



**Airworthiness
Directive**
D-2000-348R6

Luffahrt-Bundesamt
Airworthiness Directive Section
Hermann-Blenk-Str. 26
38108 Braunschweig
G E R M A N Y

This Airworthiness Directive supersedes the Airworthiness Directive 2000-348/5 of 06 March 2003

Rolls-Royce Deutschland

Effective Date: 31 March 2005

Affected:

Kind of aeronautical product: Engine
Manufacturer: Rolls-Royce Deutschland Ltd & Co KG, Dahlewitz, Germany
Type: BR700-710
Models affected: BR700-710A1-10 and BR700-710A2-20
Serial numbers affected: In accordance with Service Bulletin SB-BR700-72-900229 Rev. 6
German Type Certificate No.: 6305

Subject:

Engine - LP Compressor - Fan disc cracks (ATA 72)

Reason:

In service experience from the BR700-710 engine fleet has shown the possibility of fan disc cracks. Fan disc cracks can result in severe damage to the engine and potential hazard to the aircraft.

Action:

This Airworthiness Directive requires the following actions:

1. Inspection of the fan disc in accordance with Service Bulletin SB-BR700-72-900229 Rev. 6, all Part Numbers, except see Paras. 6 and 7.
2. Repeat inspection of the fan disc in accordance with Service Bulletin SB-BR700-72-900229 Rev. 6, all Part Numbers, except see Paras. 6 and 7.
3. Repeat visual or Ultrasonic inspection of the fan disc, Part Number BRR18803 or BRR19248.
4. Repeat visual or Ultrasonic inspection of the fan disc, Part Number BRR20791.
5. Repeat visual and Ultrasonic inspection of the fan disc, all Part Numbers.
6. Inspection of the fan disc in accordance with Service Bulletin SB-BR700-72-900229 Rev. 6, Para. 1. E. 3., only Part Number BRR20791, Engine Serial Numbers 11453 (BR700-710A1-10), 12353 (BR700-710A2-20) and all subsequent engines.
7. Inspection of the fan disc in accordance with Service Bulletin SB-BR700-72-900229 Rev. 6, Para. 1. E. 4., only Part Number BRR20791 with a JAA Form One certificate dated on or after January 01, 2002.

All necessary actions must be performed on the basis of Service Bulletin SB-BR700-72 900229 Rev. 6.

Note: Installation of changed design in accordance with Service Bulletin SB-BR700-72-900229 Rev. 6, Para. 1. E. 6., dated 23 February 2005, constitutes terminating action to the inspections required by this Airworthiness Directive.

Note: The residual inspection requirements for the fan disc following installation of changed design in accordance with Service Bulletin SB-BR700-72-900229 Rev. 6, Para. 1. E. 6., dated 23 February 2005, are instructed in the applicable Time Limits Manual.

Compliance:

For the mentioned actions the following compliance times have been laid down:

1. Latest within 25 flight cycles. For fan discs which have already demonstrated compliance with Issue 4 of this AD (AD 2000-348/4 dated December 21, 2001 and SB-BR700-72-900229 Rev. 3 dated July 12, 2001 respectively Rev. 4 dated December 20, 2001), latest within 25 flight cycles of the previous inspection.
2. Latest within 25 flight cycles of the previous inspection.

3. Latest within 75 flight cycles of the previous inspection.
Note: This is only applicable if an Ultrasonic inspection has been conducted during 1. or 2.
4. Latest within 150 flight cycles of the previous inspection.
Note: This is only applicable if an Ultrasonic inspection has been conducted during 1. or 2.
5. At every A-check.
6. Latest within 150 flight cycles since new.
7. Latest within 150 flight cycles since new.

Technical publication of the manufacturer:

Rolls-Royce Service Bulletin No. SB-BR700-72-900229 Rev. 6, dated 23 February 2005, becomes herewith part of this AD and may be obtained from Messrs.:

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EASA-Approval

Approved by EASA under Approval-No. 2005-2313 on 11 March 2005.