

# CHALLENGER

ELECTRO SAILPLANE



Manufactured by:

**TOPMODEL CZ**

679 05 HABRŮVKA 100 - CZECH REPUBLIC

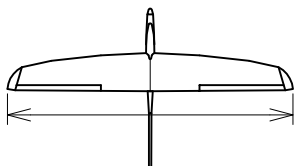
www.topmodelcz.cz

e-mail: info@topmodelcz.cz

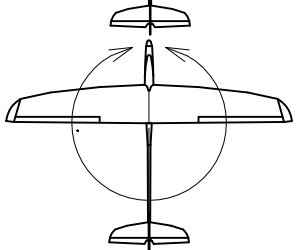
Order N°: 02096



1340mm



1995mm



36,3dm<sup>2</sup>  
33-44g/dm<sup>2</sup>

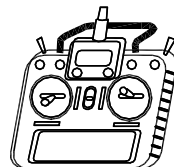


1,2-1,6kg



MH 32

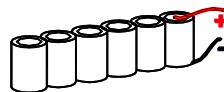
Radio system you'll need :



5channel  
with  
6 servos



Mega ACn22/3S  
MVVS 3,5/1200  
XPower XC 3223/10



3S Lixx 2-3Ah

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

# GB - USA Parts list

| Part # | Part name             | Material, dimensions  | Loose        | In bag  |
|--------|-----------------------|---|--------------|---------|
|        | building instruction  |   | 01           | -       |
| 1      | fuselage              | fibreglass  | 01           | -       |
| 1-1    | engine mount          | fibreglass 3 mm   | -            | 01      |
| 1-2    | servo tray            | plywood 4 x 53 x 47 mm  | -            | 01      |
| 2      | wing                  | foam core - balsa   | 02           | -       |
| 2-1    | aileron               | foam core - balsa   | 02           | -       |
| 2-11   | flap                  | foam core - balsa   | 02           | -       |
| 24     | wing joiner           | steel Ø 6 x 170 mm  | -            | 01      |
| 2-2    | wing fixing screw     | nylon screw M 4 x 30 mm   | -            | 02      |
| 2-21   | centering pin         | fibreglass Ø 3 x 30 mm  | -            | 01      |
| 2-25   | wing pin              | beech dowel Ø 4 x 40 mm   | -            | 02      |
| 2-3    | nut                   | aluminium M4  | -            | 02      |
| 2-31   | nut mount             | plywood 3 x 23 x 53 mm  | -            | 01      |
| 2-4    | servo mount           | polyurethan   | -            | 04 + 04 |
| 2-41   | wing servo cover      | ABS plastic   | -            | 04      |
| 2-5    | aileron-flap pushrod  | piano wire M2   | -            | 04      |
| 2-6    | clevis                | MPJ 2110  | -            | 04      |
| 2-8    | aileron horn          | fibreglass plate 1 mm   | -            | 02      |
| 2-81   | flap horn             | fibreglass plate 1 mm   | -            | 02      |
| 3      | horizontal stabilizer | balsa assembly  | 02           | -       |
| 3-21   | centering pin         | piano wire Ø 2 x 70 mm  | -            | 01      |
| 3-3    | elevator joiner       | fibreglass Ø 3 x 150 mm   | -            | 01      |
| 3-5    | elevator link         | balsa Ø 10 x 645 mm   | 01           | -       |
| 3-5N   | thread                | 1,5 m   | -            | 01      |
| 3-5S   | elevator link         | piano wire Ø 1,8 x 150 mm   | -            | 01      |
| 3-6    | clevis                | MPJ 2110  | -            | 02      |
| 3-8    | elevator horn         | plastic   | -            | 01      |
| 4      | fin                   | balsa assembly  | 01           | -       |
| 4-3    | closing strip         | balsa 5 mm  | -            | 01      |
| 4-5    | rudder link           | external bowden L= 770 mm,<br>internal bowden L=840mm,<br>piano wire Ø0,8 mm L= 840mm | 01+01+<br>01 | -       |
| 4-6    | clevis                | MPJ 2110  | -            | 02      |
| 4-7    | threaded coupler      | MPJ 2012  |              |         |
| 4-8    | rudder horn           | fibreglass plate 1,5 mm   | -            | 01      |
| 6      | canopy                | fibreglass  | 01           | -       |
| 6-2    | canopy fixing         | fibreglass Ø2 x 180 mm  | -            | 01      |
| 6-21   | mount                 | plywood 1 x 6 x 12 mm   | -            | 02      |
| 7      | stickers              |   | 01           |         |
| 11     | pinned hinge          | MPJ 2502  | -            | 02      |

