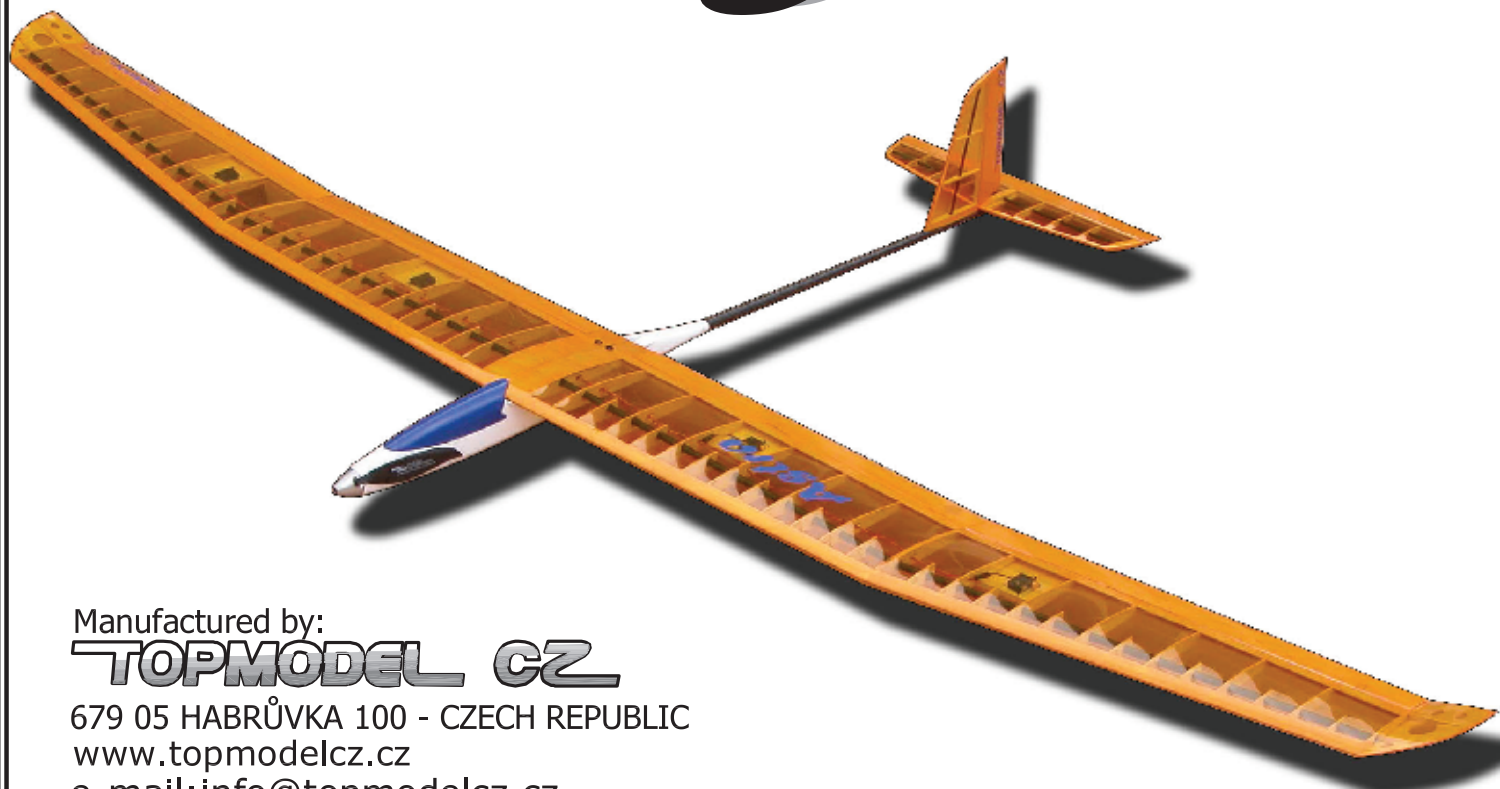


ELECTRO SAILPLANE

# Astra



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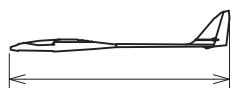
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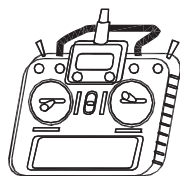
e-mail: info@topmodelcz.cz

Order N°: 02079

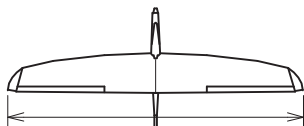
Radio system you'll need :



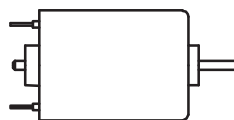
1125mm



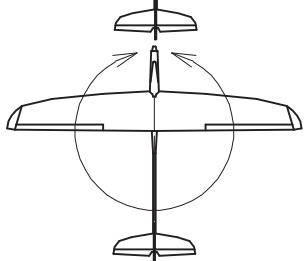
5channel  
with  
6 servos



2150mm



Speed 400 + 3,8:1  
Mega ACn 16/15/5-7  
Feigao B20-15L+4:1



36,4dm<sup>2</sup>  
17,9-20,6g/dm<sup>2</sup>



7 Nixx 0,5 - 1,1Ah  
2S Lixx 1,5 - 2Ah



0,65 - 0,75 kg



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+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 tube $\varnothing$ 7/5 x 160 mm   | -     | 01     |
| 2-2    | wing fixing screw            | nylon screw M 4 x 15 mm  | -     | 02     |
| 2-21   | centering pin                | fibreglass $\varnothing$ 2 x 20 mm   | -     | 01     |
| 2-22   | screw mount                  | plastic 0,7 x 20 x 37mm  | -     | 01     |
| 2-25   | centering pin                | fibreglass $\varnothing$ 3 x 40 mm   | -     | 02     |
| 2-3    | captive nut                  | M4   | -     | 02     |
| 2-31   | nut mount                    | plywood 3 x 20 x 35 mm   | -     | 01     |
| 2-41   | wing servo cover             | ABS plastic  | -     | 04     |
| 2-5    | aileron-flap pushrod         | piano wire M2 x 31 mm  | -     | 04     |
| 2-7    | clevis                       | MPJ 2110   | -     | 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 $\varnothing$ 2 mm L=810mm,<br>piano wire $\varnothing$ 0,8 mm L= 860mm | 01+01 | -      |
| 3-6    | threaded link                | brass MPJ 2764   | -     | 01     |
| 3-8    | elevator horn                | fibreglass plate 1 mm  | -     | 01     |
| 4      | vertical tail                | construction balsa   | 01    | -      |
| 4-5    | rudder link                  | bowden $\varnothing$ 2 mm L=700mm,<br>piano wire $\varnothing$ 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 $\varnothing$ 2,9 x 6,5 mm  | -     | 01     |
| 7      | stickers                     |  | 01    |        |

### RECOMMENDED RC EQUIPMENT:

Radio : 5 channel + 7 channel (receiver)  
 Servos : 6 x 6 – 10g ( PS 1616, TS 1118 )  
 Motor : SPEED (MIG) – 400 / 6V + gearbox 3,8 :1 ( Mega ACn 16/15/5)  
 Controller: JETI JES 20, JETI SPIN 22

### ATTENTION:

This model construction kit is not a toy and is not suitable for children under the age of 14.  
 Incorrect use of this material could cause material damage or person injury. You are fully responsible for your actions when you use this model.  
 Fly at a safe distance from occupied zones. Be sure that no one else is using the same frequency as you.

