

AlliedSignal (Lycoming) Turbine Engines - ALF502 and LF507 Series

## AIRWORTHINESS DIRECTIVE

For the reasons set out in the background section, the CASA delegate whose signature appears below revokes Airworthiness Directive (AD) AD/ALF/16 and issues the following AD under subregulation 39.1 (1) of CAR 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.

**AD/ALF/16**  
**Amdt 1**

**Fan Core Inlet Anti-Ice System**

**7/2001**

Applicability: ALF502R series engines.

Requirement: Incorporate fan core inlet anti-ice system modifications in accordance with AlliedSignal Service Bulletin ALF/LF 72-1020, Revision 3, dated 19 January 2001.

*Note 1: Compliance with SB ALF/LF 72-1020, Revision 2, dated 30 September 1998, satisfies the intent of this amendment to the AD.*

*Note 2: FAA AD 99-15-06 refers.*

*Note 3: AD/BAe146/75 addresses the requirements when installing modified engines on BAe 146 series aircraft.*


Compliance: During any shop visit for scheduled hot section inspection, not to exceed 10,000 cycles in service after the effective date of this airworthiness directive, but no later than 31 December 2003.

This Amendment becomes effective on 12 July 2001.

Background: ALF502 engines installed on BAe146 aircraft are prone to a phenomenon known as "rollback" which is an uncommanded power reduction condition and loss of thrust control in certain icing conditions. There have been instances where simultaneous rollback occurred on multiple engines on the same aircraft.

This amendment references Revision 3 of SB ALF/LF 72-1020 that updates procedures and parts in universal Installation Kit, Part No. 2-203-930-05, detail part numbers.

The original issue of this Airworthiness Directive became effective on 4 November 1999.



Eugene Paul Holzapfel  
Delegate of the Civil Aviation Safety Authority

1 June 2001