

## F3K DESTINY– final assembly and settings

### Fuselage:

***Make sure both the rudder and the elevator are in axis!***

Mill the hole for servo cables into the fuselage, use 25cm (10 inch) extension cables.



Glue servo bed into the cockpit. As this bed serves as fuselage stiffener make sure you glue it precisely on both sides.

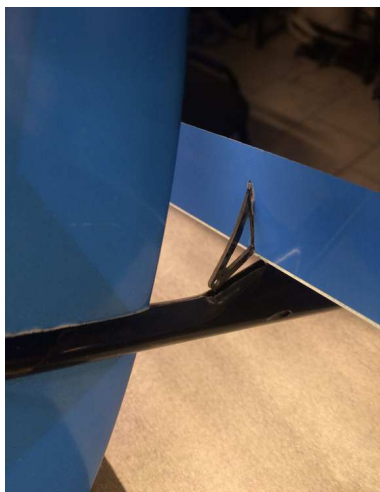
Install servos into the bed, see photo. Longer lever is used for the elevator, shorter for the rudder. Used Dymond D47 servos are about 8mm thick. Squeeze cables for ailerons in the wing on side of servos.



### Rudder and elevator

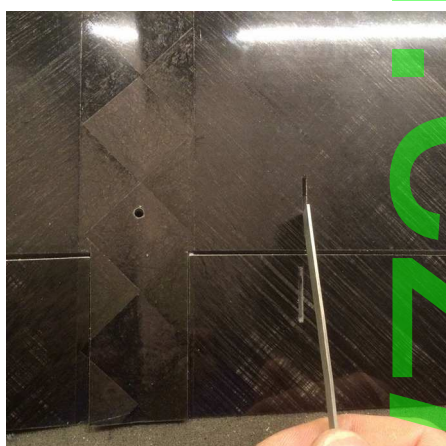
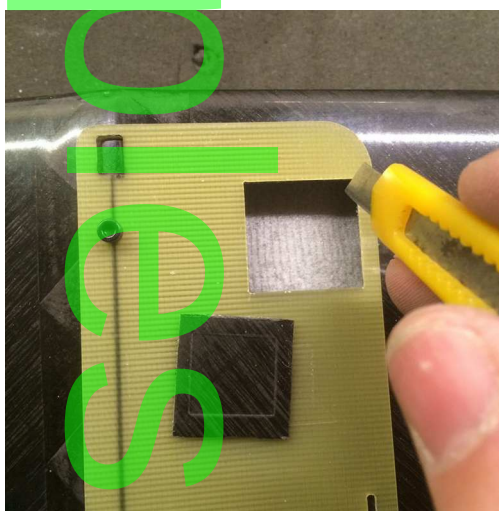
Included longer lever is used for the rudder – glue it to the midpoint, it tucks into the notch in the trestle. Insert torsion springs into the rudder. 2 pieces of 6cm (2.36 inch) U-shape springs are recommended, each heading opposite direction, connected at the lever. Never do it an opposite way as rudder can twist then.

Use included shorter level for the elevator, one torsion spring of 5cm length (2 inches).