## RECOMMENDED EQUIPMENT:

|             |  | Pieces |                 | Item No <a href="http://www.topmodelcz.cz">www.topmodelcz.cz</a> |
|-------------|--|--------|-----------------|--|
| Transmitter | 5 channel                                      |        |                 |  |
| Receiver    | 7 channel                                      |        |                 |  |
| Servo       | <a href="#">HS-81</a>                          | 2      | ailerons        | 1HI3035  |
|             | <a href="#">MS2414</a>                         | 2      | elevator+rudder | 0202414  |
|             | <a href="#">HS-82 MG</a>                       | 2      | flaps           | 1HI3040  |
| Motor       | <a href="#">MVVS 3,5/1200</a>                  | 1      |                 | 2046   |
| Controller: | <a href="#">SPIN 44</a>                        | 1      |                 | SPIN 44  |
| Spinner:    | <a href="#">turbo for folding props 40/5/8</a> | 1      |                 | 0201559  |
| Propeller:  | <a href="#">CAM CARBON 11/7"</a>               | 1      |                 | 723441   |
| Battery:    |  |        | LiPo 3S 2-3Ah   |  |

## 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.**

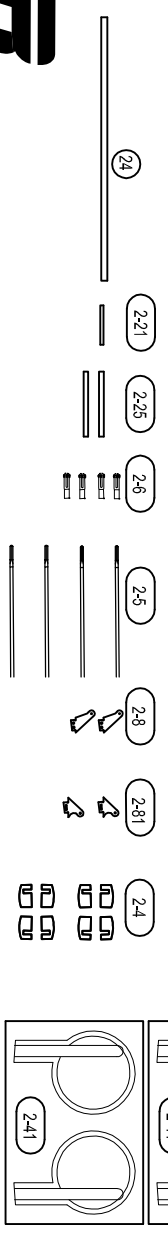
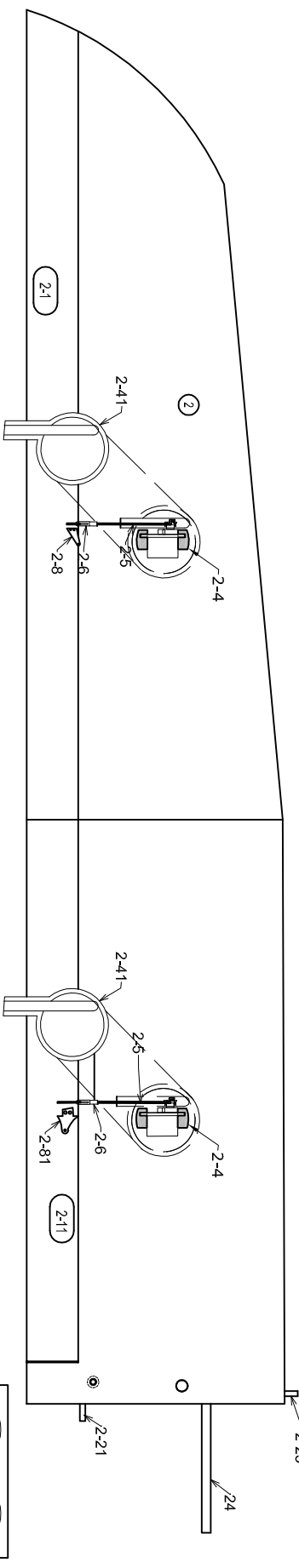
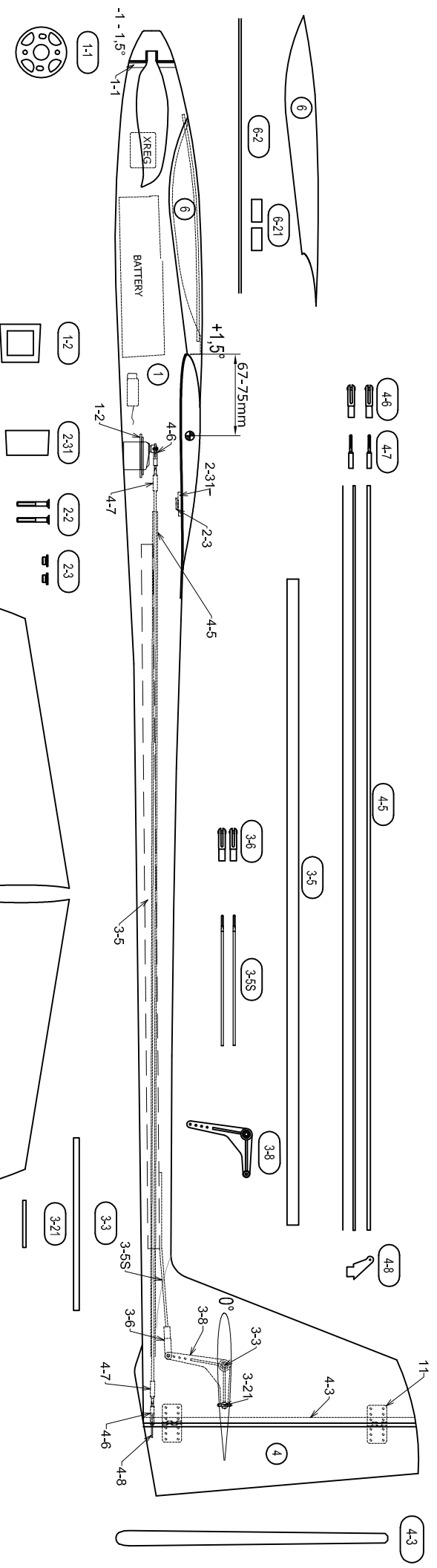
**CZ** Seznam dílů

