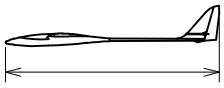
ELECTRO SAILPLANE

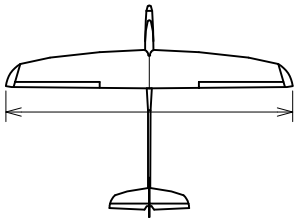
Astra

Manufactured by:
TOPMODEL CZ
679 05 HABRŮVKA 100 - CZECH REPUBLIC
www.topmodelcz.com
e-mail:info@topmodelcz.cz

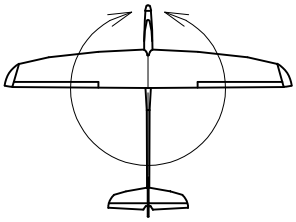
Order N°: 02079



1125mm



2150mm



36,4dm^2

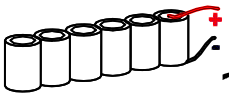
17,9-20,6g/dm^2

0,65 - 0,75 kg

Radio system you'll need :

ailerons - 2 servos
flaps - 2 servos
elevator
rudder
motor

KAVAN C2836-850



3S Lixx 1,2-1,6Ah

MH 32 mod.

Není-li uvedeno jinak, všechny neoznačené míry jsou v milimetrech
UNLES STATED, ALL DIMENSIONS ARE IN MILIMETERS

Part #	Part name	Material, dimensions	Loose	In bag
	building instruction		01	-
1A	fuselage front part	fibreglass	01	-
1B	fuselage tube	carbon tube	01	
1-1	engine mount	fibreglass 2 mm	-	01
1-2	servo tray rudder + elevator	plywood 3 x 41 x 35 mm	-	01
1-3	link support	balsa 3 x 6 x 40 mm	-	01
1-4	air hole cover	ABS plastic	-	01
1-6	tail skid	fibreglass 1 mm	-	01
2	wing	balsa assembly	02	-
2-1	aileron	balsa assembly	02	-
2-11	flap	balsa assembly	02	-
24	wing joiner	carbon ∅ 7 x 250 mm	-	01
2-2	wing fixing screw	nylon screw M 4 x 20 mm	-	02
2-21	centering pin	fibreglass ∅ 2 x 20 mm	-	01
2-22	screw mount	plastic 0,7 x 20 x 37mm	-	01
2-25	centering pin	fibreglass ∅ 3 x 40 mm	-	02
2-3	captive nut	M4	-	02
2-31	nut mount	plywood 3 x 20 x 35 mm	-	01
2-4	servo mount	pywood 8x10 mm	-	08
2-41	wing servo cover	ABS plastic	-	04
2-5	aileron-flap pushrod	piano wire M2 x 31 mm	-	04
2-6	clevis	plastic L=17, pin 1	-	08
2-8	aileron horn	fibreglass plate 1 mm	-	02
2-81	flap horn	fibreglass plate 1 mm	-	02
3	horizontal stabilizer	balsa assembly	01	-
3-5	elevator link	bowden ∅2 mm L=810mm, piano wire ∅0,8 mm L= 860mm	01+01	-
3-6	screw-lock pushrod connector	brass MPJ 2764	-	01
3-8	elevator horn	fibreglass plate 1 mm	-	01
4	vertical tail	construction balsa	01	-
4-5	rudder link	bowden ∅2 mm L=700mm, piano wire ∅0,8 mm L= 780mm	01+01	-
4-6	screw-lock pushrod connector	MPJ 2764	-	01
4-8	rudder horn	fibreglass 1 mm	-	01
6	canopy	fibreglass	01	-
6-2	canopy fixing	wood screw ∅2,9 x 6,5 mm	-	01
7	stickers		01	

RECOMMENDED EQUIPMENT				
		Pieces		Item No. www.topmodelcz.com
servo	Servo ES 08 MD II	6		3531
motor	KAVAN C2836-850	1		KAV30.0228
controller	KAVAN PRO-30SB	1		KAV32.31010
spinner	Duralový kužel 30/4,0/8	1		0201504
propeller	KAVAN Carbon 11x6"	1		KAV50.2.1106F
battery	3S ~1,2-1,6Ah	1		

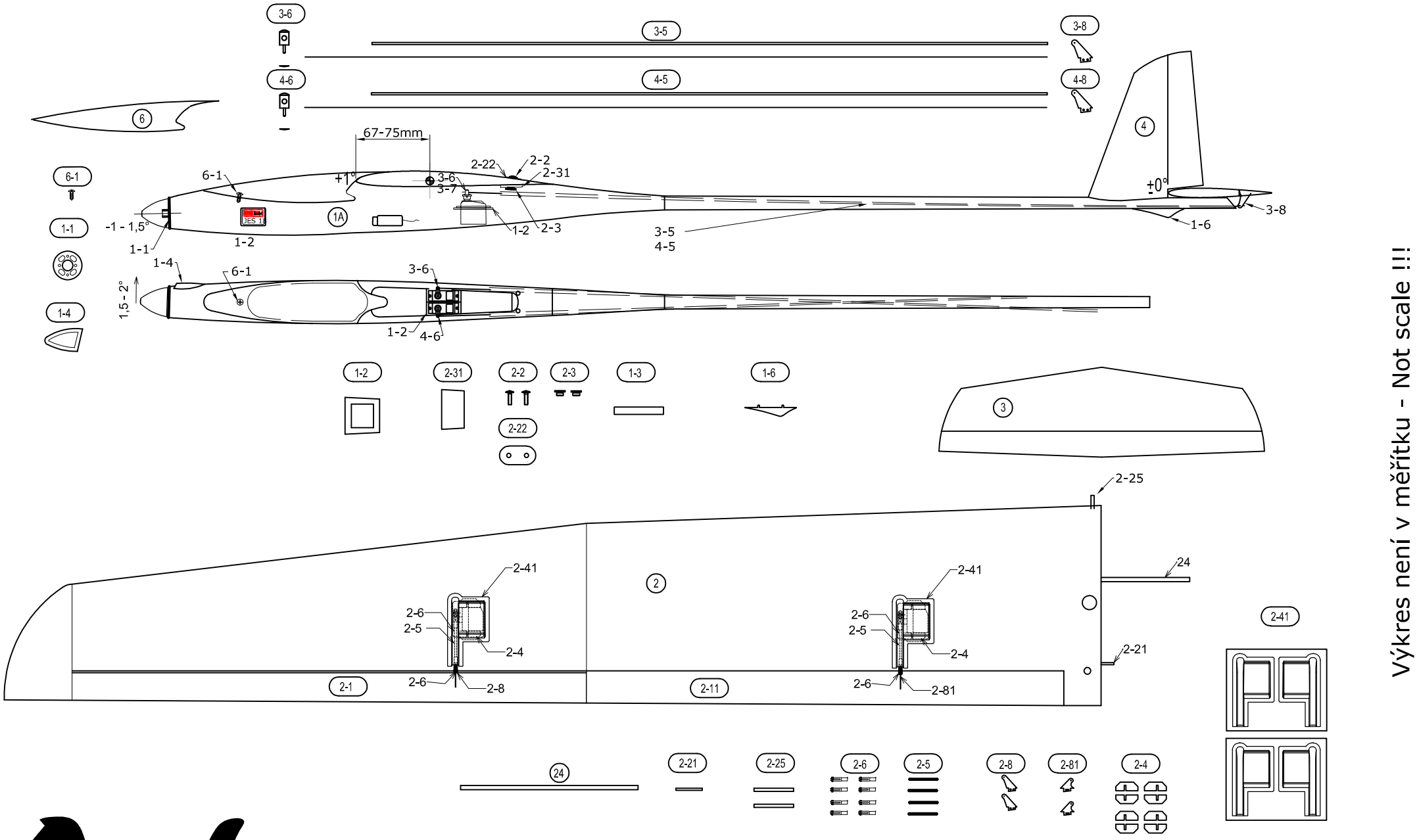
Before first take-off check up please if model aeroplane parts aren´t crooked.
The reparation is possible through the use of hot-air dryer.