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.

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| 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+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     | křídélko                | balsa   | 02         | -           |
| 2-11    | vztlková klapka         | balsa   | 02         | -           |
| 24      | spojka křídla           | uhlík Ø 7/5 x 160 mm                                | -          | 01          |
| 2-2     | uchycení křídla         | šroub polyamid M 4 x 15 mm                          | -          | 02          |
| 2-21    | aretační kolík          | laminát Ø 2 x 20 mm                                 | -          | 01          |
| 2-22    | podložka šroubů         | plast 0,7 x 20 x 37mm                               | -          | 01          |
| 2-25    | aretační kolík          | laminát Ø 3 x 40 mm                                 | -          | 02          |
| 2-3     | uchycení křídla         | matice AL. M4                                       | -          | 02          |
| 2-31    | podložka matice         | překližka 3 x 20 x 35                               | -          | 01          |
| 2-41    | krytka serva            | ABS folie   | -          | 04          |
| 2-5     | táhlo křídélka a klapky | ocel M2 x 31  | -          | 04          |
| 2-7     | koncovka táhla          | MPJ 2110  | -          | 08          |
| 2-8     | páka křídélka           | sklotextit 1 mm                                     | -          | 02          |
| 2-81    | páka klapky             | sklotextit 1 mm                                     | -          | 02          |
| 3       | výškovka                | balsa konstrukční                                   | 01         | -           |
| 3-5     | táhlo výškovky          | bowden Ø2 mm L=810mm,<br>ocel drát Ø0,8 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 Ø2 mm L=700mm,<br>ocel drát Ø0,8 mm L= 780mm | 01+01      | -           |
| 4-6     | koncovka táhla          | MPJ 2764  | -          | 01          |
| 4-8     | páka směrovky           | Sklotextit 1 mm                                     | -          | 01          |
| 6       | kabina                  | laminát   | 01         | -           |
| 6-2     | uchycení kabiny         | vrut Ø2,9 x 6,5 mm                                  | -          | 01          |
| 7       | obtisky                 |   |            |             |

## DOPORUČENÉ PŘÍSLUŠENSTVÍ :

RC souprava : 5 kanál + 7 kanál přijímač

Serva : 6 x 6 – 10g ( PS 1616, TS 1118 )

Motor : SPEED (MIG) – 400 / 6V + převodovka 3,8 :1 ( Mega ACn 16/15/5)

Regulátor: JETI JES 20, JETI SPIN 22

**Před prvním startem zkontrolujte jestli nejsou díly modelu zkroucené.**

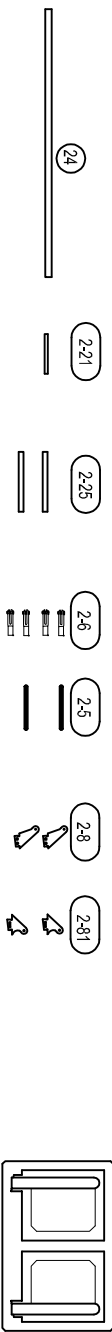
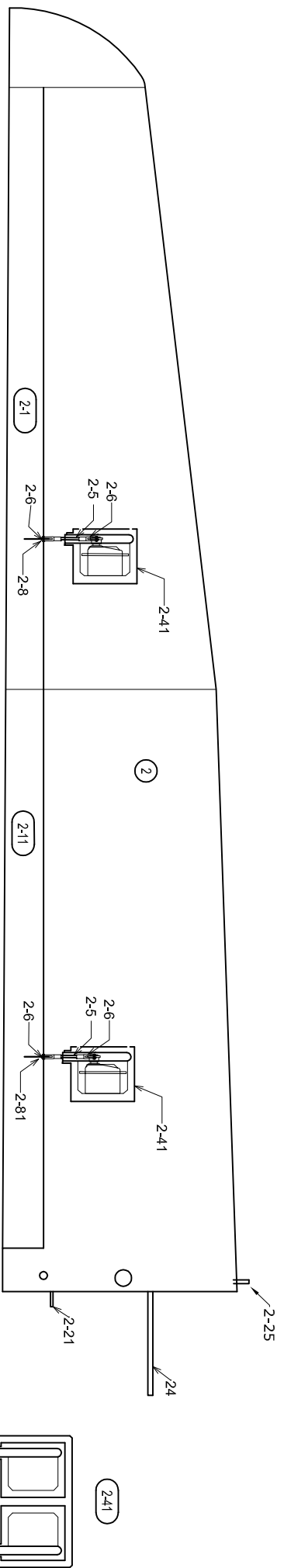
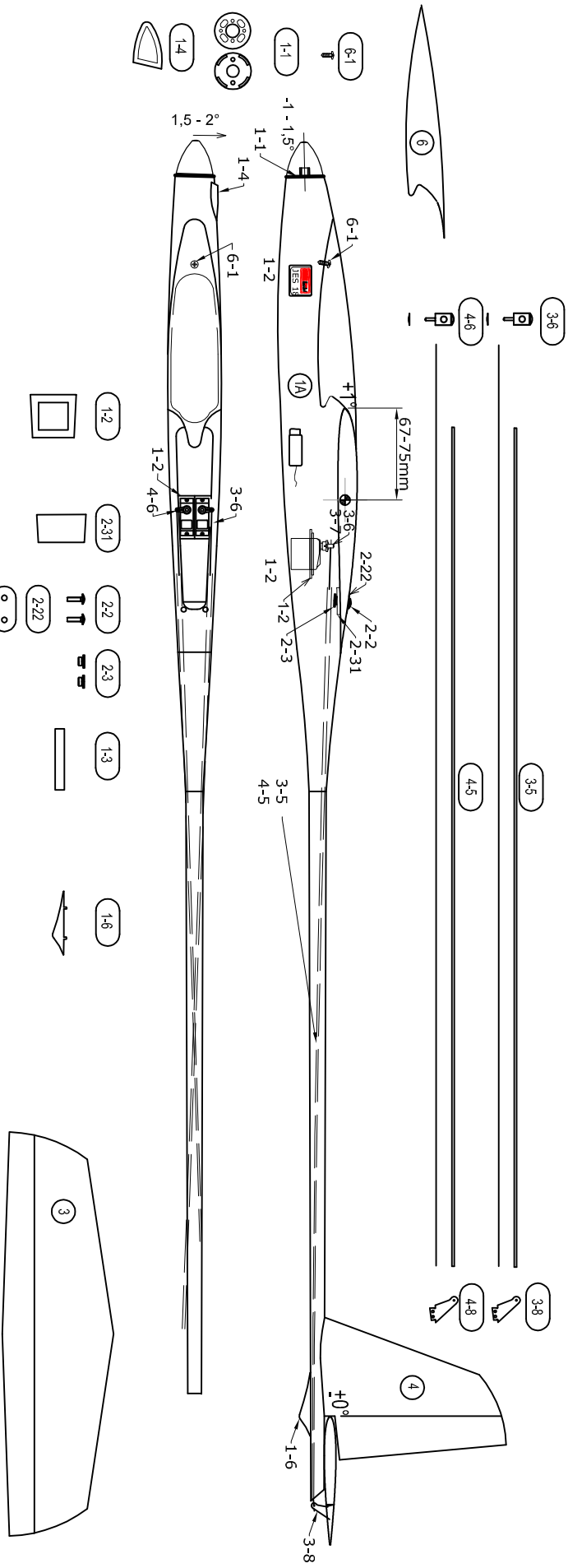
**Náprava je možná pomocí horkovzdušné pistole.**

