



**United Kingdom
Civil Aviation Authority**

**AIRWORTHINESS
DIRECTIVE**

AD No: G-2005-0013

Issue Date: 24 May 2005

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 2005-4317 on 18 May 2005.

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Superseded ADs: 009-06-2003 and G-2004-0032

**ATA 55- FLIGHT CONTROLS – INSPECTION AND REPLACEMENT OF ELEVATOR TRIM
TAB BALANCE WEIGHT BRACKETS**

Manufacturer(s): Short Brothers PLC

Applicability: All Model SD3-60 aeroplanes.

Reason: There have been several occurrences of cracked elevator trim tab balance weight attachment brackets, on one occasion the elevator trim tab mass balance weight separated from the aircraft. The loss of an elevator trim tab mass balance weight has the potential to cause damage to an aircraft, or serious injury to personnel. AD 009-06-2003 was published to detect and replace defective elevator trim tab mass balance weight brackets. Following the discovery during a scheduled maintenance input of cracked trim tab mass balance weight brackets on an aircraft modified in accordance with AD 009-06-2003 another Airworthiness Directive G-2004-0032 was considered necessary, this required inspection and timely replacement of the newly installed brackets. Investigation by the Type Certificate Holder (TCH) determined the new brackets were not manufactured in conformity with the applicable design data.

This Airworthiness Directive supersedes AD 009-06-2003 and AD G-2004-0032 and is intended to combine the necessary corrective actions into a single Airworthiness Directive that assures the correct standard of elevator trim tab balance weight attachment brackets are installed.

Effective Date: 30 June 2005

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Compliance/Action:

- A.) For aircraft fitted with new part number SD3-07-6011 elevator trim tab balance weight brackets originally installed in accordance with Part B of Shorts Mandatory Service Bulletin SD360-55-20 initial issue (AD 009-06-2003) and subsequently inspected but not replaced in accordance with Shorts Alert Service Bulletin SD360-55-A21 (AD G-2004-0032), inspect the elevator trim tab balance weight brackets in accordance with Part A of Shorts Alert Service Bulletin SD360-55-A21 within 250 Flight Hours (FH) since the last inspection, and thereafter at intervals not to exceed 250 FH. Replace the elevator trim tab balance weight attachment brackets prior to the accumulation of 1750 FH since new with fully conforming brackets in accordance with Part B of Alert Service Bulletin SD360-55-A21 or later EASA approved revision.
- B.) For aircraft fitted with part number SD3-31-6213xB elevator trim tab balance weight brackets previously inspected in accordance with Shorts Service Bulletin SD360-55-20 initial issue (AD 009-06-2003) and refitted as-is or following approved repair in accordance with Part B of this Service Bulletin, inspect the elevator trim tab balance weight brackets in accordance with Shorts Service Bulletin SD360-55-20 Revision 1 within 4,800 FH since last inspection and thereafter at intervals not to exceed 4,800 FH. Replace the elevator trim tab balance weight support brackets prior to the accumulation of 28,800 FH since new with fully conforming brackets in accordance with Part B of Shorts Service Bulletin SD360-55-20 Revision 1 or later EASA approved revision.
- C.) For aircraft with elevator trim tab balance weight brackets that have been replaced with new fully conforming brackets in accordance Part B of Shorts Service Bulletin SD360-55-A21 or SD360-55-20 Revision 1, no further action is required by this AD.

Cracked brackets revealed as a result of any inspection required by this AD must be replaced before further flight with new fully conforming brackets in accordance with Part B of Alert Service Bulletin SD360-55-A21 or Part B of Service Bulletin SD360-55-20 Revision 1 or later EASA approved revision.

Note: The mandatory replacement lives published in Section 5-00-02 of the Shorts SD360 Aircraft Maintenance Manual are applicable to all elevator trim tab balance weight support brackets. Repetitive inspection of all trim tab balance weight brackets will continue in accordance with Shorts Recommended Maintenance Programme.

Reference Publications: Shorts Service Bulletins may be obtained from Short Brothers PLC, PO Box 241, Airport Road, Belfast BT3 9DZ, Northern Ireland.

Remarks: Enquiries regarding this Airworthiness Directive 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 573315, Fax: +44 (0) 1293 573976, e-mail: department.certification@srg.caa.co.uk