| Položka | Název dílu                 | Materiál, rozměr  | Volně / ks | Balíček/ ks |
|---------|----------------------------|---|------------|-------------|
|         | montážní návod             |   | 01         | -           |
| 1       | trup                       | laminát   | 01         | -           |
| 1-1     | motorová přepážka          | sklotextit 3 mm   | -          | 01          |
| 1-2     | držák serva ocasních ploch | překližka 4 x 53 x 47 mm  | -          | 01          |
| 2       | křídlo                     | polystyren-balsa  | 02         | -           |
| 2-1     | křídélko                   | polystyren-balsa  | 02         | -           |
| 2-11    | vztlaková klapka           | polystyren-balsa  | 02         | -           |
| 24      | spojka křídla              | ocel Ø 6 x 170 mm   | -          | 01          |
| 2-2     | uchycení křídla            | šroub M 4 x 30 mm   | -          | 02          |
| 2-21    | aretační kolík             | laminát Ø 3 x 30 mm   | -          | 01          |
| 2-25    | kolík křídla               | buk Ø 4 x 40 mm   | -          | 02          |
| 2-3     | uchycení křídla            | matice AL. M4   | -          | 02          |
| 2-31    | podložka matice            | překližka 3 x 23 x 53   | -          | 01          |
| 2-4     | držák serva                | polyuretan 13mm; 11mm   | -          | 04 + 04     |
| 2-41    | krytka serva               | ABS folie   | -          | 04          |
| 2-5     | táhlo křídélka a klapky    | ocel  | -          | 04          |
| 2-6     | koncovka táhla             | MPJ 2110  | -          | 04          |
| 2-8     | páka křídélka              | sklotextit 1 mm   | -          | 02          |
| 2-81    | páka klapky                | sklotextit 1 mm   | -          | 02          |
| 3       | výškovka                   | balsa konstrukční   | 02         | -           |
| 3-21    | aretační kolík             | ocel Ø2mm L = 70mm  | -          | 01          |
| 3-3     | spojka VOP                 | laminát Ø3mm L = 150mm  | -          | 01          |
| 3-5     | táhlo VOP                  | balsa 10x10, L = 645mm  | 01         | -           |
| 3-5N    | nit                        | 1,5 m   | -          | 01          |
| 3-5S    | táhlo VOP                  | ocel Ø2mm L = 140mm   | -          | 02          |
| 3-6     | koncovka táhla             | MPJ 2110  | -          | 02          |
| 3-8     | páka                       | plast   | -          | 01          |
| 4       | směrovka                   | balsa konstrukční   | 01         | -           |
| 4-3     | steven                     | b 5   | -          | 01          |
| 4-5     | táhlo směrovky             | bowden Ø3mm L = 770mm<br>bowden Ø2mm L = 840<br>ocel. drát Ø0,8mm L = 840mm | 01+01+01   |             |
| 4-6     | koncovka táhla             | MPJ 2110  | -          | 02          |
| 4-7     | spojka táhla               | MPJ 2012  | -          | 02          |
| 4-8     | páka směrovky              | sklotextit 1,5 mm   | -          | 01          |
| 6       | kabina                     | laminát   | 01         | -           |
| 6-2     | uchycení kabiny            | laminát Ø2 x 180 mm   | -          | 01          |
| 6-21    | podložka                   | př. 1 x 6 x 12  | -          | 02          |
| 7       | obtisky                    |   | 01         |             |
| 11      | závěsy kormidel            | MPJ 2502  | -          | 02          |

