



AIRWORTHINESS DIRECTIVE

This Airworthiness Directive (AD) is issued pursuant to Canadian Aviation Regulation (CAR) 521.427. No person shall conduct a take-off or permit a take-off to be conducted in an aircraft that is in their legal custody and control, unless the requirements of CAR 605.84 pertaining to ADs are met. Standard 625 - Aircraft Equipment and Maintenance Standards Appendix H provides information concerning alternative means of compliance (AMOC) with ADs.

Number:

CF-2025-34

Effective Date:

17 July 2025

ATA:

64

Type Certificate:

H-112

Subject:

Tail Rotor – Tail Rotor Pitch Link Assembly Improper Washer Installation

Applicability:

Bell Textron Canada Limited (Bell) model 505 helicopters, serial numbers 65464, 65465, 65467 through 65471, 65473, 65477, 65481, 65483, 65485, 65487 through 65489, 65517, 65553, 65571, 65572, 65575, and 65578.

Compliance:

As indicated below, unless already accomplished.

Background:

Bell has discovered a quality escape in the production installation of the tail rotor pitch link assemblies. A washer was installed in the wrong location and, if not corrected, can cause fracture of the pitch horn stud due to fatigue or when the rotor blade exceeds the travel during certain control inputs and blade flapping angles. Fracture of one or both studs will result in loss of directional control of the helicopter.

Bell has published Alert Service Bulletin (ASB) 505-24-42, original issue, dated 1 October 2024, incorporating a one-time inspection of the tail rotor pitch link assemblies for proper installation of the 206-010-795-105 washer. If the washer is improperly installed, the pitch link and washer are removed and reassembled in the correct order, unless there is evidence of contact between the pitch link and either the conical washer or the tail rotor blade pitch horn, in which case the affected parts are replaced. This AD is issued to mandate the corrective actions of the ASB.

Corrective Actions:

For the purpose of this AD, the following definition applies:

The applicable ASB: Bell ASB 505-24-42 Basic issue, dated 1 October 2024, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Within 100 hours air time from the effective date of this AD:

1. Perform a one-time inspection of the tail rotor pitch link assembly installation in accordance with Part I of the applicable ASB.
2. If any signs of contact are present between the pitch link assembly and either the conical washer or pitch horn assembly, before further flight, remove and replace the tail rotor pitch link assembly, tail rotor blade pitch horn, packings, and conical washer in accordance with Part II of the applicable ASB.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 3 July 2025

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