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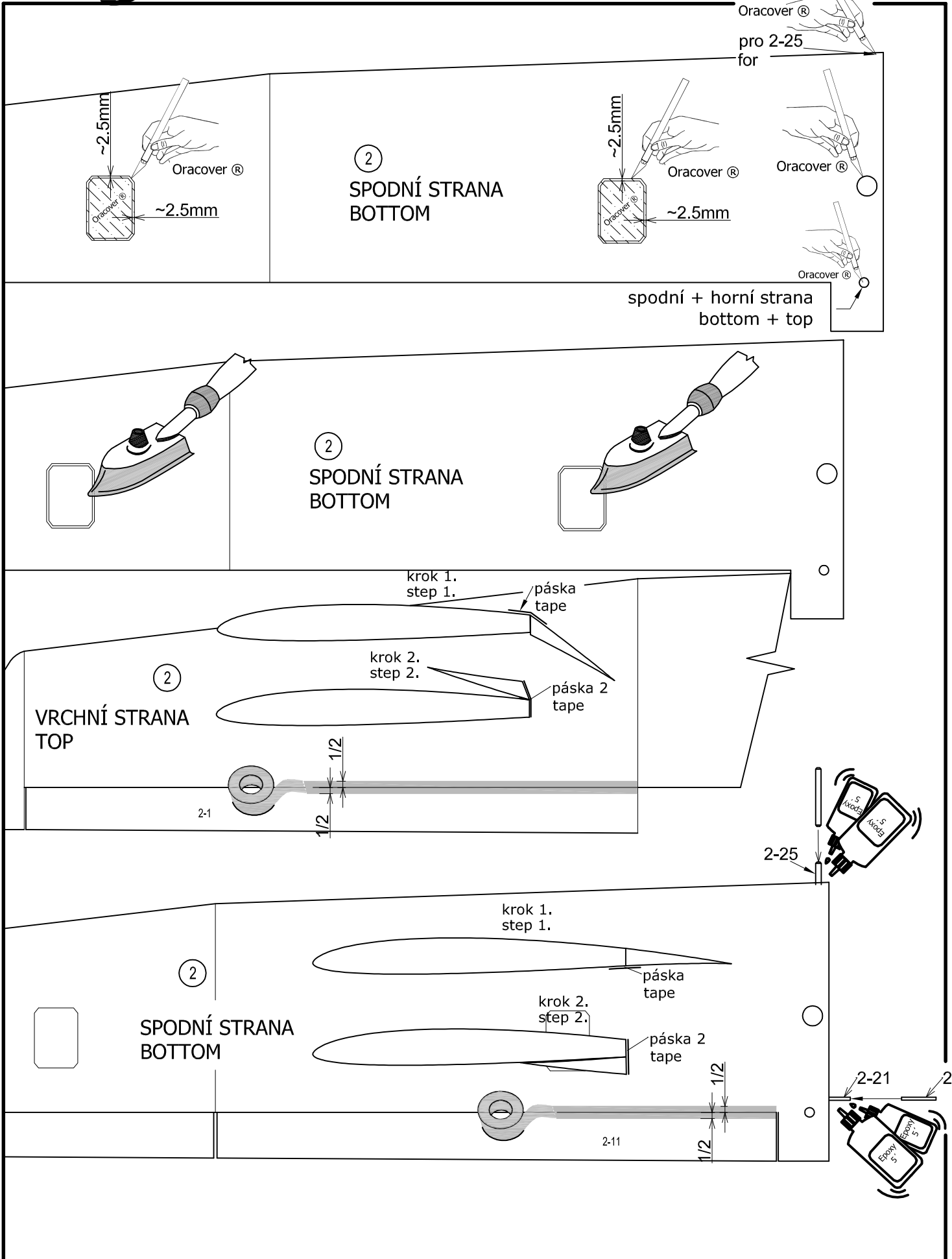


# Astra

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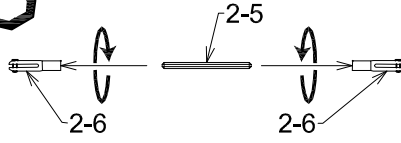
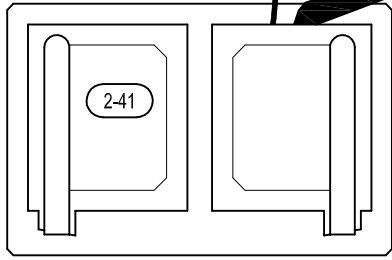
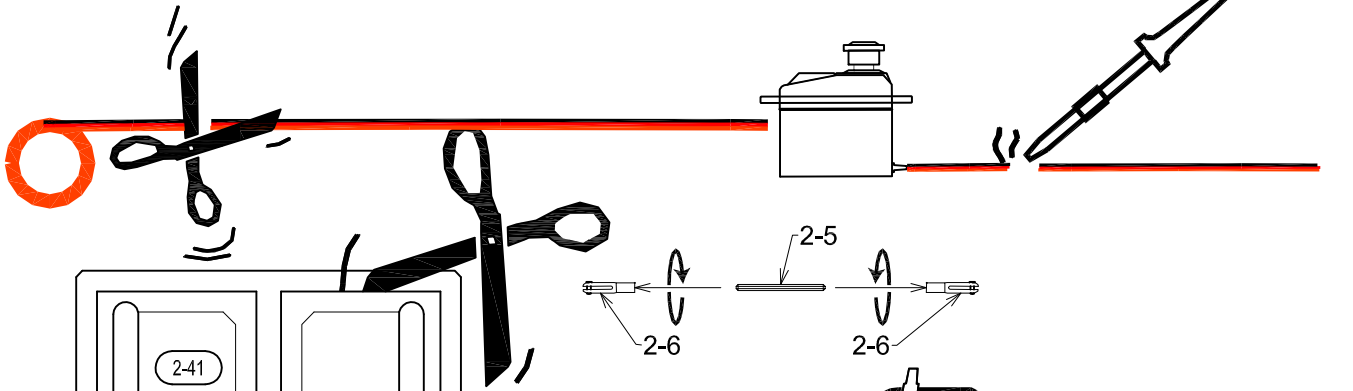
© VII. 2008 TOPMODEL CZ Výkres není v měřítku - Not scale !!!



