



CIVIL AVIATION AUTHORITY  
CZECH REPUBLIC  
Airworthiness Division  
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## AIRWORTHINESS DIRECTIVE

**Number: CAA-AD-066/2004**

Date of issue: July 15, 2004

**Rolls-Royce Corporation (formerly  
Allison Engine Company, Allison Gas  
Turbine Division, Detroit Diesel Allison)  
250-C28, -C28B, -C28C**

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*This AD has been issued in accordance with Decision No.: 2/2003 of the Executive Director of the EASA (ADs issued by the state of design are automatically adopted in EU member states).*

### ENGINE – THIRD STAGE TURBINE WHEELS – CHANGE

**Applicability:** This AD applies to Rolls-Royce Corporation (formerly Allison Engine Company, Allison Gas Turbine Division, and Detroit Diesel Allison) (RRC) models 250-C28, -C28B, and -C28C turboshaft engines with third-stage turbine wheels, part number (P/N) 6899383, listed by serial number (SN) in Table 1 FAA AD 2004-14-02.

These engines are installed on, but not limited to, Bell Helicopter Textron 206L-1; Eurocopter Deutschland BO 105 LS A-1; and Eurocopter Canada BO 105 LS A-3 helicopters.

**Effective date:** July 26, 2004

**Compliance:** Required as indicated in FAA AD 2004-14-02.

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*Remarks: The compliance of this AD must be recorded in Engine Logbook, where applicable the requirements of this AD must be integrated into Aircraft Technical Documentation. Address inquiries concerning this AD to: Civil Aviation Authority, Airworthiness Division, Ruzyně Airport, 160 08 Prague 6, Czech Republic, tel: 420 233320922, fax: 420 220562270.*

**Ing. Pavel MATOUŠEK**  
director

**2004-14-02 Rolls-Royce Corporation** (formerly Allison Engine Company, Allison Gas Turbine Division, and Detroit Diesel Allison): Amendment 39-13711. Docket No. FAA-2004-18538; Directorate Identifier 2004-NE- 29-AD.

**Effective Date**

(a) This airworthiness directive (AD) becomes effective July 26, 2004.

**Affected ADs**

(b) None.

**Applicability**

(c) This AD applies to Rolls-Royce Corporation (formerly Allison Engine Company, Allison Gas Turbine Division, and Detroit Diesel Allison) (RRC) models 250-C28, -C28B, and -C28C turboshaft engines with third-stage turbine wheels, part number (P/N) 6899383, listed by serial number (SN) in the following Table 1:

Table 1.--SNs of Affected Third Stage Turbine Wheels

HX91922	X523242	X523281
HX91923	X523243	X523283
HX91925	X523244	X523284
HX91926	X523246	X523287
HX91928	X523249	X523288
HX91929	X523250	X523289
HX91930	X523251	X523290
HX91932	X523253	X523291
HX91934	X523255	X523292
HX91936	X523257	X523293
HX91937	X523260	X523294
HX91939	X523261	X523295
HX91940	X523262	X523296
HX91960	X523263	X523297
HX91962	X523264	X523298
HX91966	X523265	X523300
HX91976	X523266	X523305
HX91977	X523268	X523309
HX91979	X523269	X523313
HX91980	X523270	X523315
X523236	X523271	X523317
X523237	X523273	X523319
X523238	X523276	X523320
X523239	X523277	N/A
X523241	X523278	N/A

These engines are installed on, but not limited to, Bell Helicopter Textron 206L-1; Eurocopter Deutschland BO 105 LS A-1; and Eurocopter Canada BO 105 LS A-3 helicopters.

### **Unsafe Condition**

(d) This AD results from three reports of third-stage turbine wheel blade and shroud failures. We are issuing this AD to prevent loss of power and uncommanded engine shutdown due to failure of the third-stage turbine wheel blade and shroud.

### **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.

(f) For any third-stage turbine wheel with fewer than 250 operating hours time since new (TSN) on the effective date of this AD, replace turbine wheel before accumulating 300 operating hours TSN.

(g) For any third-stage turbine wheel with 250 or more operating hours TSN on the effective date of this AD, replace turbine wheel before accumulating an additional 50 operating hours.

### **Definition**

(h) For the purposes of this AD, a replacement third-stage turbine wheel is a turbine wheel that does not have a SN listed in this AD.

(i) After the effective date of this AD, do not install third-stage turbine wheels that are listed in Table 1 of this AD, into any engine.

### **Alternative Methods of Compliance**

(j) The Manager, Chicago Aircraft 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.

### **Special Flight Permits**

(k) Under 14 CFR 39.23, we are prohibiting special flight permits for this AD.

### **Material Incorporated by Reference**

(l) None.

### **Related Information**

(m) Rolls-Royce Corporation Alert Commercial Engine Bulletin No. CEB-A-72-2202, dated May 6, 2004, pertains to the subject of this AD.

### **Footer Information**

Issued in Burlington, Massachusetts, on July 1, 2004.  
Francis A Favara,  
Acting Manager, Engine and Propeller Directorate,  
Aircraft Certification Service.  
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