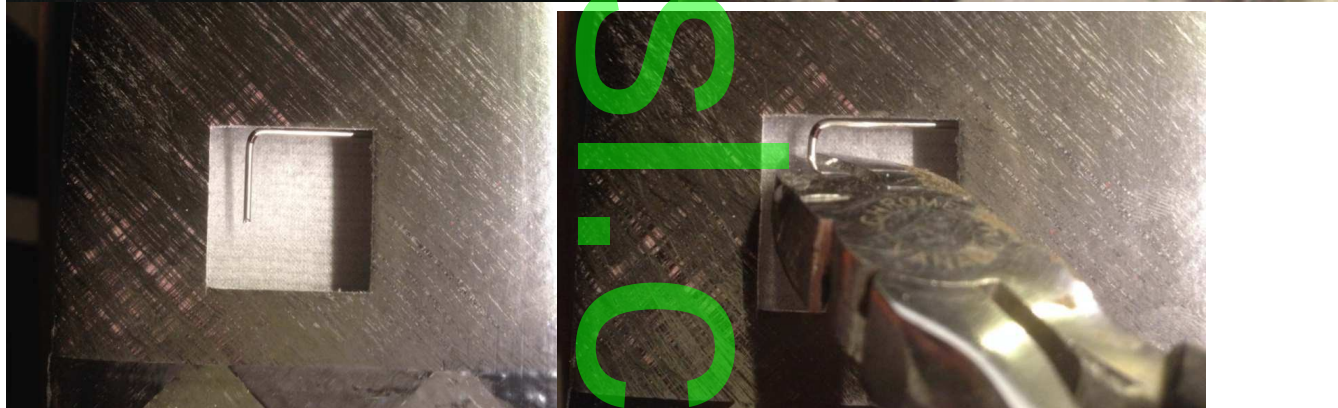
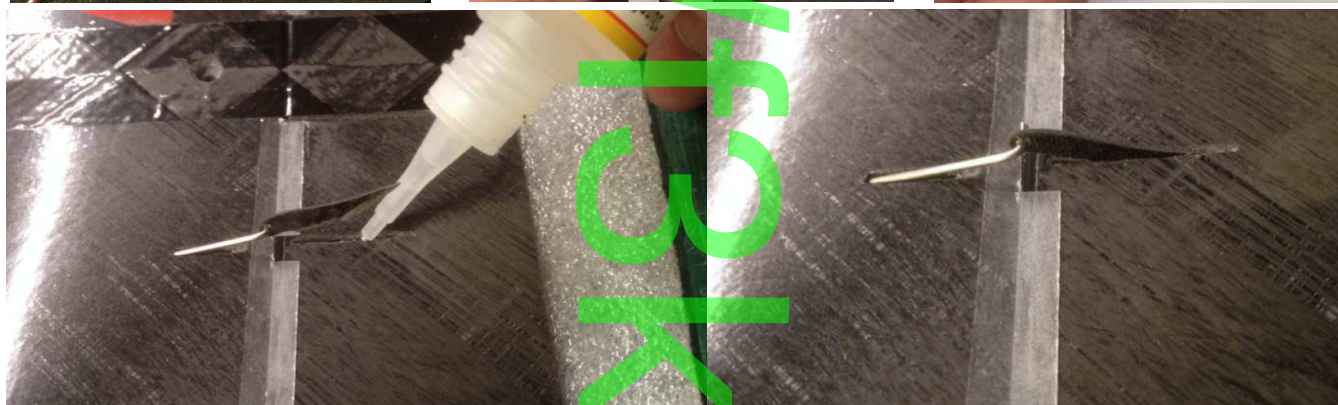
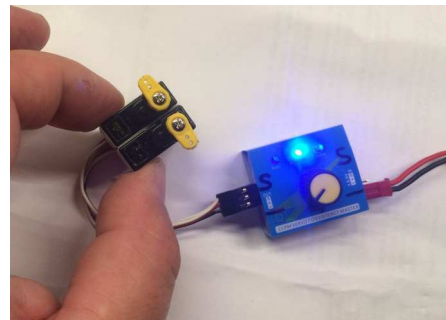
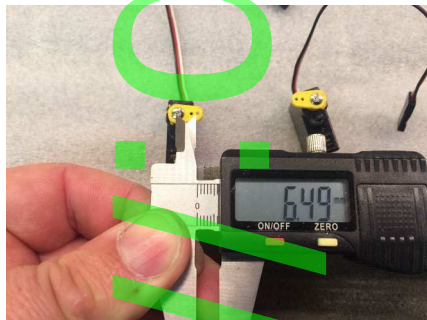
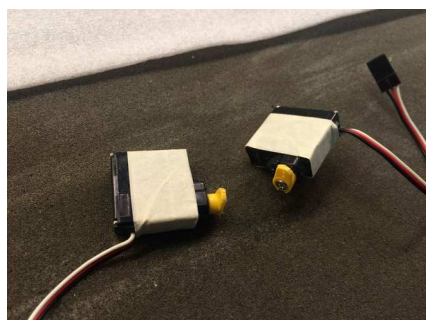
### Wing:

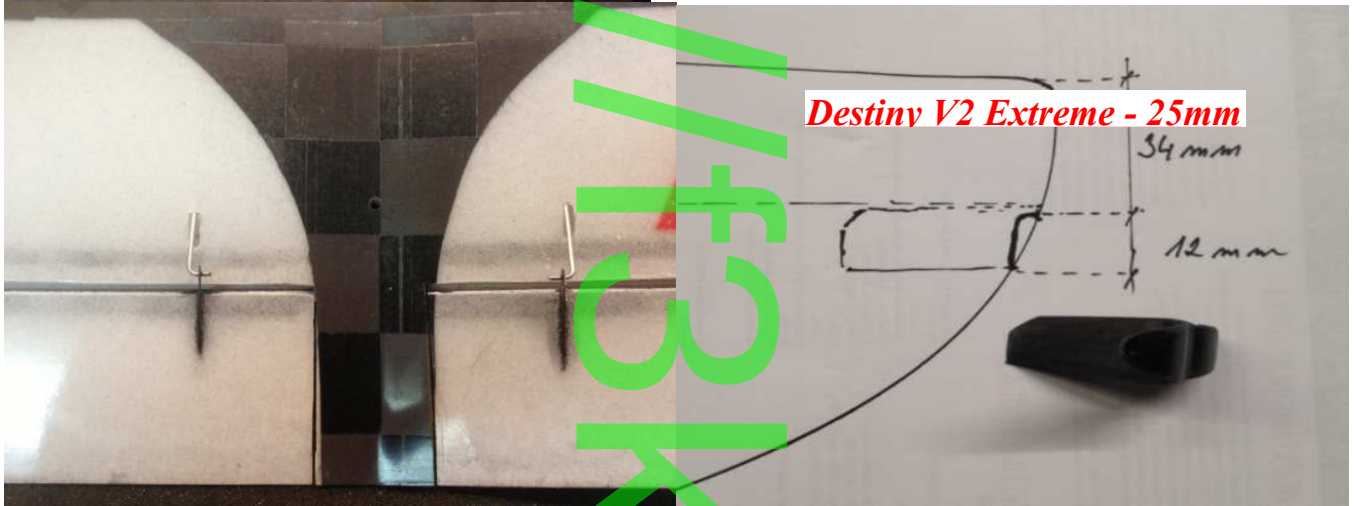
Servos are installed in front of wing beam. Cut holes for servos, rods, aileron lever and connectors using appropriate stencil. Glue-in aileron lever just behind flap beam.



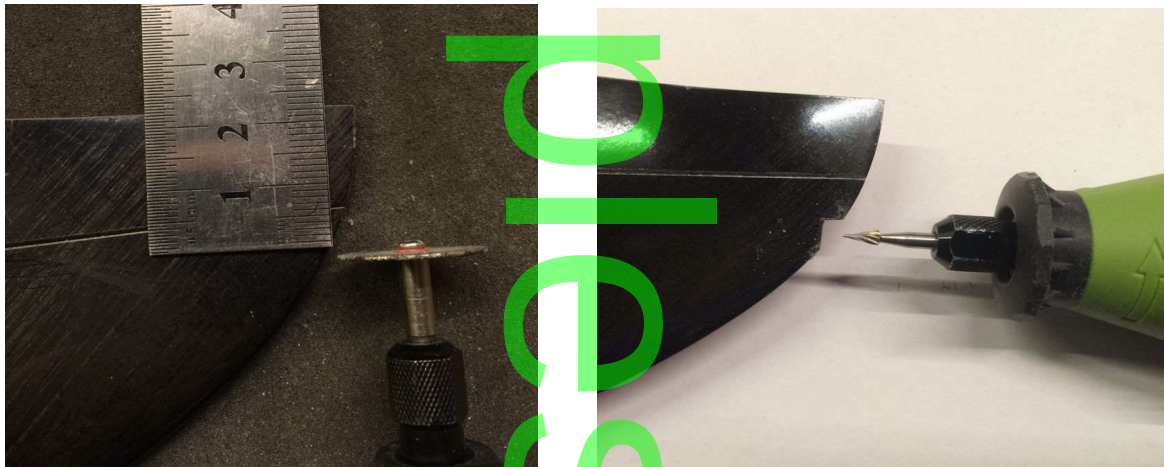
Cover wing servos Dymond D60 (or similar, 9mm thick max) with paper tape and install them into the wing. Poke cables through the shortest possible way to wing core, glue it together and then to the wing.

