SB-128 Iss1	Related documents Modification: MC- none CCAR No.: None	Compliance Category: OPTIONAL or	
Ар	plicability	RECOMMENDED or	
Aircraft type & model: MTOS2017 Cavalon	Aircraft serial Nos. affected: RSUK/MT02/004,06,07 and 08 RSUK/CVLN/027	MANDATORY	
The maintenance manual to be referenced is this stated or subsequent issue.		MTOS2017 RSUK0395 lss1 Calidus RSUK0061 lss7	
The maintenance mandar to be rele	reflect to this stated of subsequent issue.	Cavalon RSUK0288 Iss5	

This form is the response from RotorSport UK Ltd 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 RotorSport on 44(0)1588 505060, or email compliance@rotorsport.org.

The technical content of this document is approved under the authority of the UK CAA Design Organisation Approval Ref: **DAI/9917/06**

Documentation (Service Bulletin Completion action)

- a) Entries within the aircraft logbooks, eg CAA BCAR A3-7 Authorised Person to certify that the work is completed by writing 'SB-128 Pneumatic clutch III pressure disc inspection incorporated' in the aircraft logbook white pages, and record the action in the pink pages entitled 'Aircraft Modifications'. Both entries must be signed by the CAA Authorised Person together with their CAA Authorisation number.
- b) Completion of the SB worksheet attached. This must contain a PMR statement, and a final check item that no tools or equipment have been left within the aircraft.
- c) No Type Approval change application document is required. (This is required where the SB will affect the type approval limitations, eg airspeed change or MTOW change and enables the owner to request the permit change required)
- d) Any other Permit Maintenance Release to Service form requirements.

Document approval signatures			
Engineering Manager	CVE (as required)	Chief Test Pilot (if flight performance or safety effect)	Head of Airworthiness
Characteristan Control States and	Not required, rectification not modification	Not required	3 Oct 2018
Dan Syn Dan Syn			

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

It has been found that the threaded holes in the first batch of pneumatic clutch III (2017) Pressure Plate front (2) are not sufficiently countersunk to accept the countersunk screws securing the Pressure Disc PKII (1). The effect is that the screws may be unable to properly clamp the disc and plate together, possibly leading to looseness, rattle noise, and wear of this connection.

The normal symptom is a rattle noise from the pre-rotator area when rotating the propeller for gurgling the oil and checking the oil level.

This bulletin issues instructions for the inspection of the clutch, countersinking of the threaded holes, and replacement of any damaged parts as required.

Note: No Modification Classification document is required as the action is viewed as inspection/correction of a manufacturing deficiency.

Manpower estimates

Accomplishment of this Service Bulletin requires the following personnel

(i) A3-7 or LAA Authorised person to release the aircraft to service

Estimated man-hours to complete the task as a stand-alone item are; 4 to 8 hours

Tooling required

45° countersink tool may be required.

Weight and Balance Effects

No significant effect

Manuals affected

POH RSUK-series and AMM RSUK-series are not affected.

Previous Modifications that affect the SB

None

Accomplishment instructions (Action required to implement this bulletin):

Effective date of this SB is 30.08.18

There is no relevant MPD or other outside body documentation to be referenced.

Instructions

See text of Auto-Gyro document AG-SB-2018-05-B-EN appended

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

No parts manufactured during embodiment

List of components (with purchasable part nos)

See text of Auto-Gyro document AG-SB-2018-05-B-EN appended

Interchangeability

Not affected

Parts disposition

- a) Disposal requirements Normal waste
- b) Environmental hazards of parts containing hazardous materials None
- c) Scrap requirements (eg mutilate scrapped items beyond use) Not applicable

Service Bulletin implementation Worksheet					
Aircraft type:	Serial no:			G-	
Worksheet completed by:	_ L			Document ref:	
Worksheet cross-checked by (if applicable):				28 iss 1	
Purpose – record service bulletin service.	implementation action	ons taken to in	spect air	craft a	nd return to
Maintenance manual referred-to and issue level:					
Note:	attach SB sheets to	this docum	ent		
Task	Notes		Eng'i check/d	ate	Inspector check/date
Detailed instructions are provided in listed below are abbreviated	Auto-Gyro document A	G-SB-2018-05	-B-EN app	ended	I. The tasks
Remove clutch as AMM.					
Inspect clutch parts / replace as necessary and make note to right					
Rework 4-off countersinks as required					
Refit screws with Loctite.					
Reassemble and replace assembly into the aircraft.					
Test that the pre rotator clutch function is satisfactory					
	_				
Customer acceptance:					
Name:		Aircraft hobbs	meter readi	ng:	
Signature/date:		Confirm logboo	oks annotat	ed:	
Permit Maintenance Release: 'The work recorded above has been completed to my satisfaction and in that respect the aircraft is considered fit for flight. I confirm that no tools, equipment or debris have been left in the aircraft'					
Engineer signature and date:		Location where	work com	oleted	
CAA PMR Authorisation ref :					



