ELF – Assembly Instructions

Vladimir's Model

http://airplane-model.com
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!

Ready to Fly

at 3.4 oz (95 gr)!

(NOTE: Flying weight is based on a number of factors. Not all planes will weigh 3.4 oz.)
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3. GO TO FLY 😊 !
The ELF kit includes the following parts:

1) Wing
2) Fuselage boom
3) Fuselage nose-cap
4) Fuselage pylon
5) Vertical stabilizer (Rudder)
6) Stabilizer
7) Stabilizer and rudder pushrod tips (2pcs)
8) Servo pushrod tips (2pcs)
9) DLG Wing launch pegs (2pcs)
10) V-mount
11) Rudder horn
12) Pushrods (2pc.)
13) Pushrods pipe (1pcs)
14) 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 😊
Cement the rudder horn and cutting slot in the stabilizer

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

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

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

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

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

6. Cut out the rudder horn slot and glue in
1. Sand a rear bore in a pencil and a beam around a pencil with sandpaper.

2. 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 !!!

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

4. Establish the stabilizer to perpendicularly rudder.

5. Accurately paste V-mount to a beam. Don’t fill in a stabilizer horn !!!
1. Fasten a wing to the pylon. Put on a nose-cap so that the beam nose has rested against a nose-cap.

2. Expose a wing exactly concerning the stabilizer as in picture.

3. Take liquid CA glue a rear bore of the fuselage-pylon.

4. Then remove a wing and glue a pylon in front and behind.
Install the Pushrods and Pushrod Tips

1. Prepare 2 pushrods, 2 pushrod tips, heat shrinkage and liquid CA glue.

2. Paste Γ-pushrod tips to one side of pushrods with liquid CA glue. Ζ-pushrod tips are for servo side (Don’t glue it yet!)

3. Cut shrinkage on 4 pieces. Put on the shrinkage to the junction and accurately heat up. Glue the fitting with liquid CA.

4. Glue pieces of pushrods pipe along a beam with step of 30-35 mm.
Install the Pushrods and Pushrod Tips

5. Attach pushrod to rudder

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

7. At the maximum expenses the tip should be fixed by a V-mount

8. Necessarily fix pushrod pipes on the pylon brink
Install the equipment

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

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

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

4. Now pass all wires through special bores in the pylon. Insert sockets back. Polarity as on fig. 3!!!
Install the equipment to boom as shown. Glue servos to boom with CA glue. Fix battery with adhesive tape.

For a conclusion of aerials of the receiver it is possible to make holes.

Do a hole in a nose-pod opposite to your charge socket.
Install the DLG Pegs

1. Take your DLG launch peg and by means of an emery paper form it, convenient for You.

2. Apply CA to the inside of the slot on end of wing.

3. Insert the peg (if you the right-handed person, in left tip if the lefthander - that in right) and carefully fill cracks with CA glue.

4. On the opposite side also necessarily apply CA glue. For balance, it is possible to paste the peg and from this party.
Establish the recommended center of gravity of model 80-85 of mm from a дуфвшп 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:

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