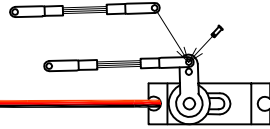
# Astra

pro servo křídélek ~ 700mm  
for aileron servo

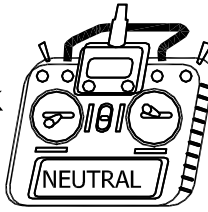
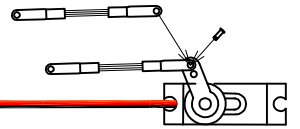
pro servo klapek ~ 320mm  
for flaps servo



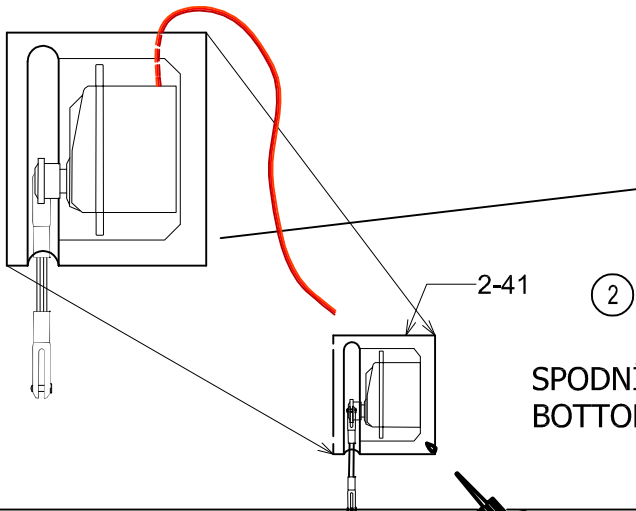
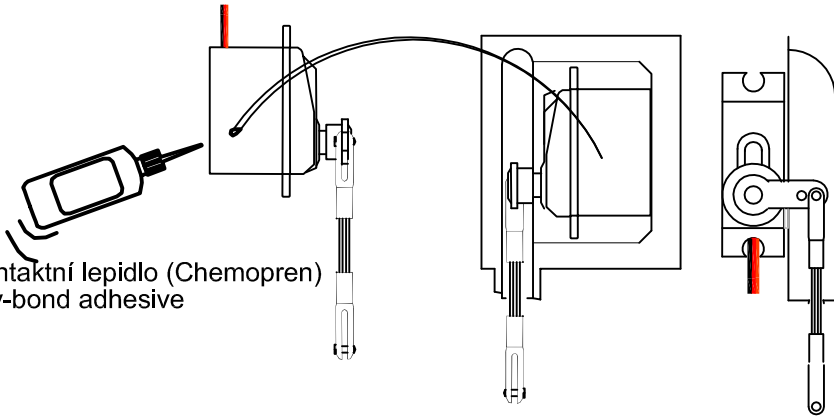
pro servo křídélek  
for aileron servo



