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| No. | CF-2002-33 | 1/2 |
| Issue Date | 4 July 2002 | |

AIRWORTHINESS DIRECTIVE

The following airworthiness directive (AD) may be applicable to an aircraft which our records indicate is registered in your name. ADs are issued pursuant to **Canadian Aviation Regulation (CAR) 593**. Pursuant to **CAR 605.84** and the further details of **CAR Standard 625, Appendix H**, the continuing airworthiness of a Canadian registered aircraft is contingent upon compliance with all applicable ADs. Failure to comply with the requirements of an AD may invalidate the flight authorization of the aircraft. Alternative means of compliance shall be applied for in accordance with **CAR 605.84** and the above-referenced **Standard**.

This AD has been issued by the Continuing Airworthiness Division (AARDG), Aircraft Certification Branch, Transport Canada, Ottawa, telephone (613) 952-4357.

Number: CF-2002-33

Subject: Bell 222, 222B, 222U and 230 – Main Rotor Pendulum Weight Support

Effective: 2 August 2002

Applicability: Bell Helicopter Textron Canada (BHTC) Model helicopters:

- 222 S/N 47006 through 47089,
- 222B S/N 47131 through 47156,
- 222U S/N 47501 through 47574 and
- 230 S/N 23001 through 23038

equipped with pendulum supports P/N 222-011-114-101 and -103, excluding those with serial numbers FN-363 and up.

Compliance: Within the next 50 hours air time after the effective date of this directive, unless already accomplished.

Background: It was determined that the main rotor pendulum weight supports P/N 222-011-114-101 and -103, could have manufacturing discrepancies like file or grinding marks, gouges or too small edge radius.

This part, if not reworked or replaced, could fail in flight. BHTC has issued a series of Alert Service Bulletins to provide instructions for reworking the pendulum weight support.

- Corrective Actions:**
1. Remove pendulum weight sets and supports from the main rotor hub assembly.
 2. Using a radius gauge, inspect all edges created by machining operations to verify the approximate edge break of 0.02 to 0.04 inch radius or 0.02 to 0.04 inch x 45-degree chamfer.
 3. Using a surface roughness scale, inspect all edges for a surface finish of 63 RMS or less. No file marks or gouges are permitted.
 4. If required, perform a rework (polishing) in accordance with procedures provided in the applicable Alert Service Bulletin dated 28 March 2002, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

| Helicopter Model | Alert Service Bulletin |
|-------------------------|-------------------------------|
| 222 and 222B | 222-02-92 |
| 222U | 222U-02-63 |
| 230 | 230-02-25 |

Authorization: For Minister of Transport



for B. Goyaniuk
Chief, Continuing Airworthiness

Contact: Mr. Bogdan Gajewski, Continuing Airworthiness, Ottawa, telephone (613) 952-4450, facsimile (613) 996-9178 or e-mail gajewsb@tc.gc.ca or any Transport Canada Centre.