

### SERVICE LETTER

SL-021224-B

ID NUMBER & REVISION: SL-021224-B

**SUBJECT:** Release of Garmin G3X Software 9.33

**RELEASE DATE:** 30 April 2024 **EFFECTIVE DATE:** 30 April 2024

SUPERSEDES NOTICE: SL-090723-A, SL-021224-A
AIRCRAFT AFFECTED: MAKE & MODEL: ICON A5

**SERIAL NUMBERS:** 00073, 00139 – 00146, 00148 – 00215

**ACTION:** Update the Garmin G3X software from currently installed software to

Garmin G3X software version 9.33

TIME OF COMPLIANCE: Before the next flight.

REVISION HISTORY: A Initial Release

B Remove references to 1.0 config file and replace with a note to

contact ICON if software is 9.13 or older.

Add step 9 to verify settings against data in Tables 1-3.

**LEVEL OF CERTIFICATION** ⊠ Pilot/Owner ⊠ A & P

**REQUIRED (any level checked** ⊠ LSA Repairman Inspection ⊠ Certified Repair Station

#### **PURPOSE:**

To ensure continued compatibility between the ICON A5 on board computer system and the Garmin G3X, ICON Aircraft Engineering performs ground and flight testing on each new Garmin G3X software release. This service letter is intended to communicate that the ground and flight testing has been completed. ICON Aircraft has determined that the Garmin G3X software version 9.33 is compatible with the ICON A5 computer system and authorizes the update and use of the 9.33 software. If there are any questions, please contact an ICON Aircraft Customer Advocate.

#### ASSEMBLIES AND PARTS:

PART NUMBER DESCRIPTION	OLIANITITY	ALTER	NATE
PART NOIVIDER DESCRIPTION	QUANTITY	PART NUMBER DESCRIPT	
N/A Garmin G3X Touch Software 9.33	1		

#### IF APPLICABLE, SERVICE KITS:

KIT NUMBER CONTENT PARTS	DESCRIPTION	QUANTITY
N/A		

FORM ICA009719-G PAGE **1** of **14** 



### **SERVICE LETTER**

SL-021224-B

#### **INSTRUCTIONS:**

NOTE: If software version 9.13 or older is installed, please contact ICON for additional update requirements.

**NOTE**: The file structure is important in the SD card. There should only be one parent folder titled "Garmin" with no other parent folders.

**NOTE**: Garmin may, from time to time, release new software versions shortly after the release of the one listed above. In those instances, the software version listed in this service letter will no longer be available on the Garmin download web page. Please refrain from updating the software onto the ICON A5 G3X until the released software from Garmin is validated by ICON Aircraft and a new Service Letter revision is released.

#### **Updating G3X to Garmin Software Version 9.33**

- 1. Download the Garmin software version 9.33 onto an SD card.
  - a. The software can be downloaded on the Garmin website here.
  - b. Select: GDU 4xx Cockpit Display for your desired operating system.
  - c. Select your inserted SD card as the download location for the software.
- 2. Ensure that aircraft master power is off.
- 3. Insert the SD card into the SD slot at the bottom of the Garmin G3X Touch display.
  - a. See Figure 1.



Figure 1. SD Card Slot and Menu Button

- 4. Turn on the aircraft master power and hold the Menu button to enter Configuration Mode.
  - a. See Figure 1.
- 5. When "Update Software" windows populates, select "Yes."
  - a. See Figure 2.

FORM ICA009719-G PAGE **2** of **14** 



### **SERVICE LETTER**

SL-021224-B



Figure 2. Update Software Screen (version 9.13 shown)

**NOTE**: Software 9.13 is shown as an example in Figure 2. When downloaded, the latest version will be shown on the update screen on the G3X.

- 6. The Garmin G3X will automatically update the software.
  - a. DO NOT turn off the aircraft power until the software is fully updated.
    - i. The software is fully updated when the message "Software update in progress- Do not remove power" disappears.
    - ii. This can be found by selecting "Messages" at bottom of screen.
  - b. See Figure 3 and Figure 4.

