

SERVICE LETTER

SL-051324-A

ID NUMBER & REVISION: SL-051324-A

SUBJECT: Release of Garmin G3X Software 9.41

RELEASE DATE: 12 June 2024 EFFECTIVE DATE: 12 June 2024 SUPERSEDES NOTICE: SL-051324-A

AIRCRAFT AFFECTED: MAKE & MODEL: ICON A5

SERIAL NUMBERS: 00073, 00139 – 00146, 00148 – 00222

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

Garmin G3X software version 9.41

TIME OF COMPLIANCE: Unspecified

REVISION HISTORY: A Initial Release

LEVEL OF CERTIFICATION ⊠ Pilot/Owner

REQUIRED (any level checked ⊠ LSA Repairman – Inspection

Certified Repair Station

['] Manufacturer

PURPOSE:

To ensure continued compatibility between the ICON A5 on soal, computer system and the Garmin G3X, ICON Aircraft Engineering performs ground and flight to ting on each new Garmin G3X software release. This service letter is intended to compute that the ground and flight testing has been completed. ICON Aircraft has determined that the cormin G3X software version 9.41 is compatible with the ICON A5 computer system and authorizes the update and use of the 9.41 software. If there are any questions, please contact an ICON Abcraft Customer Advocate.

ASSEMBLIES AND PARTS:

	PART NUMBER	DESCRIPTION		QUANTITY	ALTERNATE			
	PART NUIVIDER	DESCRIPTION	PART NUMBER		DESCRIPTION			
	N/A	Garmin	G3X	Touch	Software 9.41	1		

IF APPLICABLE SERVICE RATS

KIT NUMBER ONTENT PARTS	DESCRIPTION	QUANTITY
N/A		

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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 cleas of the one listed above. In those instances, the software version listed in this service letter with a long obe available on the Garmin download web page. Please refrain from updating the software anto the ICON A5 G3X until the released software from Garmin is validated by ICON Aircraft and a new Service Letter levition is released.

Updating G3X to Garmin Software Version 9.41

- 1. Download the Garmin software version 9.41 onto an SD card
 - a. The software can be downloaded on the Garmin we site here.
 - b. Select: GDU 4xx Cockpit Display for your desired operating system
 - c. Select your inserted SD card as the download ocatio 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 carryin 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.

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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 automa cally badat, the software.
 - a. DO NOT turn off the air aft power until the software is fully updated.
 - i. The software is full vapdated when the message "Software update in progress- Do not remove yow r" disappears.
 - ii. This can be found by selecting "Messages" at bottom of screen.
 - b. See Figure 3 d Rigure 4

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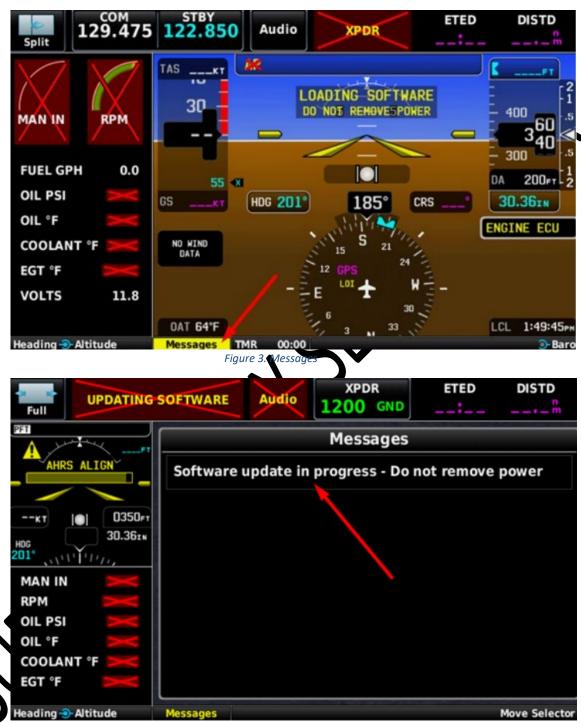


Figure 4. Update Message

- 7. The update may last up to 5 minutes.
 - a. If needed, place the aircraft on an appropriate external power supply during the update process.