Položka	Název dílu	Materiál, rozměr	Volně / ks	Balíček/ ks
	montážní návod		01	-
1A	trup gondola	laminát	01	-
1B	nosník ocasních ploch	uhlík	01	
1-1	motorová přepážka	sklotextit 2 mm	-	01
1-2	držák serva SOP + VOP	překližka 3 x 41 x 35 mm	-	01
1-3	držák bowdenů	B 3 x 6 x 40	-	01
1-4	krytka chlazení	ABS	-	01
1-6	ostruha	sklotextit 1	-	01
2	křídlo	balsa konstrukční	02	-
2-1	křidélko	balsa	02	-
2-11	vztlaková klapka	balsa	02	-
24	spojka křídla	uhlík ∅ 7 x 250 mm	-	01
2-2	uchycení křídla	šroub polyamid M 4 x 20 mm	-	02
2-21	aretační kolík	laminát ∅ 2 x 20 mm	-	01
2-22	podložka šroubů	plast 0,7 x 20 x 37mm	-	01
2-25	aretační kolík	laminát ∅ 3 x 40 mm	-	02
2-3	uchycení křídla	matice AL. M4	-	02
2-31	podložka matice	překližka 3 x 20 x 35	-	01
2-4	držák serva	překližka 8x10 mm	-	08
2-41	krytka serva	ABS folie	-	04
2-5	táhlo křidélka a klapky	ocel M2 x 31	-	04
2-6	koncovka táhla	plastic L=17, pin1	-	08
2-8	páka křidélka	sklotextit 1 mm	-	02
2-81	páka klapky	sklotextit 1 mm	-	02
3	výškovka	balsa konstrukční	01	-
3-5	táhlo výškovky	bowden ∅2 mm L=810mm, ocel drát ∅0,8 mm L= 860mm	01+01	-
3-6	koncovka táhla	MPJ 2764	-	01
3-8	páka výškovky	sklotextit 1 mm	-	01
4	směrovka	konstrukční - balsa	01	-
4-5	táhlo směrovky	bowden ∅2 mm L=700mm, ocel drát ∅0,8 mm L= 780mm	01+01	-
4-6	koncovka táhla	MPJ 2764	-	01
4-8	páka směrovky	Sklotextit 1 mm	-	01
6	kabina	laminát	01	-
6-1	uchycení kabiny	vrut ∅2,9 x 6,5 mm	-	01
7	obtisky			

Doporučená výbava				
		Kusů		Obj.číso www.topmodelcz.com
servo	Servo ES 08 MD II	6		3531
motor	KAVAN C2836-850	1		KAV30.0228
regulátor	KAVAN PRO-30SB	1		KAV32.31010
kužel	Duralový kužel 30/4,0/8	1		0201504
listy vrtule	KAVAN Carbon 11x6"	1		KAV50.2.1106F
akumulátor	3S ~1,2-1,6Ah	1		

Před prvním startem zkontrolujte jestli nejsou díly modelu zkroucené.

Náprava je možná pomocí horkovzdušné pistole.



Výkres není v měřítku - Not scale !!!