FORM ICA009719-G PAGE **3** of **14** 



### **SERVICE LETTER**

SL-021224-B

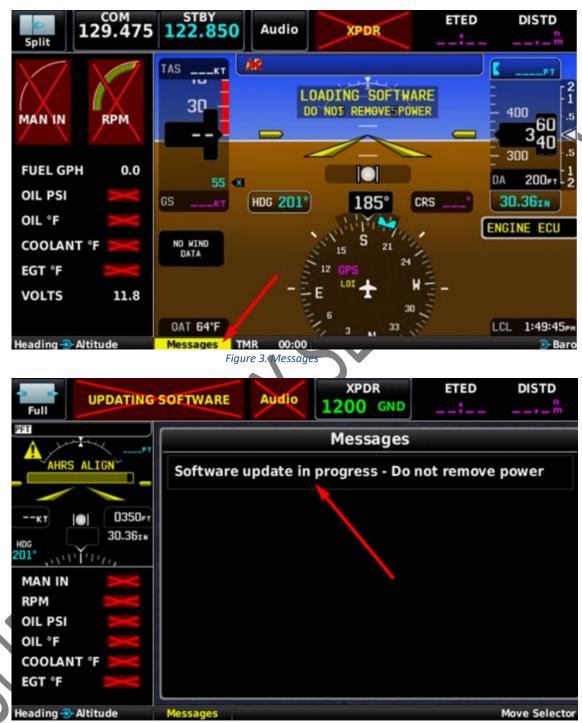


Figure 4. Update Message

- 7. The update may last up to 20 minutes.
  - a. It is advised to place the aircraft on an appropriate external power supply during the update process.

FORM ICA009719-G PAGE **4** of **14** 



### SERVICE LETTER

SL-021224-B

- 8. Once the software is fully updated, reboot the G3X by,
  - a. Simultaneously holding the NRST, MENU, and BACK buttons.
- 9. The software update may have restored default settings. Review each of the settings in Table 1 at the end of this document. Verify each item, updating any incorrect settings as needed.
- 10. Press the BACK button on the G3X Touch display to return to the Configuration Mode page.
- 11. Select "Save & Reboot."
- 12. A prompt will appear; Select "Yes."
  - a. See Figure 5.



Figure 5. Reboot Display Page

- 13. The system will reboot.
  - a. Wait for the G3X system to return to the home page.
  - b. While rebooting, look at the bottom of the screen and ensure "Software Version 9.33" is displayed.
    - i. This will occur quickly and only display for a few seconds.
- 14. Turn off aircraft master power and remove the SD card from the G3X Touch display.

Table 1. Configuration Settings

	System Options	
System Type	Non-Certified	
Advanced User Setup	Enabled	
	LRU	
	(AUTOPILOT ONLY)	
ADAHRS 1	Enabled	
AOA	Disabled	
ADAHRS 2	Disabled	
Engine Interface	Use EIS1	
Garmin Autopilot Servos	Pitch + Roll	
Yaw Damper	Disabled	
Roll Trim Servo	Disabled	
Pitch Trim Servo	Disabled	

