

PICHLER

CARTOON MUSTANG

shock style

Miss America





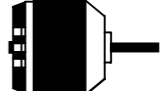


Red Baron

ARF

SUPER CRAZY AEROBATIC MODEL
SUPER-KUNSTFLUG VERRÜCKT MODEL

Technical data:

				
4	800mm	785mm	>185g	80-100W

www.pichler-modellbau.eu

20151026

Control surface deflection settings

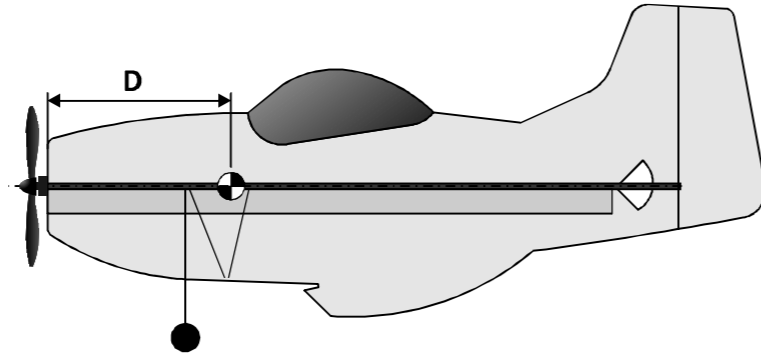
(MODE 1 - left hand elevator + rudder; right hand gas + ailerons)

Settings \ Controlled surface	AILERONS		ELEVATOR		RUDDER	
	DEFLECTION	EXP	DEFLECTION	EXP	DEFLECTION	EXP
BASIC	±30°	30%	±32°	30%	±30°	30%
AEROBATIC	±40°	40%	±45°	40%	±40°	40%
CRAZY	±45°	45%	±45°	45%	±45°	45%

Customize exact settings by your own.

Center of gravity:

D = 195-205mm



Don't forget to balance your plane side-to-side.

Motor thrust angles:

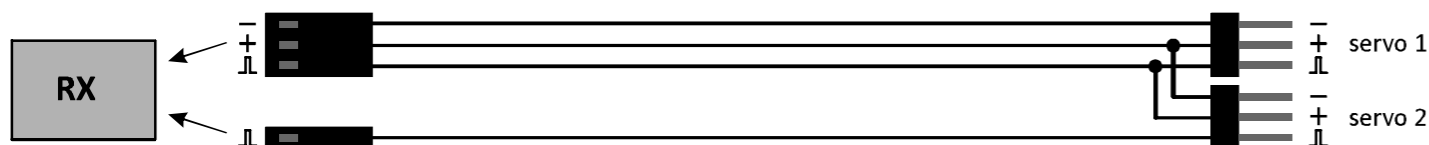
To check your plane's side thrust, fly a straight and level pass at cruising speed. Apply full power and pull up in to a vertical climb, using rudder only to straighten the climb initially. As soon as you can, centre the rudder stick and see if the plane yaws one way or another as it's climbing vertically. If it yaws to the left, then more right thrust is needed, if it yaws to the right then there is too much right thrust. If it climbs vertically then the side thrust is OK. To test the down thrust you can perform the same vertical climb; if your plane wants to pitch inwards as if starting a loop then there's not enough down thrust. If it pitches outwards then there is too much down thrust.

Start with 1-2° for side thrust and 1-2° for down thrust. Insert washers between motor and motor mount plate to set motor thrust angles.

Stavební tipy / Assembling tips:

To save weight you can use special servo lead extension instead of standard servo lead extension for elevator and rudder servos. Use thin enameled copper wire diameter 0,35mm. Cut 4pcs with length approximately 250mm and solder pin strips (2pcs 3 pins, 2.54mm spacing) to the one side and standard servo connector and one pin servo connector to the second side. Remove enamel before soldering! Twist the wires. Test wires for short-circuit before use! You can save approximately about 4-5g.

