

SERVICE LETTER SL-051324-A

ID NUMBER & REVISION:	SL-(05132	24-A		
SUBJECT:	Rel	ease	of Garmin G3X Software 9.41		
RELEASE DATE:	12.	June 2	2024		
EFFECTIVE DATE:	12.	June 2	2024		
SUPERSEDES NOTICE:	SL-(05132	24-A		
AIRCRAFT AFFECTED:	MA	KE &	MODEL: ICON A5		
	SEF		IUMBERS: 00073, 00139 – 0014	6, 00	148 – 00222
ACTION:	Up	date t	he Garmin G3X software from cu	rentl	y installed software to
	Gar	rmin (G3X software version 9.41		
TIME OF COMPLIANCE:	Uns	specif	ied		
REVISION HISTORY:	Α	Initi	al Release		
LEVEL OF CERTIFICATION		\boxtimes	Pilot/Owner	\boxtimes	A & P
REQUIRED (any level chec	ked	\boxtimes	LSA Repairman – Inspection	\boxtimes	Certified Repair Station
can perform task):		\boxtimes	LSA Repairman – Maintenance	\boxtimes	Manufacturer

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 9.41 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 Aircraft Customer Advocate.

ASSEMBLIES AND PARTS:

PART NUMBER	DESCRIPTION	ΟΠΑΝΤΙΤΧ	ALTERNATE	
	DESCRIPTION	QUANTIT	PART NUMBER	DESCRIPTION
N/A	Garmin G3X Touch Software 9.41	1		

IF APPLICABLE, SERVICE KITS:

KIT NUMBER	CONTENT 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 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 9.41

- 1. Download the Garmin software version 9.41 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.



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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 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.









- 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. Configuration Mode **Reboot display and** return to normal operation OIL PSI OIL PSI Yes OIL "F OIL "F COOLANT " COOLANT " ata Lini EGT 'F EGT 'F VOLTS VOLTS 11.7 11 Figure 5. Reboot Display Page
 - rigure 5. Reboot Disp
- 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 quickly and only display for a few seconds.
- 14. Turn off aircraft master power and remove the SD card from the G3X Touch display.

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		

Table 1. Configuration Settings

Note: Changes from software version 9.33 are in red.



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	
AOA	Disabled	
ADAHRS 2	Disabled	
Engine Interface	Use EIS1	
Garmin Autopilot Servos	Disabled	
Analog Autopilot Interface	Disabled	
Electrical Control System	Disabled	
	ADAHRS	
Unit Orientation	Tubes Forward/Connectors Up	
Zero-Airspeed Calibration	Select and run test. (See Figure 6)	Ensure aircraft is inside with no wind/fans blowing on the aircraft.
	Magnetometer	
Magnetometer Orientation	Connector Port	
	Autopilot	
	(AUTOPILOT ONLY)	
General Tab		
Control Wheel Steering	Enabled	
Engage AP Via CWS Steering	Enabled	
Autopilot Engage Limits	Disabled	
Flight Control System Monitors	Disabled	
Roll Tab		
Roll Servo Max Torque	50%	
Roll Servo Gain	1.00	
Roll Servo Direction	Reverse	
Roll Servo Clutch Monitor	Enabled	
Pitch Tab		
Pitch Servo Max Torque	50%	
Pitch Servo Gain	0.50	
Pitch Servo Direction	Reverse	
Pitch Servo Clutch Monitor	Enabled	
Min Airspeed Limit	55KT	
Max Airspeed Limit	100KT	



Vertical Accel Gain 2.00 Airspeed Gain 1.00 Flight Director (AUTOPILOT ONLY) Indicator Type Single Cue AltT 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° Babled Trim KUTOPILOT ONLY) Roll Attitude Limiting Roll Attitude Limiting Disabled Trim (AUTOPILOT ONLY) Roll Attitude Limiting Disabled Pitch Trim Motor Control Disabled Pitch Trim Motor Control Enabled Pitch Trim Motor Ontrol Enabled Pitch Trim Motor Oltrage 12V Pitch Trim Motor Voltage 12V Pitch Trim Motor Voltage 12V Pitch Trim Marspeed 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 trim indicators follows as the actuator Pitch Trim Max Run Time No Limit Aircraft Tab	Vertical Speed Gain	1.00			
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Flight Planning Fuel Flow 5 gal/hr Flight Planning Cruise Speed 90kt	Map Symbol	Sport Plane			
Flight Planning Cruise Speed 90kt	Flight Planning Fuel Flow	5 gal/hr			
	Flight Planning Cruise Speed	90kt			
Take Off Safe Altitude NONE	Take Off Safe Altitude	NONE			



Reference Speeds Tab		
VNE (Indicated)	120kt	
VNE (True)	120kt	
VNO	95kts	
VS0 (With Flaps)	39kt	
VS1 (No Flaps)	45kt	
VFE	75kt	
VA	76kt	
ММО		
VX	55kt	
VY	58kt	
VMC		
VYSE		
VG	60kts	
Sink Rate at VG	600fpm	
Glide Ratio @ VG	Auto-Populates	
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	Enabled	
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 SET	TINGS" balow
Empty Weight	See WEIGHT AND BALANCE SET	TINGS DEIOW
	Units	
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)				
Fuel Calculator	Gallons (US)				
Weight	Pounds (lbs)				
Power	Horsepower (HP)				
· · · · ·	Display	·			
Screen Shot	ENABLED				
ALL PARAMETERS	User Selected				
	Backlight				
Input Selection Tab					
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	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				
Alert Audio Source	Auto				
Alert Audio 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	Enabled	Volume = 100%			
Minimums Alert	Enabled	Volume = AUTO			
VNAV Alert	Enabled	Volume = AUTO			
Engine/Airframe Alert Mode	TONE + VOICE				
	RS-232				
PFD Tab					
RS-232 Port 1	None				



