

# RotorSport UK Ltd

## Service Bulletin

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. Upon completion of the action, the person responsible must enter details into the aircraft logbook/worksheet with the SB and/or CAA MPD (Mandatory Permit Directive) number and sign as normal (see instructions below). For help, contact RotorSport on 44(0)1588 650769, or email [info@rotorsport.org](mailto:info@rotorsport.org).

<b>SB No.: 055 Issue 1</b>	CCAR No.: CCAR-005	Classification: <b>OPTIONAL or RECOMMENDED or MANDATORY</b>
Aircraft type & model (applicability) RSUK/MT03 and RSUK/MTOS	Aircraft serial Nos. effected RSUK/MT03/all RSUK/MTOS/all	

Problem description & cause of problem if known

During a number of permit renewals CAA surveyors have reported that the lower two instrument panel-mounting screws have been found loose. This is believed to be a result of relative flexing of the airframe and enclosure combined with vibration from the engine and rotor. These mounting screws are fitted into “Riv-Nut” threaded bushes and conventional Loctite cannot be used, as during removal the riveted fastening could fail before the thread releases. However, use of a low-shear-strength grade of Loctite allows adhesive locking to be used – Loctite 222 (coloured violet) has typical breakaway torque 6Nm, whereas Loctite 243 (coloured blue) has 20Nm.

Safety effect:

Improved

Weight and CG effect:

None

Action required to implement this bulletin:

- 1) Remove and replace each of the two lower M4 fasteners in turn, placing a small amount of Loctite 222 Threadlocker on the male thread before replacement.
- 2) It may be necessary to apply a relative load between the enclosure (with the knee) and the instrument panel (with the hand) to align the threads whilst replacing the screws.
- 3) Clean any surplus adhesive from the panel using a soft cloth

Effective date:  
30.04.12



Instrument panel lower mounting screws

Parts required to implement this service bulletin:

Loctite 222 (available from RSUK as part number RSD4696 in a 50ml dispenser)

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<p><u>Effect on Pilots Handbook or Maintenance Manual?</u>          An extract of the above text to be incorporated into Aircraft Maintenance Manuals RSUK0012 (MT-03) and RSUK0044 (MTOS)</p>				
<p><u>Service Bulletin Completion action</u></p> <p>CAA BCAR A3-7 Authorised Person or Pilot to certify that the work is completed by writing '<i>SB-055 Instrument Panel Mounting Screws incorporated</i>' 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) or Pilot (together with their Pilots Licence number).</p> <p>The above signature in the Aircraft Logbook's white pages is the issue of a Permit Maintenance Release Certificate</p>				
<p><i>The technical content of this document is approved under the authority of the UK CAA          Design Organisation Approval Ref: <b>DAI/9917/06</b></i></p>				
<p>SB authorised by: (name, signature, and date of signature)          This document has been issued according to an approved computer-generated signature procedure</p>				
Quality Conformance Manager	Engineering Manager	Chief Test Pilot (if flight performance or safety effect)	Structures (where required)	Head of Airworthiness
Document completion date:	Issued to:	When	Issuer name	Signature
	Internal			
	CAA			
	Owners			
	LAA/BMAA Inspectorate			