pro servo klapek  
for flaps servo



kontaktní lepidlo (Chemopren)  
dry-bond adhesive



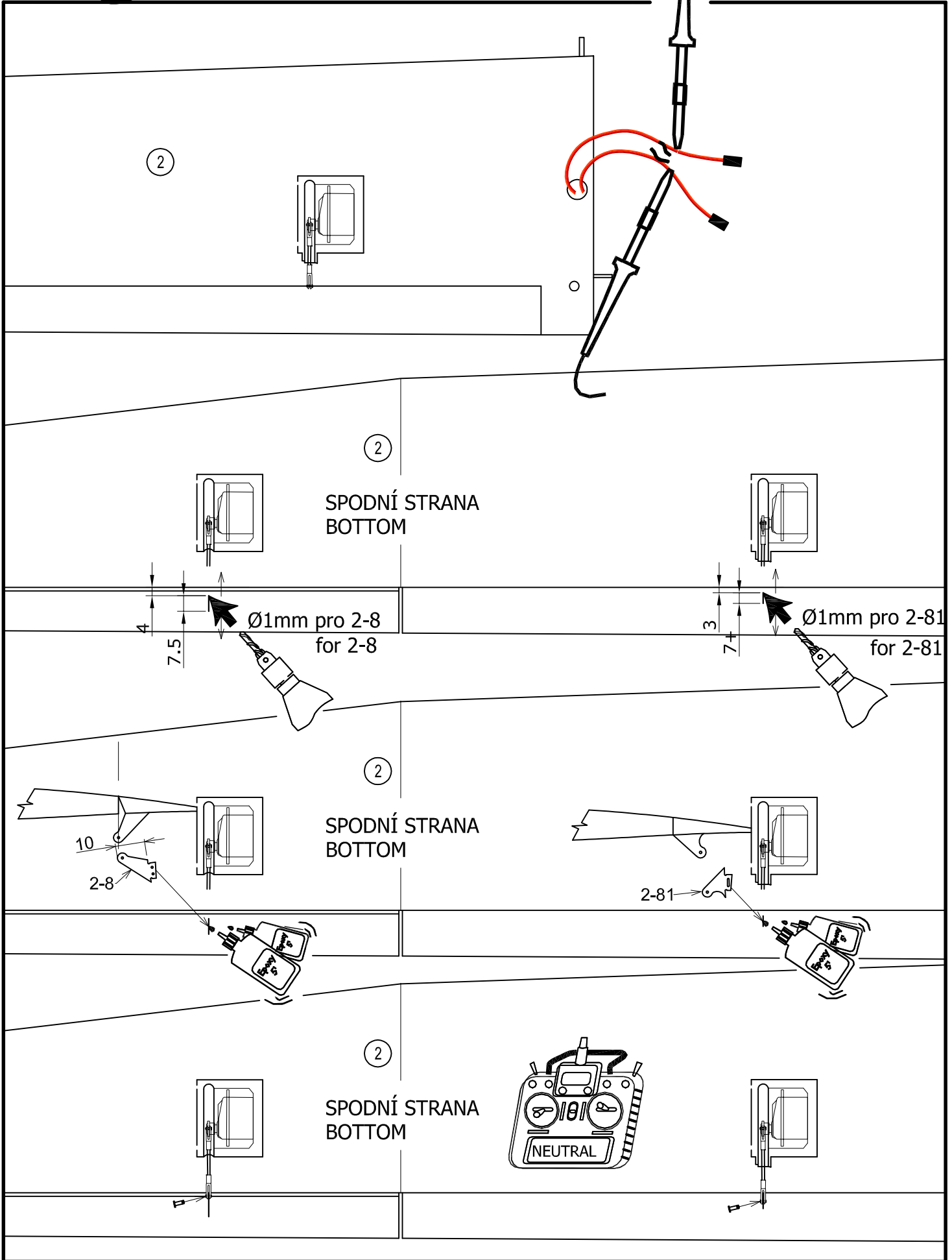
2

SPODNÍ STRANA  
BOTTOM

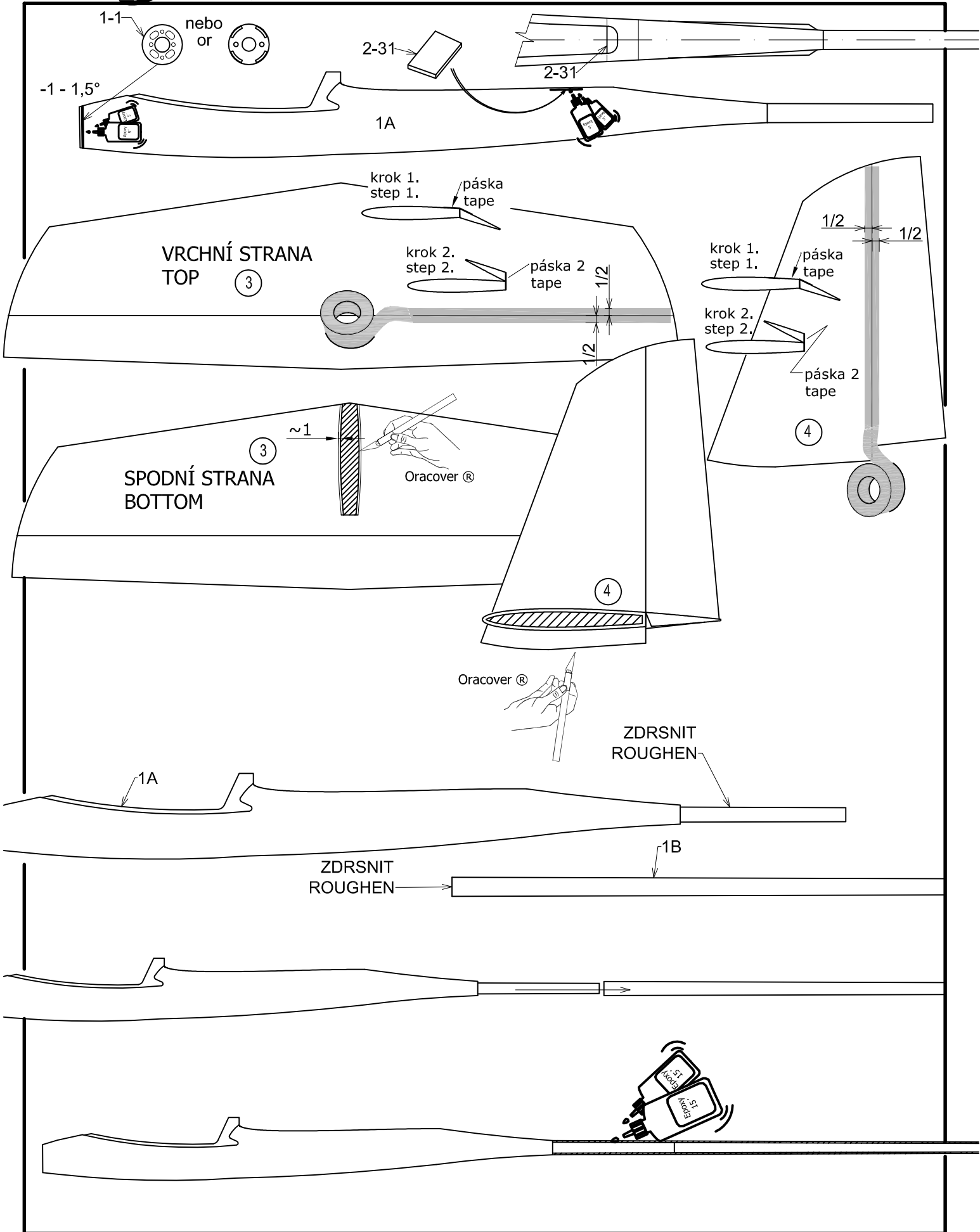
kontaktní lepidlo (Chemopren)  
dry-bond adhesive