Checkmark)Connext 57600 baudRS-232 Port 3Normal Output RateNMEA Out (9600 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.])Baud [if the aircraft has the GDL-51 is installed. When the GDL-51 is installed.RS-232 Port 5NoneMFD Tab(If Available)RS-232 Port 2NoneRS-232 Port 3NoneRS-232 Port 4NoneRS-232 Port 5NoneRS-232 Port 4NoneRS-232 Port 5NonePS-232 Port 4NoneRS-232 Port 4NoneRS-232 Port 5NonePS-232 Port 4NonePS-232 Port 4NoneRS-232 Port 4NonePS-232 Port 5NonePS-232 Port 5NonePS-232 Port 4NonePS-232 Port 5NonePS-232 Port 5NonePS-232 Port 4NonePS-232 Port 5NonePS-232 Port 4NonePS-232 Port 5NonePS-232 Port 5NonePS-232 Port 4NonePS-232 Port 5NonePS-232 Port 5NonePS-232 Port 4NonePS-232 Port 5NonePS-232 Port 5NonePS-232 Port 5NonePS-232 Port 5NonePS-232 Port 5NonePS	RS-232 Port 2 <mark>(Green</mark>				
RS-232 Port 3Normal Output RateNMEA Out (9600 baud)RS-232 Port 4 (Green Checkmark)(Connext 57600 Bod [if the aircraft has the GDL-51 is installed. When the GDL-51 is installed, this automatically updates.])(Connext 57600 Baud [if the aircraft has the GDL-51 is installed. When the GDL-51 is installed. When the GDL-51 is installed. When the GDL-51 is this automatically updates.])RS-232 Port 5None(If Available)RS-232 Port 1Garmin Data TransferRS-232 Port 2RS-232 Port 2None(If Available)RS-232 Port 3NoneRS-232 Port 4RS-232 Port 4None(If Available)RS-232 Port 5None(If Available)RS-232 Port 6None(If Available)RS-232 Port 7None(If Available)RS-232 Port 4None(If Available)RS-232 Port 5None(If Available)RS-232 Port 5None(If Available)RS-232 Port 5None(If Available)RS-232 Port 5None(If Available)<	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.])Baud [if the aircraft 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. When the GDL-51 is installed. (If Available)RS-232 Port 5None(If Available)RS-232 Port 1Garmin Data Transfer RS-232 Port 2(If Available)RS-232 Port 2None(If Available)RS-232 Port 3None(If Available)RS-232 Port 4None(If Available)RS-232 Port 5None(If Available)RS-232 Port 6None(If Available)RS-232 Port 7None(If Available)RS-232 Port 7None(If Available)Algo 1None(If Available)Algo 1None(If Available)Algo 1None(If Available)Algo 1None(If Available)Roll 0Second(If Avai	RS-232 Port 3	Normal Output Rate	NMEA Out (9600 baud)		
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Navigation VNAV Deviation Scale ±500ft Smart Glide Enabled Smart Glide Setting Tab	MFD	No GPS Antenna Connected			
VNAV Deviation Scale ±500ft Smart Glide Enabled Smart Glide Setting Tab Image: Comparison of the setting Tab Runway Surface ANY	Navigation				
Smart Glide Enabled Smart Glide Setting Tab Comparison Runway Surface ANY	VNAV Deviation Scale	±500ft			
Smart Glide Setting Tab Runway Surface	Smart Glide	Enabled			
Runway Surface ANY	Smart Glide Setting Tab				
	Runway Surface	ANY			



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%			
Emergency Volume	70%			
Transmit Sidetone	5			
Microphone Gain	5			
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			



	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	
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	-	
GP 1	-	
GP 2	-	
GP 3/ Fuel 3	-	
GP 4/ Fuel 4	-	
GP 5	-	
GP 6/ Temp 1	Coolant (Rotax FADEC)	



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	-	
Fuel Flow	-	
Fuel Return	-	
GEA 24 Discrete Tab		
Discrete 1	-	
Discrete 2	-	
Discrete 3	-	
Discrete 4	-	
RPM 2	-	
GP 1	-	
GP 2	-	
GP 3	-	
GP 4	-	
GP 5	-	
GP 6	Coolant (Rotax FADEC)	
GP 7	-	
Settings Tab		
Total Time	Matches Hobbs	
Engine Time	As Displayed	
Engine Power	FADEC	
Annunciators	Disabled	



SERVICE LETTER SL-051324-A



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 ST	153.00	1510.0
2 nd	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



SERVICE LETTER SL-051324-A

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	1275.0
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 software 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 "(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 <u>support@iconaircraft.com</u> Please include the aircraft registration number, serial number, your name, and if known the contact information of the

new owner/operator.