

<b>Title: Rotor Head Teeter Joint Setup</b>		
<b>AG-SIL-2024-02-EN</b>		<b>Released:</b>
<b>Applicability</b>		<b>1st March 2024</b>
<b>Aircraft type &amp; model:</b>	<b>Affected Serial number(s):</b>	
<b>All AutoGyro Models</b>	<b>all</b>	
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, email: <a href="mailto:airworthiness@auto-gyro.com">airworthiness@auto-gyro.com</a> .		

**Documentation (Service Information Letter Completion action)**

The purpose of this document is to provide maintenance personnel with information over and above that currently available in the relevant AMM. Its compliance must be properly documented, if such procedure is required by the relevant authority

<b>Document approval signatures</b>	
<b>Head of Engineering</b>	<b>Head of Airworthiness</b>
The technical content of this document is approved under the authority of the UK CAA Design Organisation Approval Ref: DAI/9917/06	

<b>Contact &amp; Info:</b> <a href="mailto:airworthiness@auto-gyro.com">airworthiness@auto-gyro.com</a> <a href="http://www.auto-gyro.com">www.auto-gyro.com</a>	<b>AutoGyro GmbH</b> Dornierstr. 14 31137 Hildesheim
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**Reason and overview of the Service Information Letter**

Through recent development and vibration analysis tests it has been found that a slight modification in the setup of the teeter joint at the rotor head can result in a noticeable reduction in vibration. This SIL provides the information to embody this improvement.

This SIL overrides the information contained in the following aircraft model relevant documentation:

- POH, 4.3 Pre-flight Check, Exterior Checks, Teeter Bolt (Bolt-End).....free to turn.
- POH, 4.3 Pre-flight Check, Caution – Teeter bolt must be free to turn by hand
- AMM Job card 62-11-00 4-4 Installation: Rotor-Teetering Parts

With immediate effect this SIL is the authority for setup of the teeter joint pending an update of all respective AutoGyro maintenance manuals and POH's.

**Manpower estimates**

There are no manpower estimates associated with this SIL.

**Compliance**

There are no compliance requirements associated with this SIL.

**Customer Support**

Can be contacted if necessary.

**Tooling required**

Standard tools.

**Weight and Balance Effects**

Nil

**Manuals affected**

POH & AMM AutoGyro will be updated to reflect the change at the next formal revision.

**Previous Modifications that affect the SIL**

None

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

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

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

### Instructions

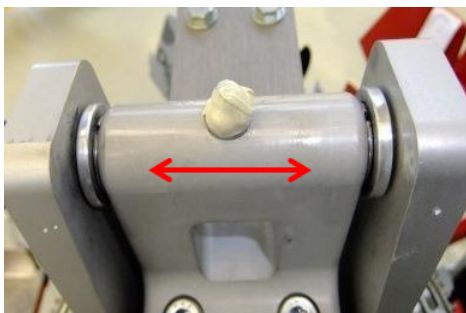
Ensure AMM job card 62-11-00 6-1, Inspection: Rotor – Teetering Parts, has been complied with.

The reference for this set-up is job card 62-11-00 4-4, Installation: Rotor – Teetering Parts.

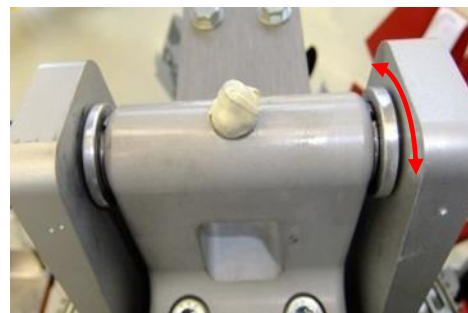
Step 10 of job card 62-11-00 4-4 should now read:

10. Install washer and castellated nut.

- i. Check lateral play of the teeter block in the teeter tower (Pic 1). If it is greater than 0.2mm contact AutoGyro for further support.
- ii. Tighten the castellated nut of the teeter bolt by hand until there is no lateral play discernable between teeter block and teeter tower, but at least one shim is able to be rotated (Pic 2).
- iii. Check whether the split-pin hole aligns. If it does not, remove the nut and assemble a 0.2mm shim (item 42945) and re-fit the nut. Tighten to the same position. The split-pin hole should now align. **Nut torque should be approximately 1-2Nm.**
- iv. Teeter the rotor and ensure that the teeter block rotates on the teeter bolt and not the teeter bolt in the teeter tower (Pic 3).
- v. Fit a new split-pin. Use split-pins only once.



Pic. 1



Pic. 2



Pic. 3

<p><b><u>Material information (Parts required relevant to this service information letter):</u></b></p> <p>Nil</p>
<p><b><u>List of components (with purchasable part numbers)</u></b></p> <p>42945 Shim washer</p>
<p><b><u>Interchangeability</u></b></p> <p>Not affected</p>
<p><b><u>Parts disposition</u></b></p> <p>a) Disposal requirements – Nil b) Environmental hazards of parts containing hazardous materials – Nil c) Scrap requirements (e.g. mutilate scrapped items beyond use) – Nil</p>