

Title: Cavalon Engine Mounting Bolts – Out Of Phase Check Torque		
AG-SB-2019-04-A-EN		Compliance Category: A - MANDATORY B – RECOMMENDED C – OPTIONAL
Applicability		
Aircraft type & model: Cavalon 915iS	Affected Serial number(s): All Cavalon fitted with a Rotax 915iS engine up to and including serial number V00464	
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 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

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

It has been found that the engine mounting frame (46764) on AutoGyro Cavalons fitted with Rotax 915iS engines may “settle” into the fire protection affixed to the engine bulkhead.

This can lead to some engine mounting bolts losing their correct torque.

This service bulletin introduces an additional, single, service inspection for a cheque torque on the engine mounting frame to bulkhead bolts **at 5 flying hrs, or within the next 5 flying hours**. Thereafter as called for in the 25 and 100 hr inspections in the service protocol “Engine and Services”, item 131.

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:

approx. 0.5hr as a stand-alone item.

Compliance

This bulletin should be complied with as stated above under “Reason and overview”

Customer Support

Not applicable. Labour hours and materials are not covered by this SB.

Tooling required

Standard tools.

Weight and Balance Effects

Nil

Manuals affected

POH & AMM AutoGyro is not affected.

Previous Modifications that affect the SB

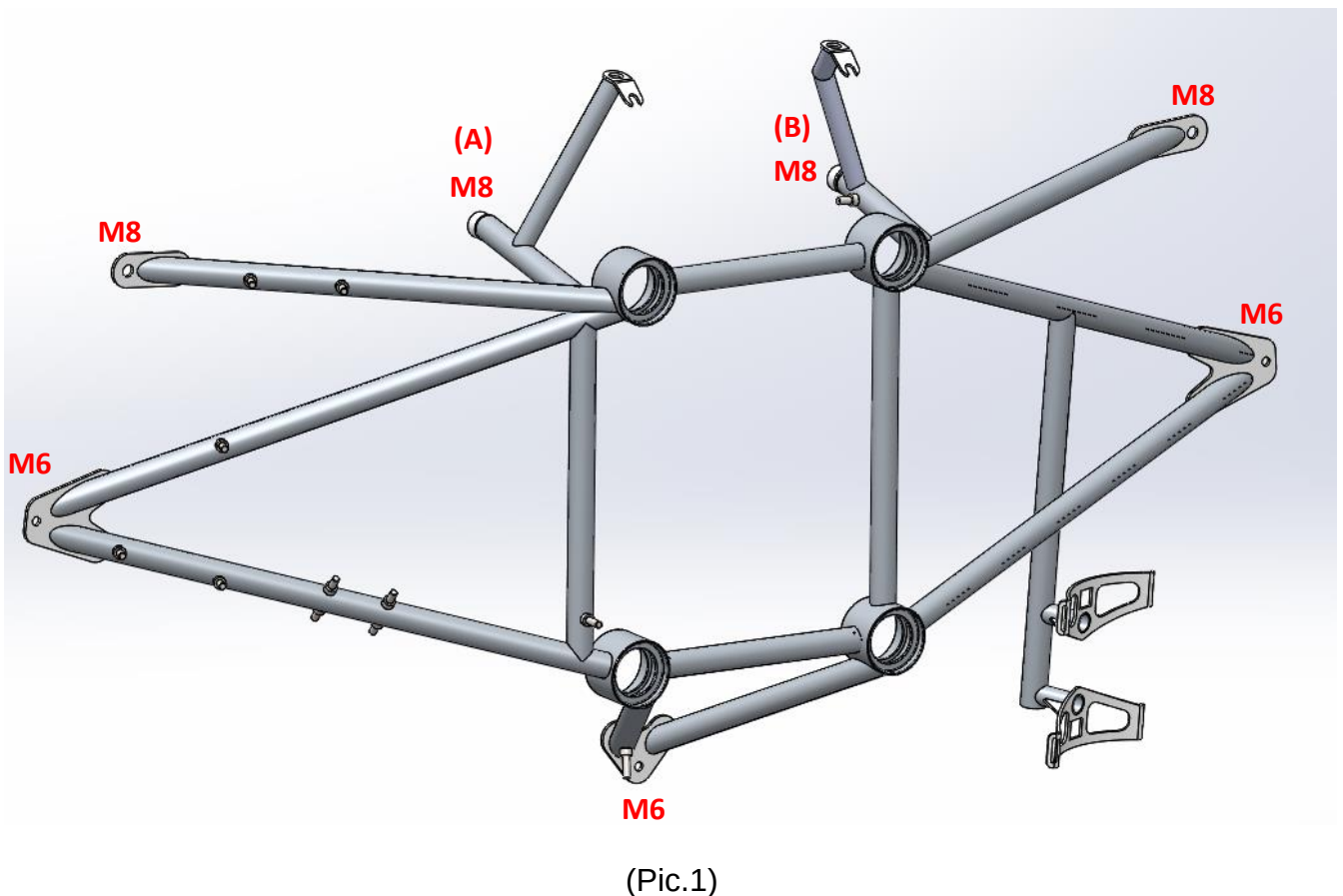
None

Accomplishment instructions (Action required to implement this bulletin):

Effective date of this SB is 03 Nov 2019.

Instructions

1. Gain access to the engine mounting frame (46764) by removing the upper and lower engine cowlings in accordance with the AMM job card 52-00-00 4-1.
2. Carry out a check-torque of the 7 engine mounting bolts (pic. 1). All bolts are torqued to standard torques for the bolt size as stated in the AMM Part B 01-12-00:
 - M4: 2-3 Nm
 - M5: 5-6 Nm
 - M6: 11 +/-1 Nm
 - M8: 25 +/-3 Nm
 - M10: 35 Nm +/-4 Nm
3. Should the mounting bolts at positions (A) and (B) below be found to have lost torque, they should be individually removed, Loctite 243 applied, and re-fitted.
4. Should mounting bolts at any other position (secured by with Nyloc) be found to have lost torque, they should be tightened to the correct torques stated above in paragraph 2.
5. Re-fit the engine cowlings, ensuring the lower cowling M4 screws are re-fitted using Loctite 221.



(Pic.1)

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)

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