

ALERT SERVICE BULLETIN



A Textron Company

NO. 407-09-88

DATE April 07, 2009

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| DATE |
| REV |

MODEL AFFECTED: 407

SUBJECT: STAKED BEARINGS, ONE-TIME INSPECTION OF.

HELICOPTERS AFFECTED: Model 407 helicopters serial number 53000 through 53887, 53890 through 53916, 53918, 53920, 53921, 53923 through 53926, 53928 and all spares.

Model 407 helicopters serial numbers 53888, 53889, 53917, 53919, 53922, 53927, 53929 and subsequent will have the intent of this bulletin accomplished prior to delivery.

Spare parts delivered after the release of this bulletin are not affected.

COMPLIANCE: Part I: Within the next 10 flight-hours or 30 days, whichever comes first, and all spares.

Part II: Within the next 300 flight-hours or 12 months, whichever comes first, and all spares.

DESCRIPTION:

Bell Helicopter received two reports where a bearing had migrated out of a flight control lever. Investigation revealed that, although the inspection witness mark was applied to the part, the bearing had not been staked during manufacturing. Affected parts were associated with a single Bell Helicopter supplier. Review of the supplier's manufacturing and quality process indicates inspection of additional components is warranted.

Bell Helicopter issues this bulletin to accomplish a one-time inspection of various parts that could potentially exhibit the same defect. The affected parts are separated in Table 1 and Table 2 based on installation characteristics and criticality. Parts in service and all spare parts are affected. When serialized, only parts with serial number prefix TI or TIFS are affected. However, affected part not serialized, may have Supplier marking as shown on Figure 1.

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 this bulletin. Man-hours are based on hands-on time, and may vary with personnel and facilities available.

WARRANTY:

There will be no warranty associated with this bulletin

MATERIAL:

None required

SPECIAL TOOLS:

None required

WEIGHT AND BALANCE:

Not affected

ELECTRICAL LOAD DATA:

Not affected

REFERENCES:

BHT-407-IPB Illustrated Parts Breakdown
BHT-407-MM Maintenance Manual
BHT-407-CR&O Component Repair and Overhaul Manual
BHT-ALL-SPM Standard Practices Manual

PUBLICATIONS AFFECTED:

None affected

ACCOMPLISHMENT INSTRUCTIONS:

Part I: Inspection of parts in Table 1

1. Gain access to the affected parts. See Table 1 for a list.
2. Using a 10X magnifying glass or other suitable means such as a boroscope, inspect parts for bearings that have not been staked. Refer to Standard Practices Manual (SPM). If a bearing is not visible, apply hand pressure to the part to detect any axial movement. If still in doubt, remove the part from the aircraft to inspect.
3. Should you find a part with a discrepant bearing, replace the bearing or the assembly and contact Product Support Engineering to report finding.
4. Make an entry in the helicopter historical records indicating compliance with Part I of this Alert Service Bulletin.

Part II: Inspection of parts in Table 2

1. Gain access to the affected parts. See Table 2 for a list.
2. Using a 10X magnifying glass or other suitable means such as a boroscope, inspect parts for bearings that have not been staked. Refer to Standard Practices Manual (SPM). If a bearing is not visible, apply hand pressure to the part to detect any axial movement. If still in doubt, remove the part from the aircraft
3. Should you find a part with a discrepant bearing, replace the bearing or the assembly and contact Product Support Engineering to report finding.
4. Make an entry in the helicopter historical records indicating compliance with Part II of this Alert Service Bulletin.

