

AIRWORTHINESS DIRECTIVE

No. A-2004-003

June 22, 2004

Aeroplane DA40

Inspection/Replacement of the fuel selector/fuel valve universal joints

1. Applicability: DA40, Diamond Aircraft Industries GmbH, Austria (design holder and manufacturer)
S/N affected:
40.006 up to 40.079, 40.081 up to 40.083

DA40, Diamond Aircraft Industries Inc, Canada (manufacturer)
S/N affected:
40.201 and subsequent
2. Subject: Inspection and replacement of the universal joints between fuel selector handle and fuel selector valve.
3. Reason: Abnormal manufacturing variations of the universal joints in combination with mechanical wear can lead to universal joint failures and subsequent disconnection between the fuel selector and the fuel valve. This condition might remain unrecognized by the pilot and can result in fuel starvation during flight and/or the unavailability of the emergency fuel shut-off function.
4. Action:
 - a) Inspection of the universal joints of the fuel selector/fuel valve assembly in accordance with Diamond Aircraft Industries GmbH Mandatory Service Bulletin No. MSB 40-030/1 (available under <http://www.austrocontrol.at/austro/ita.html>)
 - b) Replacement of complete drive assembly in accordance with Diamond Aircraft Industries GmbH Mandatory Service Bulletin No. MSB 40-030/1
5. Compliance:
 - a) For aeroplanes with a time-since-new (TSN) of more than 200 flight hrs:
 - i) Within 15 flight hours after the effective date of this AD but not later than September 30, 2004, perform Action 4a).
 - ii) If defects are found, prior further flight, perform Action 4b).
 - iii) Repeat Action 4a) at intervals not to exceed 50 hrs of time-in-service (TIS).
 - b) For aeroplanes with a TSN of 200 flight hours or less:
 - i) At next scheduled inspection but not to exceed 50 hours TIS after the effective date of this AD and not later than September 30, 2004, perform Action 4a).
 - ii) If defects are found, prior further flight, perform Action 4b).
 - iii) Repeat Action 4a) at intervals not to exceed 50 hrs TIS.
- Accomplishment: The required actions have to be accomplished either by the manufacturer, or a licensed/qualified person/organisation, and confirmed in the aircraft log in accordance with national regulations.
6. Effective Date: June 30, 2004.

EASA-Approval

This Airworthiness Directive has been issued in accordance with Article 10, paragraph 1, of the EU-Regulation No. 1592/2002.