**DOPORUČENÉ PŘÍSLUŠENSTVÍ :**

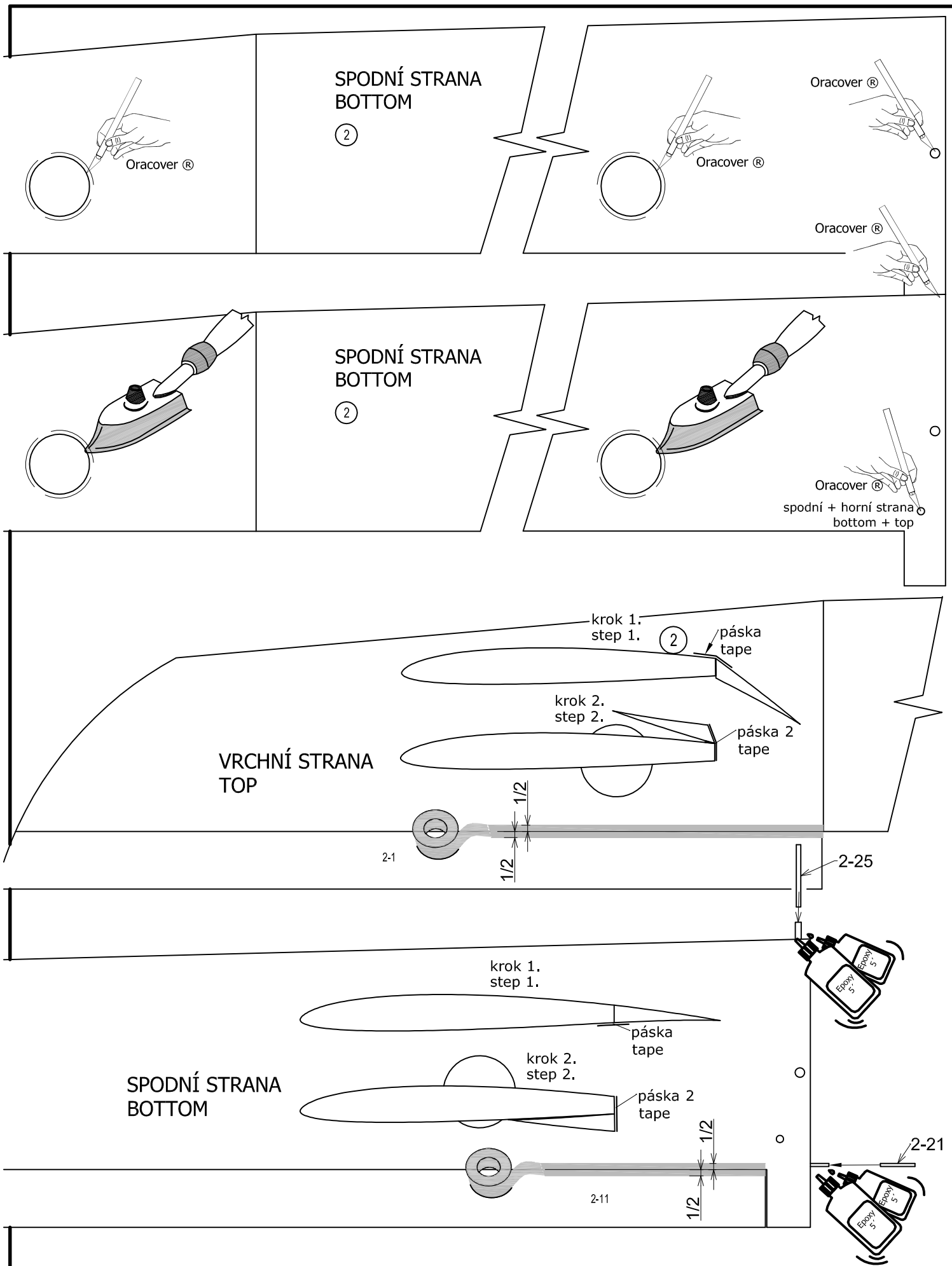
|              |                                    | kusů |                    | objednáací číslo <a href="http://www.topmodelcz.cz">www.topmodelcz.cz</a> |
|--------------|------------------------------------|------|--------------------|---|
| Vysílač      | 5 kanál                            |      |                    |   |
| Přijímač     | 7 kanál                            |      |                    |   |
| Servo        | <a href="#">HS-81</a>              | 2    | křídélka           | 1HI3035   |
|              | <a href="#">MS2414</a>             | 2    | směrovka +výškovka | 0202414   |
|              | <a href="#">HS-82 MG</a>           | 2    | klapky             | 1HI3040   |
| Motor        | <a href="#">2046 MVVS 3,5/1200</a> | 1    |                    | 2046  |
| Regulátor    | <a href="#">SPIN 44</a>            | 1    |                    | SPIN 44   |
| Kužel        | <a href="#">TURBO 40/5,0/8</a>     | 1    |                    | 0201559   |
| Vrtule       | <a href="#">CAM CARBON 11/7"</a>   | 1    |                    | 723441  |
| Akumulátory: |                                    |      | 3S LiPo 2 – 3Ah    |   |

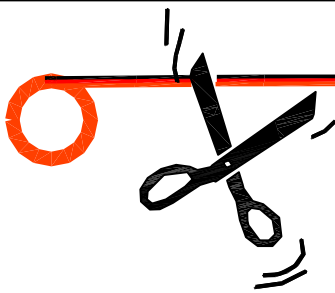
Před prvním startem zkontrolujte jestli nejsou díly modelu zkroucené.  
Náprava je možná pomocí horkovzdušné pistole.



