
AIRWORTHINESS DIRECTIVE

For the reasons set out in the background section, the CASA delegate whose signature appears below issues the following Airworthiness Directive (AD) under subregulation 39.1 (1) of CASR 1998. The AD requires that the action set out in the requirement section (being action that the delegate considers necessary to correct the unsafe condition) be taken in relation to the aircraft or aeronautical product mentioned in the applicability section: (a) in the circumstances mentioned in the requirement section; and (b) in accordance with the instructions set out in the requirement section; and (c) at the time mentioned in the compliance section.

Boeing 727 Series Aeroplanes

AD/B727/185 Hydraulic Accumulator End Cap Separation 9/2003

Applicability: Boeing 727 series aeroplanes, Line Numbers (L/N) 1 to 1832 inclusive with hydraulic accumulators installed as referenced in Boeing Special Attention Service Bulletins (BSASB) referred to in the Requirements of this Directive.

Requirement: **Hydraulic Accumulators in “A” and “B” Systems:**

1. Inspect, in accordance with BSASB 727-29-0064 Revision 1, dated 3 May 2001, the hydraulic accumulators in the “A” and “B” hydraulic systems to determine if the part numbers (P/N) are Parker P/N 1356-603303.
2. If hydraulic accumulators, in compliance with Requirement 1, are determined to be Parker P/N 1356-603303, replace with new or modified accumulators in accordance with BSASB 727-29-0064 Revision 1, dated 3 May 2001.

Note 1: BSASB 727-29-0064 Revision 1, refers to Parker Service Bulletin 1356-603303-29-60, dated 9 January 2001, as the appropriate source of service information for modification of the hydraulic accumulators that are subject to replacement as per BSASB 727-29-0064 Revision 1.

Hydraulic Accumulators in Landing Gear Brake System:

3. Inspect, in accordance with BSASB 727-32-0410 Revision 2, dated 24 January 2002, the hydraulic accumulator installed in the landing gear brake system to determine if the P/N is 1356-603399, 3780078-104, BACA11E4S, BACA11E4SA, 60857-4-1, or BACA11E4 (vendor P/N 2660472-4 or 2660472M4).
4. If any hydraulic accumulator, in compliance with Requirement 3, is determined to be P/N 1356-603399 or BACA11E4 (vendor P/N 2660472-4 or 2660472M4), replace existing accumulator clamps and mounting hardware with new, stronger accumulator clamps and mounting hardware, and replace the subject hydraulic accumulator with a new or modified accumulator in accordance with BSASB 727-32-0410 Revision 2, dated 24 January 2002.

Note 2: BSASB 727-32-0410 Revision 2, refers to Parker Service Bulletins 1356-603399-29-61 and 2660472-29-63, both dated 12 December 2000, as the appropriate sources of service information for modification of the hydraulic accumulators that are subject to replacement per BSASB 727-32-0410 Revision 2.

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5. If any hydraulic accumulator is determined to be P/N 3780078-104, BACA11E4SA, or 60857-4-1, in compliance with Requirement 3, replace existing accumulator clamps and mounting hardware with new, stronger accumulator clamps and mounting hardware in accordance with BSASB 727-32-0410 Revision 2, dated 24 January 2002.

Hydraulic Accumulators in Aft Airstair System:

6. Inspect, in accordance with BSASB 727-52-0148 Revision 2, dated 24 January, 2002, the hydraulic accumulator in the aft airstair system to determine if the P/N is 1356-603399, 3780078-04, BACA11E4S, BACA11E4SA, 60857-4-1, or BACA11E4 (vendor P/N 2660472-4 or 2660472M4).
7. If any accumulator is determined to be P/N 1356-603399 or BACA11E4 (vendor P/N 2660472-4 or 2660472M4), in compliance with Requirement 6, replace existing accumulator clamps and mounting hardware with new, stronger accumulator clamps and mounting hardware, and replace the subject hydraulic accumulator with a new or modified accumulator in accordance with BSASB 727-52-0148 Revision 2, dated 24 January 2002.

Note 3: BSASB 727-52-0148 Revision 2, refers to Parker Service Bulletins 1356-603399-29-61 and 2660472-29-63, both dated 12 December 2000, as the appropriate sources of service information for modification of the hydraulic accumulators that are subject to replacement per BSASB 727-52-0148 Revision 2.

8. If any hydraulic accumulator is determined to be P/N 3780078-104, BACA11E4SA, or 60857-4-1, in compliance with Requirement 6, replace existing accumulator clamps and mounting hardware with new, stronger accumulator clamps and mounting hardware in accordance with BSASB 727-52-0148 Revision 2, dated 24 January 2002.

Hydraulic Accumulators not to be installed:

9. Hydraulic accumulators with P/N's referred to in Requirements 2, 4 and 7 may not be installed on any aircraft as a replacement part.

Alternative Means of Compliance:

Inspections and replacements accomplished before the effective date of this Directive per BSASB 727-29-0064, dated 8 June 2000, are considered acceptable for compliance with the corresponding action required by Requirements 1 and 2.

Note 4: FAA AD 2003-11-03 Amdt 39-13162 refers.

Compliance: For Requirements 1, 2, 3, 4, 5, 6, 7 and 8: Within 18 months or prior to exceeding 6,000 flight hours from the effective date of this Directive, whichever occurs sooner.

For Requirement 9: From the effective date of this Directive.

Boeing 727 Series Aeroplanes

AD/B727/185 (continued)

This Airworthiness Directive becomes effective on 4 September 2003.

Background: This Directive requires one-time inspections to determine the part numbers of hydraulic accumulators installed in various areas of the aeroplane and follow-on corrective actions as necessary. These actions are intended to prevent high-velocity separation of a barrel, piston or end cap from a hydraulic accumulator. Such separation could result in injury to personnel, loss of cabin pressurisation, loss of affected hydraulic systems or damage to plumbing, electrical installations or structural members.



Jim Coyne
Delegate of the Civil Aviation Safety Authority

25 July 2003