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- 8. Once the software is fully updated, reboot the G3X by,
 - a. Simultaneously holding the NRST, MENU, and BACK buttons.
- 9. 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 Pag

- 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 9.41" is displayed.
 - i. This will occur quick and only display for a few seconds.
- 14. Turn off aircraft master power and rename the SD card from the G3X Touch display.

Table 1. Configuration Settings

No e Chares from software version 9.33 are in red.

	System Options				
System Type	Non-Certified				
Advanced ser Sex to	Enabled				
	LRU	·			
	(AUTOPILOT ONLY)				
ADAHK 1	Enabled				
AOA	Disabled				
HR52	Disabled				
Engir : Interface	Use EIS1				
Garmin Autopilot Servos	Pitch + Roll				
Yaw Damper	Disabled				
Roll Trim Servo	Disabled				
Pitch Trim Servo	Disabled				

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Electrical Control System	Disabled	
		This will need to be
		enabled if a GHA-15
Radio AGL Sensor	Disabled	is installed.
	LRU	
	(NO AUTOPILOT)	
ADAHRS 1	Enabled	- X
AOA	Disabled	
ADAHRS 2	Disabled	
Engine Interface	Use EIS1	
Garmin Autopilot Servos	Disabled	N V
Analog Autopilot Interface	Disabled	
Electrical Control System	Disabled	
	ADAHRS	
Unit Orientation	Tubes Forward/Connectors Up	/
		Ensure aircraft is
Zero-Airspeed Calibration	Select and run test. (See Figure 6)	inside with no
apart of the second		wind/fans blowing
		on the aircraft.
	Magneton eter	1
Magnetometer Orientation	Conector Port	
	Autopolot	
	(AUTOPILOT ONLY)	1
General Tab		
Control Wheel Steering	Enabled	
Engage AP Via CWS Sterving	Enabled	
Autopilot Engage Limits	Disabled	
Flight Control System Monitors	Disabled	
Roll Tab		
Roll Servo Max To Tue	50%	
Roll Sec. Ga	1.00	
Rollsen o Directo	Reverse	
Poll Se vo Tutch Monitor	Enabled	
Pitch Tab		
Max Torque	50%	
Pitch Jervo Gain	0.50	
Pitch Servo Direction	Reverse	
Pitch Servo Clutch Monitor	Enabled	
Min Airspeed Limit	55KT	
Max Airspeed Limit	100KT	

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Vertical Speed Gain	1.00	
Vertical Accel Gain	2.00	
Airspeed Gain	1.00	
	Flight Director	
	(AUTOPILOT ONLY)	
Indicator Type	Single Cue	
Altitude Controls	Normal	A Y
ALT Mode User Select Action	Normal	
ALT Mode User Up/Down Action	Normal	N
TO/GA Takeoff Pitch	+5°	
TO/GA Go-Around Pitch	+5°	Y
Maximum Bank Angle	30°	J
	ESP (AUTOPHOT ONLY)	>
Poll Attitudo Limitina	(AUTOPILOT ONLY) Disabled	<u>-</u> 1
Roll Attitude Limiting	Trim	
	(AUTOPILOT MLY)	
Roll Trim Tab	, 60	
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 Souce	Indicated Airspeed	
Pitch Trim Max Run Time	No Limit	
	Select TEST on the Pitch Trim tab. Use the	
.07*	arrows on the touch screen to move the	
	pitch trim actuator up and down. Verify	
Dital San San	trim indicators follows as the actuator	
Pitch Nim Movement	moves.	
Annation	Aircraft	1
Aheraft lab Aircraft lab Intified	Samo as Aircraft Registration	_
	Same as Aircraft Registration Fixed Wing	1
Aircraft Type		1
Fuer Type Map Symbol	Avgas Sport Plane	
Flight Planning Fuel Flow	5 gal/hr	
Flight Planning Cruise Speed	90kt	
Take Off Safe Altitude	NONE	
Take OII Sale Allitude	INUINE	

