



**United Kingdom
Civil Aviation Authority**

**AIRWORTHINESS
DIRECTIVE**

AD No: G-2004-0032

Issue Date: 30 December 2004

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 2004-12560 on 30 December 2004.

In accordance with Article 9(7)(b) of the Air Navigation Order 2000 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 Holders Name:

SHORT BROTHERS PLC

Type/Model Designation(s):

SD3-60

Type Certificate Data Sheet No: BA11

Superseded/ Revised ADs: None

**ATA 27- FLIGHT CONTROLS – INSPECTION AND REPLACEMENT OF ELEVATOR TRIM
TAB BALANCE WEIGHT BRACKETS**

Manufacturer(s): Short Brothers PLC

Applicability: All Model SD3-60 aeroplanes with elevator trim tab balance weight brackets Part No SD3-07-6011xA installed in accordance with Part B of Short Brothers PLC Service Bulletin SD360-55-20 initial issue.

Reason: During a routine structural inspection, an operator found that the elevator tab balance weight brackets on both trim tabs were cracked. Examination of the cracked brackets by the aircraft manufacturer determined that they were not manufactured in conformity to the approved design standard. The bracket supplier has confirmed that all brackets were manufactured to this same (incorrect) standard.

The loss of an elevator trim tab mass balance weight has the potential to cause damage to an aircraft, or serious injury to personnel, should it become detached from an aircraft.

The defective brackets were installed as part of an inspection and modification programme mandated by CAA AD 009-06-2003 and detailed in Short Brothers PLC Service Bulletin SD360-55-20 initial issue.

Effective Date: 30 December 2004

continued on next page

Compliance/Action:

- A.) For aircraft that have exceeded 250 flight hours since replacement of the elevator trim tab balance weight brackets originally installed in accordance with Short Brothers PLC Service Bulletin SD360-55-20 initial issue, inspect the elevator trim tab balance weight brackets in accordance with Part A of Short Brothers PLC Service Bulletin SD360-55-A21 initial issue or later EASA approved revision within 30 flight hours from the effective date of this AD. If no cracks are found, repeat the inspection specified in Part A of Short Brothers PLC Service Bulletin SD360-55-A21 initial issue, or later EASA approved revision, at 250 flight hour intervals.
- B.) For aircraft that have not exceeded 250 flight hours since replacement of the elevator trim tab balance weight brackets originally installed in accordance with Short Brothers PLC Service Bulletin SD360-55-20 initial issue, inspect the elevator trim tab balance weight brackets in accordance with Part A of Short Brothers PLC Service Bulletin SD360-55-A21 initial issue, or later EASA approved revision prior to the accumulation of 250 flight hours since installation. If no cracks are found, repeat the inspection specified in Part A of Short Brothers PLC Service Bulletin SD360-55-A21 initial issue, or later EASA approved revision, at 250 flight hour intervals.
- C.) For all aircraft, replace the elevator trim tab balance weight brackets originally installed in accordance with Short Brothers PLC Service Bulletin SD360-55-20 initial issue with reworked brackets in accordance with Part B of Short Brothers PLC Service Bulletin SD360-55-A21 initial issue, or later EASA approved revision before the accumulation of 1750 flight hours since installation.
- D.) Cracked brackets must be replaced with reworked brackets in accordance with Part B of Short Brothers PLC Service Bulletin SD360-55-A21 initial issue, or later EASA approved revision before further flight.

Note: Installation of new, fully conforming, elevator trim tab balance weight brackets in accordance with Part B of Short Brothers PLC Service Bulletin SD360-55-A21 initial issue, or later EASA approved revision can be considered as terminating action for this AD.

Reference Publications: Short Service Bulletins SD360-55-20 and SD360-55-A21 may be obtained from Short Brothers PLC, PO Box 241, Airport Road, Belfast BT3 9DZ, Northern Ireland.

Remarks: Enquiries regarding this AD may be directed to Civil Aviation Authority, Safety Regulation Group, Certification and Approvals Department, Aviation House, Gatwick Airport South, West Sussex, RH6 0YR, United Kingdom. Phone: +44 (0) 1293 573289, Fax: +44 (0) 1293 573976, e-mail: peter.moule@srg.caa.co.uk

Note: This Airworthiness Directive was originally issued as an Emergency AD on 30 December 2004.