



Civil Aviation Authority

# EMERGENCY AIRWORTHINESS DIRECTIVE



**Number: G-2014-0001-E**

Issue date: 21 March 2014

This Airworthiness Directive (AD) is issued by the UK CAA as the National Aviation Authority (ICAO Annex 8 Authority of State of Design) for the affected product(s).

In accordance with Articles 19 (1) and 22(1) of The Air Navigation Order 2009, the following action required by this AD is mandatory for applicable aircraft registered in the United Kingdom. No person may operate an aircraft to which an AD applies except in accordance with the requirements of that AD unless otherwise agreed with the Authority of the State of Registry.

Type Approval Holder's Name:

**de Havilland Support Ltd**

Type/Model Designation(s):

**DH82**

**TCDS:**

n/a – AAN 22556 Issue 9 (or later) refers

**Supersedure:**

Not Applicable

**ATA 55**

**Fuselage Main Structures – Lower Fuselage Tie-Rods**

**Manufacturer(s):**

de Havilland, Morris Motors and others

**Applicability:**

All DH82 Tiger Moth, DH82A Tiger Moth and DH82B Queen Bee aeroplanes, all variants and replicas excluding Thruxton Jackaroo (DH82A Modified)

**Reason:**

Preliminary examination of an aircraft which crashed in Australia indicated that both of the aircraft's fuselage lateral tie rods, which join the lower wings to the fuselage, had fractured in the threaded section near the join with the left wing (at areas of significant pre-existing fatigue cracking). The failed tie rods, part number JRA-776-1, were manufactured under an Australian Parts Manufacturing Approval.

Some aircraft on the UK Register and other fleets may have embodied such PMA parts as alternative means of compliance, and this AD is to cover the intent of CASA Australia PAD/DH 82/17 removing any unacceptable tie-rods and nuts from service.

**Effective Date:**

21 March 2014

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|---------------------------|---|
| <b>Compliance/Action:</b> | <p>With immediate effect from the effective date of this AD, the aircraft is restricted to non-aerobatic flight until the provenance of the tie rods has been checked.</p> <p>Within 10 flying hours of the effective date of this AD check the provenance of the tie rods:</p> <ul style="list-style-type: none"> <li>- If tie-rods are of de Havilland manufacture* in accordance with TNS 29 and CAA AD 006-10-97, no further action is necessary.</li> <li>- Remove and destroy all fuselage lateral tie rods and attaching nuts produced by J&amp;R Aerospace and those of unknown provenance, and replace in accordance with Technical News Sheet Series CT(MOTH) No 29 available from de Havilland Support Limited UK (DHSL).</li> <li>- For other tie-rods not covered above, check life is within that approved by local Airworthiness Authority</li> </ul> <p>* This means one of the following:</p> <ol style="list-style-type: none"> <li>a) Tie rods that are identified by the Part Number H 37869A marked on the rod in ink, with DHSL engraved on one exposed end of the rod and a serial number engraved on the other end. The acceptable Part Number for the tie rod nuts is H 37870, or</li> <li>b) Tie rods and attaching nuts that are the original equipment manufacturer (OEM) tie rods manufactured by DH, Morris Motors or DH (Australia) provided they are within their installed calendar or safe life of 2,000 flying hours or 18 years, or</li> <li>c) Manufactured by Bruntons Aero Products Ltd of the United Kingdom (UK) or</li> <li>d) Produced by HG Aerospace Engineering Ltd of the UK.</li> </ol> |
| <b>Ref. Publications:</b> | British Aerospace Technical News Sheet Series CT(MOTH) No 29 Issue 3 (or later).  |
| <b>Remarks:</b>           | <ol style="list-style-type: none"> <li>1. This AD was not posted for consultation because of the urgency of the requirement.</li> <li>2. Enquiries regarding this Airworthiness Directive should be referred to:<br/>Aircraft Certification Department, Civil Aviation Authority, Safety and Airspace Regulation Group, Aviation House, Gatwick Airport South, West Sussex RH6 0YR.<br/>Tel: +44 (0)1293 573726<br/>Email: <a href="mailto:tony.love@caa.co.uk">tony.love@caa.co.uk</a></li> <li>3. For any question concerning the technical content of the requirements of this AD, please contact:<br/>de Havilland Support Ltd, Building 213, Duxford Airfield, Cambridge, CB22 4QR. Tel: +44(0)-1223-830090. FAX: +44(0)-1223-830085.<br/>e-mail: <a href="mailto:info@dhsupport.com">info@dhsupport.com</a> Copies of TNS CT(MOTH) No 29 are available from de Havilland Support Ltd.</li> </ol>  |