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Reference Speeds Tab		
VNE (Indicated)	120kt	
VNE (True)	120kt	
VNO	95kts	
VS0 (With Flaps)	39kt	
VS1 (No Flaps)	45kt	
VFE	75kt	
VA	76kt	
ММО	-,	NX.
VX	55kt	
VY	58kt	NV V
VMC		
VYSE	0	
VG	60kts	
Sink Rate at VG	600fpm	
Glide Ratio @ VG	Auto-Pop lates	
VR	Okts	
Custom Speed 1, 2, 3, 4	1 5	
PFD G Meter Tab		
Gauge G Max	+4	
Gauge G Min	-2	
Auto Display	Enabled	
Color Lines	Enabled	
Positive G Red Line	+4.0	
Positive G Yellow Line	+3.0	
Negative G Yellow Line	-1.0	
Negative G Red Ling	-2.0	
	Weight & Balance	
Empty CG Arm	See "WEIGHT AND BALANCE	SETTINGS" helow
Empty Weight	See WEIGHT AND BALANCE	JETTINGS DEIOW
	Units	
Distance	Nautical	
Ground Toekd	Nautical	
Airspaed	Nautical	
Direction Display	Numeric Degrees	
Air	Fahrenheit	
Engine Temperature	Fahrenheit	
Altitude	Feet	
Vertical Speed	Feet/Minute	
Baro Pressure	Inches (Hg)	

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Fluid Pressure	PSI	
Fluid Volume	Gallons (US)	
Fuel Flow	Gallons (US)	
Fuel Calculator	Gallons (US)	
Weight	Pounds (lbs)	_
Power	Horsepower (HP)	
·	Display	
Screen Shot	ENABLED	
ALL PARAMETERS	User Selected	NX
·	Backlight	
Input Selection Tab	-	N V
Current Input	Manual	90%
Default Input	Manual	
Auto Control Tab		
Button Brightness Offset	+50%	
Light Sensor Brightness	Min: 3%	Max: 100%
Light Sensor Time Constant	1.0	
Lighting Bus Type	14V Bus	
Lighting Bus Min	Aput: 0.3	Brightness 0%
Lighting Bus Max	Input: 2.0v	Brightness 100%
Lighting Bus Time Constant	0.2	
Lighting Bus Off Threshold	nput: 0.3v	Hysteresis: 0.15v
	Sound	-
Alert Audio Source	Auto	
Alert Audio Output	Mono & Stereo	
Master Alert Volume	100%	
Terrain Alert	Enabled	
Traffic Alert	Enabled	
Traffic N/A Aler	Enabled	
Miscompan Alert	Enabled	
VNE Alert	Enabled	
AFCS Attention Tones	Enabled	
Akitude (lek	Enabled	Volume = 100%
Message Tone	Enabled	Volume = 100%
Minh rums Alert	Enabled	Volume = AUTO
VN Alert	Enabled	Volume = AUTO
Engine/Airframe Alert Mode	TONE + VOICE	
•	RS-232	<u>.</u>
PFD Tab		
RS-232 Port 1	None	