kontaktní lepidlo (Chemopren)  
dry-bond adhesive

# Astra

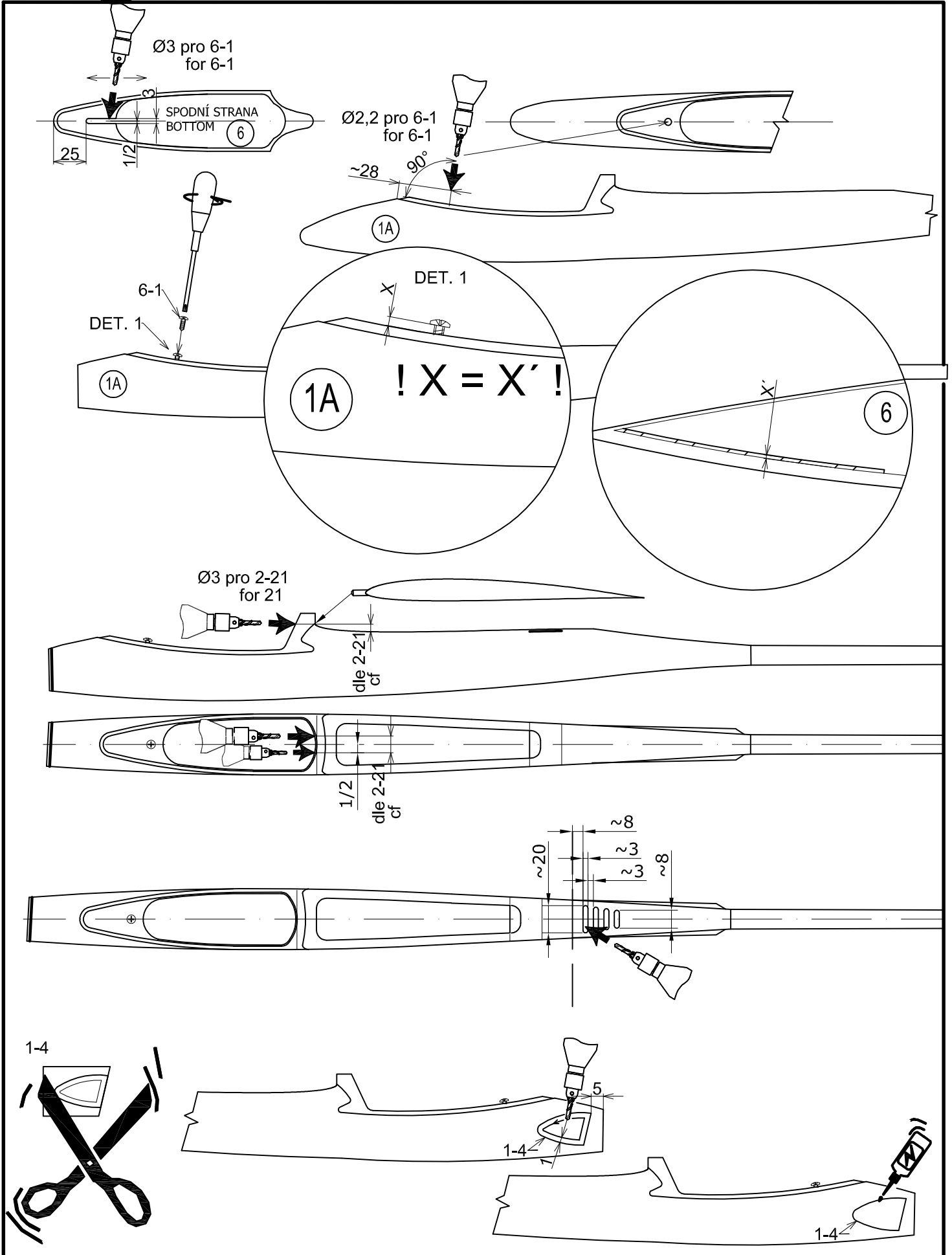


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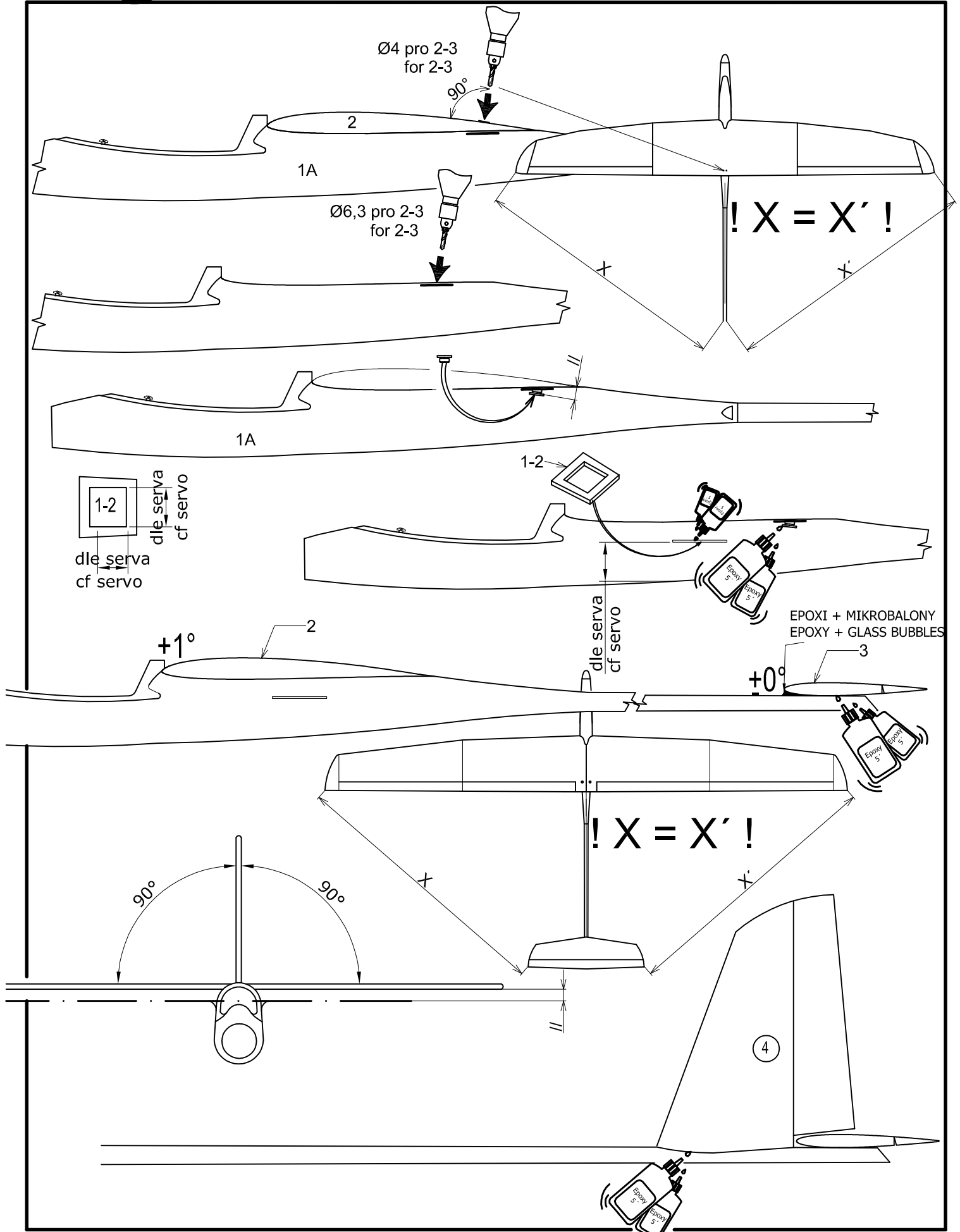




