

Title: Inspection and Replacement of the roll and pitch bolt		
AG-SB-2024-03-B-EN	Effective Date: 20.03.2024	Compliance Category: A – MANDATORY B – RECOMMENDED C – OPTIONAL
Applicability		
Aircraft type & model: All models	Affected Serial number(s): All models built between 05.2023 and 02.2024, Affected serial numbers in the description	
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 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 within the aircraft records, in line with the requirements of the responsible aviation Regulatory Authority.

A worksheet may be attached to this bulletin to aid correct embodiment of this SB. This should be completed and retained with the aircraft records.

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

Document approval signatures	
Head of Engineering	Head of Airworthiness

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

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

A processing error has meant that a number of pitch/roll bolts have been manufactured with a longer lead-in chamfer than required. Whilst there is considered to be no structural or flight safety effect, the part does not meet the AutoGyro engineering standards.

List of affected new built aircraft:

Serial Number	Aircraft Type
V00540	Cavalon
V00542	Cavalon
M01985	MTOsport 2017
V00546	Cavalon
V00545	Cavalon
M01985	MTOsport 2017
M01994	MTOsport 2017
C00572	Calidus
C00573	Calidus
C00574	Calidus
C00575	Calidus
V00557	Cavalon
V00558	Cavalon
C00576	Calidus
V00559	Cavalon
C00581	Calidus
C00582	Calidus
V00560	Cavalon
V00565	Cavalon
M01998	MTOclassic 2010
M01999	MTOclassic 2010
M02000	MTOclassic 2010
M02001	MTOclassic 2010
M02002	MTOsport 2017
V00566	Cavalon
V00571	Cavalon
V00572	Cavalon
V00573	Cavalon
V00575	Cavalon
M02009	MTOsport 2017
M02010	MTOsport 2017
M02011	MTOsport 2017
M02012	MTOsport 2017
M02013	MTOsport 2017
M02014	MTOsport 2017
C00584	Calidus
C00585	Calidus
M01942	MTOclassic 2010
M01946	MTOclassic 2010
M01947	MTOclassic 2010
M01950	MTOclassic 2010
N02008	MTOclassic 2010
V00574	Cavalon
M02015	MTOclassic 2010
V00576	Cavalon

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List of affected spare parts:

- 20675 – Roll/ Pitch bolt
- 31879 – Rotor head II complete, (2010)
- 31881 – Hangpoint mounted (2010)
- 32052 – Rotor head II UK complete, MTOsport
- 33433 – Rotor head II complete Cavalon
- 33608 – Rotor head II complete Calidus
- 33931 – Rotor head II 17 degree compl. (2010)
- 38519 – Gimbal head II 17 degree
- 38560 – Gimbal head II
- 31798 – Rotor head II UK complete
- 44406 – Rotor head II 20,9mm complete
- 36128 – Gimbal head III, assembled

This service bulletin provides instructions on how to inspect and replace the roll/pitch bolt with part number 20675.

Manpower estimates

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

A max. of 1 hr is estimated to check and replace the bolt if necessary.

The service bulletin reference AG-SB-2024-03-B-EN and gyro serial number is to be quoted on all parts orders related to this SB.

Compliance

Task has to be done within the next 25h or 100h inspection.