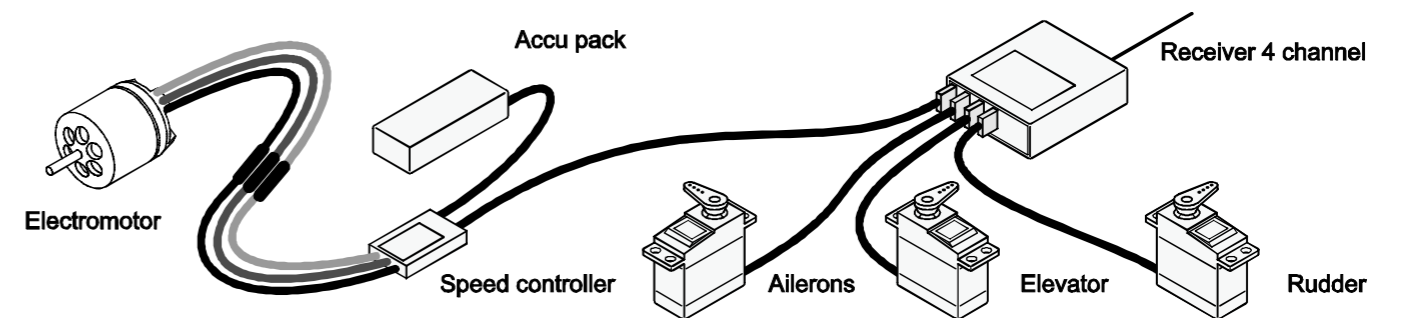
Wiring diagram:



Symbols used during assembly

L+R	Do operation on both sides, left and right.		Right!		Bad!
T+B	Do operation on both sides, top and bottom.				
	Screw it.		Wait a minute till glue fill the gap and use CA kicker (accelerator) spray.		Heat up with lighter or with heat gun.
	Cut off / Cut the slot.		Wait for 1 hour.		Drill the hole diameter 2mm.
	Glue with contact glue.		Be careful, orient correctly, use picture for reference.		Abrade with sandpaper.
	Glue with thin CA glue.		Push.		Paint the piece.
	Trim with scissors.		Press together.		Maintain balance - lead ballast.
	Use hand saw.				

Scheme - minimally 4 channel R/C set with power set



Tools (not included):

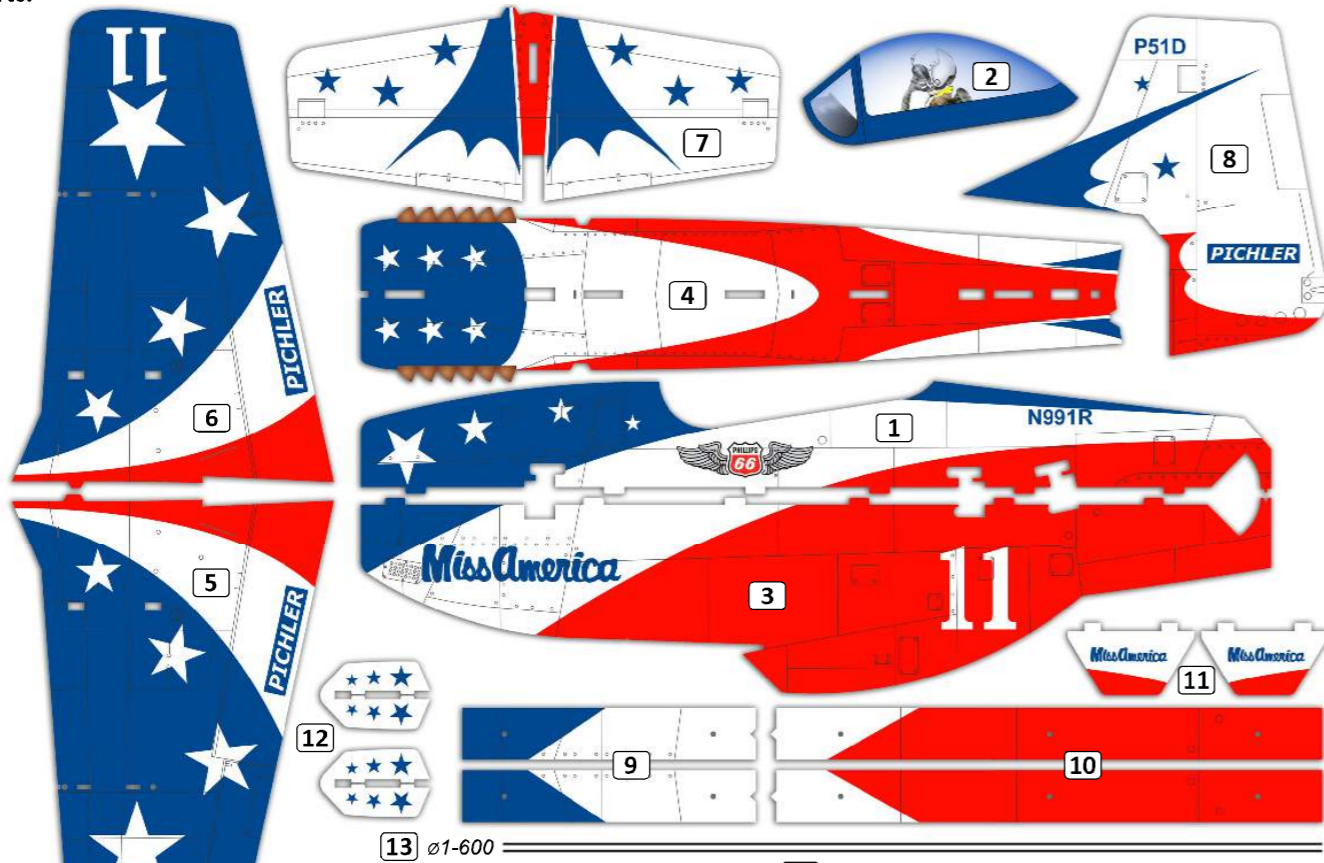
- Sharp hobby knife
- Crosshead screwdriver
- Flathead screwdriver
- Sandpaper 120-320
- Small pliers
- Nippers
- Ruler
- Lighter (or heat gun)
- CA thin + CA kicker (accelerator) spray
- Contact glue UHU Por (foam friendly) - yellow-green tube