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Normal Output Rate Normal Output Rate Normal Output Rate None (57600 Baud [if the aircraft has the GDL-51 installed. When the GDL-51 is installed, this automatically updates.]) RS-232 Port 4 (Green Checkmark) None MFD Tab RS-232 Port 1 RS-232 Port 2 RS-232 Port 3 RS-232 Port 3 RS-232 Port 4 RS-232 Port 4 RS-232 Port 5 None RS-232 Port 5 None RS-232 Port 9 RS-232 Port 1 RS-232 Port 9 RS-23	RS-232 Port 2 (Green		
RS-232 Port 3 Normal Output Rate Connext 57600	Checkmark)	Connext 57600 baud	
RS-232 Port 4 (Green Checkmark) None (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 RS-232 Port 1 RS-232 Port 2 RS-232 Port 3 RS-232 Port 4 RS-232 Port 4 RS-232 Port 5 ARINT 429 429 Output 1 Alone 429 Output 1 Alone 429 Input 2 Alone 429 Input 3 Alone 429 Input 4 PFD Pitch Offset Roll Display Ground Pointer Vertical Speed Jackson and ground Pointer Vertical Speed Jackson and ground Pointer Vertical Speed Jackson and ground Pointer Wertical Speed Jackson and ground Pointer Wertical Speed Jackson and ground Pointer Roll Display Ground Pointer Baro Setting Reminber ADAHRS + SFD Auto Non PSD No GPS Antenna Connected MFD No GPS Antenna Connected MFD Noval Speed Medical Setting Tab Nore Roll Display No GPS Antenna Connected MFD No GPS Antenna Connected No GPS Antenna Connected Smart Glide Smart Glide Smart Glide Smart Glide Setting Tab			NMEA Out (9600
RS-232 Port 4 (Green Checkmark) None (57600 Baud [if the aircraft has the GDL-51 is installed, When the GDL-51 is installed, this automatically updates.]) RS-232 Port 5 None MFD Tab RS-232 Port 1 RS-232 Port 2 RS-232 Port 3 RS-232 Port 3 RS-232 Port 4 RS-232 Port 5 ARIN 429 429 Output 1 429 Output 1 429 Output 2 429 Input 1 429 Input 2 None 429 Input 3 None PFD Pitch Offset ROIL Display Ground Pointer Vertical Speed Jackson age H-/- 2000 ft/min HSI Orientation Baud [if the aircraft has the GDL-51 is installed, when the GDL-51 is installed with a has the GDL-51 is installed. When the GDL-51 is installed, when the GDL-51 is installed, when the GDL-51 is installed. When the GDL-51 is installed installed. When the GDL-51 is installed has the GDL-51 is installed. When the GDL-51 is installed installed. When the GDL-51 is installed installed. Baud the GDL-51 is installed. When the GDL-51 is installed installed. Baud the GDL-51 is installed. When the GDL-51 is installed installed. Baud the GDL-51 is installed. Baud the GDL-51 is installed. Baud the GDL-51 is installed. When the GDL-51 is installed the installed installed. Baud the GDL-51 is installed. Baud the GDL-51 is installed this alto the GDL-51 is installed. Baud the GDL-51 is installed. Baud the GDL-51 is installed this alto the GDL-51 is installed. The GDL-51 is installed this alto the GDL-51 is installed the Marial Baud installed the GDL-51 is installed the GDL-51 is installed. The GDL-51 is installed the GDL-51 is installed. The GDL-51 is installed the GDL-51 is installed the GDL-51 is installed this ait called the GDL-51 is installed the GDL-51 is installed the GDL-51 is installed the GDL-51 is installed the GDL-51 is installed. The GDL-51 is installed the GDL-51 is installed the GDL-51 is installed the GDL-51 is installed. The GDL-51 is installe	RS-232 Port 3	Normal Output Rate	baud)