Customer Support

Can be contacted for questions

Tooling required

Standard tools

Weight and Balance Effects

Nil

Manuals affected

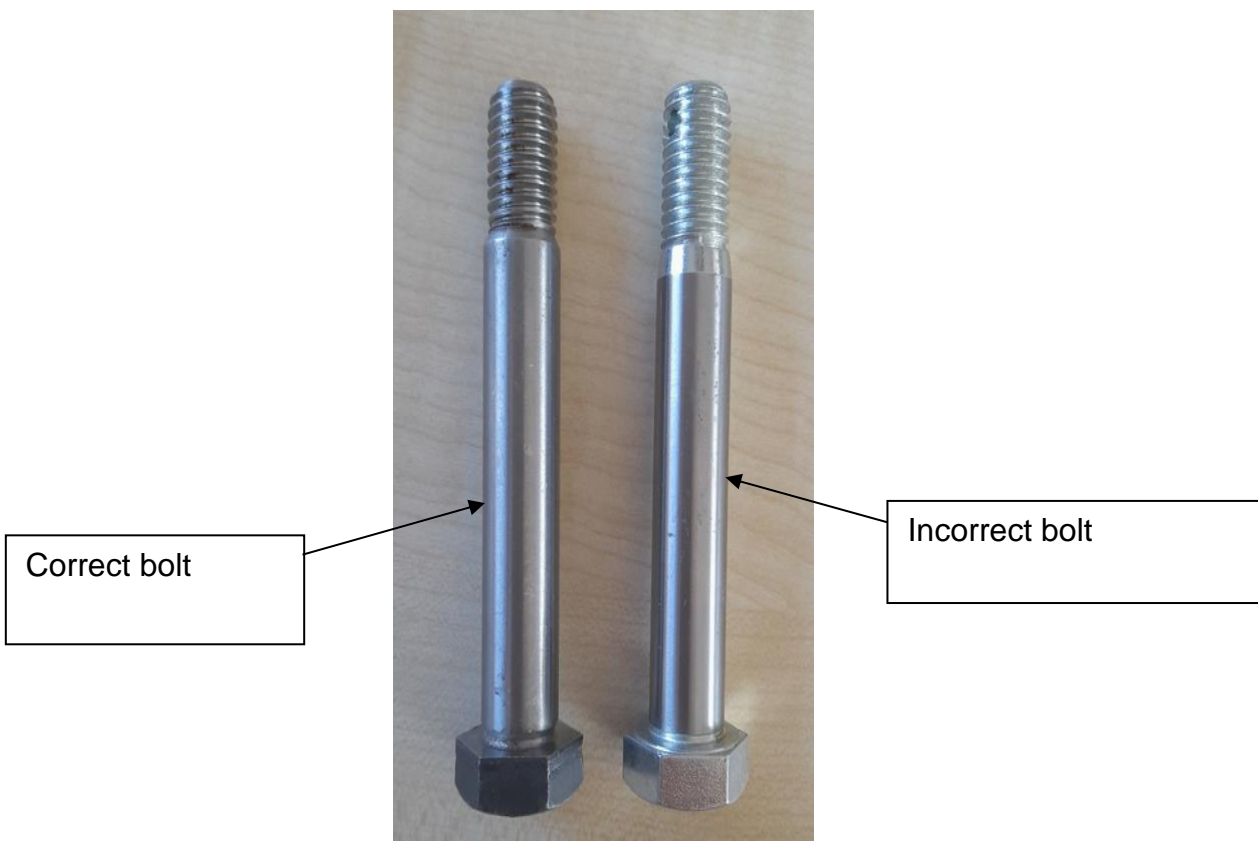
POH and AMM not affected.

Previous Modifications that affect the SB

None

Accomplishment instructions (Action required to implement this bulletin):

All work is to be carried out in accordance with the latest model-relevant AutoGyro Aircraft Maintenance Manual.



Inspection procedure:

MTOsport 2010; If affected, then both pitch and roll bolts are to be changed.

MTOsport 2017, Cavalon and Calidus; If affected, then only the roll bolts are to be changed.

The bolts can easily be identified:

Marking of the incorrect bolt:

If the screw head looks like this the bolt needs to be replaced.