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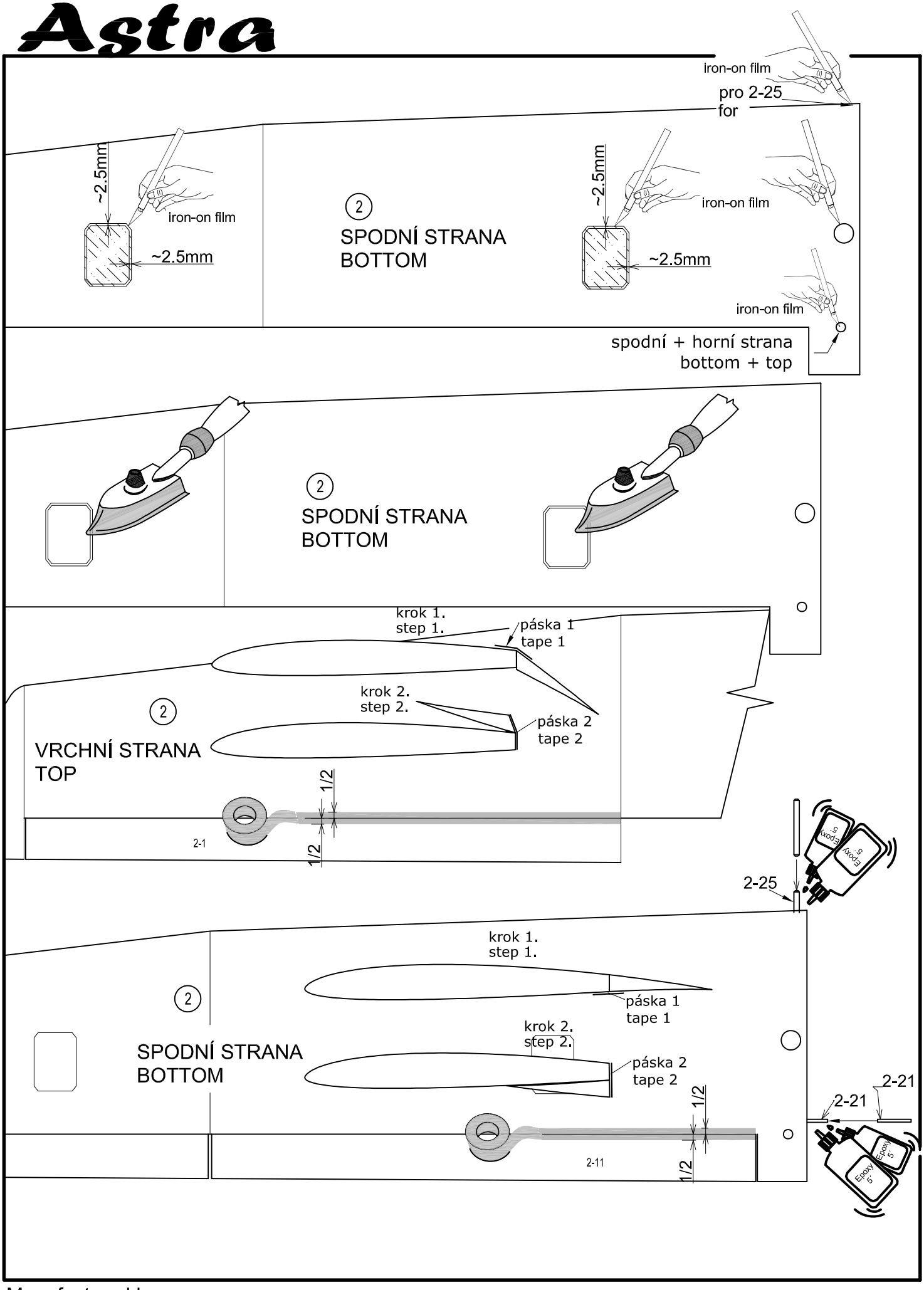
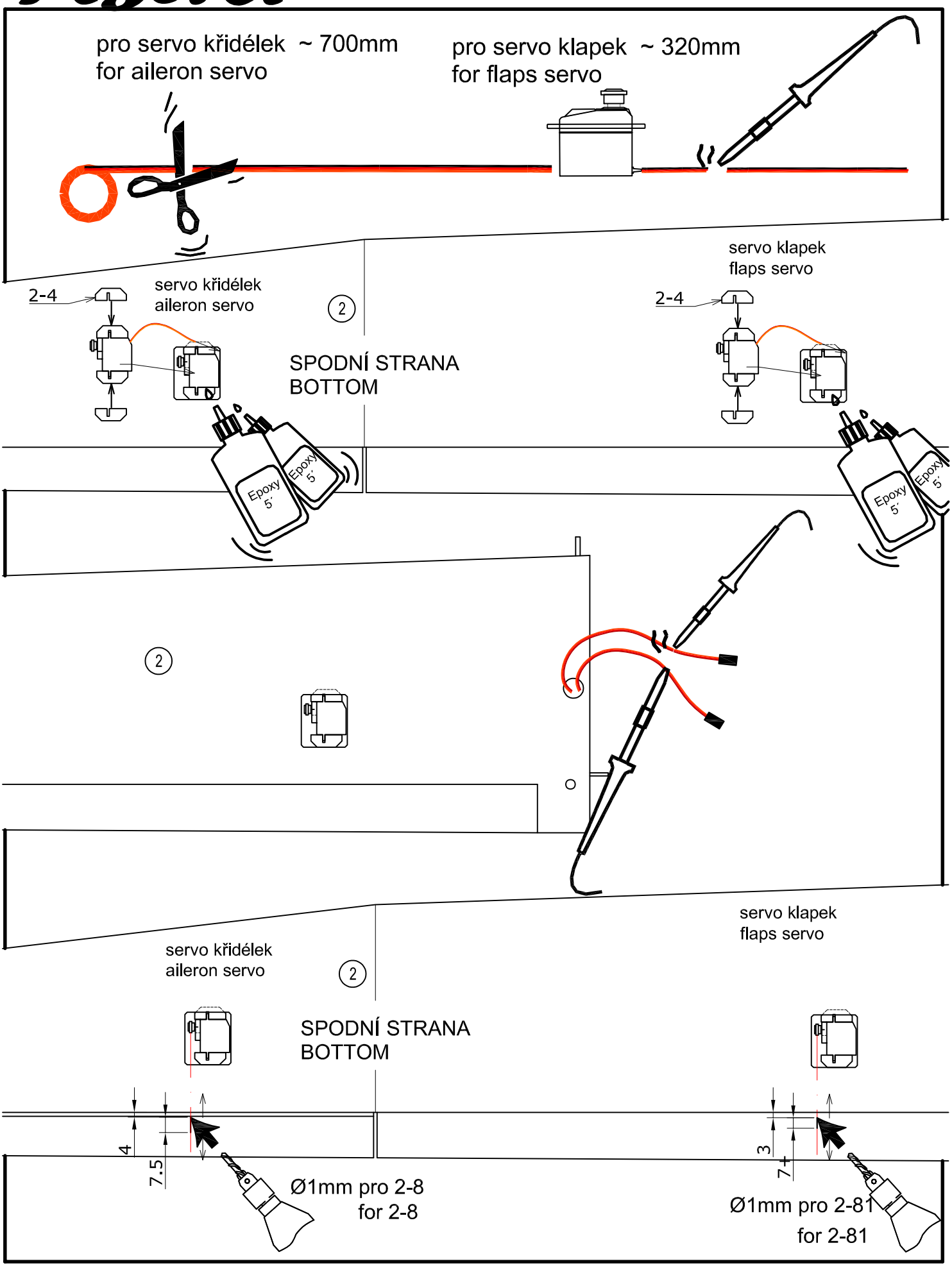

iron-on film
pro 2-25
for
~2.5mm
iron-on film
~2.5mm
2
SPODNÍ STRANA
BOTTOM
~2.5mm
iron-on film
~2.5mm
iron-on film
spodní + horní strana
bottom + top
2
SPODNÍ STRANA
BOTTOM
krok 1.
step 1.
páska 1
tape 1
krok 2.
step 2.
páska 2
tape 2
2
VRCHNÍ STRANA
TOP
1/2
1/2
2-1
2-25
krok 1.
step 1.
páska 1
tape 1
krok 2.
step 2.
páska 2
tape 2
2
SPODNÍ STRANA
BOTTOM
1/2
1/2
2-11
2-21
2-21

