



Transport
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No. CF-91-35

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.

CF-91-35 BELL

Applies to all Bell Helicopter Textron Inc. (Bell) Model 206A, 206B and 206BIII helicopters.

Compliance is required as follows:

Part A: Once, prior to the next 100-hour inspection.

Part B: Initially, during the next 100-hour inspection; and at each annual inspection thereafter.

The cabin roof boxbeam assembly (P/N 206-031-200-all dash numbers) is a primary load bearing member subject to fatigue. Boxbeams for 206 Series helicopters have been fabricated or repaired by an unknown number of aircraft maintenance organizations. In some cases original Bell parts have been used, but their fabrication into a boxbeam assembly was not in accordance with approved or specified data. The subject boxbeams may be considered airworthy only if demonstrated to be free of defects by accomplishment of repetitive inspections.

The Bell Component Repair and Overhaul Manual and the Structural Repair Manual do not permit or authorize repair, rebuild, or remanufacture of the boxbeam without engineering approval. Therefore, any repair of the boxbeam assembly is considered to be a major repair and must be approved by either Transport Canada (TC), an Airworthiness Engineering Organization (AEO), Design Approval Organization (DAO), Design Approval Representative (DAR) or by the FAA equivalent.

To ensure the integrity of the cabin roof boxbeam, accomplish the following:

Part A:

Inspect the helicopter records to determine if the boxbeam assembly has been replaced or repaired.

1. No further action is required, other than to record the accomplishment of this directive in the helicopter records, if:

- (a) The boxbeam has not been replaced or repaired; or
- (b) The boxbeam has been replaced by an assembly completely fabricated by Bell; or
- (c) The boxbeam has been replaced or repaired by either Bell or with the required engineering approval.

2. Accomplish Part B of this directive, if the boxbeam assembly has been replaced or repaired without a clear statement of the required engineering approval status.

NOTES: 1. If necessary, contact the responsible repair organization for confirmation of the engineering approval status regarding the boxbeam replacement or repair.

2. A Bell or Transport Canada approval of a repair station does not by itself include a delegated engineering approval.

Part B:

Perform a close visual and "tap hammer" inspection of the cabin roof boxbeam web and doubler for cracks, debonding and general soundness between fuselage stations 80.00 and 130.00. "Tap hammer" inspection is required in bonded areas only.

All cabin roof boxbeams showing signs of debonding, deformation or cracking are to be removed from service and a Service Difficulty Report is to be submitted to the applicable regional airworthiness office.

Alternative means of compliance with the requirements of this directive may be used only if approved by the Director, Airworthiness Branch, Transport Canada, Ottawa. Any application should be made to the appropriate regional office.

This directive becomes effective 4 November 1991.

Pursuant to CAR 202.51 the registered owner of a Canadian aircraft shall, within seven days, notify the Minister in writing of any change of his or her name or address. To request a change of address, contact the Civil Aviation Communications Centre (AARC) at Place de Ville, Ottawa, Ontario K1A 0N8, or 1-800-305-2059, or <http://www.tc.gc.ca/civilaviation/communications/centre/address.asp>.

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