

## G3X Configuration Settings Files

Rev.	Date	Description of Change
REV 1	09/22/2014	INITIAL DRAFT
REV 2	05/19/2016	Added CCK-1865 W and B Envelope, Updated doc formatting

### 1. G3X Configuration Settings File for Kit Aircraft

#### 1.1. NAME: CCK-1865 W and B Envelope.gca

REV 1

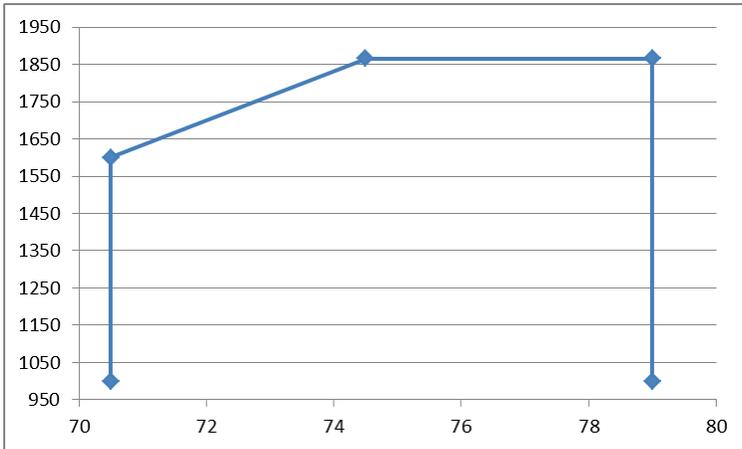
Date 1/19/2015

**NOTE: The installer must update the aircraft Weight and Arm after completing the weight and balance procedure.**

Carbon Cub W&B envelope:

Inches Aft of Datum	Weight (lbs)
70.5	1000
70.5	1600
74.5	1865
79	1865
79	1000

Or, plotted in Excel:



FUEL at 83.9" max 25 gal (STANDARD)  
 PILOT at 71.40" no max  
 PASSENGER at 96.08" no max  
 FWD BAGGAGE at 110.40" max 100 lb  
 (STANDARD) AFT BAGGAGE at 134.40" max 20 lb

**1.2. NAME: CCK-1865 W and B Float.gca**

REV 0

Date 1/19/2015

TBD

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No other configurations needed for CCK-1865, we will use CC11-160 Base.gca for the rest.

**2. G3X Configuration Settings File for Light Sport Aircraft**

**2.1. NAME: CC11-160 W and B Envelope.gca**

REV 3

Date 10/3/2014

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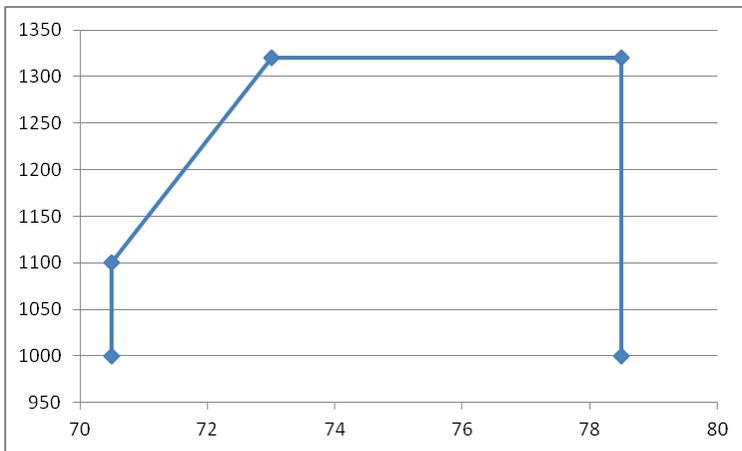
NOTE: The installer must update the aircraft Weight and Arm after completing the weight and balance procedure.