FORM ICA009719-G PAGE **5** of **14** 



# **SERVICE LETTER**

SL-021224-B

Radio AGL Sensor  Disabled  LRU (NO AUTOPILOT)  ADAHRS 1  AOA  Disabled  Disabled  ADAHRS 2  Disabled  ADAHRS 2  Disabled  ADAHRS 2  Engine Interface  Garmin Autopilot Servos  Analog Autopilot Interface  Electrical Control System  Disabled  ADAHRS  Unit Orientation  Tubes Forward/Connectors Up  Magnetometer  Magnetometer  Magnetometer Orientation  Connector Port  Autopilot (AUTOPILOT ONLY)  General Tab  Control Wheel Steering  Enabled  Engage AP Via CWS Steering  Autopilot Engage Limits  Disabled  Flight Control System Monitors  Roll Servo Max Torque  35%  Roll Servo Max Torque  35%  Roll Servo Direction  Reverse  Roll Servo Clutch Monitor  Pitch Fab  Pitch Servo Gain  1.0  Pitch Servo Gain  1.0  Pitch Servo Guint  Reverse  Pitch Servo Guint  Reverse  Pitch Servo Guint  Reverse  Pitch Servo Guint  Reverse  Pitch Servo Gain  1.0  Pitch Servo Guint  Reverse  Pitch Servo Guint  Reverse  Pitch Servo Guint  Solt Tab  Pitch Servo Guint  Reverse  Pitch Servo Guint  Reverse  Pitch Servo Guint  Reverse  Pitch Servo Gain  1.0  Pitch Servo Guint  Reverse  Pitch Servo Gain  1.0  Pitch Servo Guint  Reverse  Pitch Servo Guint  Reverse  Pitch Servo Guint  Non't  Solt Table  Autopilot  Reverse  Pitch Servo Guint  Reverse  Rever	Electrical Control System	Disabled	
Radio AGL Sensor Disabled is installed.    CRU (NO AUTOPILOT)			This will need to be
LRU (NO AUTOPILOT)  ADAHRS 1 ADAHRS 2 Bisabled ADAHRS 2 Bisabled Bisabled Analog Autopilot Servos Analog Autopilot Interface Electrical Control System Disabled Bisabled ADAHRS Unit Orientation Tubes Forward/Connectors Up Magnetometer Magnetometer Orientation  Connector Port Autopilot (AUTOPILOT ONLY)  General Tab Control Wheel Steering Enabled Engage AP Via CWS Steering Autopilot Engage Limits Flight Control System Monitors Roll Tab Roll Servo Max Torque Soll Servo Direction Roll Servo Gain Roll Servo Gain Pitch Servo Gain Pitch Servo Gain 1.0 Pitch Servo Gain Reverse Pitch Servo Lutch Monitor Reverse Pitch Servo Clutch Monitor Reverse Pitch Servo Gain Reverse Revers			enabled if a GHA-15
(NO AUTOPILOT)  ADAHRS 1 AOA Disabled ADAHRS 2 Disabled Engine Interface Buse EIS1 Garmin Autopilot Servos Disabled Analog Autopilot Interface Electrical Control System Disabled  ADAHRS Unit Orientation Tubes Forward/Connectors Up Magnetometer  Magnetometer Orientation Connector Port Autopilot (AUTOPILOT ONLY)  General Tab Control Wheel Steering Engage AP Via CWS Steering Autopilot Engage Limits Disabled Flight Control System Monitors Roll Servo Max Torque 35% Roll Servo Max Torque Roll Servo Glatch Monitor Pitch Tab Pitch Servo Clutch Monitor Pitch Servo Gain 1.0 Pitch Servo Gain Pitch Servo Gain Pitch Servo Gain Reverse Pitch Servo Gain Reverse Pitch Servo Guet Monitor Enabled Min Airspeed Limit Min Airspeed Limit Nort Post Autopilot Roll Servo Clutch Monitor Pitch Servo Gain Reverse Pitch Servo Direction Reverse Pitch Servo Gain 1.0 Pitch Servo Guet Monitor Enabled Min Airspeed Limit Sokry Vertical Speed Gain 1.5 Vertical Speed Gain 1.5 Vertical Speed Gain Post Autopilot Post Au	Radio AGL Sensor	Disabled	is installed.
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Flight Control System Monitors  Roll Tab  Roll Servo Max Torque  35%  Roll Servo Gain  Reverse  Roll Servo Direction  Reverse  Roll Servo Clutch Monitor  Pitch Tab  Pitch Servo Max Torque  35%  Pitch Servo Gain  1.0  Pitch Servo Direction  Reverse  Pitch Servo Direction  Reverse  Pitch Servo Direction  Rich Servo Clutch Monitor  Enabled  Min Airspeed Limit  Max Airspeed Limit  Vertical Speed Gain  1.5  Vertical Accel Gain	Engage AP Via CWS Steering	Enabled	
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Roll Servo Direction Reverse Roll Servo Clutch Monitor Enabled  Pitch Tab  Pitch Servo Max Torque 35%  Pitch Servo Gain 1.0  Pitch Servo Direction Reverse  Pitch Servo Clutch Monitor Enabled  Min Airspeed Limit 55KT  Max Airspeed Limit 100KT  Vertical Speed Gain 1.5  Vertical Accel Gain 1.5	Roll Servo Max Torque	35%	
Roll Servo Clutch Monitor Enabled  Pitch Tab  Pitch Servo Max Torque 35%  Pitch Servo Gain 1.0  Pitch Servo Direction Reverse  Pitch Servo Clutch Monitor Enabled  Min Airspeed Limit 55KT  Max Airspeed Limit 100KT  Vertical Speed Gain 1.5  Vertical Accel Gain 1.5	Roll Servo Gain	1.25	
Pitch Servo Max Torque 35%  Pitch Servo Gain 1.0  Pitch Servo Direction Reverse  Pitch Servo Clutch Monitor Enabled  Min Airspeed Limit 55KT  Max Airspeed Limit 100KT  Vertical Speed Gain 1.5  Vertical Accel Gain 1.5	Roll Servo Direction	Reverse	
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Pitch Servo Gain  Pitch Servo Direction  Reverse  Pitch Servo Clutch Monitor  Enabled  Min Airspeed Limit  Max Airspeed Limit  Vertical Speed Gain  Vertical Accel Gain  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.	Pitch Tab		
Pitch Servo Direction Reverse Pitch Servo Clutch Monitor Enabled Min Airspeed Limit 55KT  Max Airspeed Limit 100KT  Vertical Speed Gain 1.5  Vertical Accel Gain 1.5	Pitch Servo Max Torque	35%	
Pitch Servo Clutch Monitor Enabled  Min Airspeed Limit 55KT  Max Airspeed Limit 100KT  Vertical Speed Gain 1.5  Vertical Accel Gain 1.5	Pitch Servo Gain	1.0	
Min Airspeed Limit 55KT  Max Airspeed Limit 100KT  Vertical Speed Gain 1.5  Vertical Accel Gain 1.5	Pitch Servo Direction	Reverse	
Max Airspeed Limit 100KT  Vertical Speed Gain 1.5  Vertical Accel Gain 1.5	Pitch Servo Clutch Monitor	Enabled	
Vertical Speed Gain 1.5 Vertical Accel Gain 1.5	Min Airspeed Limit	55KT	
Vertical Accel Gain 1.5	Max Airspeed Limit	100KT	
Vertical Accel Gain 1.5	Vertical Speed Gain	1.5	
Airspeed Gain 1.5	·	1.5	
	Airspeed Gain	1.5	

