Title: Garmin G3X Firmware Update For Rotax 915iS		
AG-SIL-2021-04-EN		**Released:**
Applicability		
Aircraft type & model:	**Affected Serial number(s):**	15 June 2021
AutoGyro Cavalon 915iS & MTO2017 915iS	AutoGyro Cavalon 915iS & MTO2017 915iS equipped with a Garmin G3X Touch	
The maintenance manual to be referenced is this stated or subsequent issue.		As per AutoGyro website
This form is the response from AutoGyro GmbH either against a problem found in the product in service requiring a containment or rectification action, or as service information for aircraft modification incorporation. For help, contact AutoGyro on 49(0)5121 88056-00, or email airworthiness@auto-gyro.com.		

Documentation (Service Information Letter Completion action)

The purpose of this document is to provide maintenance personnel with information over and above that currently available in the relevant AMM. Its compliance must be properly documented, if such procedure is required by the relevant authority

Chief Certification Officer	**Chief Technical Officer**
G. Speich	**O. Birkner**

Reason and overview of the Service Information Letter

Garmin has released a new update for the Garmin G3X touch series which has been tailored to incorporate functions specific to the 915iS engine. This update brings numerous market requested functions with it.

The functions described in the Function Overview section below are only available from version 8.81 upwards. The latest version is available here:
https://www8.garmin.com/support/collection.jsp?product=010-01057-00

The major differences are that the throttle or current engine power is displayed in percent, and engine faults can be visually displayed. There are no changes in parameters displayed.

AutoGyro recommends the installation of this firmware upgrade to facilitate the full functional integration between the 915iS engine and the Garmin G3X Touch glass cockpit.

Manpower estimates

Estimated man-hours to complete the task as a stand-alone item is:

0.3 hrs.

Compliance

There are no compliance requirements associated with this SIL.

Customer Support

Not applicable

Tooling required

Nil

Weight and Balance Effects

Nil

Manuals affected

POH & AMM AutoGyro is not affected. This SIL over-rides the information and requirements contained in the AutoGyro aircraft maintenance protocols, pending formal protocol updates.

Previous Modifications that affect the SIL

None

Accomplishment instructions (Action required to implement this bulletin):

All work is to be carried out in accordance with the latest model-relevant AutoGyro Aircraft Maintenance Manual and Periodic Service Worksheet.

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Instructions

The firmware update should be carried out in accordance with the relevant G3X Touch operator manual.

Configuration of the engine parameters to show throttle position

1. Enter the configuration screen of the G3X by pressing and holding the 'Menu' button during the boot sequence.

2. Select 'Engine & Airframe'

3. Select 'Settings'

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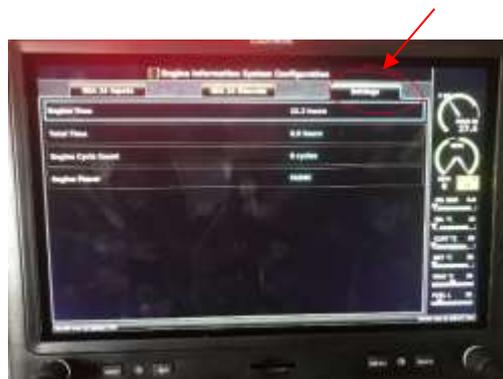
4. Select 'FADAC'

5. Select 'Save & Reboot'. The G3X will now reboot and the functions below in the 'Function Overview' will be available.
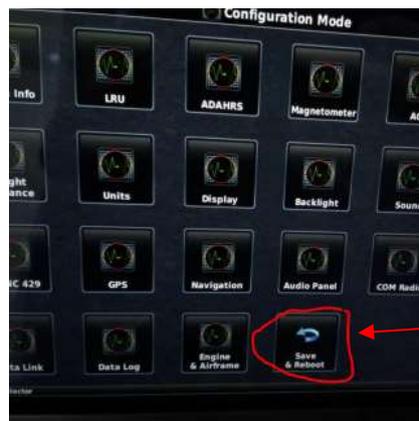
Function Overview

Throttle Position and Power Indicator:

The throttle position or engine power is now displayed as a percentage (value indicated under the manifold display).

For the Rotax 915iS FADEC engine, the engine power display shows the engine power as a percentage when the engine is running. When the aircraft is on the ground and the engine is not running, the engine power display will show the throttle position, which is given as a two-digit value preceded by 'T', e.g. 'T10' for 10% throttle. This is used for the pre-flight checklist of the aircraft.

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Error Memory of the ECU

Another function now makes it possible to display the errors from the ECU's error memory or the decoded error code sent by the engine.

If there is an engine error, typically either LA or LB (LEDs) flash/light up. Now, additional to this, information is also shown in the display (CAS message).

Should an engine error occur, the exact error information can be called up during the flight.

To do this, the engine menu must first be called up. Press the engine information display area. This window will then appear:

The engine date is displayed larger and in more detail. Now press the 'Menu' button.

Finally, press FADAC Information on the touch screen.

The FADAC Information will now open. The error shown below was provoked by disconnecting the Ambient Pressure sensor plug.

Changes must be recorded within the aircraft documentation, in line with the requirements of the country of operation.

Material information (Parts required to be made to implement this service bulletin):

Nil

List of components (with purchasable part numbers)

Nil

Interchangeability

Not affected

Parts disposition

a) Disposal requirements – Nil
b) Environmental hazards of parts containing hazardous materials – Nil
c) Scrap requirements (e.g. mutilate scrapped items beyond use) – Nil

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