Astra



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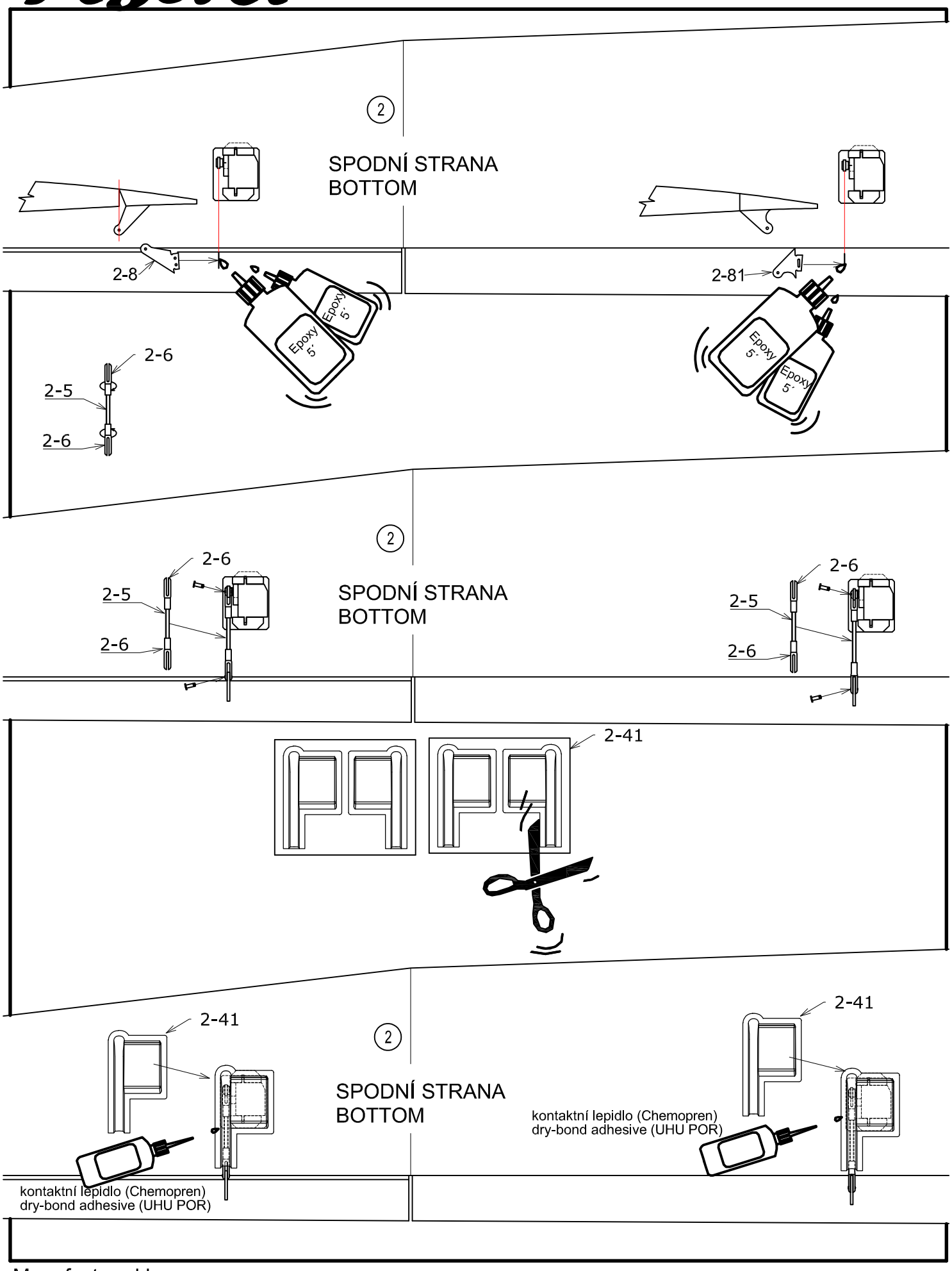
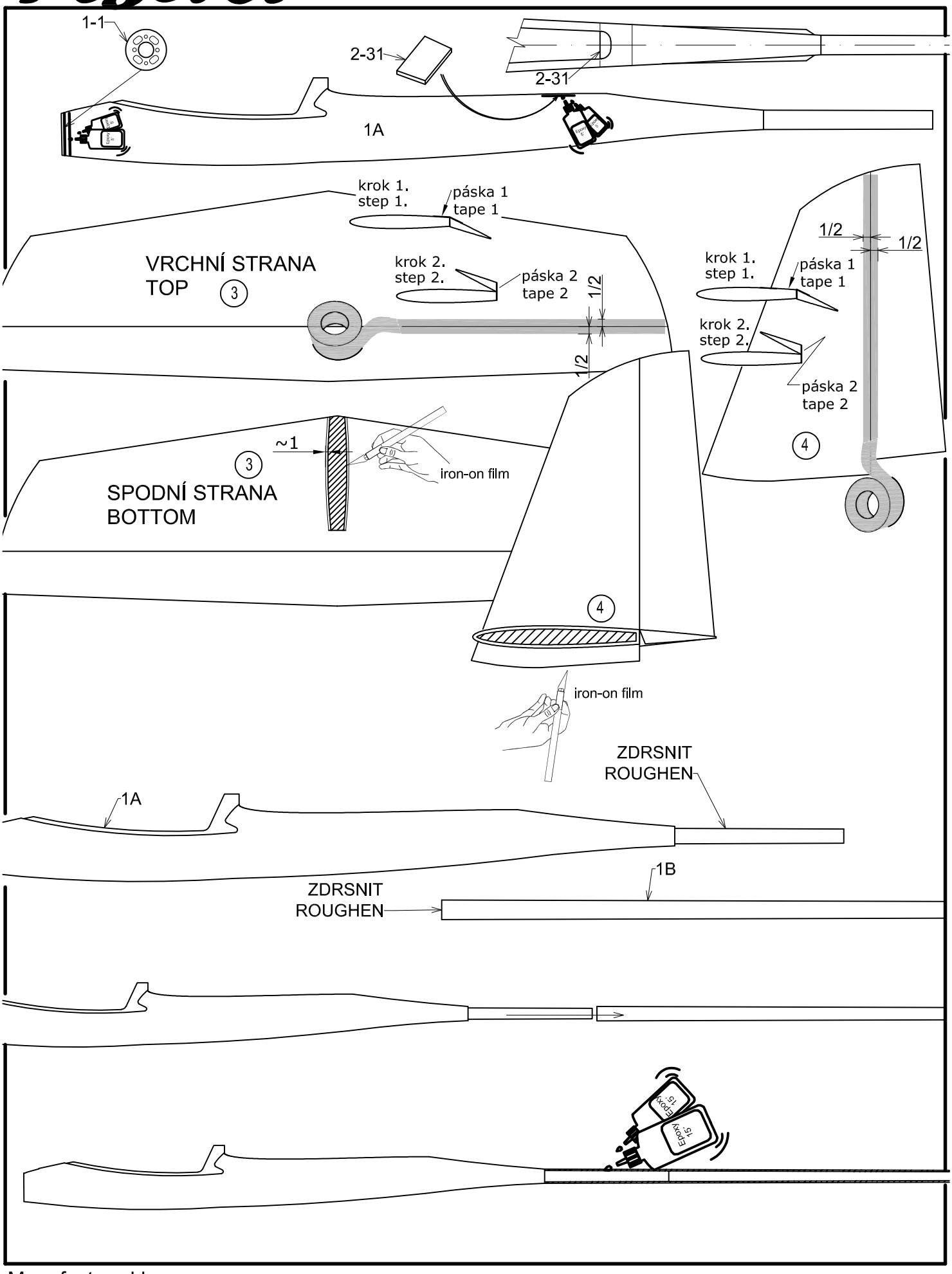

2
SPODNÍ STRANA
BOTTOM
2-8
2-81
Epoxy 5'
Epoxy 5'
Epoxy 5'
Epoxy 5'
2-6
2-5
2-6
2
SPODNÍ STRANA
BOTTOM
2-6
2-5
2-6
2-6
2-5
2-6
2-41
2
SPODNÍ STRANA
BOTTOM
2-41
2-41
kontaktní lepidlo (Chemopren)
dry-bond adhesive (UHU POR)
kontaktní lepidlo (Chemopren)
dry-bond adhesive (UHU POR)