FORM ICA009719-G PAGE **6** of **14** 



# **SERVICE LETTER**

SL-021224-B

	Flight Director		
	(AUTOPILOT ONLY)		
Indicator Type	Single Cue		
Altitude Controls	Normal		
ALT Mode User Select Action	Normal		
ALT Mode User Up/Down Action	Normal		
TO/GA Takeoff Pitch	+5°		
TO/GA Go-Around Pitch	+5°		
Maximum Bank Angle	30°	$\cap X$	
	ESP		
	(AUTOPILOT ONLY)	<u>LV</u>	
Roll Attitude Limiting	Disabled		
	Trim (AUTOPILOT ONLY)	<b>&gt;</b>	
Roll Trim Tab			
Roll Trim Motor Control	Disabled		
Pitch Trim Tab			
Pitch Trim Motor Control	Enabled		
Pitch Trim Motor Direction	Normal		
Pitch Trim Motor Voltage	12V		
Pitch Trim Airspeed Threshold	Fastest: 40Kt, Slowest: 120Kt		
Pitch Trim Speed	Fastest: 100%, Slowest: 25%		
Pitch Trim Airspeed Source	Indicated Airspeed		
Pitch Trim Max Run Time	No Limit		
	Select TEST on the Pitch Trim tab. Use the		
	arrows on the touch screen to move the		
	pitch trim actuator up and down. Verify		
Ditab Tring Mayarray	trim indicators follows as the actuator		
Pitch Trim Movement	moves.		
Air of T	Aircraft	<u> </u>	
Aircraft Tab	Come as Airenaft Desistantian		
Aircraft Identified	Same as Aircraft Registration		
Aircraft Type	Fixed Wing		
Fuel Type Man Symbol	Avgas		
Map Symbol Flight Planning Fuel Flow	Sport Plane 5		
Flight Planning Fuel Flow Flight Planning Cruise Speed	90kt		
Take Off Safe Altitude			
	NONE		
Reference Speeds Tab  VNE (Indicated)	120kt		
·			
VNE (True)	120kt		

