

**ALERT SERVICE BULLETIN**  
**Bell Helicopter** **TEXTRON**

A Subsidiary of Textron Inc.

NO. 430-06-37

DATE MAR 13, 2006

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DATE

REV

**MODEL AFFECTED:** 430

**SUBJECT:** REVISED ENGINE POWER ASSURANCE CHECK PROCEDURES AND REVISED RUN-IN TEST PROCEDURE FOR OVERHAULED TRANSMISSION, INTRODUCTION OF

**HELICOPTERS AFFECTED:** All model 430 helicopters

**COMPLIANCE:** Upon receipt of this bulletin

**DESCRIPTION:**

Since the release of ASB 430-05-34 Bell Helicopter has been advised that while carrying out engine power assurance checks, the power turbine (Np) RPM indication on the non-testing engine is within the steady state operation avoidance range.

This bulletin introduces a Flight Manual revision with new power assurance check procedures to avoid engine operation in the power turbine (Np) avoidance range. The actual power assurance charts remain unchanged.

The transmission run-in and test procedures following a main transmission overhaul are also revised to avoid operation in the power turbine (Np) RPM operation avoidance range. A revision to the BHT-430-CR&O is introduced by this bulletin.

**APPROVAL:**

The engineering design aspects of this bulletin are Transport Canada Civil Aviation (TCCA) approved.

**MANPOWER:**

No additional man-hours are required to complete this bulletin.

**WARRANTY:**

Warranty does not apply to this bulletin.

**MATERIAL:**

None required

**SPECIAL TOOLS:**

None required

**WEIGHT AND BALANCE:**

Not affected

**ELECTRICAL LOAD DATA:**

Not affected

**REFERENCES:**

BHT-430-FM Flight Manual

BHT-430-CR&O-2 Component Repair and Overhaul

**PUBLICATIONS AFFECTED:**

BHT-430-FM Flight Manual

BHT-430-CR&O-2 Component Repair and Overhaul

**ACCOMPLISHMENT INSTRUCTIONS:**

1. Insert the BHT-430-FM-1 Revision 16 Dated December 22, 2005 in the helicopter Flight Manual.

2. If the helicopter is equipped with the Particle Separator Kit P/N 230-706-501-ALL, insert the BHT-430-FMS-11 revision 1 Dated February 13, 2006 in the helicopter Flight Manual.
3. If the helicopter is equipped with the Snow Deflector Kit P/N 230-706-502-ALL, insert the BHT-430-FMS-20 revision 1 Dated February 13, 2006 in the helicopter Flight Manual.
4. Insert the BHT-430-CR&O Revision 3 Dated December 22, 2005 into the BHT-430-CR&O-2.
5. Annotate the helicopter records to reflect compliance with this bulletin.