

TABLE 4.—BOMBARDIER SERVICE BULLETINS INCORPORATED BY REFERENCE

Bombardier Service Bulletins (including the Component Time Tracking Log Card and Attachments Listed in Table 5 of this AD)	Revision level	Date
600-0710 .....	01 .....	December 15, 2003.
601-0546 .....	01 .....	December 15, 2003.
604-32-014 .....	Original .....	May 31, 2002.

TABLE 5.—MESSIER-DOWTY SERVICE BULLETINS INCORPORATED BY REFERENCE

Messier-Dowty Service Bulletin (attachments)	Date	Attached to Bombardier Service Bulletin(s)—
M-DT SB104467009/010-32-1 .....	March 19, 2001 .....	600-0710, 601-0546
M-DT SB19090-32-4 .....	March 19, 2001 .....	604-32-014
M-DT SB20020-32-5 .....	July 12, 2001 .....	604-32-014
M-DT SB200814001-32-3 .....	March 19, 2001 .....	600-0710, 601-0546
M-DT SB200922001/2-32-6 .....	March 19, 2001 .....	600-0710
M-DT SB200924003/004-32-16 .....	July 12, 2001 .....	600-0710
M-DT SB6100-32-10 .....	March 19, 2001 .....	601-0546
M-DT SB6500-32-1 .....	March 19, 2001 .....	600-0710, 601-0546
M-DT SB7200-32-6 .....	March 19, 2001 .....	600-0710, 601-0546
M-DT SB7300-32-16 .....	July 12, 2001 .....	601-0546

TABLE 6.—CANADAIR TEMPORARY REVISIONS INCORPORATED BY REFERENCE

Canadair temporary revision	Date	Applicable Canadair time-limits/maintenance check manual	Manual section
5-116 .....	April 11, 2002 .....	PSP 605 .....	5-10-10
5-190 .....	April 11, 2002 .....	PSP 601-5 .....	5-10-10
5-191 .....	April 11, 2002 .....	PSP 601-5 .....	5-10-11
5-192 .....	April 11, 2002 .....	PSP 601-5 .....	5-10-12
5-2-6 .....	April 11, 2002 .....	CL-604 .....	5-10-12
5-204 .....	April 11, 2002 .....	PSP 601A-5 .....	5-10-10
5-205 .....	April 11, 2002 .....	PSP 601A-5 .....	5-10-11
5-206 .....	April 11, 2002 .....	PSP 601A-5 .....	5-10-12

Issued in Renton, Washington, on July 11, 2005.

Ali Bahrami,

Manager, Transport Airplane Directorate, Aircraft Certification Service.

[FR Doc. 05-14175 Filed 7-25-05; 8:45 am]

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. 2002-NE-40-AD; Amendment 39-14202; AD 2005-15-13]

RIN 2120-AA64

Airworthiness Directives; Rolls-Royce plc RB211-524 Series Turbofan Engines

AGENCY: Federal Aviation Administration (FAA), Department of Transportation (DOT).

ACTION: Final rule.

**SUMMARY:** The FAA is adopting a new airworthiness directive (AD) for Rolls Royce plc (RR) RB211-524 series turbofan engines with certain part number (P/N) intermediate pressure (IP) compressor stage 5 disks installed. This AD requires new reduced IP compressor stage 5 disk cyclic limits. This AD also requires removing from service affected disks that already exceed the new reduced cyclic limit, and removing other affected disks before exceeding their cyclic limits, using a drawdown schedule. This AD results from the discovery of cracks in the cooling air hole areas of the disk front spacer arm. We are issuing this AD to prevent IP compressor stage 5 disk failure, which could result in uncontained engine failure and possible damage to the airplane.

**DATES:** This AD becomes effective August 30, 2005. The Director of the Federal Register approved the incorporation by reference of certain publications listed in the regulations as of August 30, 2005.

**ADDRESSES:** You can get the service information identified in this AD from Rolls-Royce plc, P.O. Box 31 Derby, DE248BJ, United Kingdom; telephone 011-44-1332-242424; fax 011-44-1332-249936.

You may examine the AD docket at the FAA, New England Region, Office of the Regional Counsel, 12 New England Executive Park, Burlington, MA. You may examine the service information, at the FAA, New England Region, Office of the Regional Counsel, 12 New England Executive Park, Burlington, MA; or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: [http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html).

**FOR FURTHER INFORMATION CONTACT:** Ian Dargin, Aerospace Engineer, Engine Certification Office, FAA, Engine and Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803-

5299; telephone (781) 238-7178; fax (781) 238-7199.