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RS-232 Port 5 ARINT 429 429 Output 1 Apple 1 Apple 2 429 Input 2 Apple 2 429 Input 2 Apple 3 Apple 4 Apple 3 Apple 4 Apple 4 Apple 4 Apple 5 Apple 6 Apple 6 Apple 6 Apple 7	RS-232 Port 3	None	
RS-232 Port 5 ARINT 429 429 Output 1 Apple 1 Apple 2 429 Input 2 Apple 2 429 Input 2 Apple 3 Apple 4 Apple 3 Apple 4 Apple 4 Apple 4 Apple 5 Apple 6 Apple 6 Apple 6 Apple 7	RS-232 Port 4	Non	
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429 Input 1 A29 Input 2 A29 Input 3 None 429 Input 4 None PFD Pitch Offset Roll Display Vertical Speed Is Scater angle H/- 2000 ft/min HSI Orientation Baro Setting Reminter Miscolopala Manitoring ADAHRS + SFD Autorical Speed Finabled Miscolopala Manitoring ADAHRS + SFD Autorical Speed No GPS Antenna Connected MFD No GPS Antenna Connected Navigation VNAV Deviation Scale Smart Glide Smart Glide Setting Tab			
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Pitch Offset Roll Display Ground Pointer Vertical Speed Latication and HSI Orientation HSI Orientation Baro Setting Reminter Miscot spale Manitoring ADAHRS + SFD Auto Decreter Enabled MFD No GPS Antenna Connected No GPS Antenna Connected Navigation VNAV Deviation Scale Smart Glide Smart Glide Setting Tab	429 Input 4	None	
Roll Display Vertical Speed & Signaturating HSI Orientation User Selected Baro Setting Reminier Enabled Miscolopain Manitoring ADAHRS + SFD Auto securer Enabled FED No GPS Antenna Connected MFD No GPS Antenna Connected Navigation VNAV Deviation Scale Smart Glide Smart Glide Setting Tab		PFD	
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Miscot pare Monitoring ADAHRS + SFD Auto Decenter GPS PED No GPS Antenna Connected MFD No GPS Antenna Connected Navigation VNAV Deviation Scale Smart Glide Smart Glide Setting Tab	HSI Orientation	User Selected	
Miscot pare Monitoring ADAHRS + SFD Auto Decenter GPS PED No GPS Antenna Connected MFD No GPS Antenna Connected Navigation VNAV Deviation Scale Smart Glide Smart Glide Setting Tab	Baro Setting Reminder	Enabled	
GPS PED No GPS Antenna Connected MFD No GPS Antenna Connected No GPS Antenna Connected Navigation VNAV Deviation Scale Smart Glide Enabled Smart Glide Setting Tab	Misco, pare Manitoring	ADAHRS + SFD	
No GPS Antenna Connected No GPS Antenna Connected No GPS Antenna Connected Navigation VNAV Deviation Scale Smart Glide Smart Glide Setting Tab	Auto Deck eter	Enabled	
No GPS Antenna Connected Navigation VNAV Deviation Scale ±500ft Smart Glide Enabled Smart Glide Setting Tab		GPS	
Navigation VNAV Deviation Scale ±500ft Smart Glide Enabled Smart Glide Setting Tab	PED	No GPS Antenna Connected	
VNAV Deviation Scale ±500ft Smart Glide Enabled Smart Glide Setting Tab	MFD	No GPS Antenna Connected	
Smart Glide Enabled Smart Glide Setting Tab		Navigation	
Smart Glide Setting Tab	VNAV Deviation Scale	±500ft	
	Smart Glide	Enabled	
Runway Surface ANY	Smart Glide Setting Tab		
	Runway Surface	ANY	