FORM ICA009719-G PAGE **7** of **14** 



# **SERVICE LETTER**

SL-021224-B

VNO	95kts	
VS0 (With Flaps)	39kt	
VS1 (No Flaps)	45kt	
VFE	75kt	
VA	76kt	
MMO		
VX	55kt	
VY	58kt	
VMC		$\cap X$
VYSE		
VG	60kts	トV
Sink Rate at VG	600fpm	
Glide Ratio @ VG	Auto-Populates	<b>\</b>
VR	50kts	
Custom Speed 1, 2, 3, 4		
PFD G Meter Tab		
Gauge G Max	+4	
Gauge G Min	-2	
Auto Display	Enabled	
Color Lines	Disabled	
Positive G Red Line	+4.0	
Positive G Yellow Line	+3.0	
Negative G Yellow Line	-1.0	
Negative G Red Line	-2.0	
	Weight & Balance	
Empty CG Arm	See "WEIGHT AND BALANCE SETT	INGS" below
Empty Weight	<b>Y</b>	
	Units	Т
Distance	Nautical	
Ground Speed	Nautical	
Airspeed	Nautical	
Direction Display	Numeric Degrees	
Air Temperature	Fahrenheit	
Engine Temperature	Fahrenheit	
Altitude	Feet	
Vertical Speed	Feet/Minute	
Baro Pressure	Inches (Hg)	
Fluid Pressure	PSI	
Fluid Volume	Gallons (US)	
Fuel Flow	Gallons (US)	

FORM ICA009719-G PAGE **8** of **14** 



# **SERVICE LETTER**

SL-021224-B

Fuel Calculator	Gallons (US)	
Fuel Economy	nm/USgal	
Weight	Pounds (lbs)	
Power	Horsepower (HP)	
	Display	
Screen Shot	ENABLED	
ALL PARAMETERS	User Selected	
	Backlight	
Input Selection Tab	_	NX
Current Input	Manual	100%
Default Input	Manual	hV
Auto Control Tab		
Button Brightness Offset	+50%	<b>Y</b>
Light Sensor Brightness	Min: 3%	Max: 100%
Light Sensor Time Constant	1.0	
Lighting Bus Type	14V Bus	
Lighting Bus Min	Input: 0.3v	Brightness 0%
Lighting Bus Max	Input: 2.0v	Brightness 100%
Lighting Bus Time Constant	0.2	
Lighting Bus Off Threshold	Input: 0.3v	Hysteresis: 0.15v
	Sound	
Audio Source	Auto	
Alert Output	Mono & Stereo	
Master Alert Volume	100%	
Terrain Alert	Enabled	
Traffic Alert	Enabled	
Traffic N/A Alert	Enabled	
Miscompare Alert	Enabled	
VNE Alert	Enabled	
AFCS Attention Tones	Enabled	
Altitude Alert	ENABLED	Volume = 100%
Message Tone	100%	Volume = 100%
Minimums Alert	Enabled	Volume = AUTO
VNAV Alert	Enabled	Volume = AUTO
	RS-232	
PFD Tab		
RS-232 Port 1	None	
RS-232 Port 2	Connext 57600 baud	
	Normal Output Rate, NMEA Out (9600	
RS-232 Port 3	baud)	

