Service Bulletin

Title: Capacitor Cavalon

AG-SB-2018-02-B-EN

<table>
<thead>
<tr>
<th>Compliance Category:</th>
</tr>
</thead>
<tbody>
<tr>
<td>A – MANDATORY</td>
</tr>
<tr>
<td>B – RECOMMENDED</td>
</tr>
<tr>
<td>C – OPTIONAL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Applicability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aircraft type &amp; model: Cavalon with a Super B Battery, in which the Service Bulletin AG_MI_2014_05 C was not executed</td>
</tr>
<tr>
<td>Affected Serial number(s):</td>
</tr>
</tbody>
</table>

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

G. Speich
Mar 26 2018 12:08 PM

Chief Technical Officer

Contact Info:
airworthiness@auto-gyro.com
www.auto-gyro.com

AutoGyro GmbH
Dornierstr. 14
31137 Hildesheim

AG-SB-2018-02-B-EN
Service Bulletin

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

There has been a case of a defective Super B battery (lithium-ion technology). This error does not occur when service bulletin AG_MI_2014_05-C "Fuel pump relay" is executed. The aim of this SB is to check whether the capacitor has already been installed and to retrofit it if necessary.

**Manpower estimates**

The task may only be performed by an organization or individual entitled and trained to do:
Heavy maintenance.

Estimated man-hours to complete the task as a stand-alone item are:
check: ca. 20 minutes
rectification: ca. 2 hours

**Tooling required**

**Weight and Balance Effects**

No effect

**Manuals affected**

POH AutoGyro and MMM AutoGyro are not affected.

**Previous Modifications that affect the SB**

AG_MI_2014-05_C – Fuel Pump Relay

**Accomplishment instructions (Action required to implement this bulletin):**

Effective date of this SB is 26th March 2018

**Instructions**

In order to check for the capacitor, the engine cowls and firewall must first be removed. Remove and refit as per the aircraft maintenance manual.

**Picture update:**

Check if a capacitor is already installed (see fig. 1 and 2).
If a capacitor already exists, no further action is necessary.

If no capacitor is installed, it must be retrofitted as follows:

1. Remove the air filter
2. Disconnect the battery negative terminal.
3. Remove fuse carrier from the fire wall (remove the screws)
4. Remove the cable at the top left on the fuse carrier
5. Fit the new M5x25 screw from the rear of the fuse carrier (left bottom) and secure it with a washer (U5) and nut (M5). Take care when tightening, do not break the plastic carrier!

6. Replace the fuse holder on the fire wall and secure the screws with loctite blue

7. Loosen the battery cable at the fuse carrier (middle left bottom)
8. Insert and tighten 125A fuse (starter)

9. Attach the negative pole (black cable) of the capacitor to the charge controller fastening

10. Attach the positive cable (red cable) of the capacitor to the fuse carrier on the top left
11. Insert and tighten 10A fuse

12. Fit the capacitor

13. Reconnect the battery negative terminal

14. Refit firewall and engine cowls as per the aircraft maintenance manual.

Note:
When charging the 'Super D' battery externally, only use a recharger for lithium-ion batteries
(for example: Article No. 85-00-00-S-36457, Lithium battery charger CTEK®).

Material information (Parts required to be made to implement this service bulletin):
1x 24-60-00-V-35902 "connection kit capacitor"
3x 24-00-00-S-36818 "attachment kit fuse 10A"

List of components (with purchasable part nos)
Consumables used:
If required:

Interchangeability
Not affected

Parts disposition
a) Disposal requirements – Normal waste
b) Environmental hazards of parts containing hazardous materials - None
c) Scrap requirements (e.g. mutilate scrapped items beyond use) – Not applicable