Astra



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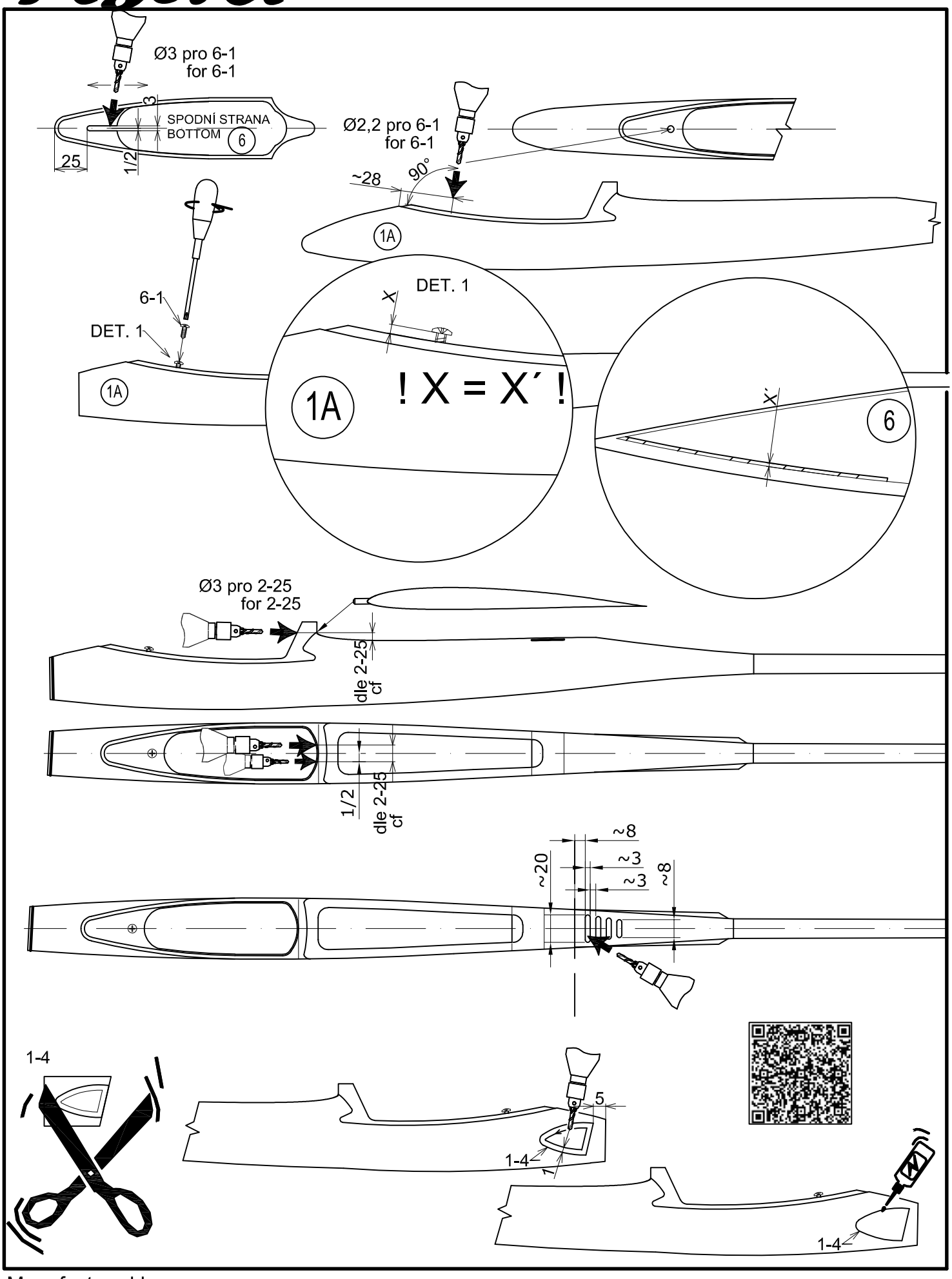

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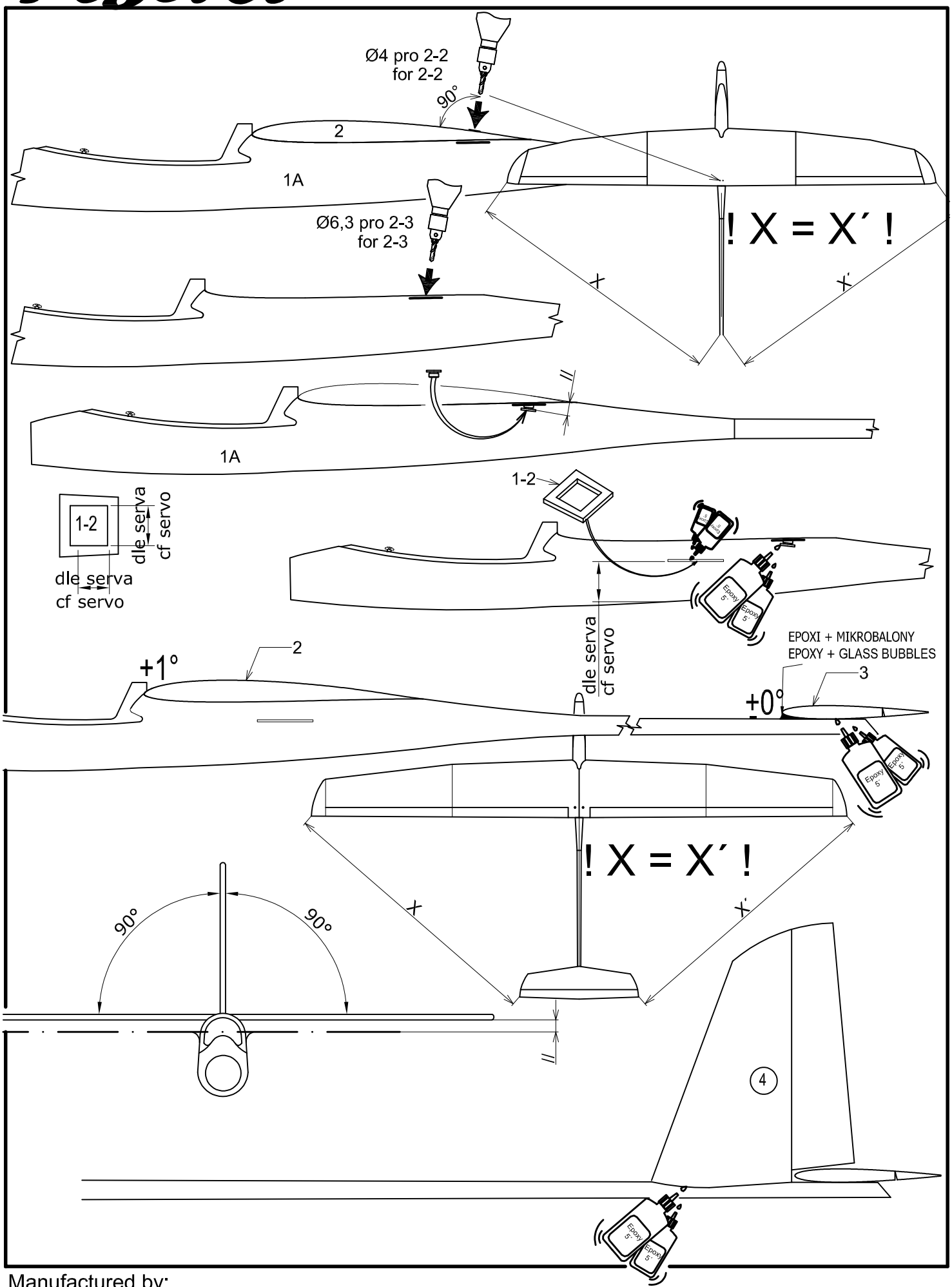