Table 1
Affected Parts (See Part I)

| Part Number | Description |
|--------------------|--------------------------------|
| 406-010-417-101 | Bearing and Liner Assembly |
| 407-001-325-101 | Cyclic Mixer Follower Assembly |
| 407-001-524-105 | Bellcrank Assembly |
| 407-001-524-109 | Bellcrank Assembly |
| 407-001-526-105 | Bellcrank Assembly |
| 407-001-526-109 | Bellcrank Assembly |
| 407-001-528-101 | Bellcrank Assembly |
| 407-001-528-105 | Bellcrank Assembly |

Table 2
Affected Parts (See Part II)

| Part Number | Description |
|--------------------|--------------------|
| 407-001-723-101 | Beam Assembly |

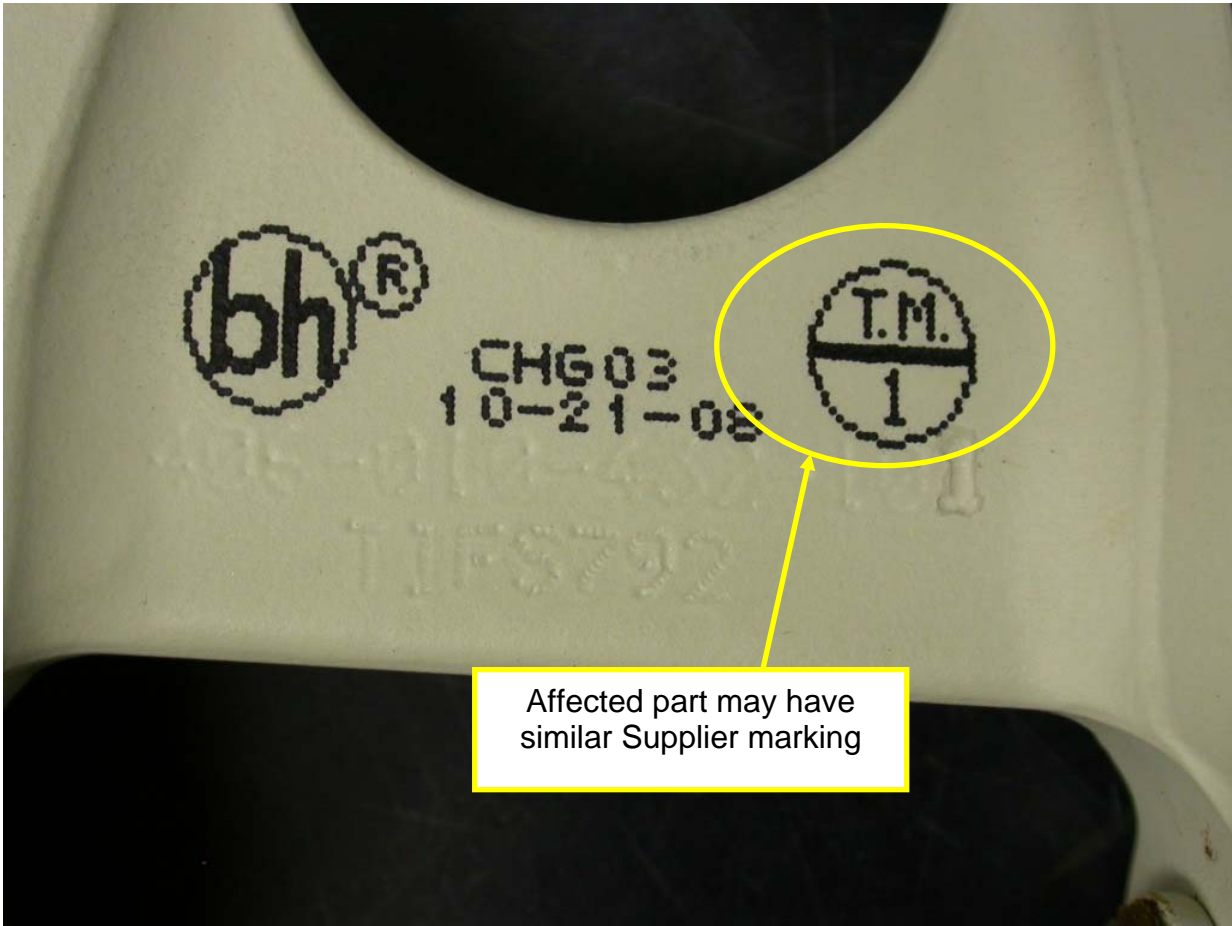


Figure 1. Affected part Supplier marking.