


|  |   |
|--|---|
| <b>EASA</b>  | <b>PROPOSED AIRWORTHINESS DIRECTIVE</b>   |
|   | <p><b>PAD No : 08-048</b></p> <p><b>Date: 04 April 2008</b></p>   |
| No person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive unless otherwise agreed with the Authority of the State of Registry. |   |
| <b>Type Approval Holder's Name :</b><br>Diamond Aircraft Industries GmbH   | <b>Type/Model designation(s) :</b><br>DA 42 aircraft  |
| TCDS Number: EASA A.005, A.513   |   |
| Foreign AD: Not applicable   |   |
| Supersedure: None  |   |
| <b>ATA 27</b>  | <b>Flight Controls – Aileron Bellcrank and Rod Ends – Replacement</b>   |
| Manufacturer(s):   | Diamond Aircraft Industries GmbH  |
| Applicability:   | <p>DA 42 and DA 42 M aircraft, all serial numbers, if aileron bellcranks Part Number (P/N) DA4-2717-50-00 are installed.</p> <p><b>Note:</b> The following DA 42 and DA 42 M aircraft are known have been delivered with P/N DA4-2717-50-00 Bellcrank and bent P/N DAI-9027-00-01 rod ends installed: Serial numbers 42.008 thru 42.285, 42.287, 42.289 thru 42.291, 42.295, 42.297, 42.301, 42.302, 42.306 thru 42.308; and 42.AC001 thru 42.AC110.</p>  |
| Reason:  | <p>The original designed bellcrank for the aileron control system in the wing needed to be installed with slightly bent rod ends during production of the aircraft, to avoid friction and possible chafing. In addition to being a non-preferable production practice, this creates the risk of replacement parts being installed during subsequent in-service maintenance without being bent or not being bent correctly. This condition, if not detected and corrected, could lead to chafing damage of the aileron control system and consequent loss of control of the aircraft. Diamond Aircraft Industries has now developed a new aileron bellcrank that allows for additional angular movement of the push rod, thereby eliminating the chafing risk without using bent rod ends.</p> <p>For the reasons described above, this EASA Airworthiness Directive (AD) requires the replacement of the aileron bellcrank with an improved part and the replacement of any bent rod ends P/N DAI-9027-00-01. In addition, this AD prohibits the reinstallation of P/N DA4-2717-50-00 aileron bellcranks and bent rod ends P/N DAI-9027-00-01 as replacement in future.</p> |
| Effective Date:  | [TBD: 14 days after final AD issue date]  |

|                    |   |
|--------------------|---|
| Compliance:        | <p>Required as indicated, unless accomplished previously:</p> <p>(1) Within the next 200 flight hours after the effective date of this AD, replace the P/N DA4-2717-50-00 aileron bellcrank with the improved design P/N DA4-2717-50-00_01 aileron bellcrank and replace any bent rod ends P/N DAI-9027-00-01 with straight parts, in accordance with the instructions of Diamond Aircraft Industries GmbH Mandatory Service Bulletin (MSB) 42-043;</p> <p>(2) After the effective date of this AD, no person shall install a spare P/N DA4-2717-50-00 aileron bellcrank or bent rod ends P/N DAI-9027-00-01 on any aircraft as replacement parts.</p>  |
| Ref. Publications: | <p>Diamond Aircraft Industries GmbH MSB-42-043 dated 14 February 2008 or MSB-42-043/1 dated 03 April 2008.</p> <p>The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.</p>   |
| Remarks :          | <ol style="list-style-type: none"> <li>1. If requested and appropriately substantiated, EASA can accept Alternative Methods of Compliance for this AD.</li> <li>2. The closing date for comments is 02 May 2008.</li> <li>3. Enquiries regarding this AD should be referred to the AD Focal Point - Certification Directorate, EASA; E-mail: <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a> .</li> <li>4. For any question concerning the technical content of the requirements in this AD, please contact:<br/>Diamond Aircraft Industries GmbH, Austria.<br/>Telephone +43 2622 26700;<br/>Facsimile +43 2622 26780;<br/>E-mail <a href="mailto:office@diamond-air.at">office@diamond-air.at</a></li> </ol> |