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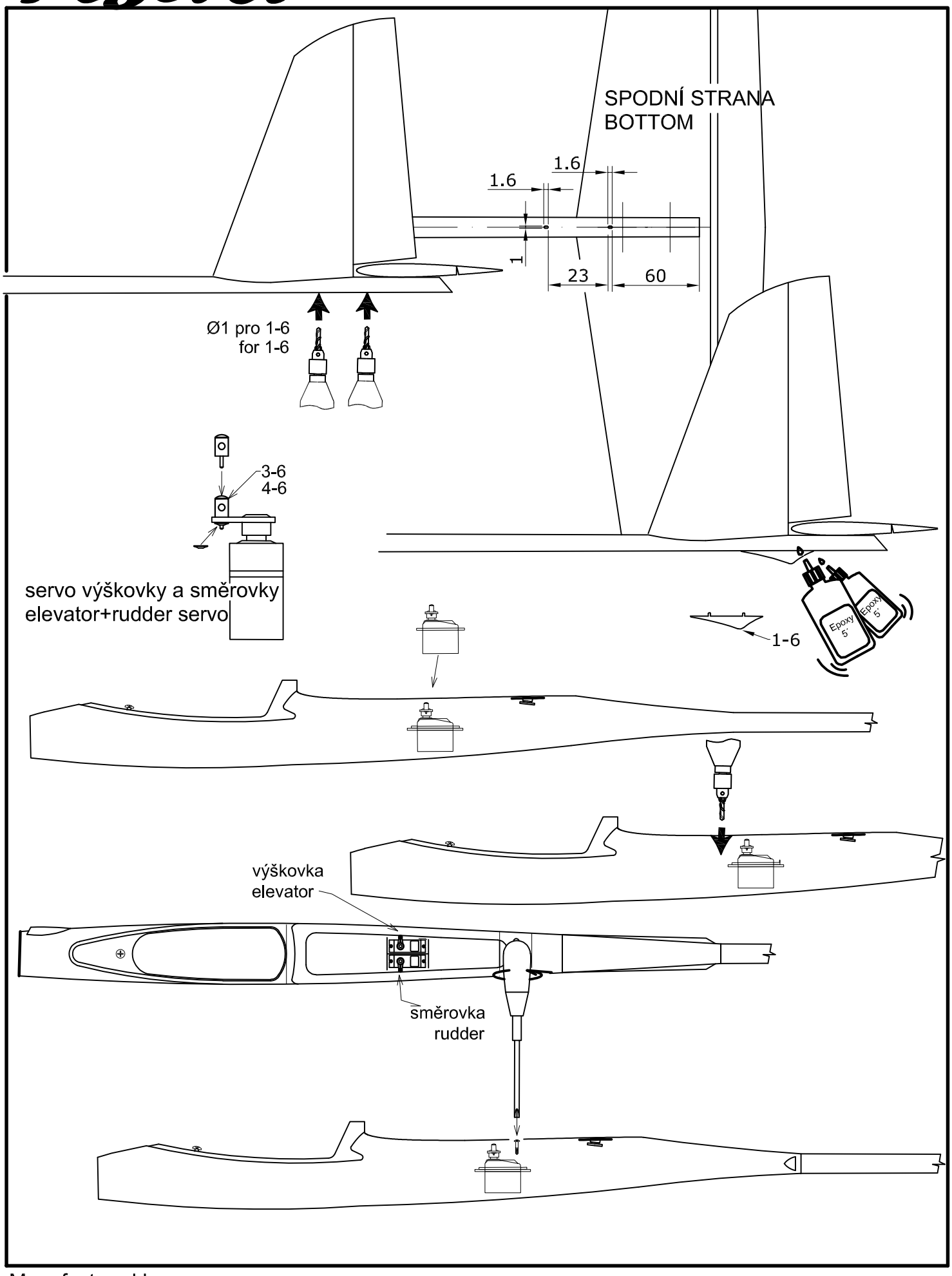
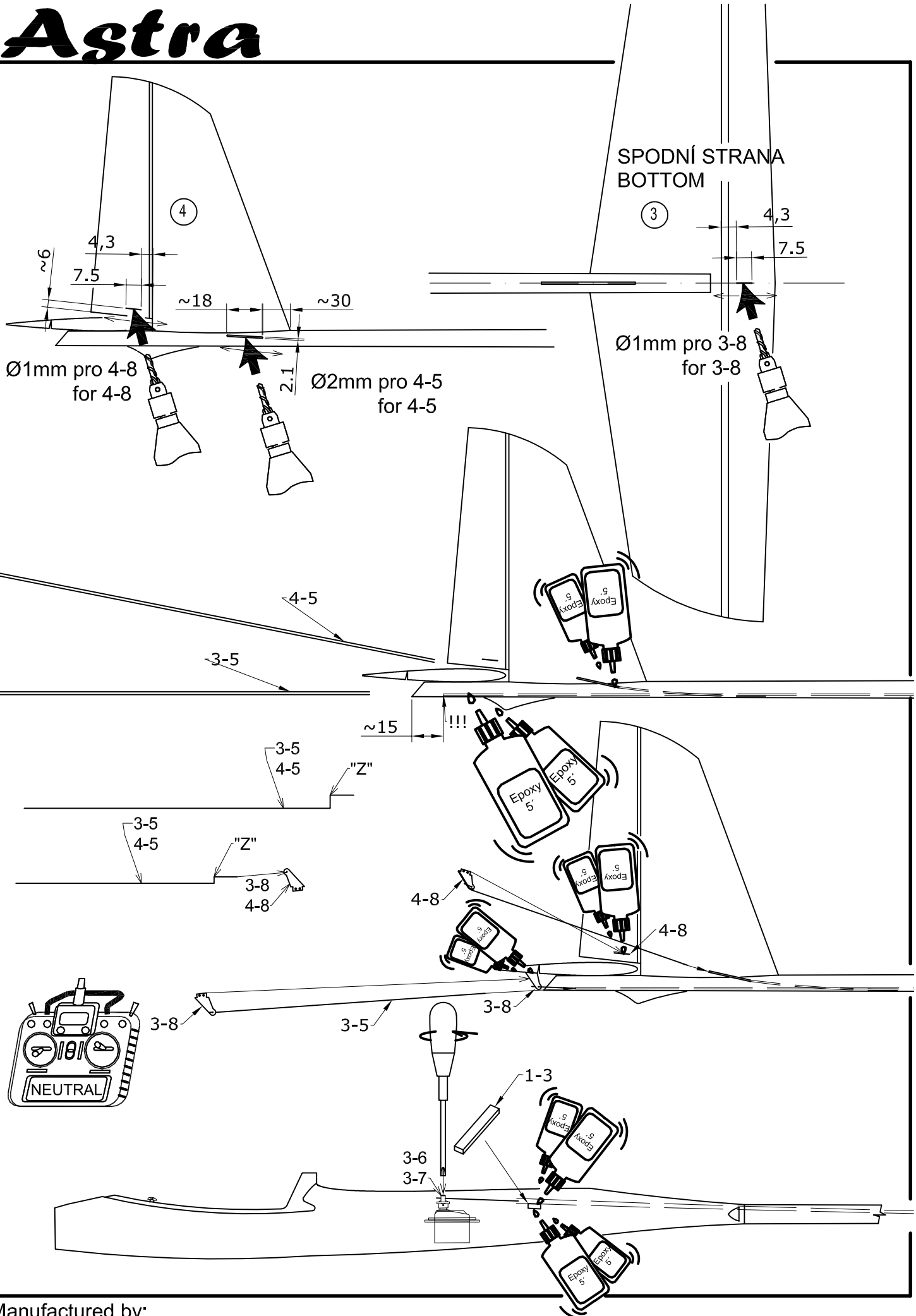
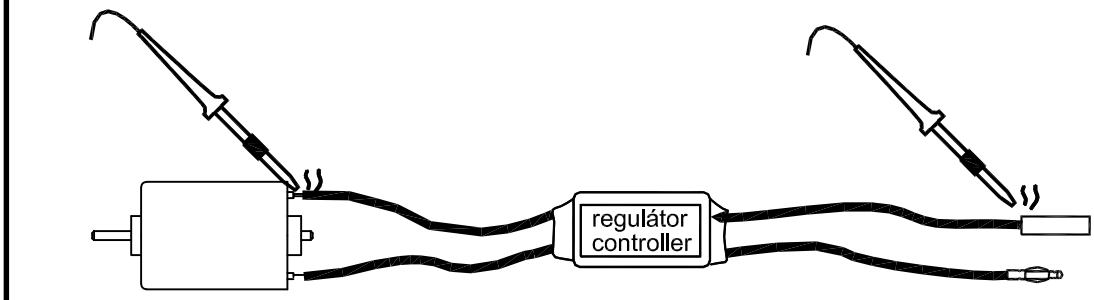
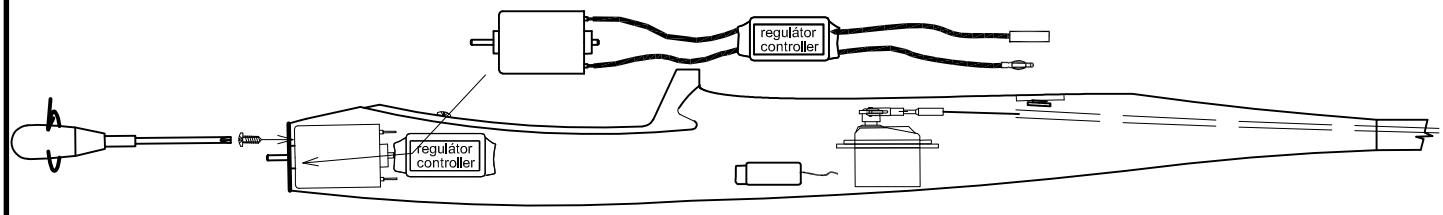

