

# Continuing Airworthiness Notice – 24-001

## Kelly Aerospace Alternators P/N DOFF10300 Series

2 July 2008

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Issued by the Civil Aviation Authority of New Zealand in the interests of aviation safety. A Continuing Airworthiness Notice (CAN) is intended to alert, educate, and make recommendations to the aviation community. A CAN contains non-regulatory information and guidance that does not meet the criteria for an Airworthiness Directive (AD). The inspections and practices described in this CAN must still be carried out in accordance with the applicable NZCAR Parts 21, 43 and 91.

**The contents of this notice are ADVISORY ONLY and are NOT MANDATORY.**

CAN numbering is by ATA Chapter followed by a sequential number for the next CAN in that ATA Chapter.

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### Applicability:

All aircraft fitted with Kelly Aerospace alternators P/N DOFF10300 series.

### Purpose:

This Continuing Airworthiness Notice (CAN) advises operators of aircraft fitted with Kelly Aerospace alternators of the manufacturer maintenance requirement to retorque the alternator thru bolts at regular intervals.

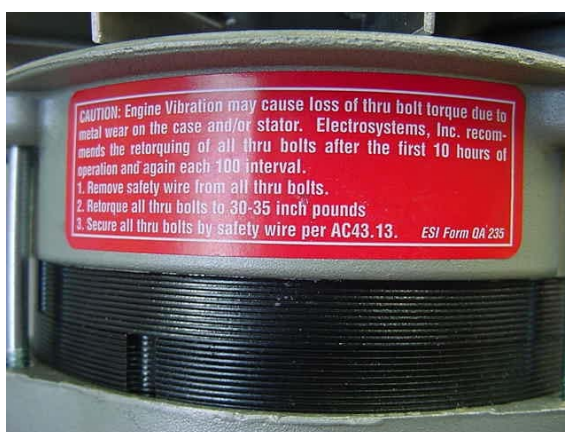
### Background:

This CAN is prompted by a significant number of Kelly Aerospace alternator failures at low hours time in service. Some alternators failed to come online and would not charge. The majority of these failures are attributed to engine vibration causing loss of alternator thru bolt torque due to metal wear on the case and/or stator.

### Recommendation:

This CAN alerts operators of aircraft fitted with Kelly Aerospace alternators P/N DOFF10300 series of the manufacturer maintenance instructions. When a new/rebuilt/exchange alternator is fitted, the manufacturer requires the retorque of alternator thru bolts after the initial 10 hours TIS, and thereafter at intervals of 100 hours TIS. The CAA recommends the alternator bolts are retorqued at intervals of 50 hours TIS. The retorque interval can be extended to 100 hours TIS when it can be determined that there is no significant loss of alternator thru bolt torque at 50 hour intervals which could result in alternator failure. Remove the safety lock wire, loosen the bolts to break the torque, and determine the running torque value of each bolt. Retorque the alternator thru bolts to 30 to 35 inch pounds in addition to the running torque value. Secure all thru bolts with lock wire in accordance with an approved method.

Recently the manufacturer included a decal on the casing of the alternator specifying the above mentioned maintenance instructions.



### Enquiries:

Enquiries with regard to the content of this Continued Airworthiness Notice should be sent to:

Owen Olls  
Airworthiness Specialist  
Email: [ollso@caa.govt.nz](mailto:ollso@caa.govt.nz)  
Phone: 04 560 9664