Recommended equipment and accessories / Empfohlenes Sonderzubehör:

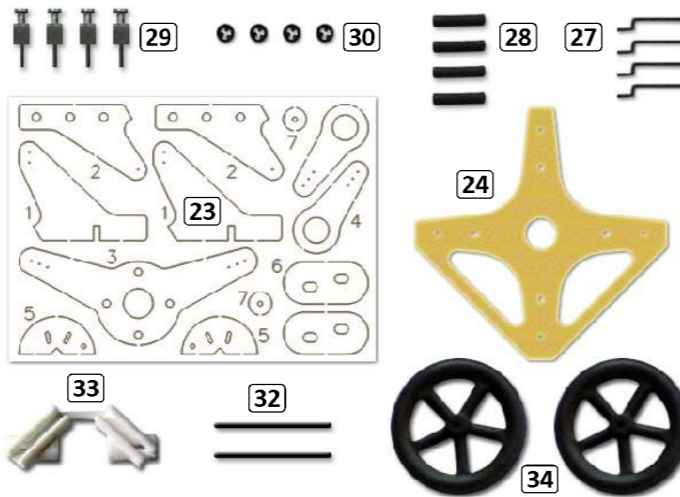
- | | |
|--|---|
| - Min. 4-channel Set with Tx and small Rx | 2 pcs. Servo S708, # C1002 |
| - 1pcs high quality 9-12g servo - ailerons | 1 pcs. Servo S2112, # C5185 |
| - 2pcs high quality 5-6g servo - elevator, rudder | 1 pcs. Brushless Motor PULSAR Shocky, # C4308 |
| - Servo lead extensions 150 and 200mm (elevator, rudder) | 1 pcs. Brushless ESCXQ-12, # C3187 |
| - AC electro motor 80-100W with ESC12A | 1 pcs. Propeller PWS 8x4.3, # C1240 |
| - Propeller 7/3.5" (3S LiPol) - 8/4.7" (2S LiPol) | 1 pcs. LiPo Akku LEMONRC 650-7,4V, # C6722 |
| - Battery LiPol 2S 450mAh - 3S 350mAh | 1 pcs. Zoom CA glue, # X3571 |
| | 1 pcs. Zoom CA accelerator spray, # X3573 |

Main parts:



- 15 0,5x3x445
- 16 0,5x3x430
- 17 0,5x3x350
- 19 0,5x3x350
- 20 0,5x3x250
- 31 \varnothing 2-230
- 25 \varnothing 1,5-200
- 26 \varnothing 1,5-140
- 18 0,5x3x200
- 21 0,5x3x160
- 22 0,5x3x115

Drobné díly / Small parts:



- 28 4 Shrinkable tube
- 29 4 Adjustable link
- 30 4 Quicklock washer
- 31 2 Landing gear - carbon 2x230
- 32 2 Landing gear axles - carbon 1,5x20mm
- 33 1 Landing gear plastic clip
- 34 2 Wheel 31mm

Part list:

No.	Qty.	Description
1	1	Upper vertical part of fuselage
2	1	Canopy
3	1	Lower vertical part of fuselage
4	1	Horizontal part of fuselage
5	1	Left wing
6	1	Right wing
7	1	Elevator
8	1	Rudder
9	2	Torsion Strip front
10	2	Torsion Strip rear
11	2	Wing support
12	2	Wing SFG
13	2	Fuselage spar - carbon 1x600mm
14	4	Wing brace - carbon 1x300mm
15	2	Wing spar rear - carbon 0,5x3x445mm
16	2	Wing spar front - carbon 0,5x3x430mm
17	1	Elevator spar front - carbon 0,5x3x350mm
18	1	Elevator spar rear - carbon 0,5x3x200mm
19	1	Fuselage spar rear - carbon 0,5x3x350mm
20	1	Fuselage spar middle - carbon 0,5x3x250mm
21	1	Fuselage spar front - carbon 0,5x3x160
22	1	Tail landing gear - carbon 0,5x3x115mm
23	1	Plastic frame
23-1	2	Elevator and Rudder horn
23-2	2	Aileron horn
23-3	1	Aileron servo arm extension
23-4	2	Elevator and Rudder servo arm extension
23-5	2	Fuselage stiffener (wing braces)
23-6	2	Landing gear reinforcement
23-7	2	Plastic stopper - ring
24	1	Motor mount
25	2	Elevator and Rudder pushrod - 1,5x200mm
26	2	Aileron pushrod - 1,5x145mm
27	4	„Z” bend wire 0,8x15mm