SPODNÍ STRANA
BOTTOM
1.6
1.6
1
23
60
Ø1 pro 1-6
for 1-6
3-6
4-6
servo výškovky a směrovky
elevator+rudder servo
1-6
Epoxy 5'
Epoxy 5'
výškovka
elevator
směrovka
rudder

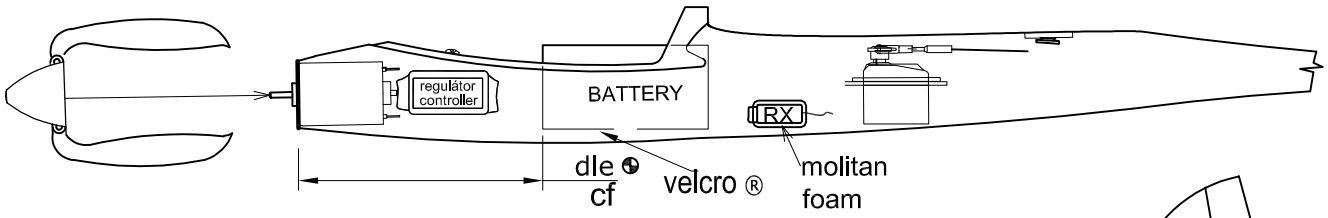
Astra

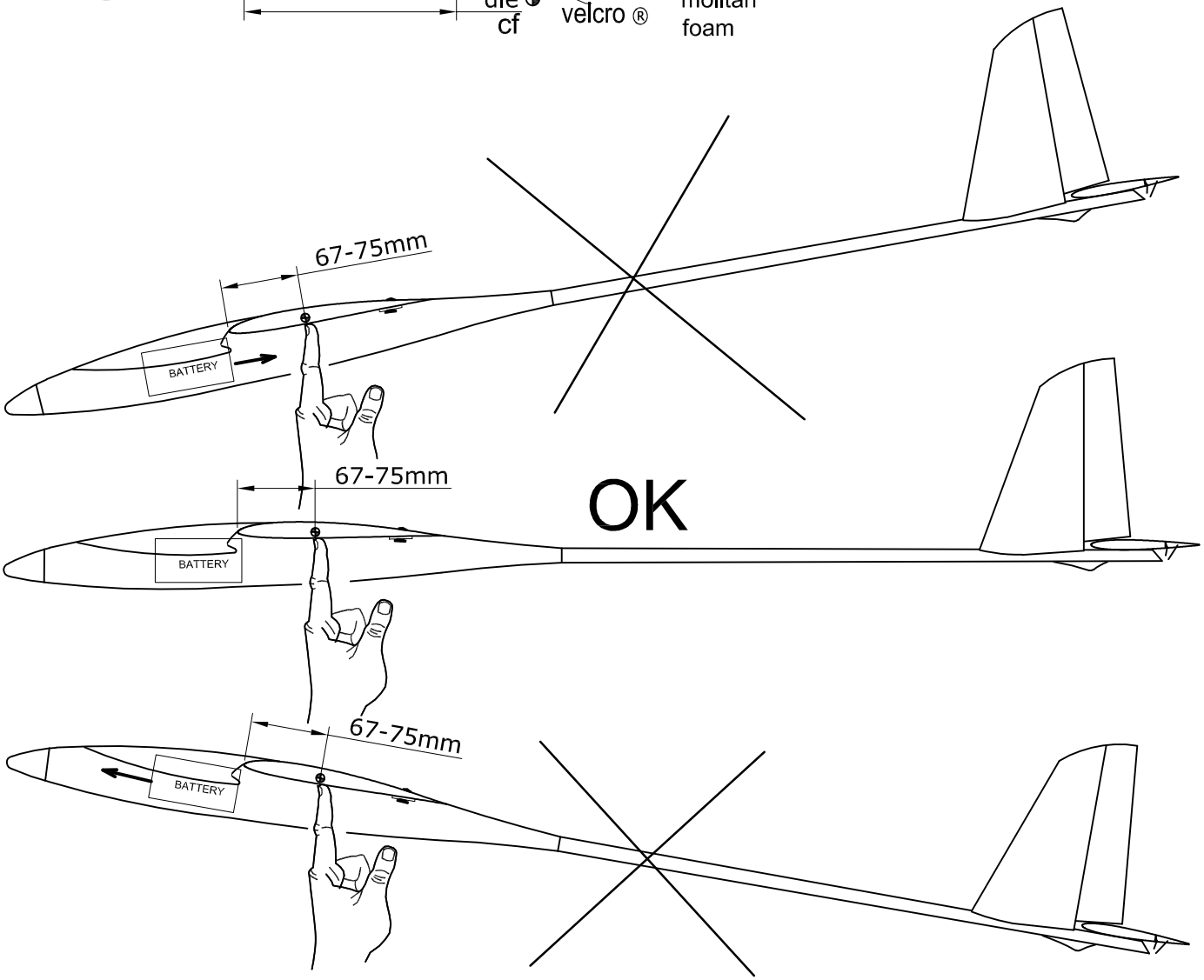

4
4,3
~6
7.5
~18
~30
Ø1mm pro 4-8
for 4-8
2.1
Ø2mm pro 4-5
for 4-5
SPODNÍ STRANA
BOTTOM
3
4,3
7.5
Ø1mm pro 3-8
for 3-8
4-5
3-5
~15
!!!
3-5
4-5
"Z"
3-5
4-5
"Z"
3-8
4-8
4-8
4-8
3-8
3-5
3-8
NEUTRAL
1-3
3-6
3-7
Epoxy 5´

Astra









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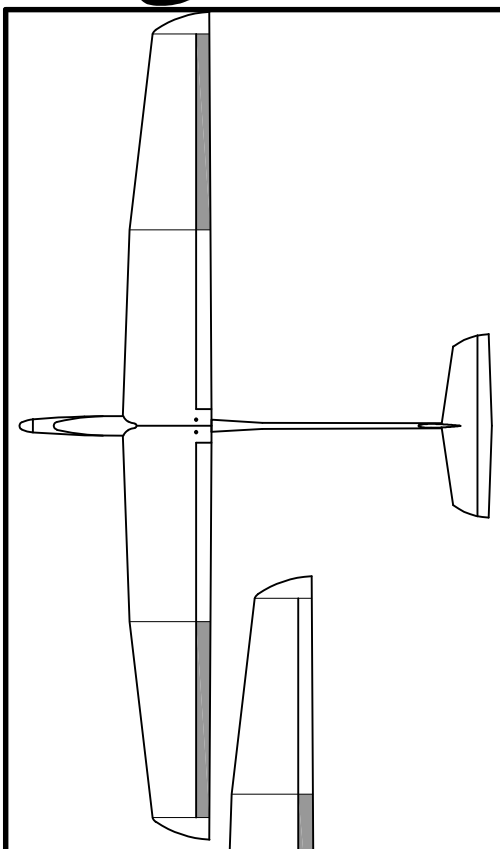
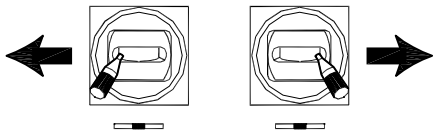
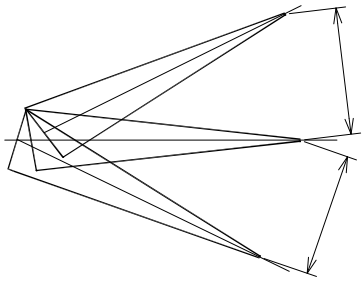




