

Title: Cavalon 915iS Lower Engine Mounting Nuts		
AG-SB-2021-01-B-EN	Effective Date: 20 April 2021	Compliance Category: A – MANDATORY B – RECOMMENDED C – OPTIONAL
Applicability		
Aircraft type & model: AutoGyro Cavalon	Affected Serial number(s): AutoGyro Cavalon fitted with a Rotax 915iS engine	
The maintenance manual to be referenced is this stated or subsequent issue.		As per AutoGyro website
<p>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.</p>		

Documentation (Service Bulletin Completion action)

The accomplishment of this Service Bulletin, or the decision of its rejection, must be properly documented, if such procedure is required by the relevant authority

Category Codes

A – Mandatory – failure to comply result in a significant reduction of flight safety, injury or death
 B – Recommended – failure to comply may result in reduced safety margin, injury and/or equipment damage
 C - Optional – improves operating behavior, reliability and/or maintainability

Chief Certification Officer	Chief Technical Officer

Reason and overview of the Service Bulletin (cause of problem if known)

In a small number of cases it has been reported during service feedback that on Cavalon fitted with a 915iS engine the lower engine mounting bolts assembled using Binx M10 nuts (43511) or using SI Nyloc M10 nuts (20183) can lose their clamping torque through the combined effects of heat and vibration.

To prevent this AutoGyro has released a different nut that is less affected by the operational conditions.

This service bulletin provides instructions for the replacement of the Binx M10 nuts (43511) or SI Nyloc M10 nuts (20183) with M10 SI full metal nuts (23630) for zinc plated engine mounting bolts.

Manpower estimates

The task may only be performed by an organization or individual entitled and trained to carry out maintenance on AutoGyro aircraft.

Estimated man-hours to complete the task as a stand-alone item is: 0.8hr.

Compliance

In the cases reported there were no immediate flight safety risks; but AutoGyro recommends that the tightness of these two fastenings be checked at the earliest opportunity and rectified if needed as per this document.

Customer Support

Labour hours as stated above and required materials are covered by this SB. The SB reference **AG-SB-2021-02-B-EN** should be quoted on all labour claims and spares orders. Proof of assembled parts requiring replacement, and respective positions, should be submitted in the form of an email with photographs, stating works number and airframe hours to airworthiness@auto-gyro.com.

No claims will be administered without this information.

Tooling required

Standard tools.

Weight and Balance Effects

Nil

Manuals affected

POH is unaffected. AMM to be updated at the next issue.

Previous Modifications that affect the SB

None

Accomplishment instructions (Action required to implement this bulletin):

Effective date of this SB is 20 April 2021.

Instructions

1. Gain access to the engine mountings by removing the upper and lower engine cowlings in accordance with the AMM job card 52-00-00 4-1.
2. Determine whether Binx M10 nuts (43511) or SI Nyloc M10 nuts (20183) are assembled on any of the lower engine mounting bolts. If SI full metal M10 nuts are fitted, no further action is required.
3. If Binx M10 or SI Nyloc M10 nuts are fitted, then replace with M10 SI full metal nuts (23630) for zinc plated engine mounting bolts in accordance with Job Card 71-20-00 8-1 of the respective AMM. Tighten well, noting that it is extremely difficult to access with a torque wrench. Target tightening torque 39Nm. Ensure a minimum of 1.5 threads of the bolt end are protruding from the nut once torqued.
4. Carry out a loose article and tool check.
5. Refit any previously removed cowlings in accordance with the respective job card.



Binx M10 Nut (43511)



SI Nyloc M10 Nut (20183)



SI Full Metal M10 Nut (23630)



Engine mount assembly with SI full metal M10 nut

Completion of this Service Bulletin 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)

23630 M10 SI full metal nut

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