FORM ICA009719-G PAGE **9** of **14** 



# **SERVICE LETTER**

SL-021224-B

RS-232 Port 4	None (57600 Baud [if the aircraft has the GDL-51 installed. When the GDL-51 is installed, this automatically updates.])	(Connext 57600 Baud [if the aircraft has the GDL-51 installed. When the GDL-51 is installed, this automatically updates.)
RS-232 Port 5	None	
MFD Tab		(If Available)
RS-232 Port 1	Garmin Data Transfer	
RS-232 Port 2	None	
RS-232 Port 3	None	
RS-232 Port 4	None	
RS-232 Port 5	None	<b>Y</b>
	ARINC 429	•
429 Output 1	None	
429 Output 2	None	
429 Input 1	None	
429 Input 2	None	
429 Input 3	None	
429 Input 4	None	
	PFD	
Pitch Offset	User Selected	
Roll Display	Ground Pointer	
Vertical Speed Indicator Range	+/- 2000 ft/min	
HSI Orientation	User Selected	
Baro Setting Reminder	Enabled	
Miscompare Monitoring	ADAHRS + SFD	
Auto Declutter	Enabled	
	GPS	
PFD	No GPS Antenna Connected	
MFD	No GPS Antenna Connected	
	Navigation	
VNAV Deviation Scale	+/- 1000ft	
Smart Glide	Enabled	
Smart Glide Setting Tab		
Runway Surface	ANY	
Minimum Runway Length	500 feet	
Circling Direction	AUTO	
	DME	

FORM ICA009719-G PAGE **10** of **14** 



# **SERVICE LETTER**

SL-021224-B

DME Device	None	
	Audio Panel	
Audio Panel Type	None	
	COM Radio	
COM 1 Tab		
Connection	Network Radio LRU 1 (GTR 20)	
Active Frequency	122.85	
COM Volume	75%	
Emergency Volume	70%	
Transmit Sidetone	5	
Microphone Gain	5	7
RF Squelch	0	
MON Mode On Swap	Preserve MON	
Discrete Input 1	None	
Discrete Input 2	None	
Internal Intercom	Enabled	
COM Mutes Intercom	Disabled	
COM 3D Audio	Enabled	
Intercom 3D Audio	Enabled	
Pilot 3D Position	Pilot On Left	
Cockpit Noise Lvel	High Noise	
Audio Out Gain	100	
AUX 1 Input Volume	50%	
AUX 1 Input Squelch	30%	
AUX 1 Mutes Music	Disabled	
AUX 2 Input Volume	65%	
Aux 2 Input Squelch	30%	
Aux 2 Mutes Music	Disabled	
COM 2 Tab		
Connection	None	
	Nav Radio	
NAV Radio Sources	None	
	Transponder	
Remote Transponder Tab		
Transponder Type	GTX 45R	
Configuration Tab		
Mode S Address Type	US Tail #	
Aircraft Registration	Same as Aircraft Registration	
Aircraft Type	Fixed Wing	
Aircraft Weight	1510 lb (for MTOW 1510 lb aircraft)	