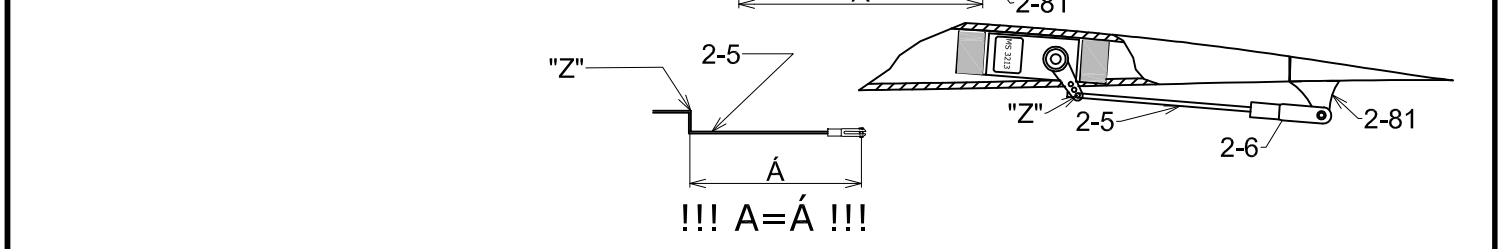
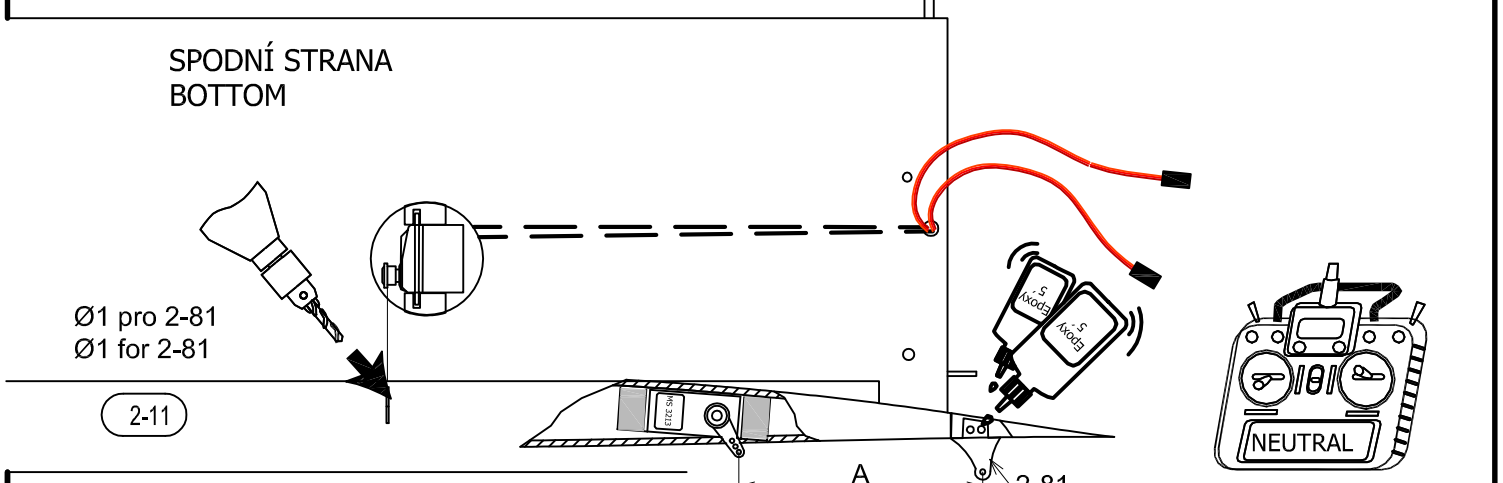