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Carbon Cub W&B envelope:

Inches Aft of Datum	Weight (lbs)
70.5	1000
70.5	1100
73	1320
78.5	1320
78.5	1000

Or, plotted in Excel:



FUEL at 83.9" max 25 gal (STANDARD)

PILOT at 71.40" no max

PASSENGER at 96.08" no max

FWD BAGGAGE at 110.40" max 100 lb

(STANDARD) AFT BAGGAGE at 134.40" max 20 lb

2.2. NAME: CC11-160 W and B Float.gca

REV 1

Date 9/22/2014

NOTE: The installer must update the aircraft Weight and Arm after completing the weight and balance procedure.

Inches Aft of Datum	Weight (lbs)
70.5	1000
70.5	1100
73	1430
78.5	1430
78.5	1000

FUEL at 83.9" max 25 gal (STANDARD)

PILOT at 71.40" no maximum

PASSENGER at 96.08" no maximum

FWD BAGGAGE at 110.40" max 100 lb

(STANDARD) AFT BAGGAGE at 134.40" max 20 lb

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2.3. NAME: CC11-160 Base.gca

REV 4

Date 1/27/2015

### 2.3.1. Units

Distance: Statute

Ground Speed: Statute

Airspeed: Statute

### 2.3.2. Aircraft

Aircraft Map Symbol: High Wing

Flight Planning Fuel Flow: 5.5 gph

Flight Planning Cruise Speed: 93 mph

G meter max: +4g

G meter min: -2g

V<sub>NE</sub> : IAS 141 mh

V<sub>NO</sub>: 101 mh

V<sub>S0</sub>: 32 mh

V<sub>S1</sub>: 40 mh

V<sub>FE</sub>: 81 mh

V<sub>x</sub>: 50 mh

V<sub>y</sub>: 71 mh

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Backlight Input: Light Sensor

Backlight: Minimum: 10%

Sound Alert Output: Mono Only

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Sound Alert Volume: 100%

Sound Message Volume: 100%

RS-232 Config Serial Port 1: Garmin Instrument Data (GMC 305 option)

Serial Port 2: Garmin Data Transfer (GDL 39R if installed)

Serial Port 3: Garmin Instrument Data (GSU 25 backup communication)

COM Radio Config COM 1 connection: Network Radio LRU 1

Intercom Connection: Enabled

3D Audio: Disabled

Preserve Monitor on Frequency Swap: True/Enabled

αυξ1\_πολυμε: 85

Τοπ Σοφτκεψ: Πιλοτ ΙΣΟ (NOT IMPIAMENTEΔ AT THIS TIME)

Βοττομ Σοφτκεψ: Μυσιχ ον/οφφ (NOT IMPIAMENTEΔ AT THIS TIME)

Transponder Type GTX23ES

Mode S Address Type: US Tail # (this might be the default setting)

Aircraft Type: Fixed Wing (this might be the default setting)

Aircraft Weight: 1320 lbs

Flight ID Mode: Same as tail # (this might be the default setting)

Aircraft MAX speed: 101 mph

Aircraft Length: 23'

Aircraft Width: 36'

GPS Antenna Offset: 6'

Datalog enabled

Max SD card files: 1000

### 2.3.3. Engine

Full Fuel Qty: 24 gal

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#### 2.3.3.1. CHT

Type K, 4 cylinders

Min: 200 °F

Max: 500 °F

30 - 200 Yellow

200 - 420 Green

420 - 450 Yellow + Alert

450 - 500 Red + Alert

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#### 2.3.3.2. EGT

Type K, 4 cylinder

Min: 800

Max: 1605

300 - 400 Yellow

400 - 1500 Green

1500 - 1600 Yellow + Alert

1600 - 1605 Red + Alert

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#### 2.3.3.3. Oil Temp

UMA 1B3-2.5R

Min: 80

Max: 250

40 - 80 White

80 - 120 Yellow

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120 - 225 Green  
225 - 245 Yellow + Alert  
245 - 250 Red + Alert  
80 Tick  
250 Tick