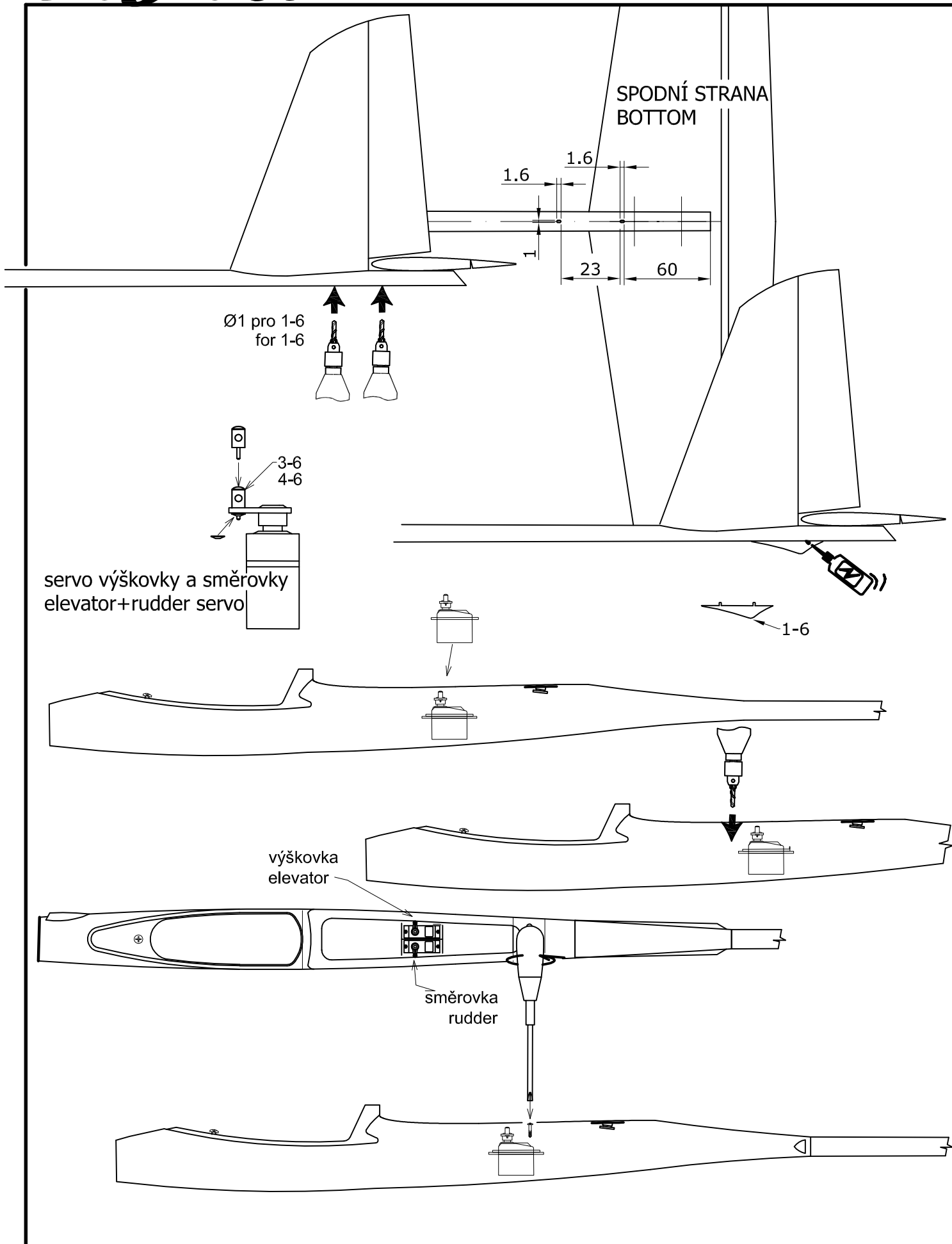
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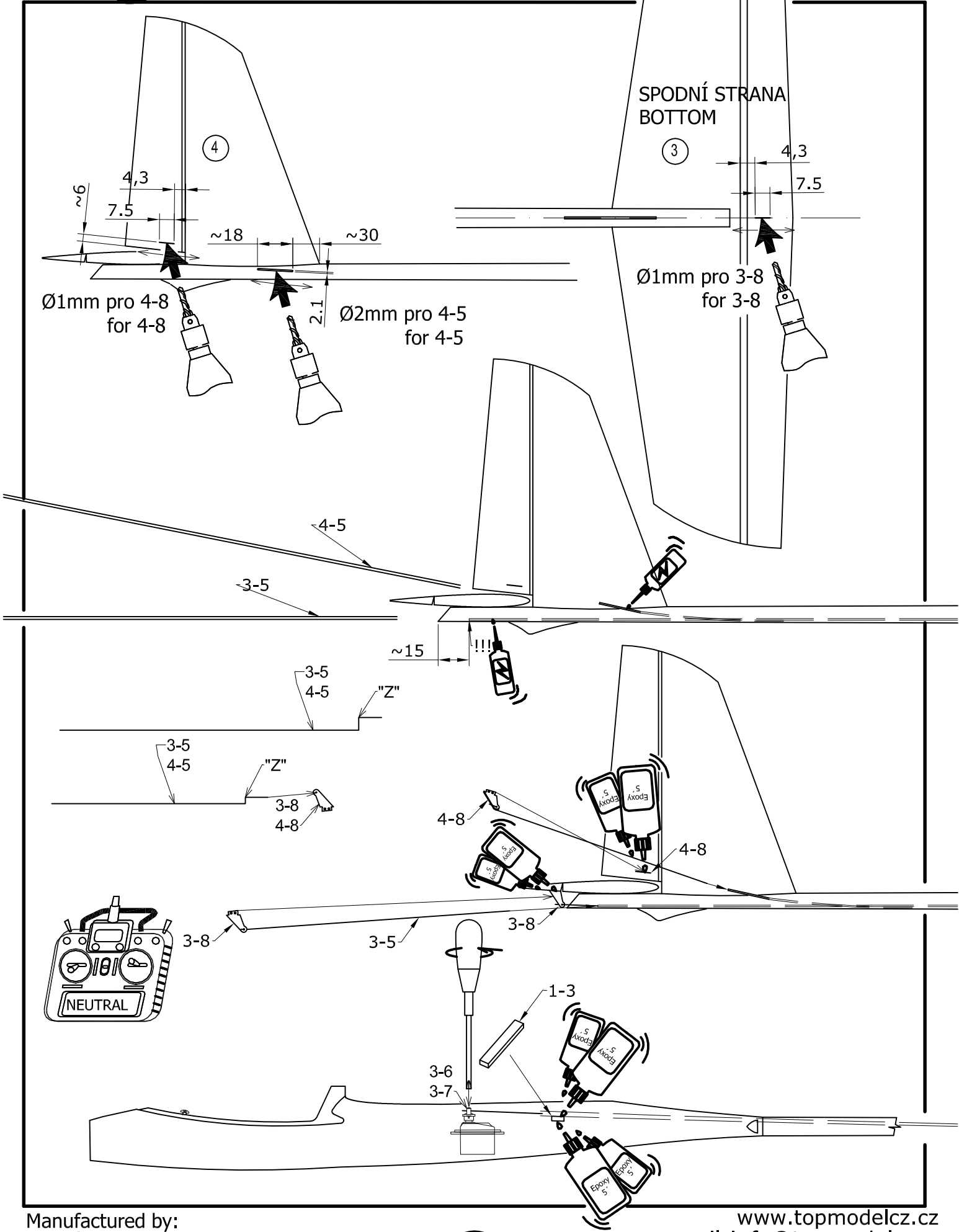
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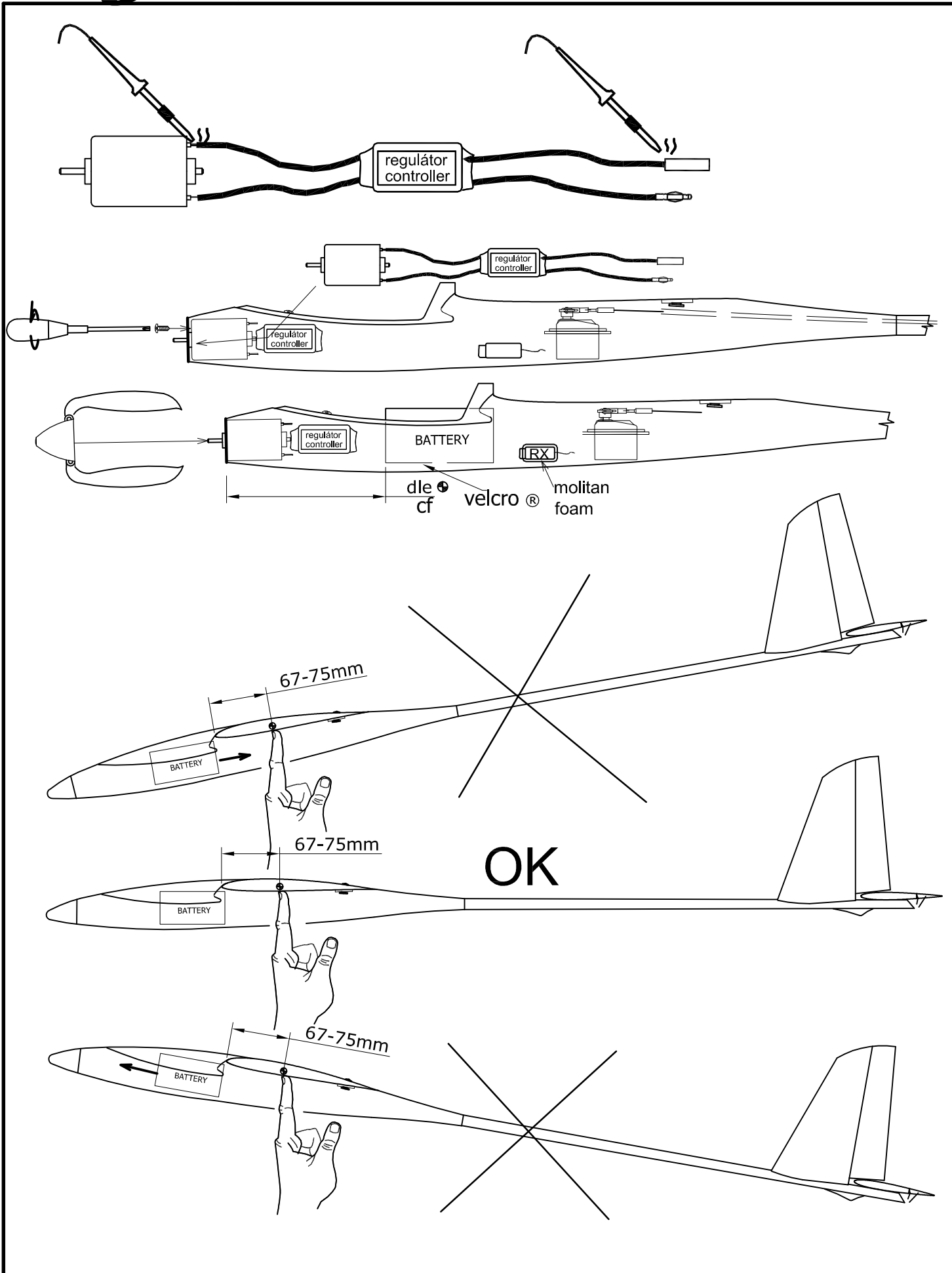
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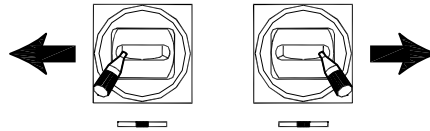
# Astra