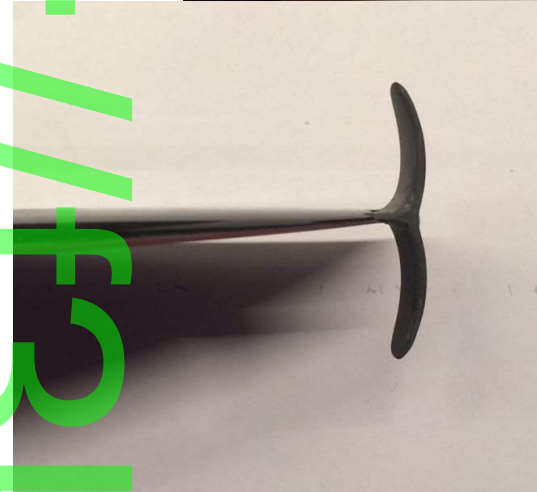
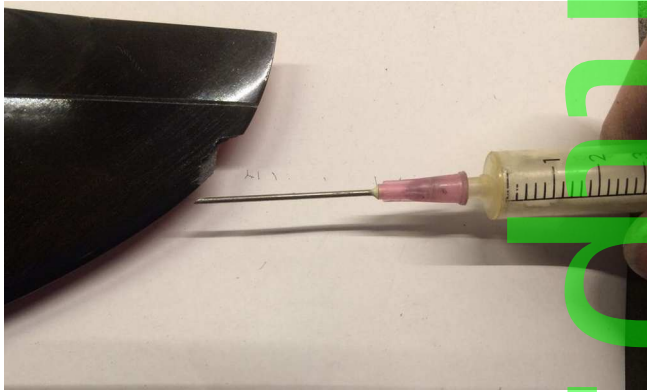
For D60 servos use 2<sup>nd</sup> hole from the center (about 6.5mm/0.26inch) in the lever.





For throw plug installation mill appropriate hole as per photo on right or left end of the wing. Glue the plug using thickened epoxy, for the best result with pieces of carbon fiber.





As the final step install flap wind protection – using narrow self-adhesive tape. Put it over the gap and sprinkle it with either micro balloons or powder.

### Equipment:

For receiver use of 1S LiPol 600mA cell or 4 NiCd cells 2/3 AAA 350mAh is recommended, based on used electronics.

As gondola is made of fiber glass, any kind of receiver is ok to use, with antenna inside.

Rudder and elevator are connected to servo lever using knotted steel string (for fisherman), it is included in the box.

### Settings:

The center of gravity of model Destiny V2 Extreme is 88-92mm (3.46-3.62 inches) from wing leading edge. It is necessary to tune it based on model behavior during flight. Author uses center of gravity 90mm.

