

**ALERT SERVICE BULLETIN**

REVISION NOTICE

**Bell Helicopter** **TEXTRON**

A Subsidiary of Textron Inc.

DATE March 15, 2006

TO: **All Owners/Operators of Bell 222 and 222B Helicopters**

SUBJECT: **REVISION B TO ALERT SERVICE BULLETIN 222-04-101 TAIL ROTOR  
COUNTERWEIGHT BELLCRANK P/N 222-012-727-105, INSPECTION AND RECALL  
OF**

Revision "B" to this bulletin is issued to extend the compliance date from March 31, 2006 to December 31, 2006.

AN APPROPRIATE ENTRY SHOULD BE MADE IN THE AIRCRAFT LOGBOOK UPON ACCOMPLISHMENT  
IF OWNERSHIP OF AIRCRAFT HAS CHANGED PLEASE FORWARD TO NEW OWNER

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

A Subsidiary of Textron Inc.

NO. 222-04-101

DATE Oct 12, 04

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DATE MAR 15, 2006

REV B

**MODEL AFFECTED:** 222 and 222B

**SUBJECT:** TAIL ROTOR COUNTERWEIGHT BELLCRANK  
P/N 222-012-727-105, INSPECTION AND RECALL  
OF

**HELICOPTERS AFFECTED:** Model 222 helicopters serial number 47006  
through 47089 and all spare bellcranks.  
Model 222B helicopters serial number 47131  
through 47156 and all spare bellcranks.

**COMPLIANCE:** **PART I:** Within 10 flight hours following the receipt  
of this bulletin and each 50 hour of operation  
thereafter.

**PART II:** As soon as possible following receipt of  
this bulletin but no later than December 31, 2006

B

**DESCRIPTION:**

Bell Helicopter released ASB 222-04-99 on August 09 2004, advising customers to  
remove from service tail rotor counterweight bellcrank P/N 222-012-727-003.

Reports have been received of replacement parts P/N 222-012-727-105 having  
oversize bearing bore as well as incorrectly applied cadmium plating.

Part I of this bulletin introduced a repetitive 50 hour inspection of all installed 222-012-  
727-105 bellcranks identified with no prefix letters before the serial number. This  
inspection requirement is/will be valid until all bellcranks 222-012-727-105 without  
prefix letters before the serial number are removed from service.

Part II of this bulletin recalls all counterweight bellcranks 222-012-727-105 without  
prefix letters before the serial number.

Installation of bellcranks 222-012-727-105 with two (2) prefix letters scribed on the  
part before the serial number cancels the 50 hour inspection requirement per PART I  
of this bulletin.

**APPROVAL:**

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

**MANPOWER:**

Approximately 1.0 man-hour is required to complete Part I of this bulletin.  
Approximately 2.0 man-hours are required to complete Part II of this bulletin.  
Man-hours are based on hands-on time, and may vary with personnel and facilities available.

**WARRANTY:**

Refer to Alert Service Bulletin 222-04-99

**MATERIAL:**

Part I: None required

Part II: Refer to ASB 222-04-99 for Material required.

**Consumable Material:**

None required

**SPECIAL TOOLS:**

None required

**WEIGHT AND BALANCE:**

Not Affected

**ELECTRICAL LOAD DATA:**

Not affected

**REFERENCES:**

BHT-222/222B-MM-1, Chapter 65

BHT-222-CR&O-3, Chapter 64

Alert Service Bulletin 222-04-99

Information Letter 222-03-18 Tail Rotor Counterweight Bellcrank

Information Letter 222-04-19 Rev. A Tail Rotor Counterweight Bellcrank

**PUBLICATIONS AFFECTED:**

None affected

**ACCOMPLISHMENT INSTRUCTIONS:**

**PART I: INSPECTION OF TAIL ROTOR COUNTERWEIGHT BELLCRANK P/N 222-012-727-105**

**-NOTE-**

This inspection is required for all 222-012-727-105 bellcranks with no prefix letters before the serial number. Refer to Information letter 222-04-19 Rev. A for additional details.

Accomplish the inspection of 222-012-727-105 bellcrank as follows:

1. Disconnect tail rotor counterweight link 222-012-711-107 from support 222-012-730-003. Refer to BHT-222-CR&O-3, Chapter 64.
2. Check counterweight bellcrank installation for looseness and bearing roughness by rotating the bellcrank while applying a load to the bearing set P/N 222-312-718-001 in both axial and radial directions. Bearing axial play should not exceed 0.015 inch. Refer to BHT-222-CR&O-3. No looseness allowed between bearing set and bellcrank. Replace parts as required.
3. Reconnect the tail rotor counterweight link 222-012-711-107 to support 222-012-730-003. Refer to BHT-222-CR&O-3, Chapter 64.
4. Annotate aircraft records to reflect compliance with Part I of this bulletin.

**PART II: RECALL OF TAIL ROTOR COUNTERWEIGHT BELLCRANK P/N 222-012-727-105**

All counterweight bellcranks 222-012-727-105 without prefix letters before the serial number must be removed from service.

1. Remove existing bellcranks P/N 222-012-727-105 without prefix letters before the serial number from tail rotor pitch change mechanism. Refer to BHT-222-CR&O-3, Chapter 64. Discard/scrap bellcranks and bearing sets. Retain remaining parts for reassembly.
2. Install new bellcranks P/N 222-012-727-105 with two (2) prefix letters scribed on the part before the serial number on tail rotor pitch change mechanism. Refer to BHT-222-CR&O-3, Chapter 64.

3. Remove from spare inventory all bellcranks P/N 222-012-727-105 without prefix letters before the serial number. Discard/scrap bellcranks.
4. Annotate aircraft records to reflect compliance with Part II of this bulletin.