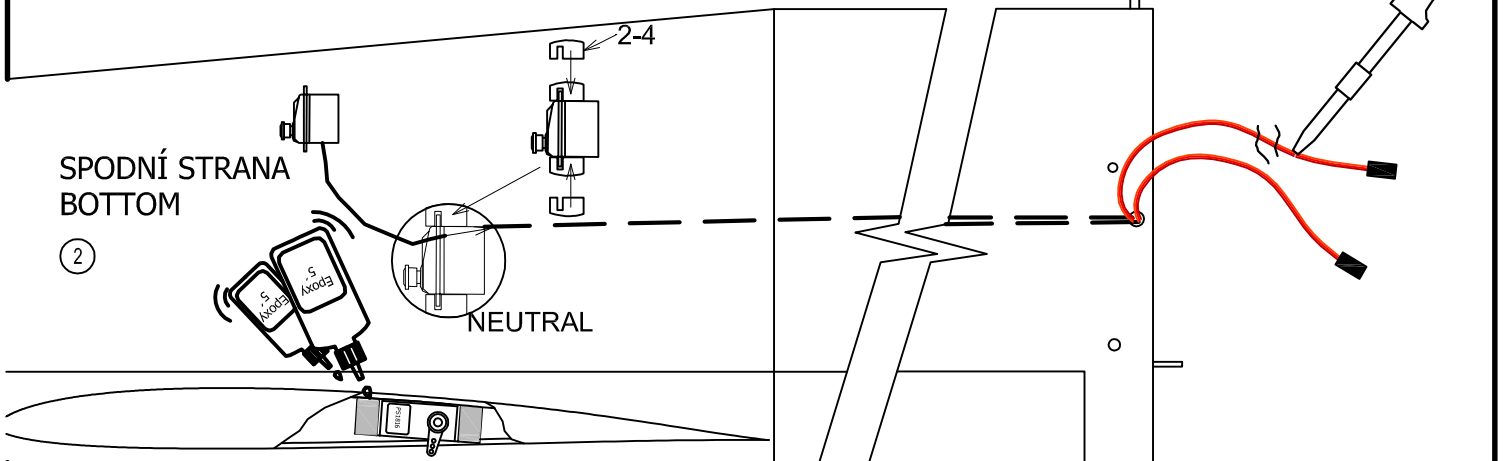
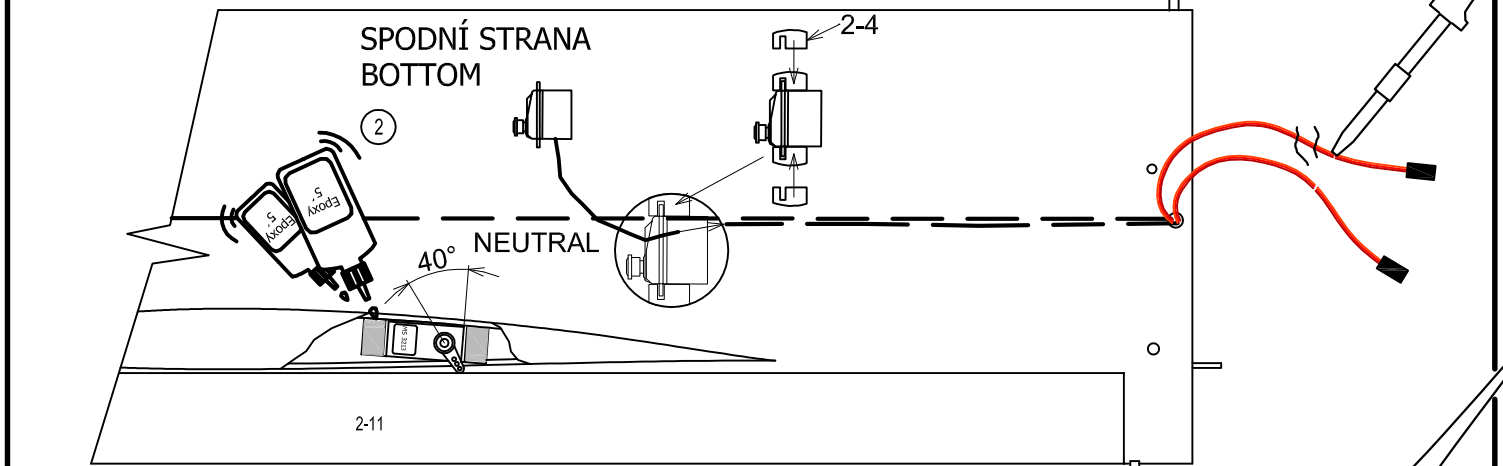
# CHAVILÉNGER

