



# United Kingdom Civil Aviation Authority

## AIRWORTHINESS DIRECTIVE

**AD No: G-2004-0005**

Issue Date: 4 January 2007

This AD is issued by the UK CAA acting for and on behalf of the European Aviation Safety Agency as the Primary Aviation Authority (ICAO Annex 8 Authority of State of Design) for the affected product(s).

Approved by the European Aviation Safety Agency under approval number 2004-1699 on 26 February 2004.

In accordance with Article 10 of the Air Navigation Order 2005 as amended the following action required by this Airworthiness Directive (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:

Type/Model Designation(s):

**SHORTS BROTHERS PLC**

**SD3-60**

**CORRECTION to AD No. G-2004-0005 dated 2 March 2004**

**Type Certificate Data Sheet No:** BA11

**Superseded/ Revised ADs:** 004-11-2002

### **ATA 53 - STABILIZERS – INSPECTIONS OF VERTICAL STABILIZER SHEAR ATTACHMENTS FOR CORROSION AND REPLACEMENT IF REQUIRED**

**Manufacturer(s):** Short Brothers PLC

**Applicability:** Model SD3-60 aeroplanes (excluding SD3-60 Sherpa) certificated in any category.

**Reason:** Short Brothers Service Bulletin SD360-53-44 required a detailed visual inspection of the fin front spar web to fuselage upper skin shear attachment fitting p/n SD3-12-6978 and the fin rear spar web to root rib shear cleat p/n SD3-32-6384 for corrosion. As a consequence of additional reported findings of corrosion in the other fin attachment fittings, p/n SD3-12-6923 and SD3-32-6441/6694, a revised inspection/replacement programme is required to include additional fittings and to introduce appropriate continuing airworthiness instructions to determine the continued serviceability of the fittings when corrosion is detected.

This correction has been issued to update the contact details. The reference to the Air Navigation Order has also been updated. The technical content of the AD has not changed.

**Effective Date:** 16 March 2004

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**Compliance/Action:** Required at next 4800 Flight Hour structural inspection but no later than 30 May 2004, unless previously accomplished.

- A(i) Inspect vertical stabiliser shear attachment fittings part numbers SD3-12-6978, SD3-32-6384, SD3-12-6923 and SD3-32-6441 (or SD3-32-6694) for corrosion in accordance with Section 2 Accomplishment Instructions of Short Brothers Service Bulletin SD360-53-45 dated December 2003 or later CAA approved revision. Aircraft previously inspected in accordance with Short Brothers Service Bulletin SD360-53-44 are deemed to have satisfied the requirement for this initial inspection provided no corrosion was detected. Where corrosion was detected and the affected fitting has not yet been replaced, a review of the inspection findings must be made to determine if the corrosion was within the acceptable limits specified in SD360-53-45.
- (ii) Any corrosion detected on any of the fittings and assessed to be unacceptable must be replaced before further flight in accordance with Section 2 Part B of Short Brothers Service Bulletin SD360-53-45 dated December 2003 or later CAA approved revision.
- (iii) Where corrosion is detected on any of the fittings and assessed to be within acceptance limits, a repetitive inspection of each affected fitting shall be performed every 6 months commencing from the date of the initial inspection, until the fitting is replaced. Replacement of all corroded fittings is required no later than 18 months from the date of the initial inspection carried out in accordance with paragraph A(i) above.
- B Where no corrosion is detected or from the date of replacement, future inspections of the fittings shall be carried out in accordance with Short Brothers Recommended Maintenance Programme (Section 5-26-53, ATA 53-40, Item 12(d) and Section 5-26-55, ATA 55-30, Item 5(a) or equivalent reference in Supplement 1 for aircraft beyond half life), at intervals not exceeding 24 from the initial inspection/replacement.

**Reference Publications:** Short Brothers Service Bulletin SD360-53-45 dated December 2003 and Aircraft Maintenance Programme 5-26-53 and 5-26-55. Copies may be obtained from Short Brothers PLC, PO Box 241, Airport Road, Belfast BT3 9DZ, Northern Ireland.

**Remarks:** Enquires regarding this Airworthiness Directive should be directed to Civil Aviation Authority, Safety Regulation Group, AD Unit, Policy & Standards Department, Aviation House, Gatwick Airport South, West Sussex, RH6 0YR, United Kingdom. Phone: +44 (0) 1293 573802, Fax: +44 (0) 1293 573993, e-mail: ad.unit@srg.caa.co.uk