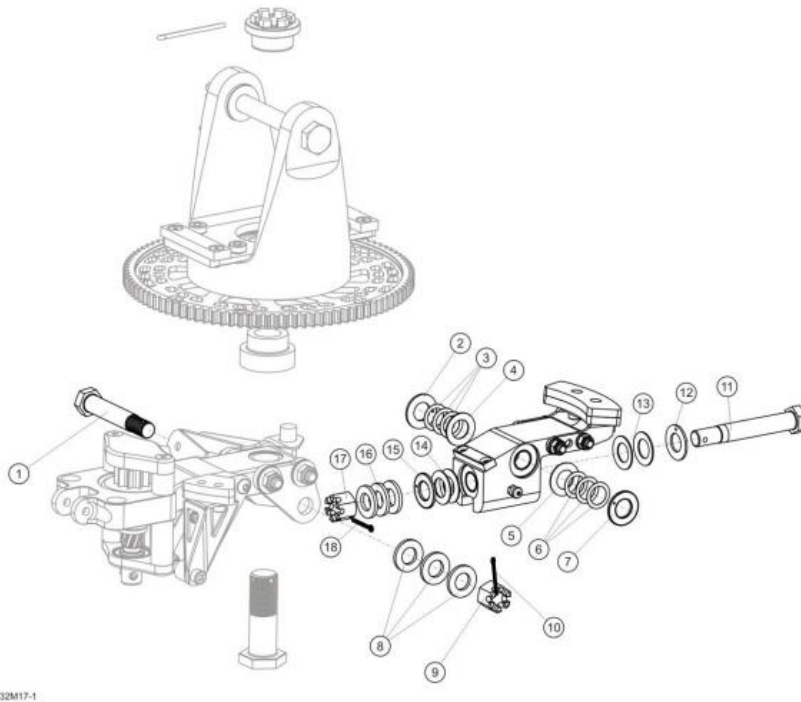


Marking of the correct bolt:

If the screw head looks like this a replacement is not necessary



Replacement procedure:



Cavalon with rotor head III:

- 1.) Remove the rotor system to relieve the load from the gimbal head according to job card 62-11-00 4-1 Removal: Rotor – Teetering parts
- 2.) Remove the split pin and the washers and carefully remove the roll bolt (nr.11)
- 3.) Replace the incorrect bolt with PN 20675 and re-install the bolt according to chapter 62-32-00 5-1: Check – Adjustment: Rotor Control Friction
- 4.) Re-install the rotor system according to job card 62-11-00 4-4 Installation: Rotor – Teetering parts
- 5.) Perform a FOD inspection and a test flight.

For the MTO2017 and Calidus with rotor head III:

Same procedure as for the Cavalon

For the MTO2010 roll and pitch bolt

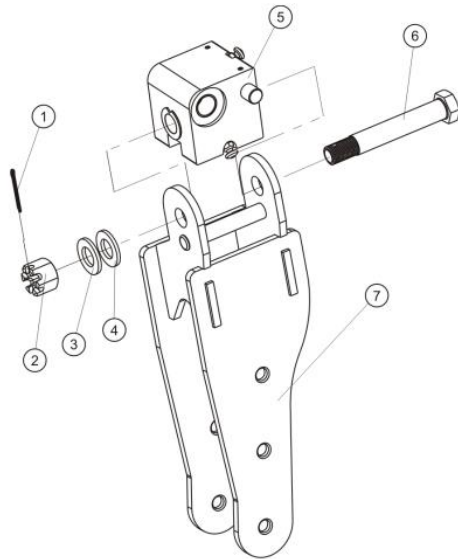


Fig. 2 - Rotor gimbal head

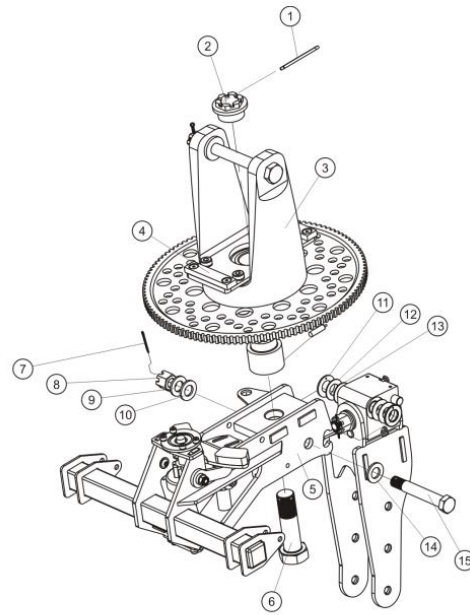


Fig. 1 - Gimbal head assembly

- 1.) Remove the rotor system in accordance to chapter 62-11-00 4-1 Removal: Rotor – Teetering parts
- 2.) Remove bolt (nr.6 and nr.15) and check if the right one is installed
- 3.) Replace the incorrect bolt and tighten it according to chapter 62-32-00 5-1: Check – Adjustment: Rotor Control Friction
- 4.) Re-install rotor system according to 62-11-00 4-4 Installation: Rotor – Teetering parts
- 5.) Perform a FOD inspection and a test flight

Any life-limit changes must be recorded within the aircraft documentation, in line with the requirements of the country of operation.

Nil

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

Nil

List of components (with purchasable part numbers)

20675 – Roll/Pitch Bolt

Interchangeability

Not affected

Parts disposition

- a) Disposal requirements –
- b) Environmental hazards of parts containing hazardous materials –
- c) Scrap requirements (e.g. mutilate scrapped items beyond use) –