**SUPPLEMENTARY INFORMATION:** The FAA proposed to amend 14 CFR part 39 with a proposed AD. The proposed AD applies to (RR) RB211-524 series turbofan engines with certain P/N IP compressor stage 5 disks installed. We published the proposed AD in the **Federal Register** on February 2, 2005 (70 FR 5390). That action proposed to require:

- Establishing new reduced IP compressor stage 5 disk cyclic limits.
- Removing from service affected disks that already exceed the new reduced cyclic limit.
- Removing other affected disks before exceeding their cyclic limits, using a drawdown schedule.
- Allowing optional inspections at each shop visit or an on-wing eddy current inspection to extend the disk life beyond the specified life.

**Examining the AD Docket**

You may examine the AD Docket (including any comments and service information), by appointment, between 8:00 a.m. and 4:30 p.m., Monday through Friday, except Federal holidays. See **ADDRESSES** for the location.

**Comments**

We provided the public the opportunity to participate in the development of this AD. We received no comments on the proposal or on the determination of the cost to the public.

**Conclusion**

We have carefully reviewed the available data and determined that air safety and the public interest require adopting the AD as proposed.

**Costs of Compliance**

There are about 939 RR RB211-524 series turbofan engines of the affected design in the worldwide fleet. We estimate that this AD will affect about 35 engines installed on airplanes of U.S. registry. We also estimate that it will

take about 8 work hours per engine to perform an inspection, and 300 work hours per engine to replace an IP compressor stage 5 disk. The average labor rate is \$65 per work hour. Required parts will cost about \$49,000 per engine. Based on these figures, we estimate the total cost of the AD to U.S. operators to be \$2,415,700.

**Authority for This Rulemaking**

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, Section 106, describes the authority of the FAA Administrator. Subtitle VII, Aviation Programs, describes in more detail the scope of the Agency's authority.

We are issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701, "General requirements." Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

**Regulatory Findings**

We have determined that this AD will not have federalism implications under Executive Order 13132. This AD will not have a substantial direct effect on the States, on the relationship between the National Government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify that this AD:

- (1) Is not a "significant regulatory action" under Executive Order 12866;
- (2) Is not a "significant rule" under DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979); and

(3) Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

We prepared a summary of the costs to comply with this AD and placed it in the AD Docket. You may get a copy of this summary by sending a request to us at the address listed under **ADDRESSES**. Include "AD Docket No. 2002-NE-40-AD" in your request.

**List of Subjects in 14 CFR Part 39**

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

**Adoption of the Amendment**

■ Accordingly, under the authority delegated to me by the Administrator, the Federal Aviation Administration amends 14 CFR part 39 as follows:

**PART 39—AIRWORTHINESS DIRECTIVES**

■ 1. The authority citation for part 39 continues to read as follows:

**Authority:** 49 U.S.C. 106(g), 40113, 44701.

**§ 39.13 [Amended]**

■ 2. The FAA amends § 39.13 by adding the following new airworthiness directive:

**2005-15-13 Rolls-Royce plc:** Amendment 39-14202. Docket No. 2002-NE-40-AD.

**Effective Date**

(a) This airworthiness directive (AD) becomes effective August 30, 2005.

**Affected ADs**

(b) None.

**Applicability**

(c) This AD applies to the Rolls-Royce plc (RR) RB211-524 series turbofan engines listed in the following Table 1, with intermediate pressure (IP) compressor stage 5 disk part numbers (P/Ns) listed in Table 2 of this AD, installed.

TABLE 1.—ENGINE MODELS AFFECTED

- 524B-02 - 524B2-19 - 524D4-B-19 - 524G2-19 - 524H2-T-19	- 524B-B-02 - 524B2-B-19 - 524D4X-19 - 524G2-T-19 - 524H-36	- 524B3-02 - 524C2-19 - 524D4X-B-19 - 524G3-19 - 524H-T-36	- 524B4-02 - 524C2-B-19 - 524D4-39 - 524G3-T-19	- 524B4-D-02 - 524D4-19 - 524D4-B-39 - 524H2-19
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These engines are installed on, but not limited to, Boeing 747, 767, and Lockheed L-1011 airplanes.

TABLE 2.—IP COMPRESSOR STAGE 5 DISK P/NS AFFECTED

LK60130	LK65932	LK69021	LK81269	LK83282
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TABLE 2.—IP COMPRESSOR STAGE 5 DISK P/NS AFFECTED—Continued

LK83283	UL12290	UL15743	UL15744	UL15745
UL19132	UL20785	UL20832	UL23291	UL25011
UL36821	UL36977	UL36978	UL36979	UL36980
UL36981	UL36982	UL36983	UL37078	UL37079
UL37080	UL37081	UL37082	UL37083	UL37084

**Unsafe Condition**

(d) This AD results from discovery of cracks in the cooling air hole areas of the disk front spacer arm. The actions specified in this AD are intended to prevent IP compressor stage 5 disk failure, which could

result in uncontained engine failure and possible damage to the airplane.