**2.3.3.4. Oil Pressure**

Kavlico P4055-105G

Min: 20

Max: 105

20 - 25 Red + Alert

25 - 60 Yellow

60 - 90 Green

90 - 100 Yellow

100 - 105 Red + Alert

20 Tick

105 Tick

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**2.3.3.5. MAP**

Kavlico P4055-30A

Min: 0

Max: 32

0 - 32 Green

0 Tick

32 Tick

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**2.3.3.6. RPM 1**

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Electronic Ignition (2 pulse/rev)

Min: 500

Max: 2800

Note: Resolution of Tachometer is 10 rpm.

500 - 2710 Green

2710 - 2800 Red

500 Tick

2800 Tick

#### 2.3.3.7. RPM 2

Electronic Ignition (2 pulse/rev)

POS1 / GP1 Input Config

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#### 2.3.3.8. Elevator Trim

0 Tick

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POS6 / Misc Temp 1

Carb Temp (UMA 1B10R)

EIS Display: Hide

#### 2.3.3.9. Volts 1

Bus 1 Volts

Min: 10.0V

Max: 16.0V

10.0 - 10.8V Red + Alert

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10.8 - 11.5V Yellow + Alert  
11.5 - 12.6V Yellow  
12.6 - 15.0V Green  
15.0 - 15.8V Yellow + Alert  
15.8 - 16V Red + Alert

#### 2.3.3.10. Volts 2

Bus 2 Volts

Min: 10.0V

Max: 16.0V

10.0 - 10.8V Red + Alert  
10.8 - 11.5V Yellow + Alert  
11.5 - 12.6V Yellow  
12.6 - 15.0V Green  
15.0 - 15.8V Yellow + Alert  
15.8 - 16V Red + Alert

#### 2.3.3.11. IBBS VOLTS

Gauge Name: IBBS VOLTS

Units: VOLTAGE

Gauge Range: 10.0 - 16.0

Digital Readout Range: 0.0 - 16.00

Readout max: 16.0

show\_in\_bar = MAYBE

show\_on\_page = ALWAYS

input type: ANALOG

input channel: POS2/ GP2

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10 - 10.59V Red + Alert  
10.6 - 11.79 Yellow + Alert  
11.8 - 14.85V Green  
14.85 - 16V Red + Alert

#### 2.3.3.12. Shunt 1

Main Bus Amps

Min: -15

Max: 55

-15 to -14 Red + Alert

-14 to -10 Yellow + Alert

-10 to 0 Yellow

0 to +30 Green

+30 to +50 Yellow + Alert

+50 to +55 Red + Alert

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#### 2.3.3.13. Fuel Flow:

EI FT-60

K-Factor for fuel flow: 68000

Min: 0 gph

Max: 20 gph

0 - 18 Green

18 - 20 Red + Alert

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#### 2.3.3.14. Discrete 1

Input Type: Active High

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Function: User Defined  
Alert Color: Yellow  
Alert Label: IGN BACKUP

**2.3.3.15. Discrete 2**

Input Type: Active Low  
Function: User Defined  
Alert Color: Yellow  
Alert Label: IBBS IN USE

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**2.3.3.16. Discrete 3:**

Input Type: Active Low  
Function: User Defined  
Alert Color: Red  
Alert Label: L IGN OFF

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**2.3.3.17. Discrete 4**

Input Type: Active Low  
Function: User Defined  
Alert Color: Red  
Alert Label: R IGN OFF

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**2.3.3.18. Engine Power**

Hobbs: Oil Pressure  
Tach Time : On  
Type: Lycoming  
Max Rated Power: 180

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Max Power RPM: 2700

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**2.4.** **NAME:** CC11-160 IBBS Volts Gauge.gca

**REV 3 (Superseded)**

**Date 10/3/2014**

**This file now integrated into the Base config file**

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