

Weight & Balance & Equipment List

ASK-21B S/N: 21963 N521CG

Date of Weighing: January 23, 2019 (Schleicher Factory)

Installed Equipment

Front Cockpit

Winter Airspeed Indicator
United Altimeter
Airpath Compass
Ilec Variometer and Speed Director
Boom Mike
Dittel FSG 71M Transceiver
Trig TT21 Transponder & TC20 Control
Flarm View

Rear Cockpit

Winter Airspeed Indicator
United Altimeter
Ilec Variometer Repeater
Boom Mike
Flarm View
Radio Speaker & Vario Audio
PowerFlarm Brick

(note: Instrument panel weights do not exceed the 6.6 lbs front panel weight and the 3.3 lbs rear panel weight allowed for by the factory weight and balance)

Datum: Wing Leading Edge 5 cm to Root Edge

Attitude of Sailplane for Weighing: Slope of top of rear fuselage at 1000:52

Location of Main Gear: 24.45 inches aft of Datum

Distance Between Main Gear & Tail Wheel: 181.89 inches

Pilot Locations: Front Seat: -44.88 to -48.82 inches fwd of Datum
 Rear Seat: -1.18 to -3.54 inches fwd of Datum

Weighing Data: **Weight on Main Gear:** 838.9 pounds **Weight on Tail Gear:** 24.9 pounds

Empty Weight: 863.8 pounds **Empty Weight CG:** 29.69 inches aft of Datum

Additional Equipment:	<u>Item</u>	<u>Weight</u>	<u>Moment Arm</u>
	Batteries (2)	5 pounds	+7.9 inches aft of Datum

Final Empty Weight: 868.8 pounds **Final Empty Weight CG:** 29.54 inches aft of Datum

Flight Manual Limits

Inflight CG Limits: 9.2 inches to 18.4 inches aft of Datum

Max Gross Weight: 1323 pounds

Useful Load: 454 pounds with batteries installed

Baggage Location: +7.9 inches aft of Datum

Notes for In-flight CG

CG will be forward of the aft CG limit with a minimum forward cockpit weight (solo) of 154 pounds. CG will be aft of the forward CG limit if the max seat (front or rear) weight of 242 pounds and the maximum gross weight of 1323 pounds are observed.

Aircraft Weighed by: Schleicher Factory

CG Calculations by: Ron Ridenour

Weight & Balance approved by: _____

Certificate Number: _____

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