**Compliance**

(e) You are responsible for having the actions required by this AD performed within the compliance times specified unless the actions have already been done.

**Cycle Limits**

(f) Change the service cyclic limits contained in the Time Limits Manual, 05–10–01, for the IP compressor stage 5 discs installed in the engine models listed in the following Table 3, within 30 days after the effective date of this AD.

TABLE 3.—CYCLIC LIFE LIMITS WITHOUT QUALIFYING MAGNETIC PARTICLE INSPECTION (MPI) OR EDDY CURRENT INSPECTION (ECI)

Date of reduced life limit	Engine models			
	–524G2, G2–T, G3, G3–T, H2, H2–T, H–36, H–T–36	–524D4, D4–B, D4–B–39, D4X, D4X–B, D4–39 CIS	–524B2, B2–B, C2, C2–B CIS	–524B–02, B–B–02, B3–02, B4–02, B4–D–02 CIS
November 30, 2002 .....	13,500 cycles-in-service (CIS) .....	16,150	16,000	16,200
April 1, 2003 .....	13,500 CIS .....	13,500	13,500	14,000
December 1, 2003 .....	12,000 CIS .....	13,500	13,500	14,000
December 1, 2004 .....	11,000 CIS .....	13,500	12,000	12,000
December 1, 2005 .....	11,000 CIS .....	12,000	12,000	12,000
December 1, 2008 .....	7,830 CIS .....	8,700	8,900	9,000

**Optional Inspections**

(g) Before December 1, 2008, optional inspections are allowed at each shop visit or on-wing to extend the disk life. Guidance for these inspections is provided in paragraphs (h) or (i) of this AD.

**Optional Inspections at Shop Visit**

(h) Perform optional inspections at shop visit, as follows:

(1) Remove corrosion protection from IP stage 5 disk. Information on corrosion protection removal can be found in the Engine Manual.

(2) Visual-inspect and binocular-inspect the IP stage 5 disk for corrosion pitting at the cooling air holes and defender holes in the disk front spacer arm. Follow paragraph 3.C. of the Accomplishment Instructions of RR MSB No. RB.211–72–D428, Revision 3, dated June 30, 2003. Information on disk corrosion pitting limits can be found in the Engine Manual.

(i) If the disk has corrosion pitting in excess of limits, remove the disk from service.

(ii) If the disk is free from corrosion pitting, MPI the entire disk. Information on MPI can be found in the Engine Manual. If the disk

passes MPI and no cracks are found, complete all other inspections, re-apply corrosion protection to disk, and return the disk to service in accordance with the cyclic limits allowed by paragraph (k) of this AD. Information on MPI limits can be found in the Engine Manual. Information on re-applying corrosion protection can be found in RR Repair FRS5900.

(iii) If the disk has corrosion pitting within limits, ECI all disk cooling air holes, defender holes, and inner and outer faces. Follow paragraph 3.D. of the Accomplishment Instructions of RR MSB No. RB.211–72–D428, Revision 3, dated June 30, 2003. Information on corrosion pitting limits can be found in the Engine Manual. If the disk passes ECI and no cracks are found, MPI the entire disk. Information on MPI can be found in the Engine Manual. If the disk passes MPI and no cracks are found, re-apply corrosion protection to disk, and return the disk to service in accordance with the cyclic limits allowed by paragraph (k) of this AD.

**Optional On-Wing EC Inspections**

(i) For RB211–524B2/C2 and RB211–524B4/D4 engine models, an on-wing ECI of the IP compressor stage 5 disk may be

performed only once between shop visit inspections. Follow paragraphs 3.A. through 3.F. of the Accomplishment Instructions of RR SB No. RB.211–72–E148, dated March 13, 2003, and RR SB No. RB.211–72–E150, Revision 1, dated June 4, 2003, respectively, to do the ECI. If the disk passes the ECI and no cracks are found, an extension is allowed as specified in paragraph (k) of this AD.

**Definition of Shop Visit**

(j) For the purposes of this AD, a shop visit is defined as the separation of an engine major case flange. This definition excludes shop visits when only field maintenance type activities are performed in lieu of performing them on-wing. (i.e., for purposes such as to perform an on-wing inspection of a tail engine installation on a Lockheed L–1011 airplane).

**Cyclic Life Extension**

(k) Disks that pass an optional inspection may remain in service after that inspection for the additional cycles listed in the following Table 4, until the next inspection, or December 1, 2008, or until the cyclic life limit published in the Time Limits Manual is reached, whichever occurs first.