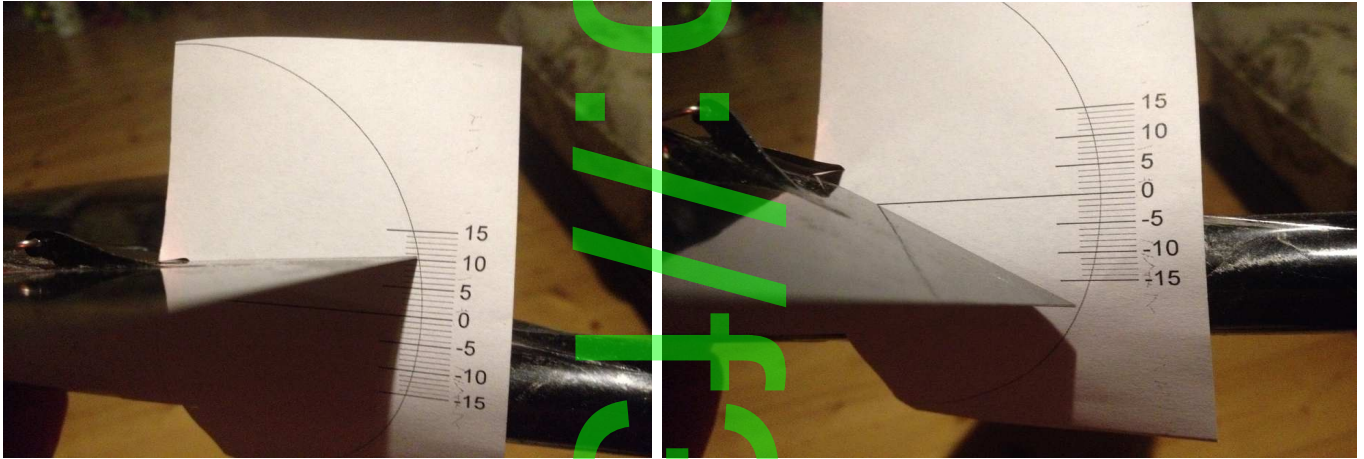
Recommended flight phases for radio setting:

- |                                   |                   |
|-----------------------------------|-------------------|
| 1) throw and strong wind flight : | aileron 2 mm up   |
| 2) normal flight:                 | all in 0          |
| 3) thermic:                       | aileron 2 mm down |
| 4) brakes:                        | aileron MAX down  |

For each flight phase it is important to compensate elevator settings  
Breaks could be assigned to dedicated switch or throttle stick

### Optimum settings

	<b>Destiny</b>	<b>Destiny V2 Extreme</b>
Center of gravity:	84mm	90mm
Deflections		
UP:	12mm	10mm
DOWN:	7mm	20mm



During test flights it is recommended to try full deflections left and right, even repeated few times and model shouldn't sink/bruise. If it does, differentiation must be adjusted – deflections down should be increased. Using mix ailerons-rudder is helpful during testing.

Should you have any questions, please contact us:

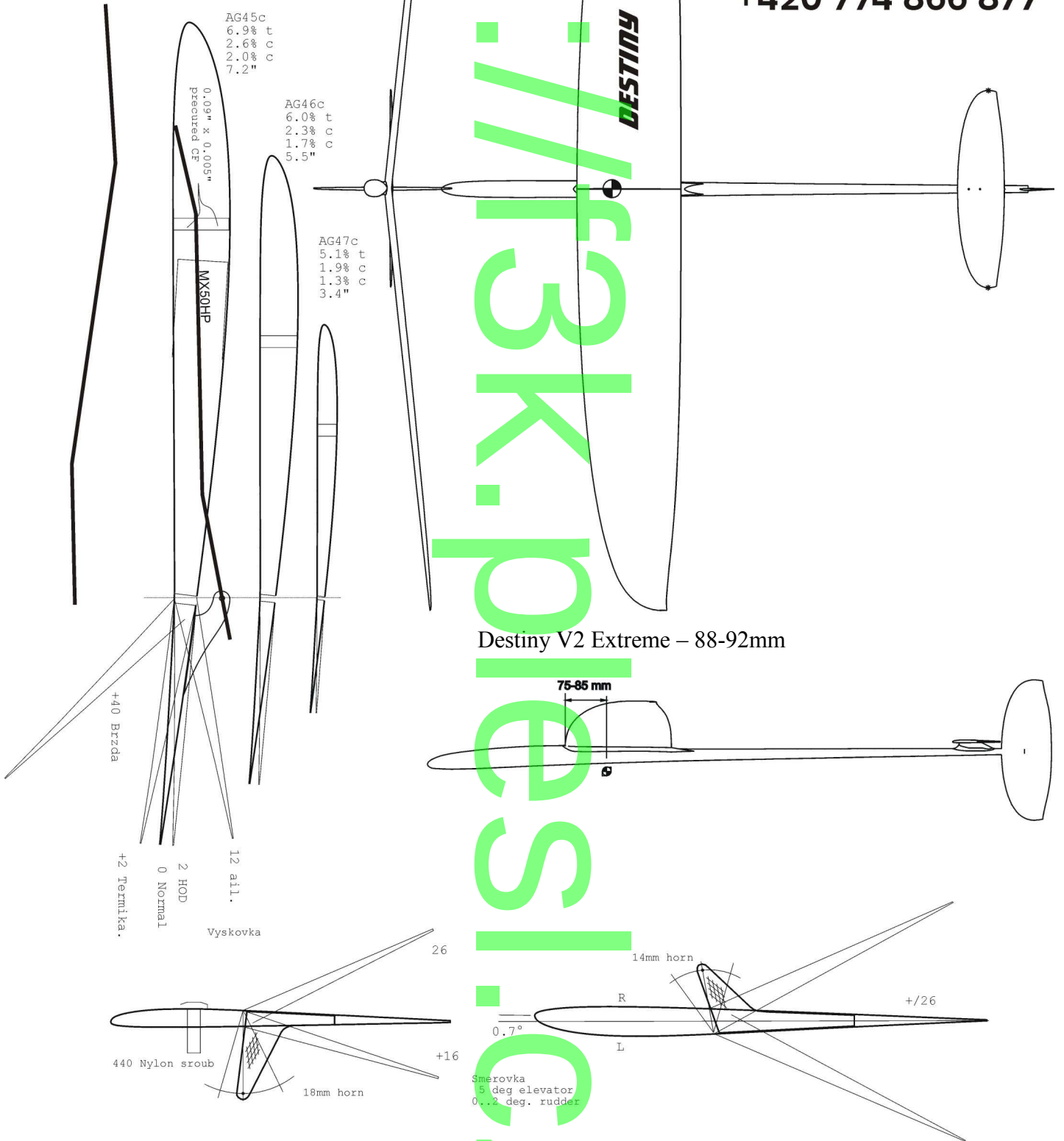
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# F3K DESTINY

