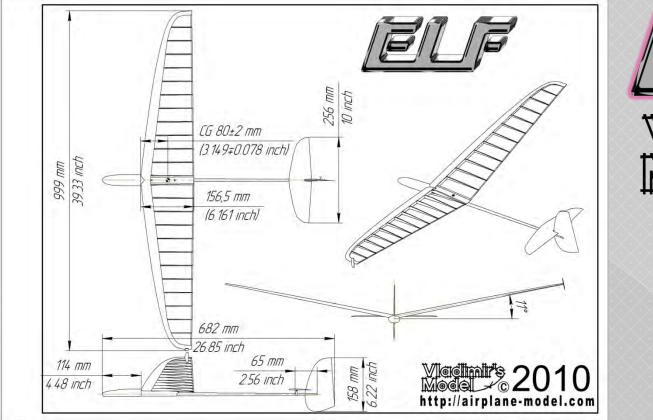
# **ELF – Assembly Instructions**





# What is the ELF?

The ELF is a 1-meter wingspan discus launch glider (DLG)
The ELF allows the Pilot to fly in small spaces like never before
The ELF combines state-of-the-art model sailplane design and construction technology coupled with simplicity at a low cost
The ELF is intended for pilots of all skill levels and experience
The ELF is big fun in a small package!



**ELF - Assembly Instructions** 



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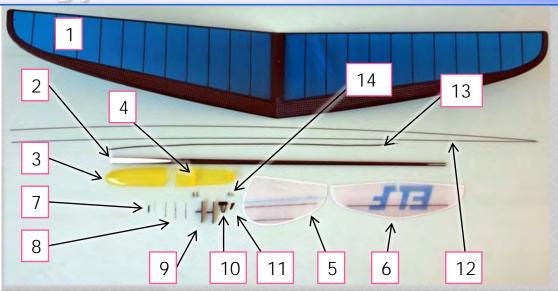
3. GO TO FLY 🙂 !



#### **Parts and Materials List**

#### The ELF kit includes the following parts:

Wing
 Fuselage boom
 Fuselage nose-cap
 Fuselage pylon
 Vertical stabilizer (Rudder)
 Stabilizer
 Stabilizer and rudder pushrod tips (2pcs)
 Servo pushrod tips (2pcs)
 DLG Wing launch pegs (2pcs)
 V-mount
 Rudder horn
 Pushrods (2pc.)
 Pushrods pipe (1pcs)
 Wing mount screws (longer - front, shorter - rear)



#### List of radio equipment needed to fly the ELF:

- 1) Shread RC 240 mAH (Li-Po battery pack)
- 2) Dimond D47 servos (2pcs)
- 3) Micro-Receiver (Spectrum AR6250 or AR6255)
- 4) Radio transmitter

#### List of materials needed to assemble the ELF:

Medium and liquid CA glue Razor knife Pen Ruler



Masking tape 150-240-grit Sandpaper Needle-nose pliers Your desire ©

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# Cement the rudder horn and cutting slot in the stabilizer



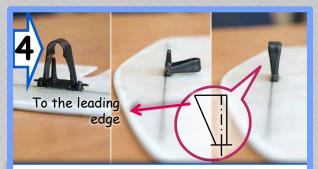
At once behind a spar cut out a slot in the stabilizer center through. Don't cut the carbon spar!!!



Disassemble V-mount. Insert a stabilizer horn into a slot precisely as in picture. Pay attention to horn position!!!



Glue the horn by liquid CA glue from below and from above. Don't fill in the shaft!!!



Attach back a V-detail precisely as in picture. The wide side to the leading edge.



Note slot position in the rudder (50 mm from a bottom)



Cut out the rudder horn slot and glue in

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### Install the rudder and the stabilizer



Sand a rear bore in a pencil and a beam around a pencil with sandpaper





Put on a beam the fuselage-pylon, V-mount with stabilizer, but don't glue them. After tail installation pylon anymore won't put on !!!



Insert the vertical stabilizer into a slot on a beam and accurately glue from two parties by CA glue



