
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.

Allison Turbine Engines - 250 Series**AD/AL 250/83****Third-Stage Turbine Wheels****10/2004**

Applicability: Rolls-Royce Corporation (formerly Allison Engine Company), 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 of this Directive:

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

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HX91976	X523266	X523305
HX91977	X523268	X523309
HX91979	X523269	X523313
HX91980	X523270	X523315
X523236	X523271	X523317
X523237	X523273	X523319
X523238	X523276	X523320
X523239	X523277	
X523241	X523278	

Note 1: 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.

- Requirement:
1. Replace the third-stage turbine wheel with a turbine wheel not listed in Table 1 of this Directive.
 2. Do not install third- stage turbine wheels that are listed in Table 1 of this AD, into any engine.

Note 2: FAA AD 2004-14-02 Amdt 39-13711 refers.

Compliance: For Requirement 1: For third-stage turbine wheels with less than 250 operating hours time since new (TSN) on the effective date of this Directive, before accumulating 300 operating hours TSN.

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

For Requirement 2: From the effective date of this Directive.

This Airworthiness Directive becomes effective on 30 September 2004.

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AD/AL 250/83 (continued)

Background: This Directive results from three reports of third-stage turbine wheel blade and shroud failures. The issue of this Directive is to prevent loss of power and uncommanded engine shutdown due to failure of the third-stage turbine wheel blade and shroud.

A handwritten signature in black ink, appearing to read 'Gary Carr', is positioned above the printed name and title.

Gary J Carr
Delegate of the Civil Aviation Safety Authority

5 August 2004