

RotorSport UK Ltd Service Bulletin (Permit)

Title: RotorSystem inspection requirements		Release date 19.08.2021
SB-144 Iss1	Related documents Modification: CCAR No.: None	Compliance Category: OPTIONAL <small>or</small> RECOMMENDED <small>or</small> MANDATORY
Applicability		
Aircraft type & model: All AutoGyro UK Aircraft	Aircraft serial Nos. affected: All	
The maintenance manual to be referenced is this stated or subsequent issue.		None
<p>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.</p> <p>The technical content of this document is approved under the authority of the UK CAA Design Organisation Approval Ref: DAI/9917/06</p>		

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 embodying this changed inspection requirement within the aircraft recurring inspection requirements.in the aircraft logbook white pages. The entry, with associated inspection, must be signed by the Authorised Person together with their Authorisation number.

Document approval signatures			
Engineering Manager	CVE (as required)	Chief Test Pilot (if flight performance or safety effect)	Head of Airworthiness
 G. Speich Aug 23 2021 5:58 PM <small>This document has been issued according to an approved company operational procedure.</small> 	 Mr David E Starkey Aug 23 2021 9:31 PM 	Not required	 24 Aug 2021

RotorSport UK Ltd Service Bulletin (Permit)

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

Considerable worldwide service experience now exists for the AutoGyro aircraft fleet, based on hours in service and age in service, particularly with respect to corrosion. Experience gained has shown that continued long-term safe operation will be enhanced by a change to the rotorsystem inspection requirements.

Manpower estimates

Estimated man-hours to complete the task as a stand-alone item is; not applicable

Compliance: *Mandatory. The aircraft service sheets have been amended.*

Tooling required

None

Weight and Balance Effects

No effect

Manuals affected

Not affected.
Maintenance protocols have been updated.

Previous Modifications that affect the SB

None

Accomplishment instructions (Action required to implement this bulletin):

The following table lists the new life-limits and inspection periods for all rotor systems on all models:

Equipment/ System	Safe Life Limit	Rotor Blade to hub bar attachment fastenings and blade hole inspection period	AMM Job Card References
Rotor System I	700hrs	100 hrs/12 months.	62-11-00 4-1 AG SIL-2019-03-B 62-11-00 4-2 62-11-00 6-2
Rotor System II	2500hrs	500hrs or 2 years. After 1500hrs in service, the inspection interval is reduced to 100hrs or 2 years. Recommended 1 year in corrosive environments such as float-operations or storage in humid environments	62-11-00 4-1 AG SIL-2019-03-B 62-11-00 4-2 62-11-00 6-2
Additional task			
Rotor System hub bar assembly bolts	None	Bolts are to be removed (sequentially) and inspected for corrosion every 100hrs or after 2 years in service.	62-11-00 6-2

Notes.

1. Corroded rotor blade bolts must be replaced.
2. If corroded bolts are found, ensure that associated hole is free from associated damage prior to bolt refitment.
3. Ensure the rotor blade and hub bar bolt shanks (not the threads) are lightly lubricated with AG-Lube-03 (Wurth HHS2000 or equivalent) on refitment.
4. Hub bar bolts are removed sequentially in order to avoid effect on rotor balance.
5. Nyloc or metal locknuts, unless meeting the AMM residual torque limits, must be replaced.
6. The job card references are to the AutoGyro AMM, applicable for models where this document has been issued within the RSUK AMM in the UK market. Otherwise refer to the RSUK Manual.

RotorSport UK Ltd Service Bulletin (Permit)

<u>Material information (Parts required to be made to implement this service bulletin):</u> No parts made during embodiment
<u>List of components (with purchasable part nos)</u> None
<u>Interchangeability</u> Not affected
<u>Parts disposition</u> a) Disposal requirements – None b) Environmental hazards of parts containing hazardous materials - None c) Scrap requirements (e.g. mutilate scrapped items beyond use) – None.