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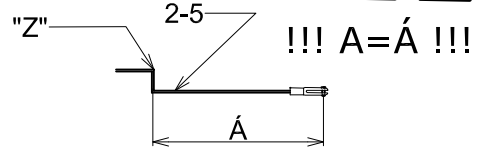
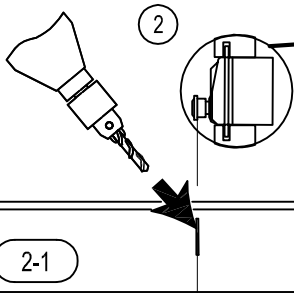


~220mm - 2x pro servo klapek  
for flaps servo  
~550mm - 2x pro servo křidélek  
for aileron servo

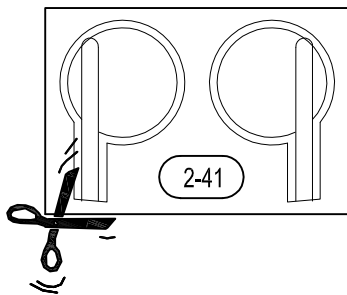
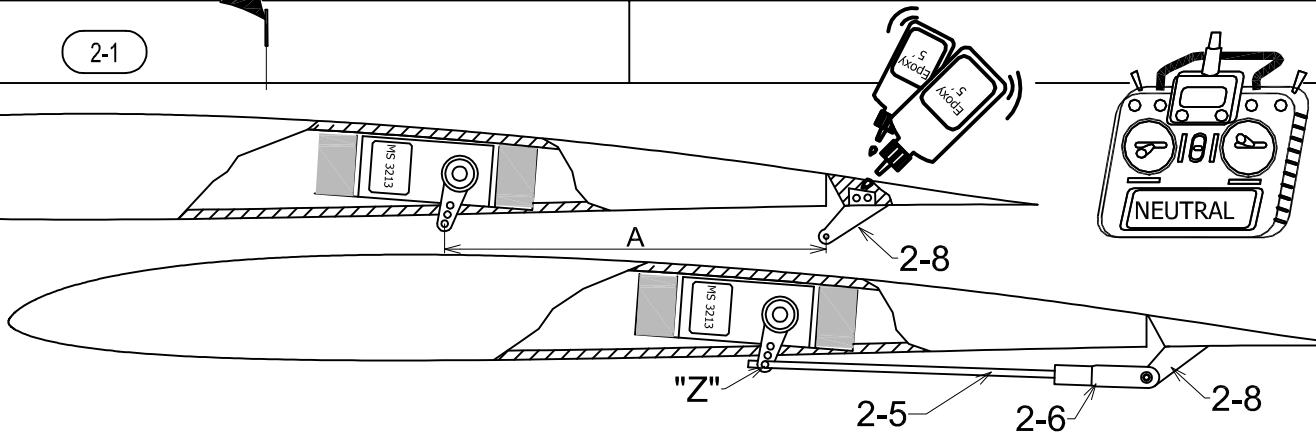


SPODNÍ STRANA  
BOTTOM

Ø1 pro 2-8  
Ø1 for 2-8



2-1



SPODNÍ STRANA  
BOTTOM

2

kontaktní lepidlo (Chemopren)  
dry-bond adhesive

2-41

kontaktní lepidlo (Chemopren)  
dry-bond adhesive

SPODNÍ STRANA  
BOTTOM

2

2-41