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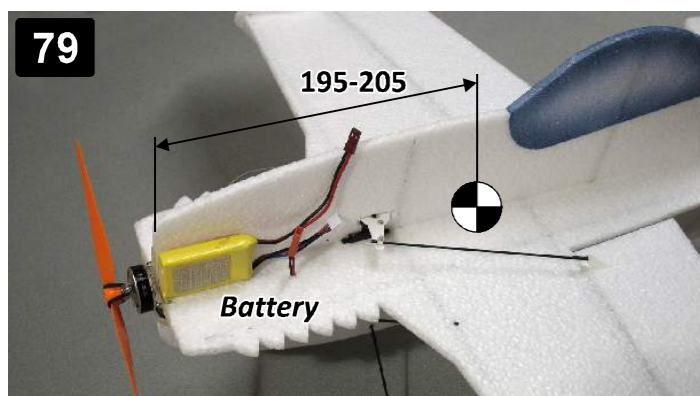
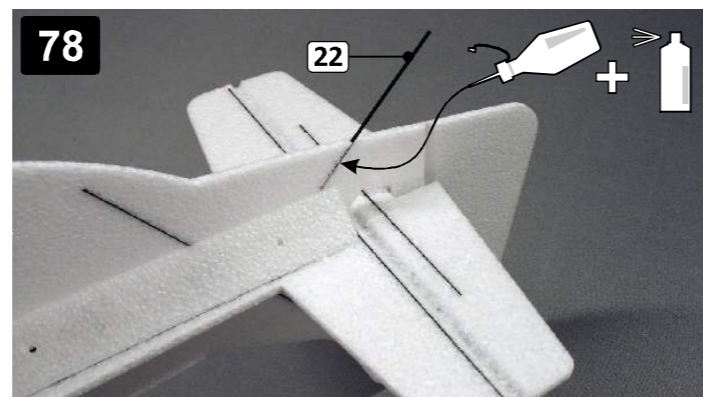
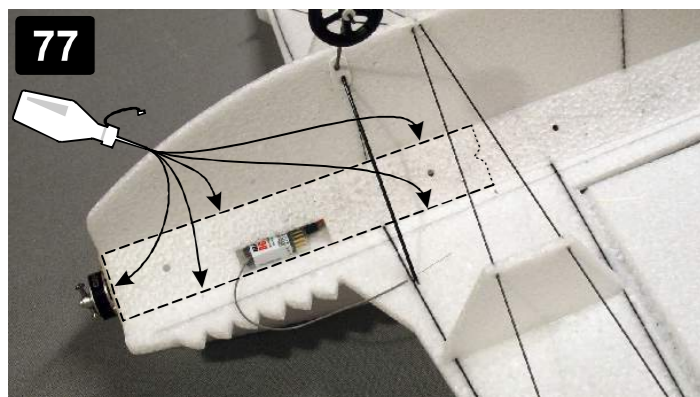
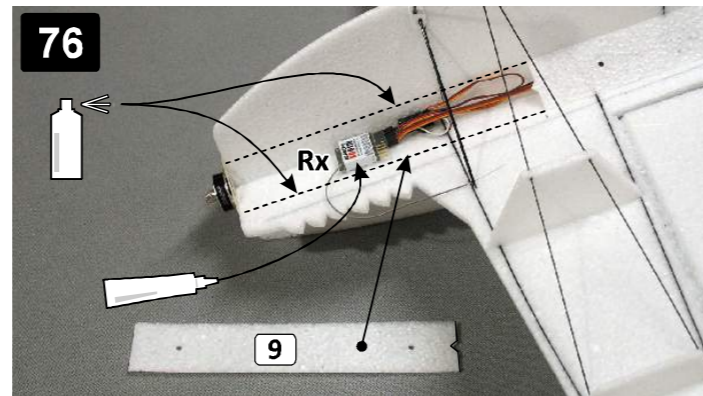
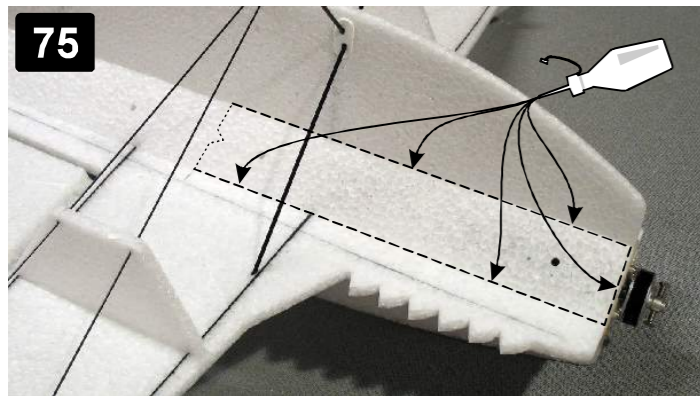
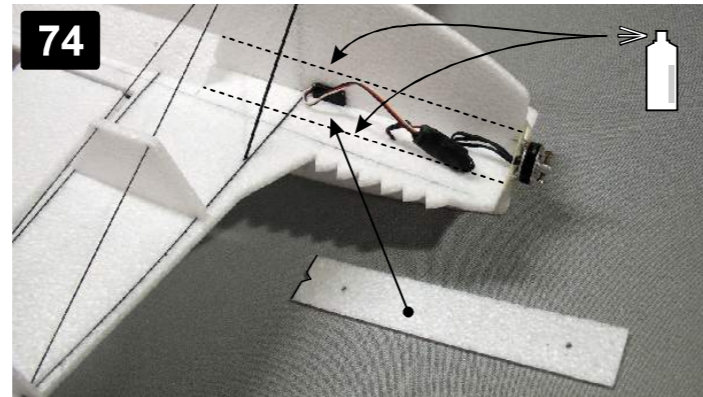
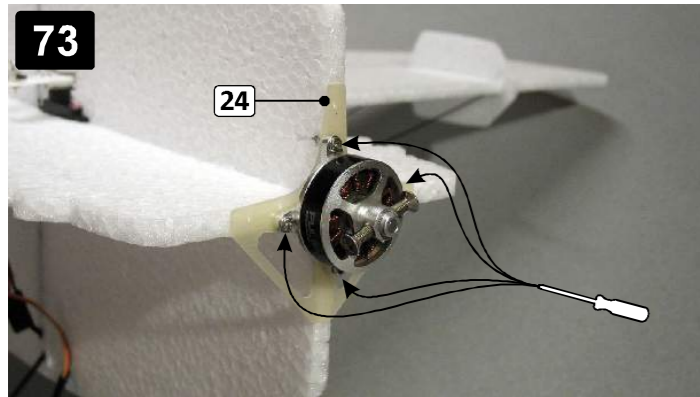
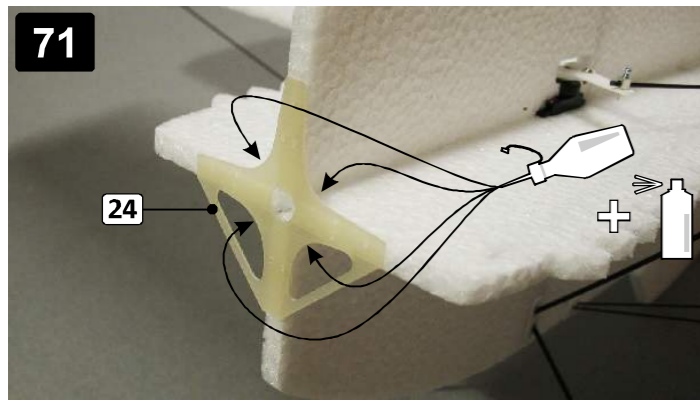
Red Baron



Your Cartoon Mustang is finished. Set the right orientation and size of movements. Right setting is individual, set it during first flights. Install battery pack according to the CG. Attach the battery to the fuselage using e.g. velcro strap. It's pleasant flying with model in the calm air or in the weak wind.

Balance model. Use additional balast if it's needed.

DON'T TRY TO FLY WITH UNBALANCED MODEL!



Read this manual carefully before assembling the model.