Title: Pneumatic Clutch III (2017) - Pressure Disc Inspection			
AG-SB-2018-05-B-EN		Compliance Category:	
Applic	A - MANDATORY		
Aircraft type & model: All MTO2017 and all Calidus/Cavalon with rotor head III fitted	Affected Serial number(s): All MTO2017 and all Calidus/Cavalon with rotor head III fitted	B – RECOMMENDED C – OPTIONAL	
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

Contact & Info: airworthiness@auto-gyro.com www.auto-gyro.com AutoGyro GmbH Dornierstr. 14 31137 Hildesheim



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

It has been found that the threaded holes in the first batch of pneumatic clutch III (2017) Pressure Plate front (2) are not sufficiently countersunk to accept the countersunk screws securing the Pressure Disc PKII (1). The effect is that the screws are unable to properly clamp the disc and plate together, possibly leading to looseness, rattle noise, and wear of this connection.

This bulletin issues instructions for the inspection of the clutch, countersinking of the threaded holes, and replacement of any damaged parts as required.

Manpower estimates

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

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

approx. 4 to 8hours depending on the installation and documentation requirements.

Tooling required

45° countersink tool may be required.

Weight and Balance Effects

No significant effect

Manuals affected

POH AutoGyro and AMM AutoGyro are not affected.

Previous Modifications that affect the SB

None

Accomplishment instructions (Action required to implement this bulletin):

Effective date of this SB is 30th August 2018

<u>Instructions</u>

- 1. Remove any cowlings required to gain access to the clutch assembly.
- 2. Remove the pneumatic clutch from the engine in accordance with AMM job card 63-11-10 4-1.
- 3. Remove the center screw retaining the pressure plate assembly (31713) to the clutch in accordance with AMM job card 63-11-10 8-1 part 4.
- 4. Remove the pressure plate assembly (31713) from the clutch and remove the 4 countersunk screws (3) securing the pressure disc (1) to the pressure plate front (2).
- 5. Inspect for signs of rotational movement of the pressure disc (1) on the pressure plate front (2), and/or elongated holes in the disc (1). If damaged, replace (article 23604).
- 6. Inspect the complete clutch assembly for any further damage and replace any affected parts (eg. 31713 Pressure Plate Mounted).
- 7. Inspect the pressure plate front (2) and ensure that the threaded holes (4) are countersunk to a

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depth of 1mm with a 45° countersink. If not, re-work with a suitable countersink tool.

- 8. Re-assemble the clutch in reverse order of disassembly.
- 9. Assemble the clutch to the engine in accordance with AMM job card 63-11-10 4-1.
- 10. Re-fit any cowlings previously removed.
- 11. Ground run the aircraft in a suitably secured area, including a pre-rotation clutch functional check.
- 12. Note the SB action within the aircraft documentation.

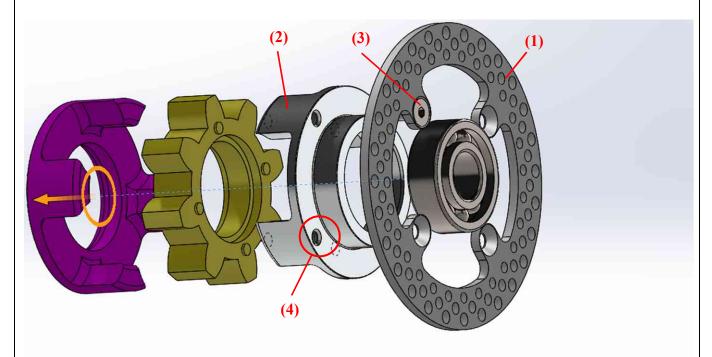


Fig. 1 - Pressure Plate Assembly (31713)

Completion of this Service Bulletin must be recorded

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

23604 Pressure Disc PKII (if required)

31713 Pressure Plate Mounted (if required)

<u>List of components (with purchasable part nos)</u>

Consumables used: Loctite Blue 243 (30483)

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

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