



RECREATIONAL AVIATION AUSTRALIA INC

Date: 21st July 2014

RECREATIONAL AIRCRAFT AIRWORTHINESS NOTICE

AIRWORTHINESS NOTICE IDENTIFICATION NUMBER: 21072014

SECURITY OF BULKHEAD ATTACHMENT NUTS ON BOWDEN (PUSH PULL) CONTROL CABLES. COMPULSORY INSPECTION.

To: All owners and operators of 19 AMATEUR BUILT aircraft that have push pull Type (Bowden Cables) cables installed in their aircraft.

Background: A recent assessment has identified potential areas of concern relating to the integrity of attachment points of the control cable. This assessment has provided evidence of inappropriate securing of attachment points which is not in accordance with accepted aviation practices. Failure to secure attachment points correctly could potentially induce aerodynamic control flutter of a primary flight control.

Action Required:

Mandatory inspection before next flight:



Inspect the bulkhead securing nuts. Where possible it is recommended the nuts are secured by an acceptable mechanical means. This may include securing nuts via lock wiring the nuts or other means to prevent vibration or other actions allowing the nut to become loose. If a mechanical method is not practicable, it's then suggested to use a Loctite type high strength thread sealant and include an assessment of the integrity of these parts as part of the mandatory inspection schedule for the aircraft.



This method pictured shows the lock wire behind the nuts. In the event the nuts become loose they are still captured



This method pictured shows the nuts being drilled and locks wired. Nuts are locked and cannot come undone. (Righty tightly, lefty loosely)

Reports and Recording. On initial inspection unsecured bulkhead nuts are to be secured appropriately and a Recreational Aviation Australia incident report is to be completed and sent to the Technical Manager. On completion of the inspection, if nil defect is evident a similarly worded statement is to be recorded in the aircrafts airframe log book citing **121072014**.

Darren Barnfield

Technical Manager

Defect Reporting is one of the primary ways we have in ensuring continued safety in our operations.