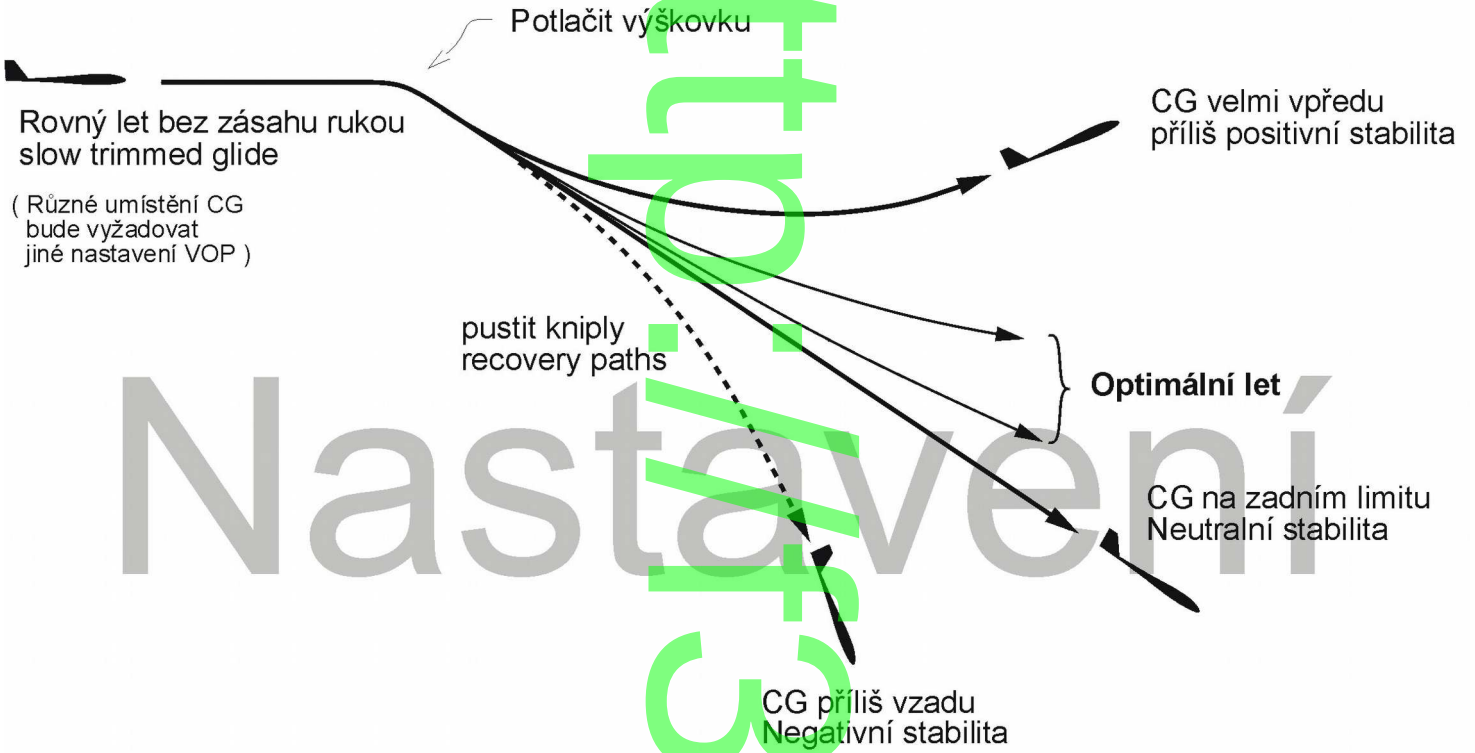


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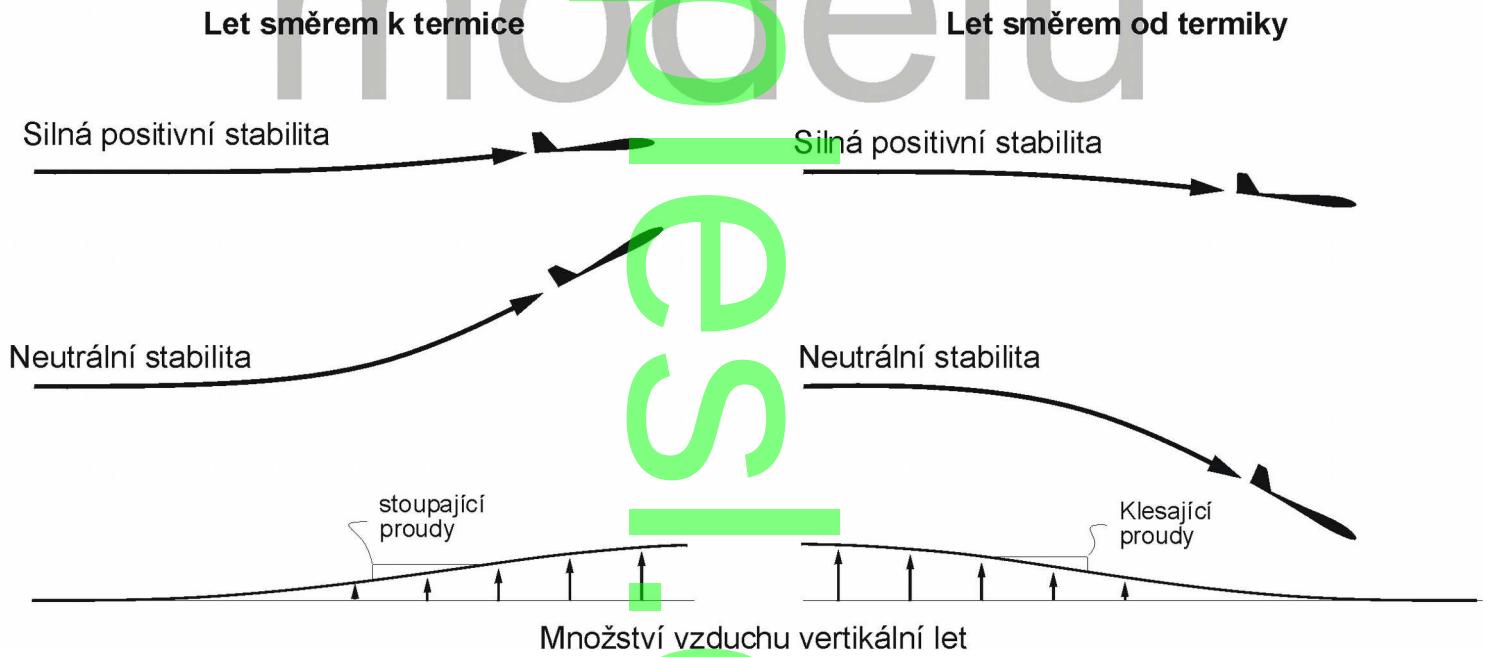
<http://f3k.plesl.cz/>

# CG- těžiště diagnostika pomocí letového Testu



## Výsledná reakce na slabé stoupavé proudy

Náčrty ukazují reakci na stoupání.





## Letové režimy

### HOD

kridelka - 2mm nahoru  
VOP - upravit dle stylu hodu

### NORMAL

vse v 0  
moznost zapnout mix kridelka - smerovka (asi 50%)

### Termika

kridelka - 2mm dolu (ja mam pres plynovou paku mozno menit vztlak 0-2mm)  
MIX vyskovka - kridelka (pri pritazeni VOP o dalsi 2mm pridat vztlak ma kridelkach)  
moznost zapnout mix kridelka - smerovka (asi 50%)

### BRZDY - u mne nadrazeny letovy profil

kridelka - MAX dolu (ja mam pres plynovou paku mozno menit vztlak 0-MAX)  
mix kridelka - VOP (cim vetsi brzdy tim vice potlacena VOP)  
mix kridelka - smerovka (100%)

Donastaveni teziste - teziste viz manual

model vyhodime a ustalime

prepne mod NORMAL a VOP musi byt na 100% v 0

model potlacime a nechame klesat asi pod uhlem 45st

na nic nesahame a lehce musi klesani vybrat

pokud vybira moc rychle je model tezky vepredu nutno odebrat zatez - posunout teziste dozadu

pokud leti stale rovne ci naopak jeste kolmeji - nutno pridat zatez dopredu  
- teziste je moc vzadu

Donastaveni Diferenciace kridelk

model vyhodime a ustalime

prepne mod NORMAL a zapneme MIX kridelka- SOP

v rovne letu dame plne vychylky kridelkama doprava doleva a zvozu doprava a doleva

model se Vam nesmi "zavrtavat" do zeme pokud tomu je tak je potreba pridat diferenciaci kridelek

u obou modelu je nastaveni ruzne

DESTINY I cca 12mm nahoru / 7dolu

DESTINY V2 Extreme cca 10mm nahoru / 20dolu