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Minimum Runway Length	500 feet	
Circiling Direction	AUTO	
	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%	NX
Emergency Volume	70%	
Transmit Sidetone	5	
Microphone Gain	5	
RF Squelch	0	Y
MON Mode On Swap	Preserve MON	
Discrete Input 1	None	
Discrete Input 2	None	
Internal Intercom	El abled	
COM Mutes Intercom	Disabled	
COM 3D Audio	Enabled	
Intercom 3D Audio	_ Exabled	
Pilot 3D Position	Plot On Left	
Cockpit Noise Lvel	igh Noise	
Audio Out Gain	100	
AUX 1 Input Volume	50%	
AUX 1 Input Squelch	30%	
AUX 1 Mutes Music	Disabled	
AUX 2 Input Volum	65%	
Aux 2 Input Squatsh	30%	
Aux 2 Mutes Music	Disabled	
COM 2 Tab		
Connection	None	
	Nav Radio	
M.V Radio Sturces	None	
	Transponder	
Remete Transponder Tab	·	
Transponder Type	GTX 45R	
Configuration Tab		
Mode S Address Type	US Tail #	
Aircraft Registration	Same as Aircraft Registration	
Aircraft Type	Fixed Wing	

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	1510 lb (for MTOW 1510 lb aircraft)	
	OR	
Aircraft Weight	1570 lb (for MTOW 1570 lb aircraft)	
Flight ID Mode	Use Aircraft Registration	
Aircraft Max Speed	120kt	
Aircraft Length	24ft	
Aircraft Width	34ft	A Y
GPS Antenna Offset	1ft	
Position Integrity	IFR GPS 1e-7	$\wedge x$
ADSB Transmit	Enabled	•
Enhance Surveillance	Enabled	\wedge
VFR Code	1200	
HSDB Devices	None Selected	
RS-232 Port 2	ADS-B+ GPS Forma 1	
RS-232 Port 3	Connext Format 1	
RS-232 Port 4	Connext Format 1	
	Data Lin	
Mode S Address	Same as Aircrare registration	
	E ta og	
SD Card Logging	Evabled	
Maximum SD Card Log Files	100	
Internal Data Log	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	
RPM2	-	
Rel 1	_	
Fuel 2	_	
GP1	_	
GP 2	-	
	-	
GP 3/ Fuel 3	-	
GP 4/ Fuel 4	-	
GP 5	Contact (Detail 54 DSC)	
GP 6/ Temp 1	Coolant (Rotax FADEC)	

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GP 7/Temp 2	-	
CHT 5/Temp 3	-	
CHT 6/Temp 4	-	
EGT 5/Temp 5	-	
EGT 6/Temp 6	-	
Volts 1	EIS Volts 1	
Volts 2	-	
Shunt 1	-	
Shunt 2	-	N X
Fuel Flow	-	
Fuel Return	-	N V
GEA 24 Discrete Tab		
Discrete 1	-	
Discrete 2	- 7)
Discrete 3	-	
Discrete 4		
RPM 2	(-	
GP 1		
GP 2		
GP 3	<u> </u>	
GP 4	\ \ \ \ :	
GP 5	^ V -	
GP 6	Coolant (Rotax FADEC)	
GP 7	V -	
Settings Tab		
Total Time	Matches Hobbs	
Engine Time	As Displayed	
Engine Power	FADEC	
Annunciators	Disabled	

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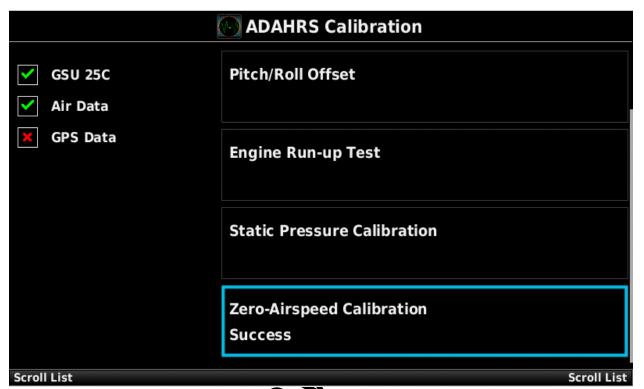


Figure 6. Zero-Airspeed Calibration

Weight and Balance Settings:

Under "Weight and Balance" x 'Envelope) Weight vs CG" > "Edit Envelope" > "Envelope Data", verify the settings in Table 2 (for a TOW 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 ST	153.00	1510.0
2nd	156.30	1510.0
3 rd	158.60	1395.0
4 th	159.10	1275.0
5 th	159.20	1185.0
6 th	153.00	1485.0

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

PLOT POINT	CG	WEIGHT
1 ST	153.00	1570.0
2 nd	155.10	1570.0
3 rd	158.60	1395.0
4 th	159.10	127.1
5 th	159.20	1185.0
6 th	153.00	1485.0

Logbook Entry:

"I hereby certify that the Garmin G3X has been updated to oftwore version 9.41 in accordance with SL-051324-A (Release of Garmin G3X Software 9.41) 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 (rej. 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.

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