Establish the stabilizer to perpendicularly rudder



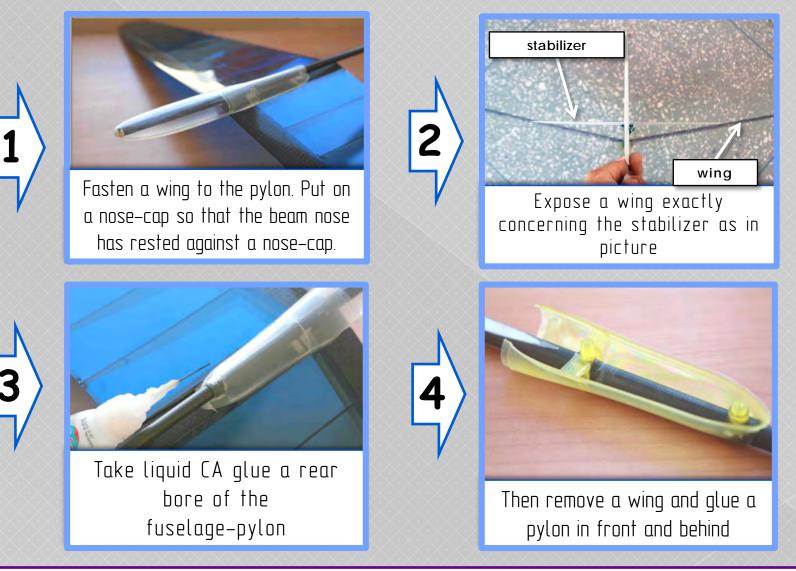
Accurately paste V-mount to a beam. Don't fill in a stabilizer horn !!!

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#### Cement the Fuselage Pod to the Boom

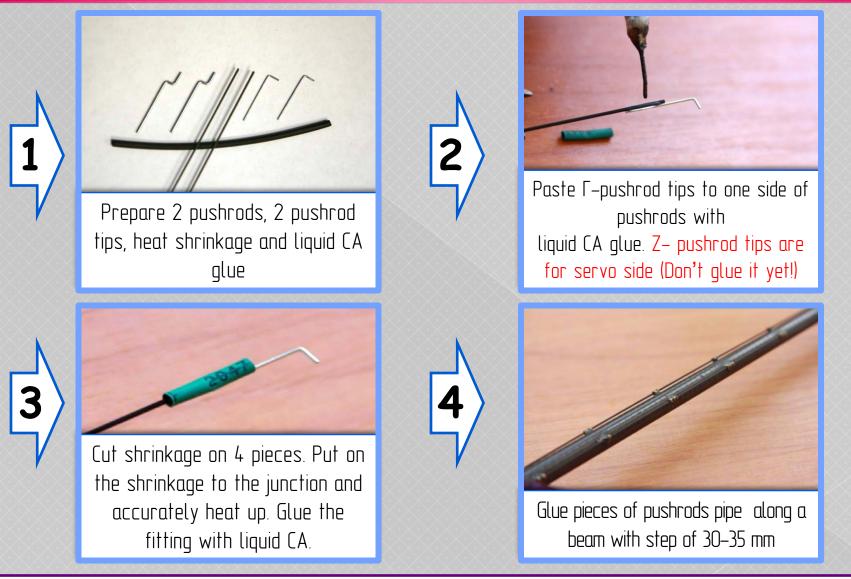


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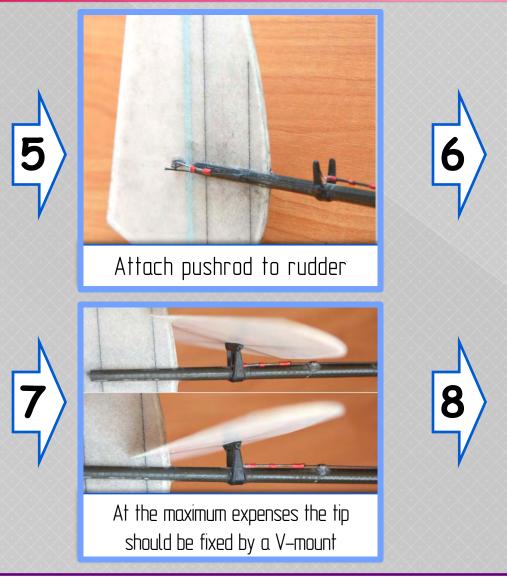
### Install the Pushrods and Pushrod Tips



**ELF** - Assembly Instructions

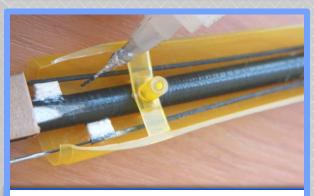


### **Install the Pushrods and Pushrod Tips**





Attach pushrod to stabilizer. If for this purpose it will be necessary to remove it – make it

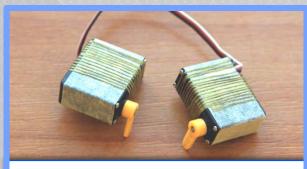


Necessarily fix pushrod pipes on the pylon brink

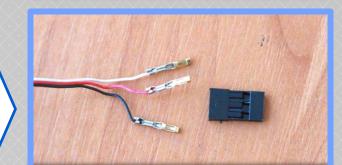
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# Install the equipment

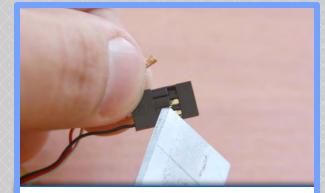


From servos cut off pads, wrap up their masking tape (it is possible still a thin strong thread)

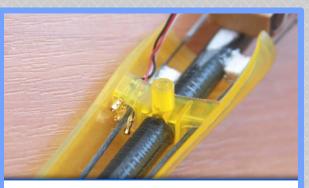


Do it with all sockets: 2 servos and the accumulator. Remember polarity!!!





