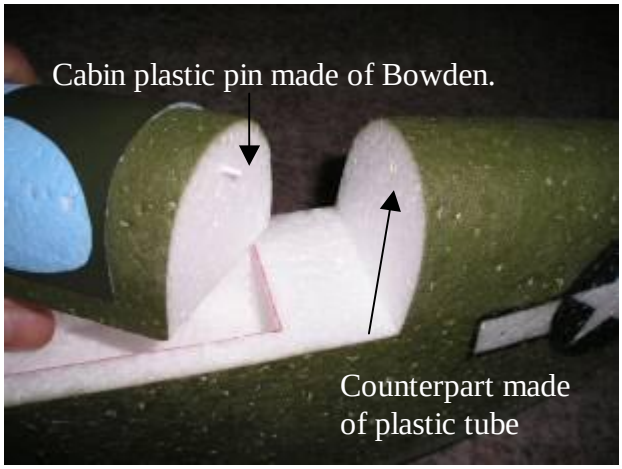

You can create space for servos in the body by means of adjusted tip of soldering gun.


„Burned out“ space for servos


Paste the lever in to the notch.


Ailerons rods have to be guided through body side wall.





In the end, check the position of centre of gravity. In case heavier motor is mounted, make weight balancing in the rear part. Set rudder deflection to 30^{o} 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 surroundings.

I wish you many happy hours during flying.

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www.lm-model.cz