



colibri
FLIGHT MANUAL

F3K

WARNINGS

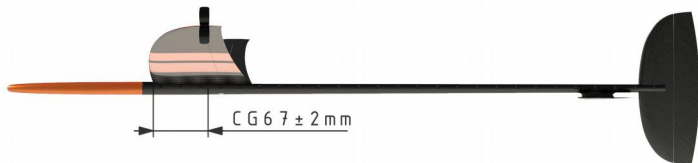
All sailplanes are very complex technical devices. If you don't use yours as it is intended and within the recommended operating limitations or if you fail to carry out proper maintenance work, it may harm your health or permanently damage a glider .

Prior to flying the glider read all manuals carefully and regard especially all warnings, caution remarks and notes given in the manuals.

- Never fly with glider without executing a serious pre-flight inspection according to the flight manual!
- Always respect the relevant safety altitudes, distance limits and No-Fly zones by all regulations set forth by government and regulatory agencies including ICAO and the FAA.
- Do not use the glider in severe weather conditions. These include wind speed exceeding 10m/s, snow, rain and fog.
- Respect the stall speeds and always fly with a safety margin above the stall speed according to the flight conditions
- Repairs and maintenance work should be accomplished by the manufacturer certified repair or own repair by pilot without any guarantee for this type of work. Repair & Maintenance consultation at info@kralovensky.com
- Do not leave glider in direct sunlight for long time, causes serious damage by overheating and degradation of composite structure.
- Do not use the glider in tropical weather temperatures over 35°C in shadow. Tropical temperatures causes reduction of composite construction performance or serious damage of the glider construction.
- Do not use acids or any acetone based solvent for cleaning the surface of the glider, can causes serious paint damage and degradation of composite structure.
- Do not make changes in glider construction or use non-original parts from third party. Causes performance reduction or serious damage of the glider.
- Do not remove or change any construction part of glider including screws, springs or wing/tails gap-seals! Causes performance reduction or serious damage of the glider.

CG SETUP

CG (measured from root leading edge): $67 \pm 2\text{mm}$



AILERONS SETUP

Aileron deflections (+down, -up): $+17/-11\text{mm}$

UP -11mm or 14°

DIFFERENTIAL RATIO 100:65

DOWN $+17\text{mm}$ or 21°

BASIC FLAPS SETUP

Launch camber (neutral): 0mm or 0°

Speed camber (neutral): 0mm or 0°

Cruise camber (+down): $+2\text{mm}$ or 3°

Thermal_{SMALL} camber (+down): $+5\text{mm}$ or 6°

Thermal_{LARGE} camber (+down): $+10\text{mm}$ or 13°

(Measured near the wing root)

UP -9mm or -15°

ELEVATOR SETUP

Elevator deflection



DOWN +9mm or +15°

RUDDER SETUP

Rudder deflections



RIGHT +12mm or 20°



LEFT -12mm or 20°

LAUNCH MIX

PRESET: (USE DURING LAUNCH ROTATION AND RELEASE)

Flaps camber (neutral): 0mm or 0°

Elevator deflections (-up): -2mm or -3°

Rudder deflections: (R/L hand): +1mm or +2°

(Rudder launch deflections setup depends on launcher hand)

ZOOM: (USE IMMEDIATELY AFTER RELEASE)

Flaps camber (neutral): 0mm or 0°

Elevator deflections (+down): +1mm or +1°

(Elevator launch deflections setup depends on wind conditions)

LAND MIX

FLAPS & ELEV:

 Flaps camber (+down_{max}): 100% (40mm or 60°)

Elevator deflections (+down): 60% (6mm or 9°)

RECOMMENDED: (Use land mix on throttle stick)

SNAP FLAP (OPTIONAL)

ELEV & FLAP:

 Elevator deflections (+down_{max}): +100% (4mm or 7°)

Flaps camber (-UP): -55% (6mm or 8°)

 Elevator deflections (-UP_{max}): -100% (6mm or 10°)

Flaps camber (+down): -20% (8mm or 10°)

Your wings already exist, all you have to do is FLY !