FORM ICA009719-G PAGE **11** of **14** 



# **SERVICE LETTER**

SL-021224-B

	OR	
	1570 lb (for MTOW 1570 lb aircraft)	
Flight ID Mode	Use Aircraft Registration	
Aircraft Max Speed	120kt	
Aircraft Length	24ft	
Aircraft Width	34ft	
GPS Antenna Offset	1ft	
Position Integrity	IFR GPS 1e-7	
ADSB Transmit	Enabled	
Enhance Surveillance	Enabled	
VFR Code	1200	
HSDB Devices	None Selected	
RS-232 Port 2	ADS-B+ GPS Format 1	
RS-232 Port 3	Connext Format 1	
RS-232 Port 4	Connext Format 1	
	Data Link	
Mode S Address	Same as Aircraft Registration	
	Data Log	
SD Card Logging	Enabled	
Maximum SD Card Log Files	100	
Internal Data Log	Copy To SD Card	
	Engine & Airframe	
GEA 24 Inputs Tab		
Cylinder Head Temp	-	
Exhaust Gas Temp	Rotax FADEC (4-cylinder)	
Oil Temp	Rotax FADEC	
Oil Pressure	Rotax FADEC	
Manifold Pressure	Rotax FADEC	
Fuel Pressure	-	
RPM 1	Rotax FADEC	
RPM 2	-	
Fuel 1	-	
Fuel 2	-	
Pos 1/ GP 1	-	
Pos 2/ GP 2	-	
Pos 3/ GP 3/ Fuel 3	-	
Pos 4/ GP 4/ Fuel 4	-	
Pos 5/ GP 5/ Misc Press	-	
Pos 6/ GP 6/ Misc Temp 1	Coolant (Rotax FADEC)	
Pos 7/ GP 7/ Misc Temp 2	-	

FORM ICA009719-G PAGE **12** of **14** 



### **SERVICE LETTER**

SL-021224-B

Volts 1	EIS Power Input 1 Volts	
Volts 2	-	
Shunt 1	-	
Shunt 2	-	
Fuel Flow	-	
Fuel Return	-	
GEA 24 Discrete Tab		
Discrete 1	-	
Discrete 2	-	<b>N</b> X
Discrete 3	-	
Discrete 4	-	AV
RPM 2	-	
GP 1	-	
GP 2	-	
GP 3	-	
GP 4	-\	
GP 5	-	
GP 6	Coolant (Rotax FADEC)	
GP 7		
Settings Tab		
Engine Power	FADEC	
Total Time	Record Mode: Disabled	
Annunciators	Disabled	

#### Weight and Balance Settings:

Under "Weight and Balance" > "Envelope – Weight vs CG" > "Edit Envelope" > "Envelope Data", verify the settings in Table 2 (for MTOW 1510 lb aircraft) or Table 3 (for MTOW 1570 lb aircraft).

Table 2 - Table for CG/Weight Plot Point Data, MTOW 1510 lb

PLOT POINT	CG	WEIGHT
1 <sup>ST</sup>	153.00	1510.0
2 <sup>nd</sup>	156.30	1510.0
3 <sup>rd</sup>	158.60	1395.0
4 <sup>th</sup>	159.10	1275.0
5 <sup>th</sup>	159.20	1185.0
6 <sup>th</sup>	153.00	1485.0

FORM ICA009719-G PAGE **13** of **14** 



### **SERVICE LETTER**

SL-021224-B

Table 3 - Table for CG/Weight Plot Point Data, MTOW 1570 lb

PLOT POINT	CG	WEIGHT
1 <sup>ST</sup>	153.00	1570.0
2 <sup>nd</sup>	155.10	1570.0
3 <sup>rd</sup>	158.60	1395.0
4 <sup>th</sup>	159.10	1275.0
5 <sup>th</sup>	159.20	1185.0
6 <sup>th</sup>	153.00	1485.0

#### **Logbook Entry:**

"I hereby certify that the Garmin G3X has been updated to software version 9.33 and the ICON 1.0 configuration file is confirmed to be installed in accordance with SL-021224-B (Release of Garmin G3X Software 9.33) and all referenced documents. Potentially unclear procedures have been clarified with ICON Aircraft. (ref. FAA Exemption 10829C)"

For aircraft registered outside the U.S., omit "(ref. FAA Exemption 10829C)"

If you have questions, comments, or concerns about this Service Letter and/or if you are no longer owner/operator of this aircraft, please forward this information to the present owner/operator and notify ICON Aircraft at:

ICON Aircraft 2141 ICON Way, Suite 100 Vacaville, CA 95688 (707) 564-4000

support@iconaircraft.com

Please include the aircraft registration number, serial number, your name, and if known the contact information of the new owner/operator.

FORM ICA009719-G PAGE **14** of **14**