# Astra



# Astra

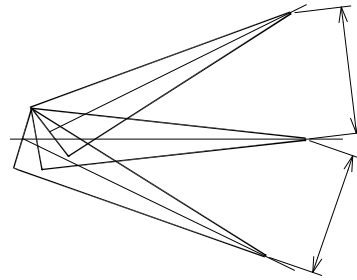


Přistání - 9 - 12 mm  
Landing

7 - 9 mm

EXPO 30%

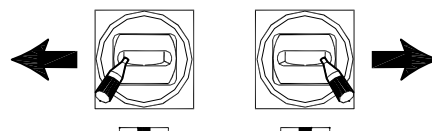
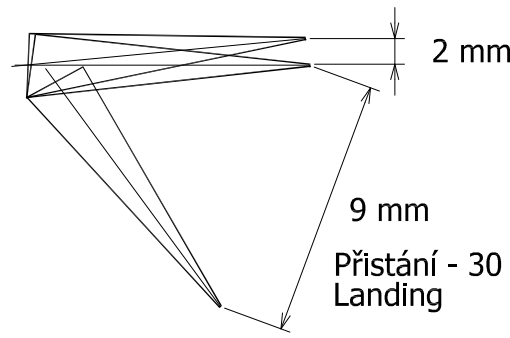
4 - 6 mm



2 mm

9 mm

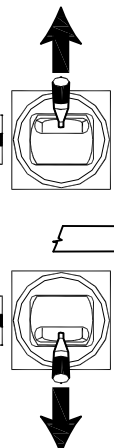
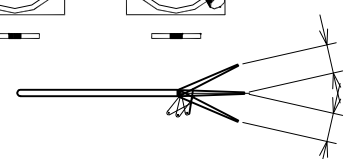
Přistání - 30 mm  
Landing



15 - 20 mm

EXPO 30%

15 - 20 mm



8 - 10 mm

8 - 10 mm

EXPO 30%