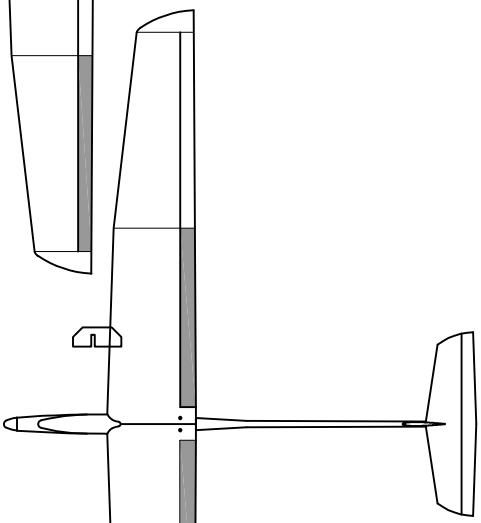
Přistání - 9 - 12 mm
Landing

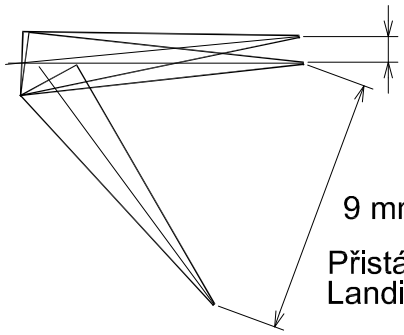


7 - 9 mm

EXPO 30%

4 - 6 mm

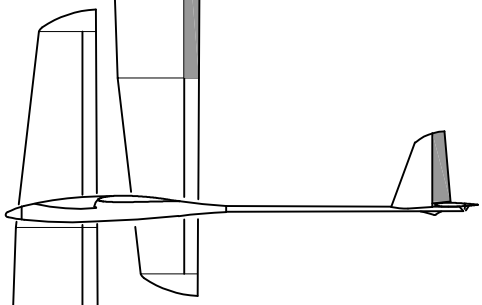


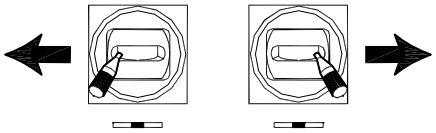


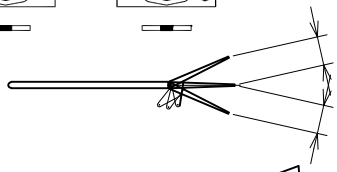
2 mm

9 mm

Přistání - 30 mm
Landing



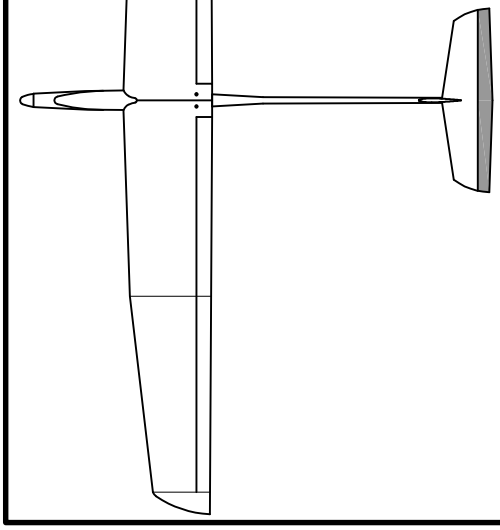


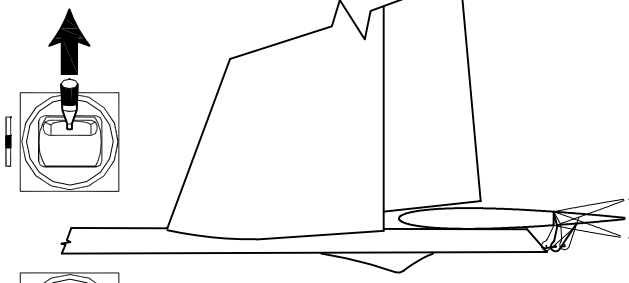


15 - 20 mm

EXPO 30%

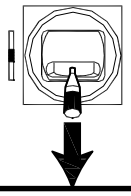
15 - 20 mm





8 -10 mm

8 -10 mm



EXPO 30%

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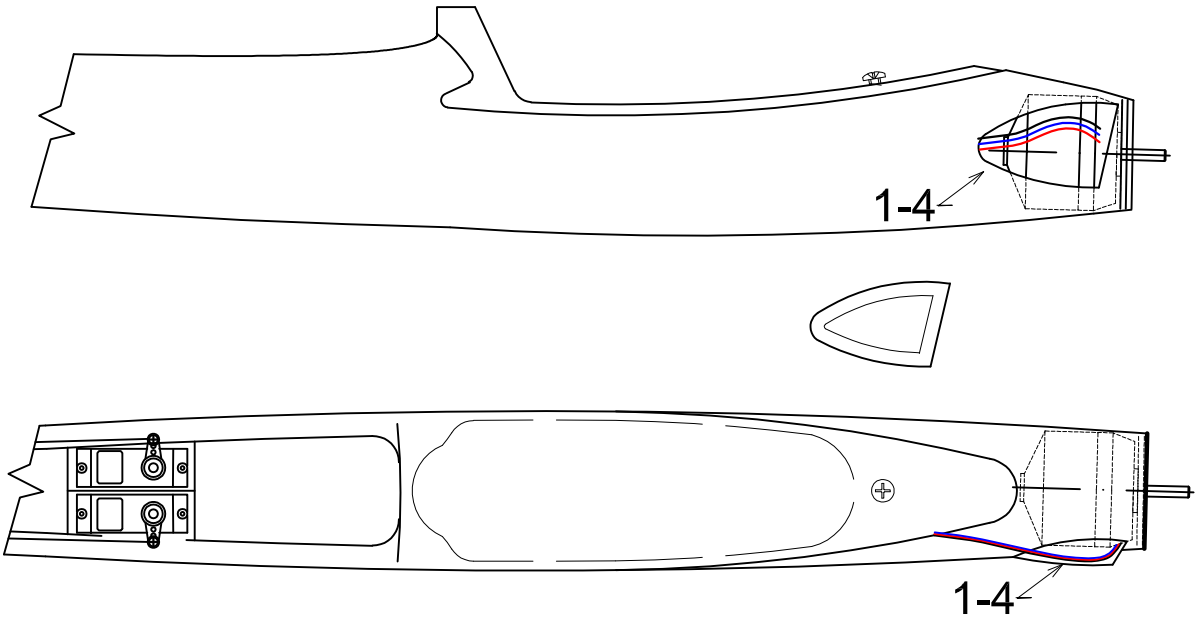
outrunner motor



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