To remove a socket, it is necessary to hook accurately each pad and to pull out a wire



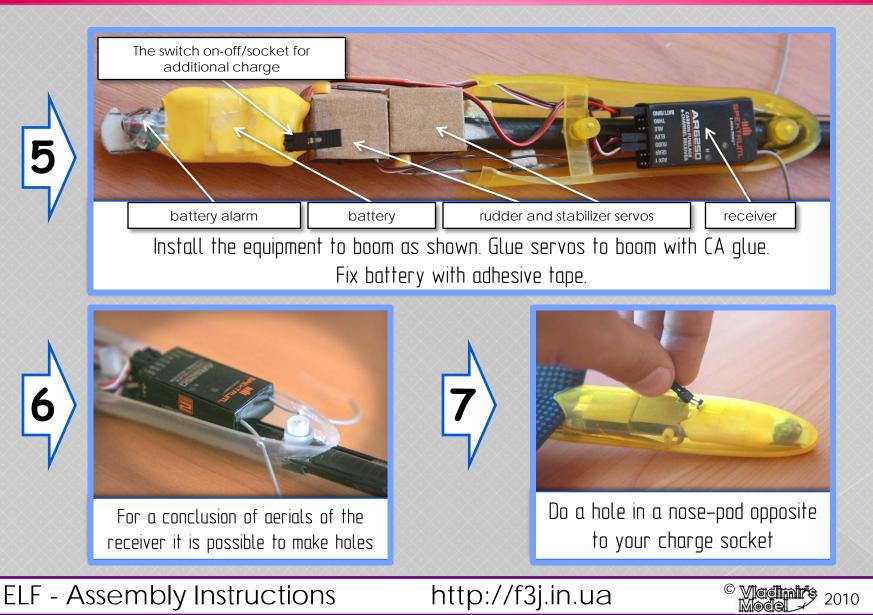
Now pass all wires through special bores in the pylon. Insert sockets back. Polarity as on fig. 3!!!

ELF - Assembly Instructions

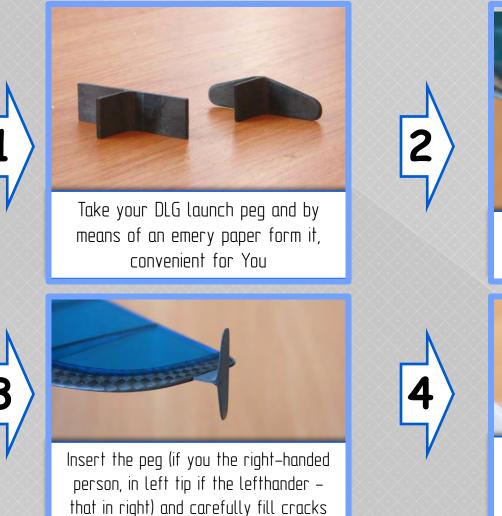
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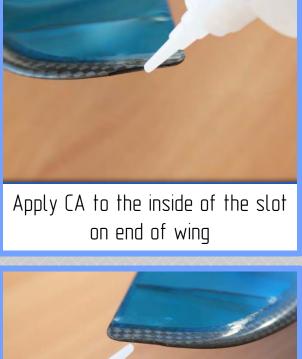


# Install the equipment



# Install the DLG Pegs





On the opposite side also necessarily apply CA glue. For balance, it is possible to paste the peg and from this party

with CA glue



# Balance the CG

2

Establish the recommended center of gravity of model 80– 85 of mm from a dyobumn edge of a side panel around the midpoint. Move the accumulator or establish cargo forward for reception of more front centering or back — for reception of more rear.

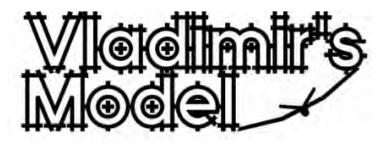
Don't forget to charge the ELF and the transmitter!!! In order to avoid wing breakage, start model from a complete revolution!!!



Program the transmitter and GO TO FLY!!!



If you have further questions or would like to purchase additional products please contact us at:



http://f3j.in.ua http://airplane-model.com e-mail: info@airplane-model.com