TABLE 4.—CYCLIC LIFE EXTENSION

Engine models	-524G2, G2-T, G3, G3-T, H2, H2-T, H-36, H-T-36 (cycles)	-524D4, D4-B, D4-B-39, D4X, D4X-B, D4-39 (cycles)	-524B2, B2-B, C2, C2-B (cycles)	-524B-02, B-B-02, B3-02, B4-02, B4-D-02 (cycles)
Extension After Passing MPI	1,600	2,000	2,000	2,000
Extension After Passin In-Shop ECI	3,800	4,500	4,500	4,500
Extension After Passing On-Wing ECI	1,000	1,200	1,200	1,200

**Disks That Have Been Intermixed Between Engine Models**

(l) Information on intermixing disks between engine models can be found in the RR Time Limits Manual, 05-00-01.

**Alternative Methods of Compliance**

(m) The Manager, Engine Certification Office, has the authority to approve alternative methods of compliance for this AD if requested using the procedures found in 14 CFR 39.19.

**Credit for Previous Inspections**

(n) Inspections done using RR SB No. RB.211-72-E150, dated April 17, 2003 are acceptable in meeting the requirements of this AD.

**Reporting Requirement**

(o) Report findings of all inspections of the IP stage 5 disk using paragraph 3.B.(2) of the Accomplishment Instructions of RR ASB RB.211-72-D428, Revision 3, dated June 30, 2003. The Office of Management and Budget (OMB) has approved the reporting requirements specified in Paragraph 3.B. of the Accomplishment Instructions of RR ASB RB.211-72-D428, Revision 3, dated June 30, 2003, and assigned OMB control number 2120-0056.

**Material Incorporated by Reference**

(p) You must use Rolls-Royce plc Service Bulletins listed in Table 5 of this AD to perform the actions required by this AD. The

Director of the Federal Register approved the incorporation by reference of this service bulletin in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. You can get a copy from Rolls-Royce plc, P.O. Box 31 Derby, DE248BJ, United Kingdom; telephone 011-44-1332-242424; fax 011-44-1332-249936. You can review copies by appointment, at the FAA, New England Region, Office of the Regional Counsel, 12 New England Executive Park, Burlington, MA; or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: [http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html).

TABLE 5.—INCORPORATION BY REFERENCE

Service bulletin	Page number shown on the page	Revision	Date shown on the page
RB.211-72-D428, including Appendices 1 through 4, dated June 30, 2003	All	3	June 30, 2003.
RB.211-72-E148 Total Pages—83	All	Original	March 13, 2003.
RB.211-72-E150 Total Pages—72	All	1	June 4, 2003.

**Related Information**

(q) CAA airworthiness directive 006-04-2002, dated April 2002, also addresses the subject of this AD.

Issued in Burlington, Massachusetts, on July 18, 2005.

**Francis A. Favara,**

*Acting Manager, Engine and Propeller Directorate, Aircraft Certification Service.*

[FR Doc. 05-14576 Filed 7-25-05; 8:45 am]

**BILLING CODE 4910-13-P**

**DEPARTMENT OF TRANSPORTATION**

**Federal Aviation Administration**

**14 CFR Part 97**

[Docket No. 30451; Amdt. No. 3127]

**Standard Instrument Approach Procedures, Weather Takeoff Minimums; Miscellaneous Amendments**

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Final rule.

**SUMMARY:** This amendment establishes, amends, suspends, or revokes Standard Instrument Approach Procedures (SIAPs) and/or Weather Takeoff Minimums for operations at certain airports. These regulatory actions are needed because of the adoption of new or revised criteria, or because of changes occurring in the National Airspace System, such as the commissioning of new navigational facilities, addition of new obstacles, or changes in air traffic requirements. These changes are designed to provide safe and efficient use of the navigable airspace and to promote safe flight operations under instrument flight rules at the affected airports.

**DATES:** This rule is effective July 26, 2005. The compliance date for each SIAP and/or Weather Takeoff Minimums is specified in the amendatory provisions.

The incorporation by reference of certain publications listed in the regulations is approved by the Director of the Federal Register as of July 26, 2005.

**ADDRESSES:** Availability of matters incorporated by reference in the amendment is as follows:

*For Examination—*

1. FAA Rules Docket, FAA Headquarters Building, 800 Independence Avenue, SW., Washington, DC 20591;
2. The FAA Regional Office of the region in which the affected airport is located;
3. The National Flight Procedures Office, 6500 South MacArthur Blvd., Oklahoma City, OK 73169 or,
4. The National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: [http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html).

*For Purchase—*Individual SIAP and Weather Takeoff Minimums copies may be obtained from:

1. FAA Public Inquiry Center (APA-200), FAA Headquarters Building, 800 Independence Avenue, SW., Washington, DC 20591; or